



Daikin Altherma mid
temperature split
Technical Data
ERRA08-12EW1



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ERRA08-12EW1

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1 Features

1 - 1 ERRA08-12EW1

- › Outdoor unit extracts heat from the outdoor air, even at -25°C
- › By heat pump operation only, the outdoor unit delivers a leaving water temperature of 65°C at -15°C ambient temperature
- › By -15°C ambient temperature, the outdoor unit limits heating capacity loss
- › Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A, leads directly to lower energy consumption thanks to its high energy efficiency and has a 30% lower refrigerant charge
- › WLAN cartridge included



Guaranteed operation down to -25°C



Onecta app

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | | ELBH12E6V + ERRA08EW1 | ELBH12E6V + ERRA10EW1 | ELBH12E6V + ERRA12EW1 | |
|--|-----------------------------------|-----------------------------------|---------------------------|--|--|-----------------------|-----------------------|--|
| Heating capacity | Min. | | | kW | 3.45 (1) | | | |
| | Nom. | | | kW | 6.17 (2) | | | |
| | Max. | | | kW | 7.95 (1) | 9.25 (1) | 9.97 (1) | |
| Power input | Heating | Min. | | kW | 0.70 (3) | | | |
| | | Nom. | | kW | 1.21 (2) | | | |
| | | Max. | | kW | 1.63 (3) | 1.98 (3) | 2.21 (3) | |
| COP | | | | | 5.10 (2) | | | |
| Pump | Type | | | | Grundfos UPM4L K 15-75 130 9 DK1 | | | |
| | Nominal ESP Heating unit | | | | 67.9 (4) | | | |
| Water side Heat exchanger | Water flow rate | Heating | Nom. | l/min | 18.3 | | | |
| General | Supplier/ Manufacturer details | Name and address | | | Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium | | | |
| | | | Name or trademark | | | Daikin Europe N.V. | | |
| | Product description | Air-to-water heat pump | | | Yes | | | |
| | | Brine-to-water heat pump | | | No | | | |
| | | Heat pump combination heater | | | Yes | | | |
| | | Low-temperature heat pump | | | No | | | |
| | | Supplementary heater integrated | | | Yes | | | |
| | Water-to-water heat pump | | | No | | | | |
| LW(A) Sound power level (according to EN14825) | Indoor | | | | dB(A) | | | |
| LW(A) Sound power level (according to EN14825) | Outdoor | | | | dB(A) | | | |
| Sound condition Ecodesign and energy label | | | | | Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825 | | | |
| Space heating general | Air to water unit | Rated airflow (outdoor) | | | m ³ /h | | | |
| | | | | | 3,542 | | | |
| | Other | Capacity control | | | Inverter | | | |
| | | Pck (Crankcase heater mode) | | | kW | | | |
| | | Poff (Off mode) | | | kW | | | |
| | | Psb (Standby mode) | | | kW | | | |
| | | Pto (Thermostat off) | | | kW | | | |
| Integrated supplementary heater | Psup | | | kW | | | | |
| | Type of energy input | | | Electrical | | | | |
| Space heating | Average climate water outlet 55°C | General | Annual energy consumption | | kWh | | | |
| | | | | | 7,541 | | | |
| | | | | ηs (Seasonal space heating efficiency) | | % | | |
| | | | | | | 134 | | |
| | | | | Prated at -10°C | | kW | | |
| | | | | | | 12.5 | | |
| | | | | Qhe Annual energy consumption (GCV) | | Gj | | |
| | | | | 27 | | | | |
| | | SCOP | | 3.42 | | | | |
| | | | | 3.43 | | | | |
| | | Seasonal space heating eff. class | | A++ | | | | |
| | | | | 1.0 | | | | |
| | | A Condition (-7°CDB/-8°CWB) | | CdH (Degradation heating) | | | | |
| | | | | 1.0 | | | | |

2 Specifications


2 - 1 Specifications

2

| Technical specifications | | | | ELBH12E6V + ERRA08EW1 | ELBH12E6V + ERRA10EW1 | ELBH12E6V + ERRA12EW1 |
|--|--|--|---------------------------|-----------------------|-----------------------|-----------------------|
| Space heating Average climate water outlet 55°C | A Condition (-7°CDB/8°CWB) | COPd | | | 2.34 | |
| | | Pdh | kW | | 7.6 | |
| | | PERd | % | | 93.6 | |
| | B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | | 1.0 | |
| | | COPd | | | 3.50 | |
| | | Pdh | kW | | 6.8 | |
| | C Condition (7°CDB/6°CWB) | PERd | % | | 140.0 | |
| | | Cdh (Degradation heating) | | | 1.0 | |
| | | COPd | | | 5.07 | |
| | D Condition (12°CDB/11°CWB) | Pdh | kW | | 4.5 | |
| | | PERd | % | | 202.8 | |
| | | Cdh (Degradation heating) | | | 1.0 | |
| | Tol (temperature operating limit) | COPd | | 2.04 | | 2.06 |
| | | Pdh | kW | 6.9 | | 8.2 |
| | | PERd | % | 81.6 | | 82.4 |
| | | TOL | °C | | | -10 |
| | | WTOL | °C | | | 55 |
| | Rated heat output supplementary capacity | Psup (at Tdesign -10°C) | kW | 5.6 | | 4.3 |
| | | Tbiv (bivalent temperature) | COPd | | 2.90 | |
| | Pdh | | kW | 8.5 | | 10.0 |
| PERd | % | | 116.0 | | 99.2 | |
| Tbiv | °C | | -2 | | -5 | |
| Cold climate water outlet 55°C | General | Annual energy consumption | kWh | 7,088 | 6,950 | 6,921 |
| | | ηs (Seasonal space heating efficiency) | % | 122 | | 125 |
| | | Prated at -22°C | kW | | 9.0 | |
| | | Qhe Annual energy consumption (GCV) | Gj | 26 | | 25 |
| | | A Condition (-7°CDB/8°CWB) | Cdh (Degradation heating) | | | 1.0 |
| COPd | | | | 2.61 | | |
| Pdh | kW | | | 5.2 | | |
| PERd | % | | 104.2 | | 104.4 | |
| B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | | 1.0 | | |
| | COPd | | | 3.90 | | |
| | Pdh | kW | | 3.3 | | |
| | PERd | % | | 156.0 | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELBH12E6V + ERRA08EW1 | ELBH12E6V + ERRA10EW1 | ELBH12E6V + ERRA12EW1 |
|--|---|--|---|----------------------------|-----------------------|-----------------------|
| Space heating  | Cold climate water outlet 55°C | C Condition (7°CDB/ B/6°CWB) | Cdh (Degradation heating) | 1.0 | | |
| | | | COPd | 4.96 | | |
| | | | Pdh kW | 3.4 | | |
| | | | PERd % | 198.3 | | |
| | | D Condition (12°CDB/ B/11°CWB) | COPd | 6.56 | | |
| | | | Pdh kW | 4.2 | | |
| | | | PERd % | 262.5 | | |
| | | | Tol (tem- perature operating limit) | COPd | 1.49 | 1.56 |
| | | | Pdh kW | 4.9 | 6.1 | 7.2 |
| | | | PERd % | 59.6 | 62.3 | 64.7 |
| | | TOL °C | -22 | | | |
| | | WTOL °C | 55 | | | |
| | Warm climate water outlet 55°C | G Condition (-15°CDB/-) | COPd | 2.00 | 2.03 | |
| | | | Pdh kW | 6.0 | 7.2 | |
| | | | PERd % | 80.0 | 81.2 | |
| | | Tbiv (bivalent tempera- ture) | COPd | 2.25 | 2.03 | |
| | | | Pdh kW | 6.6 | 7.2 | |
| | | | PERd % | 90.0 | 81.2 | |
| | | | Tbiv °C | -12 | -15 | |
| | | | Rated heat output sup- plementary capacity | Psup (at Tdesign -22°C) kW | 4.1 | 2.9 |
| | General | Annual energy consumption | kWh | 2,972 | | |
| | | | ηs (Seasonal space heating efficiency) | 170 | | |
| | | | Prated at 2°C | 9.6 | | |
| Qhe Annual energy consumption (GCV) | | | 11 | | | |
| B Condition (2°CDB/ B/1°CWB) | | Cdh (Degradation heating) | 1.0 | | | |
| | | COPd | 2.66 | | | |
| | | Pdh kW | 8.0 | | | |
| | | PERd % | 106.5 | | | |
| C Condition (7°CDB/ B/6°CWB) | | Cdh (Degradation heating) | 1.0 | | | |
| | | COPd | 3.79 | | | |
| | Pdh kW | 6.7 | | | | |
| | PERd % | 151.5 | | | | |
| D Condition (12°CDB/ B/11°CWB) | Cdh (Degradation heating) | 1.0 | | | | |
| | COPd | 5.87 | | | | |
| | Pdh kW | 3.6 | | | | |
| | PERd % | 234.9 | | | | |
| Tbiv (bivalent tempera- ture) | COPd | 3.13 | | | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | | ELBH12E6V + ERRA08EW1 | ELBH12E6V + ERRA10EW1 | ELBH12E6V + ERRA12EW1 | |
|--|-----------------------------------|--|--|------|-----------------------|-----------------------|-----------------------|-------|
| Space heating | Warm climate water outlet 55°C | Tbiv | Pdh | kW | 8.4 | | | |
| | | (bivalent) | PERd | % | 125.4 | | | |
| | | tempera- ture) | Tbiv | °C | 4 | | | |
| | Average climate water outlet 35°C | General | Annual energy consumption | | kWh | 3,561 | | 3,539 |
| | | | ηs (Seasonal space heating efficiency) | | % | 190 | | 191 |
| | | | Prated at -10°C | | kW | 8.3 | | |
| | | | Qhe Annual energy consumption (GCV) | | Gj | 13 | | |
| | | | SCOP | | | 4.81 | | 4.84 |
| | | | Seasonal space heating eff. class | | | A+++ | | |
| | | | A Condition (-7°CDB/8°CWB) | COPd | | | | 3.20 |
| | Pdh | | | | kW | 7.5 | | |
| | PERd | | | | % | 128.0 | | |
| | B Condition (2°CDB/11°CWB) | COPd | | | | 4.93 | | |
| | | | Pdh | | kW | 4.4 | | |
| | | | PERd | | % | 197.2 | | |
| | C Condition (7°CDB/6°CWB) | COPd | | | | 6.37 | | |
| | | | Pdh | | kW | 4.3 | | |
| | | | PERd | | % | 254.8 | | |
| | D Condition (12°CDB/11°CWB) | COPd | | | | 8.13 | | |
| | | | Pdh | | kW | 6.6 | | |
| | | | PERd | | % | 325.2 | | |
| | ToI (temperature operating limit) | COPd | | | | 2.90 | | 2.86 |
| | | | Pdh | | kW | 6.9 | | 8.1 |
| | | | PERd | | % | 116.0 | | 114.4 |
| | | | TOL | | °C | -10 | | |
| | Tbiv (bivalent temperature) | COPd | | | | | | 35 |
| | | | Pdh | | kW | 3.20 | | 2.86 |
| PERd | | | | % | 7.5 | | 8.1 | |
| Tbiv | | | | °C | 128.0 | | 114.4 | |
| Rated heat output supplementary capacity | Psup (at Tdesign -10°C) | | | kW | 1.4 | | 0.0 | |
| | | | | | | | | |
| Cold climate water outlet 35°C | General | Annual energy consumption | | kWh | 5,394 | 5,239 | 5,224 | |
| | | ηs (Seasonal space heating efficiency) | | % | 162 | 166 | 167 | |
| | | Prated at -22°C | | kW | 9 | | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELBH12E6V + ERRA08EW1 | ELBH12E6V + ERRA10EW1 | ELBH12E6V + ERRA12EW1 | |
|---|--|---|--------------------------------------|-----------------------|-----------------------|-----------------------|------|
| Space heating | Cold climate water outlet 35°C | General | Qhe Annual energy consumption (GCV) | 19.4 | 18.9 | 18.8 | |
| | | | A Condition (-7°CDB- B/-8°CWB) | COPd | | 3.48 | |
| | | | | Pdh | kW | | 5.4 |
| | | PERd | | % | | 139.2 | |
| | | B Condition (2°CDB- B/1°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 5.40 | | |
| | | | Pdh | kW | 3.6 | | |
| | | C Condition (7°CDB- B/6°CWB) | PERd | % | 216.0 | | |
| | | | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 6.53 | | |
| | | D Condition (12°CDB- B/11°CWB) | Pdh | kW | 5.3 | | |
| | | | PERd | % | 261.2 | | |
| | | | Cdh (Degradation heating) | | 1.0 | | |
| | | Tol (tem- perature operating limit) | COPd | | 2.11 | 2.14 | 2.16 |
| | | | Pdh | kW | 4.9 | 5.9 | 6.5 |
| | | | PERd | % | 84.3 | 85.6 | 86.4 |
| | | G Condition (-15°CDB/-) | TOL | °C | | -22 | |
| | | | WTOL | °C | | 35 | |
| | | | Cdh (Degradation heating) | | 1.0 | | |
| | | Tbiv (bivalent tempera- ture) | COPd | | 2.68 | 2.64 | |
| | | | Pdh | kW | 6.0 | 7.0 | |
| | | | PERd | % | 107.1 | 105.6 | |
| | | Rated heat output sup- plementary capacity | Tbiv | °C | 2.95 | 2.64 | |
| | | | Pdh | kW | 6.5 | 7.0 | |
| PERd | % | | 118.1 | 105.6 | | | |
| Warm climate water outlet 35°C | General | Tbiv | °C | -12 | -15 | | |
| | | Psup (at Tdesign -22°C) | kW | 4.1 | 3.1 | 2.6 | |
| | | Annual energy consumption | kWh | | 1,993 | | |
| C Condition (7°CDB- B/6°CWB) | ns (Seasonal space heating efficiency) | % | | 228 | | | |
| | Prated at 2°C | kW | | 8.6 | | | |
| | Qhe Annual energy consumption (GCV) | Gj | | 7 | | | |
| B Condition (2°CDB- B/1°CWB) | Cdh (Degradation heating) | | 1.0 | | | | |
| | COPd | | 4.17 | | | | |
| | Pdh | kW | 6.8 | | | | |
| C Condition (7°CDB- B/6°CWB) | PERd | % | 166.8 | | | | |
| | Cdh (Degradation heating) | | 1.0 | | | | |
| | COPd | | 5.85 | | | | |
| Tbiv (bivalent tempera- ture) | Pdh | kW | 5.5 | | | | |
| | PERd | % | 234.0 | | | | |
| | COPd | | 4.89 | | | | |
| D Condition (12°CDB- B/11°CWB) | Pdh | kW | 6.8 | | | | |
| | PERd | % | 195.6 | | | | |
| | Tbiv | °C | 5 | | | | |
| C Condition (7°CDB- B/6°CWB) | Cdh (Degradation heating) | | 1.0 | | | | |
| | COPd | | 7.78 | | | | |
| | Pdh | kW | 6.1 | | | | |
| D Condition (12°CDB- B/11°CWB) | PERd | % | 311.2 | | | | |

(1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(3)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |

(4)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

Test at Ta DB/WB 7°C/6°C. According to EN 16147.

| Technical specifications | | | | ELBH12E9W + ERRA08EW1 | ELBH12E9W + ERRA10EW1 | ELBH12E9W + ERRA12EW1 |
|--------------------------|---------|------|------|-----------------------|-----------------------|-----------------------|
| Heating capacity | Min. | kW | | 3.45 (1) | | |
| | | | Nom. | | 6.17 (2) | |
| | | | Max. | 7.95 (1) | 9.25 (1) | 9.97 (1) |
| Power input | Heating | Min. | kW | | 0.70 (3) | |
| | | Nom. | kW | | 1.21 (2) | |
| | | Max. | kW | 1.63 (3) | 1.98 (3) | 2.21 (3) |
| COP | | | | 5.10 (2) | | |


2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELBH12E9W + ERRA08EW1 | ELBH12E9W + ERRA10EW1 | ELBH12E9W + ERRA12EW1 | |
|--|---------------------------------|--|---------------------------|--|-----------------------|-----------------------|--|
| Pump | Type | Grundfos UPM4L K 15-75 130 9 DK1 | | | | | |
| | Nominal ESP Heating unit | Heating | kPa | 67.9 (4) | | | |
| Water side Heat exchanger | Water flow rate | Heating | Nom. | l/min | 18.3 | | |
| General | Supplier/Manufacturer details | Name and address | | Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium | | | |
| | | Name or trademark | | Daikin Europe N.V. | | | |
| | Product description | Air-to-water heat pump | Yes | | | | |
| | | Brine-to-water heat pump | No | | | | |
| | | Heat pump combination heater | Yes | | | | |
| | | Low-temperature heat pump | No | | | | |
| | | Supplementary heater integrated | Yes | | | | |
| | Water-to-water heat pump | No | | | | | |
| LW(A) Sound power level (according to EN14825) | Indoor | | dB(A) | 44.0 | | | |
| LW(A) Sound power level (according to EN14825) | Outdoor | | dB(A) | 56.0 | | | |
| Sound condition Ecodesign and energy label | | | | Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825 | | | |
| Space heating general | Air to water unit | Rated airflow (outdoor) | | m ³ /h | 3,542 | | |
| | Other | Capacity control | Inverter | | | | |
| | | Pck (Crankcase heater mode) | | kW | 0.000 | | |
| | | Poff (Off mode) | | kW | 0.027 | | |
| | | Psb (Standby mode) | | kW | 0.027 | | |
| | | Pto (Thermostat off) | | kW | 0.024 | | |
| | Integrated supplementary heater | Psup | | kW | 9.0 | | |
| | | Type of energy input | | Electrical | | | |
| Space heating climate water outlet 55°C | General | Annual energy consumption | kWh | 7,541 | 7,522 | 7,309 | |
| | | ηs (Seasonal space heating efficiency) | % | 134 | | 138 | |
| | | Prated at -10°C | kW | 12.5 | | | |
| | | Qhe Annual energy consumption (GCV) | Gj | 27 | | 26 | |
| | | SCOP | | 3.42 | 3.43 | 3.53 | |
| | | Seasonal space heating eff. class | | A++ | | | |
| | | A Condition (-7°CDB/-8°CWB) | Cdh (Degradation heating) | 1.0 | | | |


2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELBH12E9W + ERRA08EW1 | ELBH12E9W + ERRA10EW1 | ELBH12E9W + ERRA12EW1 | |
|--|--|--|----------------------------|-----------------------|-----------------------|-----------------------|------|
| Space heating  | Average climate water outlet 55°C | A Condition (-7°CDB/8°CWB) | COPd | | | 2.34 | |
| | | | Pdh kW | | | 7.6 | |
| | | | PERd % | | | 93.6 | |
| | B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | | | 1.0 | |
| | | | COPd | | | 3.50 | |
| | | | Pdh kW | | | 6.8 | |
| | C Condition (7°CDB/6°CWB) | | PERd % | | | 140.0 | |
| | | Cdh (Degradation heating) | | | | 1.0 | |
| | | | COPd | | | 5.07 | |
| | D Condition (12°CDB/11°CWB) | | Pdh kW | | | 4.5 | |
| | | | PERd % | | | 202.8 | |
| | | Cdh (Degradation heating) | | | | 1.0 | |
| | Tol (temperature operating limit) | | COPd | 2.04 | | | 2.06 |
| | | | Pdh kW | 6.9 | | | 8.2 |
| | | | PERd % | 81.6 | | | 82.4 |
| | Rated heat output supplementary capacity | | TOL °C | | | | -10 |
| | | | WTOL °C | | | | 55 |
| | | | Psup (at Tdesign -10°C) kW | 5.6 | | | 4.3 |
| | Tbiv (bivalent temperature) | | COPd | | 2.90 | | 2.48 |
| | | | Pdh kW | | 8.5 | | 10.0 |
| | | PERd % | | 116.0 | | 99.2 | |
| | | Tbiv °C | | -2 | | -5 | |
| | | | | | | | |
| Cold climate water outlet 55°C | General | Annual energy consumption | kWh | 7,088 | 6,950 | 6,921 | |
| | | ηs (Seasonal space heating efficiency) | % | 122 | | 125 | |
| | | Prated at -22°C | kW | | 9.0 | | |
| | Qhe Annual energy consumption (GCV) | Gj | 26 | | 25 | | |
| | A Condition (-7°CDB/8°CWB) | Cdh (Degradation heating) | | | | 1.0 | |
| B Condition (2°CDB/1°CWB) | | COPd | | | 2.61 | | |
| | | Pdh kW | | | 5.2 | | |
| | | PERd % | 104.2 | | 104.4 | | |
| B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | | | 1.0 | | |
| | | COPd | | | 3.90 | | |
| | | Pdh kW | | | 3.3 | | |
| | | PERd % | | | 156.0 | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELBH12E9W + ERRA08EW1 | ELBH12E9W + ERRA10EW1 | ELBH12E9W + ERRA12EW1 |
|--|---|--|--|-----------------------|-----------------------|-----------------------|
| Space heating  | Cold climate water outlet 55°C | C Condition (7°CDB/ B/6°CWB) | Cdh (Degradation heating) | | 1.0 | |
| | | | COPd | | 4.96 | |
| | | | Pdh kW | | 3.4 | |
| | | | PERd % | | 198.3 | |
| | | D Condition (12°CDB/ B/11°CWB) | COPd | | 6.56 | |
| | | | Pdh kW | | 4.2 | |
| | | | PERd % | | 262.5 | |
| | | | Tol (tem- perature operating limit) | COPd | 1.49 | 1.56 |
| | | | Pdh kW | 4.9 | 6.1 | 7.2 |
| | | | PERd % | 59.6 | 62.3 | 64.7 |
| | | TOL °C | | -22 | | |
| | | WTOL °C | | 55 | | |
| | Warm climate water outlet 55°C | G Condition (-15°CDB/-) | COPd | 2.00 | | 2.03 |
| | | | Pdh kW | 6.0 | | 7.2 |
| | | | PERd % | 80.0 | | 81.2 |
| | | | Tbiv (bivalent tempera- ture) | COPd | 2.25 | |
| | | | Pdh kW | 6.6 | | 7.2 |
| | | | PERd % | 90.0 | | 81.2 |
| | | | Tbiv °C | -12 | | -15 |
| | | Rated heat output sup- plementary capacity | Psup (at Tdesign -22°C) kW | 4.1 | 2.9 | 1.8 |
| General | | Annual energy consumption ηs (Seasonal space heating efficiency) Prated at 2°C | kWh | | 2,972 | |
| | | | % | | 170 | |
| | kW | | | 9.6 | | |
| | Gj | | | 11 | | |
| | B Condition (2°CDB/ B/1°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | COPd | | 2.66 | | |
| | | Pdh kW | | 8.0 | | |
| | | PERd % | | 106.5 | | |
| | C Condition (7°CDB/ B/6°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | COPd | | 3.79 | | |
| Pdh kW | | | 6.7 | | | |
| PERd % | | | 151.5 | | | |
| D Condition (12°CDB/ B/11°CWB) | Cdh (Degradation heating) | | 1.0 | | | |
| | COPd | | 5.87 | | | |
| | Pdh kW | | 3.6 | | | |
| | PERd % | | 234.9 | | | |
| Tbiv (bivalent tempera- ture) | COPd | | 3.13 | | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | | ELBH12E9W + ERRA08EW1 | ELBH12E9W + ERRA10EW1 | ELBH12E9W + ERRA12EW1 |
|--------------------------------|--|-----------------------------|--|-------|-----------------------|-----------------------|-----------------------|
| Space heating | Warm climate water outlet 55°C | Tbiv (bivalent temperature) | Pdh | kW | 8.4 | | |
| | | | PERd | % | 125.4 | | |
| | | | Tbiv | °C | 4 | | |
| | Average climate water outlet 35°C | General | Annual energy consumption | kWh | 3,561 | 3,539 | |
| | | | ηs (Seasonal space heating efficiency) | % | 190 | 191 | |
| | | | Prated at -10°C | kW | 8.3 | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | 13 | | |
| | | | SCOP | | 4.81 | 4.84 | |
| | | | Seasonal space heating eff. class | | A+++ | | |
| | | | A Condition (-7°CDB/8°CWB) | COPd | | 3.20 | |
| | Pdh | kW | | 7.5 | | | |
| | B Condition (2°CDB/11°CWB) | PERd | % | 128.0 | | | |
| | | Cdh (Degradation heating) | | 1.0 | | | |
| | | COPd | | 4.93 | | | |
| | C Condition (7°CDB/6°CWB) | Pdh | kW | 4.4 | | | |
| | | PERd | % | 197.2 | | | |
| | | Cdh (Degradation heating) | | 1.0 | | | |
| | D Condition (12°CDB/11°CWB) | COPd | | 6.37 | | | |
| | | Pdh | kW | 4.3 | | | |
| | | PERd | % | 254.8 | | | |
| | Tol (temperature operating limit) | Cdh (Degradation heating) | | 1.0 | | | |
| | | COPd | | 8.13 | | | |
| | | Pdh | kW | 6.6 | | | |
| | Rated heat output supplementary capacity | PERd | % | 325.2 | | | |
| | | COPd | | 2.90 | 2.86 | | |
| | | Pdh | kW | 6.9 | 8.1 | | |
| | | PERd | % | 116.0 | 114.4 | | |
| TOL | | °C | -10 | | | | |
| Cold climate water outlet 35°C | General | WTOL | °C | 35 | | | |
| | | Tbiv | | 3.20 | 2.86 | | |
| | | COPd | | 7.5 | 8.1 | | |
| | | Pdh | kW | 128.0 | 114.4 | | |
| | | PERd | % | -7 | -10 | | |
| Annual energy consumption | Psup (at Tdesign -10°C) | kW | 1.4 | 0.0 | | | |
| | Annual energy consumption | kWh | 5,394 | 5,239 | 5,224 | | |
| | ηs (Seasonal space heating efficiency) | % | 162 | 166 | 167 | | |
| Prated at -22°C | kW | 9 | | | | | |

2 Specifications

2 - 1 Specifications

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| Technical specifications | | | | ELBH12E9W + ERRA08EW1 | ELBH12E9W + ERRA10EW1 | ELBH12E9W + ERRA12EW1 | | |
|--|--------------------------------------|--|-------------------------------------|---------------------------|-----------------------|-----------------------|-------|------|
| Space heating | Cold climate water outlet 35°C | General | Qhe Annual energy consumption (GCV) | Gj | 19.4 | 18.9 | 18.8 | |
| | | A Condition (-7°CDB) | COPd | | | 3.48 | | |
| | | | Pdh | kW | | 5.4 | | |
| | | | PERd | % | | 139.2 | | |
| | | B Condition (2°CDB) | Cdh (Degradation heating) | | | 1.0 | | |
| | | | COPd | | | 5.40 | | |
| | | | Pdh | kW | | 3.6 | | |
| | | | PERd | % | | 216.0 | | |
| | | C Condition (7°CDB) | Cdh (Degradation heating) | | | 1.0 | | |
| | | | COPd | | | 6.53 | | |
| | | | Pdh | kW | | 5.3 | | |
| | | | PERd | % | | 261.2 | | |
| | | D Condition (12°CDB) | Cdh (Degradation heating) | | | 1.0 | | |
| | | | COPd | | | 7.98 | | |
| | | | Pdh | kW | | 6.6 | | |
| | | | PERd | % | 319.0 | | 319.2 | |
| | | Tol (temperature operating limit) | COPd | | 2.11 | | 2.14 | 2.16 |
| | | | Pdh | kW | 4.9 | | 5.9 | 6.5 |
| | | | PERd | % | 84.3 | | 85.6 | 86.4 |
| | | | TOL | °C | | | -22 | |
| | | | WTOL | °C | | | 35 | |
| | | G Condition (-15°CDB) | COPd | | 2.68 | | | 2.64 |
| | | | Pdh | kW | 6.0 | | | 7.0 |
| | PERd | % | 107.1 | | | 105.6 | | |
| Tbiv (bivalent temperature) | COPd | | 2.95 | | | 2.64 | | |
| | Pdh | kW | 6.5 | | | 7.0 | | |
| | PERd | % | 118.1 | | | 105.6 | | |
| | Tbiv | °C | -12 | | | -15 | | |
| Rated heat output supplementary capacity | Psup (at Tdesign -22°C) | kW | 4.1 | | 3.1 | 2.6 | | |
| Warm climate water outlet 35°C | General | Annual energy consumption | kWh | | 1,993 | | | |
| | | ηs (Seasonal space heating efficiency) | % | | 228 | | | |
| | | Prated at 2°C | kW | | 8.6 | | | |
| | | Qhe Annual energy consumption (GCV) | Gj | | 7 | | | |
| | | B Condition (2°CDB) | Cdh (Degradation heating) | | | 1.0 | | |
| | | | COPd | | | 4.17 | | |
| | | | Pdh | kW | | 6.8 | | |
| | | | PERd | % | | 166.8 | | |
| | | C Condition (7°CDB) | Cdh (Degradation heating) | | | 1.0 | | |
| | | | COPd | | | 5.85 | | |
| Space heating | Warm climate water outlet 35°C | B/6°CWB | Pdh | kW | | 5.5 | | |
| | | | PERd | % | | 234.0 | | |
| | | | Tbiv | COPd | | | 4.89 | |
| | | | | Pdh | kW | | 6.8 | |
| | | | | PERd | % | | 195.6 | |
| | | | | Tbiv | °C | | 5 | |
| | | | D Condition (12°CDB) | Cdh (Degradation heating) | | | 1.0 | |
| | | | | COPd | | | 7.78 | |
| | | | | Pdh | kW | | 6.1 | |
| | | | | PERd | % | | 311.2 | |

(1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(3)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |

(4)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |


Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

Test at Ta DB/WB 7°C/6°C. According to EN 16147.

| Technical specifications | | | | ELBX12E6V + ERRA08EW1 | ELBX12E6V + ERRA10EW1 | ELBX12E6V + ERRA12EW1 |
|--------------------------|---------|------|----|-----------------------|-----------------------|-----------------------|
| Heating capacity | Min. | | kW | | 3.45 (1) | |
| | Nom. | | kW | | 6.17 (2) | |
| | Max. | | kW | 7.95 (1) | 9.25 (1) | 9.97 (1) |
| Cooling capacity | Nom. | | kW | 6.81 (3) / 6.47 (4) | 7.97 (3) / 6.47 (4) | 8.62 (3) / 6.47 (4) |
| Power input | Heating | Min. | kW | | 0.70 (5) | |
| | | Nom. | kW | | 1.21 (2) | |
| | | Max. | kW | 1.63 (5) | 1.98 (5) | 2.21 (5) |
| | Cooling | Nom. | kW | 2.08 (3) / 1.13 (4) | 2.57 (3) / 1.13 (4) | 2.86 (3) / 1.13 (4) |
| | | COP | | | 5.10 (2) | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | | ELBX12E6V + ERRA08EW1 | ELBX12E6V + ERRA10EW1 | ELBX12E6V + ERRA12EW1 |
|---|--|---------------------------------|--|------------|--|-----------------------|-----------------------|
| EER | | | | | 3.28 (3) / 5.75 (4) | 3.10 (4) / 5.75 | 3.01 (3) / 5.75 (4) |
| Pump | Type | | | | Grundfos UPM4L K 15-75 130 9 DKI | | |
| | Nominal ESP Heating unit | kPa | | | 67.9 (6) | | |
| Water side Heat exchanger | Water flow rate | Heating | Nom. | l/min | 18.3 | | |
| General | Supplier/Manufacturer details | Name and address | | | Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium | | |
| | | Name or trademark | | | Daikin Europe N.V. | | |
| | Product description | Air-to-water heat pump | | | Yes | | |
| | | Brine-to-water heat pump | | | No | | |
| | | Heat pump combination heater | | | Yes | | |
| | | Low-temperature heat pump | | | No | | |
| | | Supplementary heater integrated | | | Yes | | |
| | | Water-to-water heat pump | | | No | | |
| | LW(A) Sound power level (according to EN14825) | Indoor | dB(A) | | | 44.0 | |
| LW(A) Sound power level (according to EN14825) | Outdoor | dB(A) | | | 56.0 | | |
| Sound condition Ecodesign and energy label | | | | | Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825 | | |
| Space heating general | Air to water unit | Rated airflow (outdoor) | | | m ³ /h | | |
| | | | | | 3,542 | | |
| | Other | Capacity control | | | Inverter | | |
| | | Pck (Crankcase heater mode) | | | kW | | |
| | | Poff (Off mode) | | | kW | | |
| | | Psb (Standby mode) | | | kW | | |
| | Pto (Thermostat off) | | | kW | | | |
| Integrated supplementary heater | Psup | | | kW | | | |
| | Type of energy input | | | Electrical | | | |
| Space heating  | Average climate water outlet 55°C | General | Annual energy consumption | kWh | 7,442 | 7,423 | 7,210 |
| | | | ηs (Seasonal space heating efficiency) | % | 136 | | 140 |
| | | | Prated at -10°C | kW | 12.5 | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | 27 | | 26 |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELBX12E6V + ERRA08EW1 | ELBX12E6V + ERRA10EW1 | ELBX12E6V + ERRA12EW1 | | |
|--|---------------------------|-----------------------------------|--|--|-----------------------|-----------------------|-------|-------|
| Space heating Average climate water outlet 55°C | General | SCOP | | 3.47 | 3.48 | 3.58 | | |
| | | Seasonal space heating eff. class | | | A++ | | | |
| | | A Condition (-7°CDB/-8°CWB) | Cdh (Degradation heating) | | | 1.0 | | |
| | | | COPd | | | 2.34 | | |
| | | | Pdh kW | | | 7.6 | | |
| | | | PERd % | | | 93.6 | | |
| | | | B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | | 3.50 | | |
| | | | Pdh kW | | | 6.8 | | |
| | | | PERd % | | | 140.0 | | |
| | | | C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | | 5.07 | | |
| | | | Pdh kW | | | 4.5 | | |
| | | | PERd % | | | 202.8 | | |
| | | | D Condition (12°CDB/11°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | | 6.23 | | |
| | | | Pdh kW | | | 5.2 | | |
| | | | PERd % | | | 249.2 | | |
| | | | Tol (temperature operating limit) | COPd | 2.04 | | 2.06 | |
| | | | | Pdh kW | 6.9 | | 8.2 | |
| | | | | PERd % | 81.6 | | 82.4 | |
| | | | | TOL °C | | | -10 | |
| | | | | WTOL °C | | | 55 | |
| | | | Rated heat output supplementary capacity | Psup (at Tdesign -10°C) kW | 5.6 | | 4.3 | |
| | | | | Tbiv (bivalent temperature) | COPd | 2.90 | | 2.48 |
| | | | | | Pdh kW | 8.5 | | 10.0 |
| | | | | | PERd % | 116.0 | | 99.2 |
| | | | | | Tbiv °C | -2 | | -5 |
| | | Cold climate water outlet 55°C | General | Annual energy consumption | kWh | 7,028 | 6,890 | 6,861 |
| | | | | ηs (Seasonal space heating efficiency) | % | 123 | | 126 |
| Prated at -22°C | kW | | | | | 9.0 | | |
| Qhe Annual energy consumption (GCV) | Gj | | | | | 25 | | |
| A Condition (-7°CDB/-8°CWB) | Cdh (Degradation heating) | | | | | 1.0 | | |
| | COPd | | | | | 2.61 | | |
| | Pdh kW | | | | | 5.2 | | |
| | PERd % | | | 104.2 | | 104.4 | | |
| B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | | | | 1.0 | | |
| | | | | | | | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELBX12E6V + ERRA08EW1 | ELBX12E6V + ERRA10EW1 | ELBX12E6V + ERRA12EW1 | |
|-------------------------------------|---|--|--|-----------------------|-----------------------|-----------------------|------|
| Space heating | Cold climate water outlet 55°C | B Condition (2°CDB- B/1°CWB) | COPd | 3.90 | | | |
| | | | Pdh | 3.3 | | | |
| | | | PERd | 156.0 | | | |
| | | C Condition (7°CDB- B/6°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | 4.96 | | | |
| | | | Pdh | 3.4 | | | |
| | | D Condition (12°CDB- B/11°CWB) | PERd | | 198.3 | | |
| | | | COPd | 6.56 | | | |
| | | | Pdh | 4.2 | | | |
| | Tol (tem- perature operating limit) | PERd | | 59.6 | 62.3 | 64.7 | |
| | | TOL | | -22 | | | |
| | | WTOL | | 55 | | | |
| | | COPd | | 1.49 | 1.56 | 1.62 | |
| | Warm climate water outlet 55°C | General | Pdh | | 4.9 | 6.1 | 7.2 |
| | | | PERd | | 59.6 | 62.3 | 64.7 |
| | | | TOL | | -22 | | |
| | | G Condition (-15°CDB/-) | WTOL | | 55 | | |
| | | | COPd | | 2.00 | 2.03 | |
| | | | Pdh | | 6.0 | 7.2 | |
| | | Tbiv (bivalent tempera- ture) | PERd | | 80.0 | 81.2 | |
| | | | COPd | | 2.25 | 2.03 | |
| | | | Pdh | | 6.6 | 7.2 | |
| | Rated heat output sup- plementary capacity | PERd | | 90.0 | 81.2 | | |
| | | Tbiv | | -12 | -15 | | |
| | | Psup (at Tdesign -22°C) | | 4.1 | 2.9 | 1.8 | |
| | Warm climate water outlet 55°C | General | Annual energy consumption | | 2,853 | | |
| | | | ηs (Seasonal space heating efficiency) | | 177 | | |
| Prated at 2°C | | | 9.6 | | | | |
| Qhe Annual energy consumption (GCV) | | | 10 | | | | |
| B Condition (2°CDB- B/1°CWB) | | Cdh (Degradation heating) | | 1.0 | | | |
| | | COPd | | 2.66 | | | |
| | | Pdh | | 8.0 | | | |
| C Condition (7°CDB- B/6°CWB) | | PERd | | 106.5 | | | |
| | | Cdh (Degradation heating) | | 1.0 | | | |
| | | COPd | | 3.79 | | | |
| D Condition (12°CDB/11°CWB) | | Pdh | | 6.7 | | | |
| | | PERd | | 151.5 | | | |
| | | Cdh (Degradation heating) | | 1.0 | | | |
| COPd | | 5.87 | | | | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELBX12E6V + ERRA08EW1 | ELBX12E6V + ERRA10EW1 | ELBX12E6V + ERRA12EW1 |
|--|--------------------------------|--|-----------------------------------|-----------------------|-----------------------|-----------------------|
| Space heating | Warm climate water outlet 55°C | D Condition (12°CDB/11°CWB) | Pdh | 3.6 | | |
| | | | PERd | 234.9 | | |
| Average climate water outlet 35°C | General | Tbiv (bivalent temperature) | COPd | 3.13 | | |
| | | | Pdh | 8.4 | | |
| | | | PERd | 125.4 | | |
| | | | Tbiv | 4 | | |
| | | Annual energy consumption | kWh | 3,462 | 3,440 | |
| | | ηs (Seasonal space heating efficiency) | % | 195 | 196 | |
| | | Prated at -10°C | kW | 8.3 | | |
| | | Qhe Annual energy consumption (GCV) | Gj | 12 | | |
| | | SCOP | | 4.95 | 4.98 | |
| | | | Seasonal space heating eff. class | A+++ | | |
| A Condition (-7°CDB/-8°CWB) | | COPd | 3.20 | | | |
| | | Pdh | 7.5 | | | |
| B Condition (2°CDB/1°CWB) | | Cdh (Degradation heating) | 1.0 | | | |
| | | COPd | 4.93 | | | |
| | | Pdh | 4.4 | | | |
| C Condition (7°CDB/6°CWB) | | PERd | 197.2 | | | |
| | | Cdh (Degradation heating) | 1.0 | | | |
| | | COPd | 6.37 | | | |
| D Condition (12°CDB/11°CWB) | | Pdh | 4.3 | | | |
| | | PERd | 254.8 | | | |
| | | Cdh (Degradation heating) | 1.0 | | | |
| Tol (temperature operating limit) | | COPd | 8.13 | | | |
| | | Pdh | 6.6 | | | |
| | | PERd | 325.2 | | | |
| | | TOL | -10 | | | |
| Tbiv (bivalent temperature) | | WTOL | 35 | | | |
| | | COPd | 2.90 | 2.86 | | |
| | | Pdh | 6.9 | 8.1 | | |
| | | PERd | 116.0 | 114.4 | | |
| Rated heat output supplementary capacity | | Tbiv | -10 | | | |
| | | COPd | 3.20 | 2.86 | | |
| | | Pdh | 7.5 | 8.1 | | |
| | | PERd | 128.0 | 114.4 | | |
| | Tbiv | -7 | -10 | | | |
| | Psup (at Tdesign -10°C) | kW | 1.4 | 0.0 | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELBX12E6V + ERRA08EW1 | ELBX12E6V + ERRA10EW1 | ELBX12E6V + ERRA12EW1 | | |
|---|---|--|--|-----------------------|-----------------------|-----------------------|-------|-------|
| Space heating | Cold climate water outlet 35°C | General | Annual energy consumption | kWh | 5,334 | 5,180 | 5,165 | |
| | | | η_s (Seasonal space heating efficiency) | % | 163 | 168 | 169 | |
| | | | Prated at -22°C | kW | 9 | | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | 19.2 | 18.6 | | |
| | | A Condition (-7°CDB- B/-8°CWB) | COPd | | | 3.48 | | |
| | | | | Pdh | kW | | 5.4 | |
| | | | | PERd | % | | 139.2 | |
| | | B Condition (2°CDB- B/1°CWB) | Cdh (Degradation heating) | | | 1.0 | | |
| | | | | COPd | | | 5.40 | |
| | | | | Pdh | kW | | 3.6 | |
| | | C Condition (7°CDB- B/6°CWB) | Cdh (Degradation heating) | | | 1.0 | | |
| | | | | COPd | | | 6.53 | |
| | | | | Pdh | kW | | 5.3 | |
| | | D Condition (12°CDB- B/11°CWB) | Cdh (Degradation heating) | | | 1.0 | | |
| | | | | COPd | | | 7.98 | |
| | | | | Pdh | kW | | 6.6 | |
| | | Tol (tem- perature operating limit) | PERd | | % | 319.0 | | 319.2 |
| | | | | COPd | | 2.11 | 2.14 | 2.16 |
| | | | | Pdh | kW | 4.9 | 5.9 | 6.5 |
| | | | | PERd | % | 84.3 | 85.6 | 86.4 |
| | | G Condition (-15°CDB/- -) | TOL | | °C | | -22 | |
| | | | | WTOL | °C | | 35 | |
| | | | | COPd | | 2.68 | | 2.64 |
| Pdh | kW | | | 6.0 | | 7.0 | | |
| Tbiv (bivalent tempera- ture) | PERd | | % | 107.1 | | 105.6 | | |
| | | COPd | | 2.95 | | 2.64 | | |
| | | Pdh | kW | 6.5 | | 7.0 | | |
| | | PERd | % | 118.1 | | 105.6 | | |
| Rated heat output sup- plementary capacity | Tbiv | | °C | -12 | | -15 | | |
| | | Psup (at Tdesign -22°C) | kW | 4.1 | 3.1 | 2.6 | | |
| | | COPd | | | | | | |
| | | Pdh | kW | | | | | |
| Warm climate water outlet 35°C | General | Annual energy consumption | kWh | 1,873 | | | | |
| | | η_s (Seasonal space heating efficiency) | % | 242 | | | | |
| | | Prated at 2°C | kW | 8.6 | | | | |
| | | Qhe Annual energy consumption (GCV) | Gj | 7 | | | | |
| B Condition (2°CDB- B/1°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | |
| | | COPd | | | 4.17 | | | |
| | | Pdh | kW | | 6.8 | | | |
| C Condition (7°CDB- B/6°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | |
| | | COPd | | | 5.85 | | | |
| | | Pdh | kW | | 5.5 | | | |
| Tbiv (bivalent tempera- ture) | PERd | | % | 234.0 | | | | |
| | | COPd | | 4.89 | | | | |
| | | Pdh | kW | | 6.8 | | | |
| | | PERd | % | 195.6 | | | | |
| D Condition (12°CDB- B/11°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | |
| | | COPd | | | 7.78 | | | |
| | | Pdh | kW | | 6.1 | | | |
| Space heating | Warm climate water outlet 35°C | PERd | | % | 311.2 | | | |
| | | | | | | | | |

(1)Capacity according to standard EN14511 and valid for heated water range $dT = 3-8^{\circ}C$ at $T_a 7^{\circ}C$ |

(2)Condition: T_a DB/WB $7^{\circ}C/6^{\circ}C$ - LWC $35^{\circ}C$ (DT = $5^{\circ}C$) |

(3)Cooling: EW $12^{\circ}C$; LW $7^{\circ}C$; ambient conditions: $35^{\circ}CDB$ |

(4)Cooling: EW $23^{\circ}C$; LW $18^{\circ}C$; ambient conditions: $35^{\circ}CDB$ |

(5)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |


(6)DB/WB $7^{\circ}C/6^{\circ}C$ - LWC $35^{\circ}C$ ($dT=5^{\circ}C$) with pump at full speed |

Test at T_a DB/WB $7^{\circ}C/6^{\circ}C$. According to EN 16147.

2 Specifications

2 - 1 Specifications

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| Technical specifications | | | | | ELBX12E9W + ERRA08EW1 | ELBX12E9W + ERRA10EW1 | ELBX12E9W + ERRA12EW1 | |
|---|--|---------------------------------|--|------------|--|-----------------------|-----------------------|--|
| Heating capacity | Min. | | | kW | 3.45 (1) | | | |
| | Nom. | | | kW | 6.17 (2) | | | |
| | Max. | | | kW | 7.95 (1) | 9.25 (1) | 9.97 (1) | |
| Cooling capacity | Nom. | | | kW | 6.81 (3) / 6.47 (4) | 7.97 (3) / 6.47 (4) | 8.62 (3) / 6.47 (4) | |
| Power input | Heating | Min. | | kW | 0.70 (5) | | | |
| | | Nom. | | kW | 1.21 (2) | | | |
| | | Max. | | kW | 1.63 (5) | 1.98 (5) | 2.21 (5) | |
| | Cooling | Nom. | | kW | 2.08 (3) / 1.13 (4) | 2.57 (3) / 1.13 (4) | 2.86 (3) / 1.13 (4) | |
| COP | | | | | 5.10 (2) | | | |
| EER | | | | | 3.28 (3) / 5.75 (4) | | | |
| Pump | Type | | | | Grundfos UPM4L K 15-75 130 9 DK1 | | | |
| | Nominal ESP unit | Heating | | kPa | 67.9 (6) | | | |
| Water side Heat exchanger | Water flow rate | Heating | Nom. | l/min | 18.3 | | | |
| General | Supplier/Manufacturer details | Name and address | | | Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium | | | |
| | | Name or trademark | | | Daikin Europe N.V. | | | |
| | Product description | Air-to-water heat pump | | | | Yes | | |
| | | Brine-to-water heat pump | | | | No | | |
| | | Heat pump combination heater | | | | Yes | | |
| | | Low-temperature heat pump | | | | No | | |
| | | Supplementary heater integrated | | | | Yes | | |
| | LW(A) Sound power level (according to EN14825) | Indoor | Water-to-water heat pump | | | | No | |
| | | | | | dB(A) | 44.0 | | |
| | | Outdoor | | | | | 56.0 | |
| Sound condition Ecodesign and energy label | | | | | Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825 | | | |
| Space heating general | Air to water unit | Rated airflow (outdoor) | | | | 3,542 | | |
| | | Other | Capacity control | | | | Inverter | |
| | Pck (Crankcase heater mode) | | | kW | 0.000 | | | |
| | Poff (Off mode) | | | kW | 0.027 | | | |
| | Psb (Standby mode) | | | kW | 0.027 | | | |
| | Pto (Thermostat off) | | | kW | 0.024 | | | |
| | Integrated supplementary heater | Psup | | | kW | 9.0 | | |
| Type of energy input | | | | Electrical | | | | |
| Space heating  | Average climate water outlet 55°C | General | Annual energy consumption | kWh | 7,442 | 7,423 | 7,210 | |
| | | | ηs (Seasonal space heating efficiency) | % | 136 | | 140 | |
| | | | Prated at -10°C | kW | 12.5 | | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | 27 | | 26 | |

2 Specifications


2 - 1 Specifications

| Technical specifications | | | | ELBX12E9W + ERRA08EW1 | ELBX12E9W + ERRA10EW1 | ELBX12E9W + ERRA12EW1 | | |
|--|---|---------|--------------------------------------|--|--|-----------------------|-------|-------|
| Space heating | Average climate water outlet 55°C | General | SCOP | 3.47 | 3.48 | 3.58 | | |
| | | | Seasonal space heating eff. class | A++ | | | | |
| | | | A Condition (-7°CDB/-8°CWB) | Cdh (Degradation heating) | 1.0 | | | |
| | | | | COPd | 2.34 | | | |
| | | | | Pdh kW | 7.6 | | | |
| | | | | PERd % | 93.6 | | | |
| | | | | B Condition (2°CDB/-1°CWB) | Cdh (Degradation heating) | 1.0 | | |
| | | | | | COPd | 3.50 | | |
| | | | | | Pdh kW | 6.8 | | |
| | | | | | PERd % | 140.0 | | |
| | | | | C Condition (7°CDB/-6°CWB) | Cdh (Degradation heating) | 1.0 | | |
| | | | | | COPd | 5.07 | | |
| | | | | | Pdh kW | 4.5 | | |
| | | | | | PERd % | 202.8 | | |
| | | | | D Condition (12°CDB/-11°CWB) | Cdh (Degradation heating) | 1.0 | | |
| | | | | | COPd | 6.23 | | |
| | | | | | Pdh kW | 5.2 | | |
| | | | | | PERd % | 249.2 | | |
| | | | | Tol (temperature operating limit) | COPd | 2.04 | 2.06 | |
| | | | | | Pdh kW | 6.9 | 8.2 | |
| | | | | | PERd % | 81.6 | 82.4 | |
| | | | | | TOL °C | -10 | | |
| | | | | | WTOL °C | 55 | | |
| | | | | Rated heat output supplementary capacity | Psup (at Tdesign -10°C) kW | 5.6 | 4.3 | |
| | | | | | Tbiv COPd | 2.90 | | 2.48 |
| | | | | | Pdh kW | 8.5 | | 10.0 |
| | | | | | PERd % | 116.0 | | 99.2 |
| | | | | | Tbiv °C | -2 | | -5 |
| | | | Cold climate water outlet 55°C | General | Annual energy consumption kWh | 7,028 | 6,890 | 6,861 |
| | | | | | ηs (Seasonal space heating efficiency) % | 123 | | 126 |
| Prated at -22°C kW | 9.0 | | | | | | | |
| Qhe Annual energy consumption (GCV) GJ | 25 | | | | | | | |
| A Condition (-7°CDB/-8°CWB) | Cdh (Degradation heating) | 1.0 | | | | | | |
| | COPd | 2.61 | | | | | | |
| | Pdh kW | 5.2 | | | | | | |
| | PERd % | 104.2 | | | 104.4 | | | |
| B Condition (2°CDB/-1°CWB) | Cdh (Degradation heating) | 1.0 | | | | | | |

2 Specifications

2 - 1 Specifications

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| Technical specifications | | | | ELBX12E9W + ERRA08EW1 | ELBX12E9W + ERRA10EW1 | ELBX12E9W + ERRA12EW1 | |
|--|---|--|---|-----------------------|-----------------------|-----------------------|------|
| Space heating  | Cold climate water outlet 55°C | B Condition (2°CDB- B/1°CWB) | COPd | | 3.90 | | |
| | | | Pdh | kW | 3.3 | | |
| | | | PERd | % | 156.0 | | |
| | | C Condition (7°CDB- B/6°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 4.96 | | |
| | | | Pdh | kW | 3.4 | | |
| | | D Condition (12°CDB- B/11°CWB) | COPd | | 6.56 | | |
| | | | Pdh | kW | 4.2 | | |
| | | | PERd | % | 262.5 | | |
| | | Tol (tem- perature operating limit) | COPd | | 1.49 | 1.56 | 1.62 |
| | Pdh | | | kW | 4.9 | 6.1 | 7.2 |
| | PERd | | | % | 59.6 | 62.3 | 64.7 |
| | TOL | | °C | | -22 | | |
| | WTOL | | °C | | 55 | | |
| | Warm climate water outlet 55°C | G Condition (-15°CDB/-) | COPd | 2.00 | | 2.03 | |
| | | | Pdh | kW | 6.0 | | 7.2 |
| | | | PERd | % | 80.0 | | 81.2 |
| | | Tbiv (bivalent tempera- ture) | COPd | 2.25 | | 2.03 | |
| | | | Pdh | kW | 6.6 | | 7.2 |
| | | | PERd | % | 90.0 | | 81.2 |
| Rated heat output sup- plementary capacity | | Psup (at Tdesign -22°C) | kW | 4.1 | 2.9 | 1.8 | |
| | | | | | | | |
| General | | Annual energy consumption | kWh | | 2,853 | | |
| | | | ηs (Seasonal space heating efficiency) | % | | 177 | |
| | Prated at 2°C | | kW | | 9.6 | | |
| | Qhe Annual energy consumption (GCV) | | Gj | | 10 | | |
| | | | | | | | |
| | B Condition (2°CDB- B/1°CWB) | Cdh (Degradation heating) | | 1.0 | | | |
| | | COPd | | 2.66 | | | |
| | | Pdh | kW | 8.0 | | | |
| | C Condition (7°CDB- B/6°CWB) | PERd | % | 106.5 | | | |
| | | Cdh (Degradation heating) | | 1.0 | | | |
| | | COPd | | 3.79 | | | |
| | D Condition (12°CDB/11°CWB) | Pdh | kW | 6.7 | | | |
| | | PERd | % | 151.5 | | | |
| | | Cdh (Degradation heating) | | 1.0 | | | |
| | | COPd | | 5.87 | | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELBX12E9W + ERRA08EW1 | ELBX12E9W + ERRA10EW1 | ELBX12E9W + ERRA12EW1 |
|--|-------------------------------|--|-------|-----------------------|-----------------------|-----------------------|
| Space heating Warm climate water outlet 55°C Average climate water outlet 35°C A Condition (-7°C-D B/-8°CWB) B Condition (2°C-D B/1°CWB) C Condition (7°C-D B/6°CWB) D Condition (12°C-D B/11°CWB) Tol (temperature operating limit) Tbiv (bivalent temperature) Rated heat output supplementary capacity | D Condition (12°C-D B/11°CWB) | Pdh | kW | | 3.6 | |
| | | PERd | % | | 234.9 | |
| | Tbiv | COPd | | | 3.13 | |
| | | Pdh | kW | | 8.4 | |
| | | PERd | % | | 125.4 | |
| | | Tbiv | °C | | 4 | |
| | General | Annual energy consumption | kWh | 3,462 | | 3,440 |
| | | ηs (Seasonal space heating efficiency) | % | 195 | | 196 |
| | | Prated at -10°C | kW | | 8.3 | |
| | | Qhe Annual energy consumption (GCV) | Gj | | 12 | |
| | | SCOP | | 4.95 | | 4.98 |
| | | Seasonal space heating eff. class | | | A+++ | |
| | | COPd | | | 3.20 | |
| | | Pdh | kW | | 7.5 | |
| | | PERd | % | | 128.0 | |
| | | Cdh (Degradation heating) | | | 1.0 | |
| | | COPd | | | 4.93 | |
| | | Pdh | kW | | 4.4 | |
| | | PERd | % | | 197.2 | |
| | | Cdh (Degradation heating) | | | 1.0 | |
| | | COPd | | | 6.37 | |
| | | Pdh | kW | | 4.3 | |
| | | PERd | % | | 254.8 | |
| | | Cdh (Degradation heating) | | | 1.0 | |
| | | COPd | | | 8.13 | |
| | | Pdh | kW | | 6.6 | |
| | | PERd | % | | 325.2 | |
| | COPd | | 2.90 | | 2.86 | |
| | Pdh | kW | 6.9 | | 8.1 | |
| | PERd | % | 116.0 | | 114.4 | |
| | TOL | °C | | -10 | | |
| | WTOL | °C | | 35 | | |
| | COPd | | 3.20 | | 2.86 | |
| | Pdh | kW | 7.5 | | 8.1 | |
| | PERd | % | 128.0 | | 114.4 | |
| | Tbiv | °C | -7 | | -10 | |
| | Psup (at Tdesign -10°C) | kW | 1.4 | | 0.0 | |

2 Specifications

2 - 1 Specifications

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| Technical specifications | | | | ELBX12E9W + ERRA08EW1 | ELBX12E9W + ERRA10EW1 | ELBX12E9W + ERRA12EW1 | | | |
|--|--------------------------------|--|--|-----------------------------------|---------------------------|-----------------------|-------|------|------|
| Space heating | Cold climate water outlet 35°C | General | Annual energy consumption | kWh | 5,334 | 5,180 | 5,165 | | |
| | | | η_s (Seasonal space heating efficiency) | % | 163 | 168 | 169 | | |
| | | | Prated at -22°C | kW | 9 | | | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | 19.2 | 18.6 | | | |
| | | | A Condition (-7°CDB) | COPd | | 3.48 | | | |
| | | | | Pdh | kW | 5.4 | | | |
| | | | | PERd | % | 139.2 | | | |
| | | | B Condition (2°CDB) | Cdh (Degradation heating) | | 1.0 | | | |
| | | | | COPd | | 5.40 | | | |
| | | | | Pdh | kW | 3.6 | | | |
| | | | B/1°CWB) | PERd | % | 216.0 | | | |
| | | | | C Condition (7°CDB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | | | COPd | | 6.53 | | |
| | | | Pdh | | kW | 5.3 | | | |
| | | | B/6°CWB) | PERd | % | 261.2 | | | |
| | | | | D Condition (12°CDB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | | | COPd | | 7.98 | | |
| | | | Pdh | | kW | 6.6 | | | |
| | | | B/11°CWB) | PERd | % | 319.0 | 319.2 | | |
| | | | | Tol (temperature operating limit) | COPd | | 2.11 | 2.14 | 2.16 |
| | | | | | Pdh | kW | 4.9 | 5.9 | 6.5 |
| | | | PERd | | % | 84.3 | 85.6 | 86.4 | |
| | | | TOL | °C | -22 | | | | |
| | | | WTOL | °C | 35 | | | | |
| G Condition (-15°CDB/-) | COPd | | 2.68 | 2.64 | | | | | |
| | Pdh | kW | 6.0 | 7.0 | | | | | |
| | PERd | % | 107.1 | 105.6 | | | | | |
| Tbiv (bivalent temperature) | COPd | | 2.95 | 2.64 | | | | | |
| | Pdh | kW | 6.5 | 7.0 | | | | | |
| | PERd | % | 118.1 | 105.6 | | | | | |
| Tbiv | °C | -12 | | | | | | | |
| Rated heat output supplementary capacity | Psup (at Tdesign -22°C) | kW | 4.1 | 3.1 | 2.6 | | | | |
| Warm climate water outlet 35°C | General | Annual energy consumption | kWh | 1,873 | | | | | |
| | | η_s (Seasonal space heating efficiency) | % | 242 | | | | | |
| | | Prated at 2°C | kW | 8.6 | | | | | |
| | | Qhe Annual energy consumption (GCV) | Gj | 7 | | | | | |
| | | B Condition (2°CDB) | Cdh (Degradation heating) | | 1.0 | | | | |
| | | | B/1°CWB) | | | | | | |
| Space heating | Warm climate water outlet 35°C | B Condition (2°CDB) | COPd | | 4.17 | | | | |
| | | | Pdh | kW | 6.8 | | | | |
| | | | PERd | % | 166.8 | | | | |
| | | C Condition (7°CDB) | Cdh (Degradation heating) | | 1.0 | | | | |
| | | | COPd | | 5.85 | | | | |
| | | | Pdh | kW | 5.5 | | | | |
| | | B/6°CWB) | PERd | % | 234.0 | | | | |
| | | | Tbiv (bivalent temperature) | COPd | | 4.89 | | | |
| | | | | Pdh | kW | 6.8 | | | |
| | | PERd | | % | 195.6 | | | | |
| | | Tbiv | °C | 5 | | | | | |
| | | D Condition (12°CDB) | Cdh (Degradation heating) | | 1.0 | | | | |
| COPd | | | 7.78 | | | | | | |
| Pdh | kW | | 6.1 | | | | | | |
| PERd | % | 311.2 | | | | | | | |

 (1)Capacity according to standard EN14511 and valid for heated water range $dT = 3-8^{\circ}C$ at $T_a 7^{\circ}C$ |

 (2)Condition: T_a DB/WB $7^{\circ}C/6^{\circ}C$ - LWC $35^{\circ}C$ (DT = $5^{\circ}C$) |

 (3)Cooling: EW $12^{\circ}C$; LW $7^{\circ}C$; ambient conditions: $35^{\circ}CDB$ |

 (4)Cooling: EW $23^{\circ}C$; LW $18^{\circ}C$; ambient conditions: $35^{\circ}CDB$ |

(5)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |

 (6)DB/WB $7^{\circ}C/6^{\circ}C$ - LWC $35^{\circ}C$ ($dT=5^{\circ}C$) with pump at full speed |

 Test at T_a DB/WB $7^{\circ}C/6^{\circ}C$. According to EN 16147.

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELSH12P30E + ERRA08EW1 | ELSH12P50E + ERRA08EW1 | ELSH12P30E + ERRA10EW1 | ELSH12P50E + ERRA10EW1 | ELSH12P30E + ERRA12EW1 | ELSH12P50E + ERRA12EW1 | |
|--|--|--|--------------------------------------|--|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-------|
| Heating capacity | Min. | | kW | 3.45 (1) | | | | | | |
| | Nom. | | kW | 6.17 (2) | | | | | | |
| | Max. | | kW | 7.95 (1) | | 9.25 (1) | | 9.97 (1) | | |
| Power input | Heating | Min. | kW | 0.70 (3) | | | | | | |
| | | Nom. | kW | 1.21 (2) | | | | | | |
| | | Max. | kW | 1.63 (3) | | 1.98 (3) | | 2.21 (3) | | |
| | Domestic hot water from 10°C to 50°C | Nom. | kWh | 3.44 (4) | 4.65 (4) | 3.44 (4) | 4.65 (4) | 3.44 (4) | 4.65 (4) | |
| | | | hr | 2h29min | 3h45min | 2h29min | 3h45min | 2h29min | 3h45min | |
| COP | | | | 5.10 (2) | | | | | | |
| Pump | Type | Grundfos UPM4L K 20-75 CHBL 3 RT | | | | | | | | |
| | Nominal ESP unit | Heating | kPa | 55.4 (5) | | | | | | |
| Water side Heat exchanger | Water flow rate | Heating | Nom. | l/min | | | | | | |
| General | Supplier/Manufacturer details | Name and address | | Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium | | | | | | |
| | | Name or trademark | | Daikin Europe N.V. | | | | | | |
| | Product description | Air-to-water heat pump | | Yes | | | | | | |
| | | Brine-to-water heat pump | | No | | | | | | |
| | | Heat pump combination heater | | Yes | | | | | | |
| | | Low-temperature heat pump | | No | | | | | | |
| | | Supplementary heater integrated | | No | | | | | | |
| | | Water-to-water heat pump | | No | | | | | | |
| | LW(A) Sound power level (according to EN14825) | Indoor | | dB(A) | 44.7 | | | | | |
| | LW(A) Sound power level (according to EN14825) | Outdoor | | dB(A) | 56.0 | | | | | |
| Sound condition Ecodesign and energy label | | | | Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825 | | | | | | |
| Space heating general | Air to water unit | Rated airflow (outdoor) | | m ³ /h | | | | | | |
| | | | | 3,542 | | | | | | |
| | Other | Capacity control | | Inverter | | | | | | |
| | | Pck (Crankcase heater mode) | | kW | | | | | | |
| | | Poff (Off mode) | | kW | | | | | | |
| | | Psb (Standby mode) | | kW | | | | | | |
| Pto (Thermostat off) | | kW | | | | | | | | |
| Domestic hot water heating | General | Declared load profile | | L | XL | L | XL | L | XL | |
| | | Average climate | AEC (Annual electricity consumption) | kWh | 858 | 1,235 | 858 | 1,235 | 858 | 1,235 |
| | Climate | COPdhw | | 2.83 | | | | | | |
| | | Heat up time | | 2h 29min | 3h 28min | 2h 29min | 3h 28min | 2h 29min | 3h 28min | |
| | | η _{wh} (water heating efficiency) | | % | | | | | | |
| | | Qelec (Daily electricity consumption) | | kWh | | | | | | |
| | | Reference hot water temperature | | °C | | | | | | |
| | | Stand-by power input | | W | | | | | | |
| | | Water heating energy efficiency class | | A+ | | | | | | |
| | | Cold climate | | AEC (Annual electricity consumption) | kWh | 1,152 | 1,457 | 1,152 | 1,457 | 1,152 |
| Domestic hot water heating | Cold climate | COPdhw | | 2.12 | | | | | | |
| | | Heat up time | | 2h 23min | 3h 37min | 2h 23min | 3h 37min | 2h 23min | 3h 37min | |
| | η _{wh} (water heating efficiency) | | % | | | | | | | |
| | Qelec (Daily electricity consumption) | | kWh | | | | | | | |
| | Reference hot water temperature | | °C | | | | | | | |
| | Stand-by power input | | W | | | | | | | |
| | Warm climate | AEC (Annual electricity consumption) | | kWh | | | | | | |
| | | COPdhw | | 3.19 | | | | | | |
| | | Heat up time | | 2h 18min | 3h 17min | 2h 18min | 3h 17min | 2h 18min | 3h 17min | |
| | | η _{wh} (water heating efficiency) | | % | | | | | | |
| Qelec (Daily electricity consumption) | | kWh | | | | | | | | |
| Reference hot water temperature | | °C | | | | | | | | |
| Stand-by power input | | W | | | | | | | | |
| | | 35.2 | | | | | | | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELSH12P30E + ERRA08EW1 | ELSH12P50E + ERRA08EW1 | ELSH12P30E + ERRA10EW1 | ELSH12P50E + ERRA10EW1 | ELSH12P30E + ERRA12EW1 | ELSH12P50E + ERRA12EW1 | |
|-----------------------------------|-----------------------------------|--|--|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|------|
| Space heating | Average climate water outlet 55°C | General | Annual energy consumption | kWh | 7,541 | | 7,522 | | 7,309 | |
| | | | ηs (Seasonal space heating efficiency) | % | | 134 | | 138 | | |
| | | | Prated at -10°C | kW | | | 12.5 | | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | | 27 | | 26 | | |
| | | | SCOP | | 3.42 | | 3.43 | | 3.53 | |
| | | | Seasonal space heating eff. class | | | | A++ | | | |
| | | | A Condition (-7°CDB) | Cdh (Degradation heating) | COPd | | | 1.0 | | |
| | | | | | Pdh | kW | | 2.34 | | |
| | | | | | PERd | % | | 7.6 | | |
| | | | | | PERd | % | | 93.6 | | |
| | | | B Condition (2°CDB) | Cdh (Degradation heating) | COPd | | | 3.50 | | |
| | | | | | Pdh | kW | | 6.8 | | |
| | | | | | PERd | % | | 140.0 | | |
| | | | | | PERd | % | | | | |
| | | | C Condition (7°CDB) | Cdh (Degradation heating) | COPd | | | 5.07 | | |
| | | | | | Pdh | kW | | 4.5 | | |
| | | | | | PERd | % | | 202.8 | | |
| | | | | | PERd | % | | | | |
| | | | D Condition (12°CDB) | Cdh (Degradation heating) | COPd | | | 6.23 | | |
| | | | | | Pdh | kW | | 5.2 | | |
| PERd | % | | | | 249.2 | | | | | |
| PERd | % | | | | | | | | | |
| Space heating | Average climate water outlet 55°C | General | Tol (temperature operating limit) | °C | | | -10 | | | |
| | | | WTOL | °C | | | 55 | | | |
| | | | Rated heat output supplementary capacity | kW | 5.6 | | | 4.3 | | |
| | | | Tbiv (bivalent temperature) | COPd | | 2.04 | | | 2.06 | |
| | | | | | Pdh | kW | 6.9 | | 8.2 | |
| | | | | | PERd | % | 81.6 | | 82.4 | |
| | | | | | TOL | °C | | | -10 | |
| | | | Tbiv (bivalent temperature) | COPd | | | | | | |
| | | | | | Pdh | kW | | 2.90 | | 2.48 |
| | | | | | PERd | % | | 8.5 | | 10.0 |
| PERd | % | | | | 116.0 | | 99.2 | | | |
| Cold climate water outlet 55°C | General | Annual energy consumption | kWh | 7,088 | | 6,950 | | 6,921 | | |
| | | ηs (Seasonal space heating efficiency) | % | 122 | | | 125 | | | |
| | | Prated at -22°C | kW | | | 9.0 | | | | |
| | | Qhe Annual energy consumption (GCV) | Gj | 26 | | | 25 | | | |
| | | A Condition (-7°CDB) | Cdh (Degradation heating) | COPd | | | 1.0 | | | |
| | | | | Pdh | kW | | 2.61 | | | |
| | | | | PERd | % | | 5.2 | | | |
| | | | | PERd | % | 104.2 | | | 104.4 | |
| | | B Condition (2°CDB) | Cdh (Degradation heating) | COPd | | | 3.90 | | | |
| | | | | Pdh | kW | | 3.3 | | | |
| PERd | % | | | | 156.0 | | | | | |
| PERd | % | | | | | | | | | |
| C Condition (7°CDB) | Cdh (Degradation heating) | COPd | | | 4.96 | | | | | |
| | | Pdh | kW | | 3.4 | | | | | |
| | | PERd | % | | 198.3 | | | | | |
| | | PERd | % | | | | | | | |
| D Condition (12°CDB) | COPd | | | | 6.56 | | | | | |
| | | Pdh | kW | | 4.2 | | | | | |
| | | PERd | % | | 262.5 | | | | | |
| | | PERd | % | | | | | | | |
| Tol (temperature operating limit) | COPd | | 1.49 | | | 1.56 | | 1.62 | | |
| | | Pdh | kW | 4.9 | | 6.1 | | 7.2 | | |
| | | PERd | % | 59.6 | | 62.3 | | 64.7 | | |
| | | TOL | °C | | | -22 | | | | |
| G Condition (-15°CDB/-) | COPd | | | | | | | | | |
| | | Pdh | kW | | 2.00 | | 2.03 | | | |
| | | PERd | % | | 6.0 | | 7.2 | | | |
| | | PERd | % | | | | | | | |

2 Specifications

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| Technical specifications | | | | ELSH12P30E + ERRA08EW1 | ELSH12P50E + ERRA08EW1 | ELSH12P30E + ERRA10EW1 | ELSH12P50E + ERRA10EW1 | ELSH12P30E + ERRA12EW1 | ELSH12P50E + ERRA12EW1 | |
|--|---|---|---|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--|
| Space heating | Cold climate water outlet 55°C | G Condition (-15°CDB/-) | PERd | % | 80.0 | | | 81.2 | | |
| | | | Tbiv | COPd | | 2.25 | | 2.03 | | |
| | | (bivalent tempera- ture) | Pdh | kW | 6.6 | | 7.2 | | | |
| | | | PERd | % | 90.0 | | 81.2 | | | |
| | | | Tbiv | °C | -12 | | -15 | | | |
| | Rated heat output sup- plementary capacity | Psup (at Tdesign -22°C) | kW | 4.1 | | 2.9 | | 1.8 | | |
| | Warm climate water outlet 55°C | General | Annual energy consumption | kWh | | | 2,972 | | | |
| | | | ηs (Seasonal space heating efficiency) | % | | | 170 | | | |
| | | | Prated at 2°C | kW | | | 9.6 | | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | | | 11 | | | |
| | | B Condition (2°CDB- B/1°CWB) | Cdh (Degradation heating) | | | | 1.0 | | | |
| | | | COPd | | | | 2.66 | | | |
| | | | Pdh | kW | | | 8.0 | | | |
| | | C Condition (7°CDB- B/6°CWB) | PERd | % | | | 106.5 | | | |
| | | | Cdh (Degradation heating) | | | | 1.0 | | | |
| COPd | | | | | | 3.79 | | | | |
| D Condition (12°CDB- B/11°CWB) | Pdh | kW | | | 6.7 | | | | | |
| | PERd | % | | | 151.5 | | | | | |
| | Cdh (Degradation heating) | | | | 1.0 | | | | | |
| Tbiv (bivalent tempera- ture) | COPd | | | | 5.87 | | | | | |
| | Pdh | kW | | | 3.6 | | | | | |
| | PERd | % | | | 234.9 | | | | | |
| | Tbiv | °C | | | 4 | | | | | |
| Average climate water outlet 35°C | General | Annual energy consumption | kWh | 3,561 | | | 3,539 | | | |
| | | ηs (Seasonal space heating efficiency) | % | 190 | | | 191 | | | |
| | | Prated at -10°C | kW | | | 8.3 | | | | |
| | | Qhe Annual energy consumption (GCV) | Gj | | | 13 | | | | |
| | | SCOP | | 4.81 | | | 4.84 | | | |
| | Seasonal space heating eff. class | | | | A+++ | | | | | |
| | A Condition (-7°CDB- B/-8°CWB) | COPd | | | | 3.20 | | | | |
| | | Pdh | kW | | | 7.5 | | | | |
| | B Condition (2°CDB/1°CWB) | PERd | % | | | 128.0 | | | | |
| | | Cdh (Degradation heating) | | | | 1.0 | | | | |
| | | COPd | | | 4.93 | | | | | |

2 Specifications

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| Technical specifications | | | | | ELSH12P30E + ERRA08EW1 | ELSH12P50E + ERRA08EW1 | ELSH12P30E + ERRA10EW1 | ELSH12P50E + ERRA10EW1 | ELSH12P30E + ERRA12EW1 | ELSH12P50E + ERRA12EW1 | |
|--|---|--|----|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--|
| Space heating Average climate water outlet 35°C | B Condition (2°CDB/1°CWB) | Pdh | kW | | | | | 4.4 | | | |
| | | PERd | % | | | | | 197.2 | | | |
| | C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | | | | | 1.0 | | | |
| | | COPd | | | | | | 6.37 | | | |
| | | Pdh | kW | | | | | 4.3 | | | |
| | | PERd | % | | | | | 254.8 | | | |
| | D Condition (12°CDB/11°CWB) | Cdh (Degradation heating) | | | | | | 1.0 | | | |
| | | COPd | | | | | | 8.13 | | | |
| | | Pdh | kW | | | | | 6.6 | | | |
| | | PERd | % | | | | | 325.2 | | | |
| | Tol (tem- perature operating limit) | COPd | | | | 2.90 | | | 2.86 | | |
| | | Pdh | | | | 6.9 | | | 8.1 | | |
| | | PERd | | | | 116.0 | | | 114.4 | | |
| | | TOL | | | | | | | -10 | | |
| | Tbiv (bivalent tempera- ture) | COPd | | | | 3.20 | | | 2.86 | | |
| | | Pdh | | | | 7.5 | | | 8.1 | | |
| | | PERd | | | | 128.0 | | | 114.4 | | |
| | | Tbiv | | | | -7 | | | -10 | | |
| | Rated heat output sup- plementary capacity | Psup (at Tdesign -10°C) | | | | 1.4 | | | 0.0 | | |
| | | | | | | | | | | | |
| Cold climate water outlet 35°C | General | Annual energy consumption | | kWh | 5,394 | | 5,239 | | 5,224 | | |
| | | ηs (Seasonal space heating efficiency) | | % | 162 | | 166 | | 167 | | |
| | | Prated at -22°C | | kW | | | | 9 | | | |
| | | Qhe Annual energy consumption (GCV) | | Gj | 19.4 | | 18.9 | | 18.8 | | |
| | | | | | | | | | | | |
| A Condition (-7°CDB/-8°CWB) | COPd | | | | | | 3.48 | | | | |
| | Pdh | | | | | | 5.4 | | | | |
| | PERd | | | | | | 139.2 | | | | |
| B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | | | | | 1.0 | | | | |
| | COPd | | | | | | 5.40 | | | | |
| | Pdh | | | | | | 3.6 | | | | |
| C Condition (7°CDB/6°CWB) | PERd | | | | | | 216.0 | | | | |
| | Cdh (Degradation heating) | | | | | | 1.0 | | | | |
| | COPd | | | | | | 6.53 | | | | |
| D Condition (12°CDB/11°CWB) | Pdh | | | | | | 5.3 | | | | |
| | PERd | | | | | | 261.2 | | | | |
| | Cdh (Degradation heating) | | | | | | 1.0 | | | | |
| COPd | | | | | | 7.98 | | | | | |

2 Specifications

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| Technical specifications | | | | ELSH12P30E + ERRA08EW1 | ELSH12P50E + ERRA08EW1 | ELSH12P30E + ERRA10EW1 | ELSH12P50E + ERRA10EW1 | ELSH12P30E + ERRA12EW1 | ELSH12P50E + ERRA12EW1 | |
|--|---|--|---|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--|
| Space heating | Cold climate water outlet 35°C | D Condition (12°CDB- B/11°CWB) | Pdh | kW | 6.6 | | | | | |
| | | | PERd | % | 319.0 | | 319.2 | | | |
| | | Tol (tem- perature operating limit) | COPd | | 2.11 | | 2.14 | | 2.16 | |
| | | | Pdh | kW | 4.9 | | 5.9 | | 6.5 | |
| | | TOL | PERd | % | 84.3 | | 85.6 | | 86.4 | |
| | | | WTOL | °C | | | -22 | | | |
| | | G Condition (-15°CDB/-) | COPd | | 2.68 | | | | 2.64 | |
| | | | Pdh | kW | 6.0 | | | | 7.0 | |
| | | | PERd | % | 107.1 | | | | 105.6 | |
| | | Tbiv (bivalent tempera- ture) | COPd | | 2.95 | | | | 2.64 | |
| | | | Pdh | kW | 6.5 | | | | 7.0 | |
| | | | PERd | % | 118.1 | | | | 105.6 | |
| | Rated heat output sup- plementary capacity | Psup (at Tdesign -22°C) | Tbiv | °C | -12 | | | | -15 | |
| | | | kW | 4.1 | | 3.1 | | 2.6 | | |
| | Warm climate water outlet 35°C | General | Annual energy consumption | kWh | 1,993 | | | | | |
| | | | ηs (Seasonal space heating efficiency) | % | 228 | | | | | |
| | | | Prated at 2°C | kW | 8.6 | | | | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | 7 | | | | | |
| | | B Condition (2°CDB- B/1°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | |
| | | | COPd | | 4.17 | | | | | |
| | | | Pdh | kW | 6.8 | | | | | |
| | | | PERd | % | 166.8 | | | | | |
| | | C Condition (7°CDB- B/6°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | |
| | | | COPd | | 5.85 | | | | | |
| Pdh | | | kW | 5.5 | | | | | | |
| PERd | | | % | 234.0 | | | | | | |
| Tbiv (bivalent tempera- ture) | COPd | | 4.89 | | | | | | | |
| | Pdh | kW | 6.8 | | | | | | | |
| | PERd | % | 195.6 | | | | | | | |
| | Tbiv | °C | 5 | | | | | | | |
| D Condition (12°CDB- B/11°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | | |
| | COPd | | 7.78 | | | | | | | |
| | Pdh | kW | 6.1 | | | | | | | |
| | PERd | % | 311.2 | | | | | | | |

(1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C. (DT = 5°C) |

(3)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |

(4)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |

(5)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB

| Technical specifications | | | | ELSX12P30E + ERRA08EW1 | ELSX12P50E + ERRA08EW1 | ELSX12P30E + ERRA10EW1 | ELSX12P50E + ERRA10EW1 | ELSX12P30E + ERRA12EW1 | ELSX12P50E + ERRA12EW1 |
|--------------------------------|-----------------------------|---|------|----------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Heating capacity | Min. | | kW | 3.45 (1) | | | | | |
| | Nom. | | kW | 6.17 (2) | | | | | |
| | Max. | | kW | 7.95 (1) | | 9.25 (1) | | 9.97 (1) | |
| Cooling capacity | Nom. | | kW | 6.81 (3) / 6.47 (4) | | 7.97 (3) / 6.47 (4) | | 8.62 (3) / 6.47 (4) | |
| Power input | Heating | Min. | kW | 0.70 (5) | | | | | |
| | | Nom. | kW | 1.21 (2) | | | | | |
| | | Max. | kW | 1.63 (5) | | 1.98 (5) | | 2.21 (5) | |
| | Cooling | Nom. | kW | 2.08 (3) / 1.13 (4) | | 2.57 (3) / 1.13 (4) | | 2.86 (3) / 1.13 (4) | |
| | | Domestic hot water from 10°C to 50°C | Nom. | kWh | 3.44 (6) | 4.65 (6) | 3.44 (6) | 4.65 (6) | 3.44 (6) |
| Heat up time from 10°C to 50°C | | | hr | 2h29min | 3h45min | 2h29min | 3h45min | 2h29min | 3h45min |
| COP | | | | 5.10 (2) | | | | | |
| EER | | | | 3.28 (3) / 5.75 (4) | | 3.10 (4) / 5.75 | | 3.01 (3) / 5.75 (4) | |
| Pump | Type | | | Grundfos UPM4L K 20-75 CHBL 3 RT | | | | | |
| | Nominal ESP Heating unit | | kPa | 55.4 (7) | | | | | |
| Water side Heat exchanger | Water flow rate | Heating | Nom. | l/min | | | | | |
| | | | | 18.3 | | | | | |

2 Specifications

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| Technical specifications | | | ELSX12P30E + ERRA08EW1 | ELSX12P50E + ERRA08EW1 | ELSX12P30E + ERRA10EW1 | ELSX12P50E + ERRA10EW1 | ELSX12P30E + ERRA12EW1 | ELSX12P50E + ERRA12EW1 | |
|----------------------------|--|--|---|--|---------------------------|---------------------------|---------------------------|---------------------------|-----------|
| General | Supplier/ Manufacturer details | Name and address Name or trademark | Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium Daikin Europe N.V. | | | | | | |
| | Product description | Air-to-water heat pump | | | | | Yes | | |
| | | Brine-to-water heat pump | | | | | No | | |
| | | Heat pump combination heater | | | | | Yes | | |
| | | Low-temperature heat pump | | | | | No | | |
| | | Supplementary heater integrated | | | | | No | | |
| | | Water-to-water heat pump | | | | | No | | |
| | LW(A) Sound power level (according to EN14825) | Indoor | dB(A) | | | | 44.7 | | |
| | LW(A) Sound power level (according to EN14825) | Outdoor | dB(A) | | | | 56.0 | | |
| | Sound condition Ecodesign and energy label | | | Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825 | | | | | |
| Space heating general | Air to water unit | Rated airflow (outdoor) | m ³ /h | | 3,542 | | | | |
| | Other | Capacity control | | Inverter | | | | | |
| | | Pck (Crankcase heater mode) | kW | 0.000 | | | | | |
| | | Poff (Off mode) | kW | 0.027 | | | | | |
| | | Psb (Standby mode) | kW | 0.027 | | | | | |
| | | Pto (Thermostat off) | kW | 0.024 | | | | | |
| Domestic hot water heating | General | Declared load profile | L | XL | L | XL | L | XL | |
| | Average climate | AEC (Annual electricity consumption) | kWh | 858 | 1,235 | 858 | 1,235 | 858 | 1,235 |
| | | COPdhw | | 2.83 | 3.29 | 2.83 | 3.29 | 2.83 | 3.29 |
| | | Heat up time | | 2h 29min | 3h 28min | 2h 29min | 3h 28min | 2h 29min | 3h 28min |
| Domestic hot water heating | Average climate | η _{wh} (water heating efficiency) | % | 119 | 136 | 119 | 136 | 119 | 136 |
| | | Qelec (Daily electricity consumption) | kWh | 4.120 | 5.800 | 4.120 | 5.800 | 4.120 | 5.800 |
| | | Reference hot water temperature | °C | 47.2 | 44.7 | 47.2 | 44.7 | 47.2 | 44.7 |
| | | Stand-by power input | W | 37.4 | 32.5 | 37.4 | 32.5 | 37.4 | 32.5 |
| | | Water heating energy efficiency class | | A+ | | | | | |
| | Cold climate | AEC (Annual electricity consumption) | kWh | 1,152 | 1,457 | 1,152 | 1,457 | 1,152 | 1,457 |
| | | COPdhw | | 2.12 | 2.80 | 2.12 | 2.80 | 2.12 | 2.80 |
| | | Heat up time | | 2h 23min | 3h 37 min | 2h 23min | 3h 37 min | 2h 23min | 3h 37 min |
| | | η _{wh} (water heating efficiency) | % | 89 | 115 | 89 | 115 | 89 | 115 |
| | | Qelec (Daily electricity consumption) | kWh | 5.500 | 6.820 | 5.500 | 6.820 | 5.500 | 6.820 |
| Warm climate | Reference hot water temperature | °C | 46.3 | 44.7 | 46.3 | 44.7 | 46.3 | 44.7 | |
| | Stand-by power input | W | 45.5 | 34.3 | 45.5 | 34.3 | 45.5 | 34.3 | |
| | AEC (Annual electricity consumption) | kWh | 759 | 1,021 | 759 | 1,021 | 759 | 1,021 | |
| | COPdhw | | 3.19 | 3.96 | 3.19 | 3.96 | 3.19 | 3.96 | |
| | Heat up time | | 2h 18min | 3h 17min | 2h 18min | 3h 17min | 2h 18min | 3h 17min | |
| Space heating | Average climate water outlet 55°C | General | Annual energy consumption | kWh | 7,442 | | 7,423 | | 7,210 |
| | | | η _s (Seasonal space heating efficiency) | % | 136 | | | | 140 |
| | | Prated at -10°C | kW | | | 12.5 | | | |
| | | Qhe Annual energy consumption (GCV) | Gj | | | 27 | | 26 | |
| | | SCOP | | 3.47 | | 3.48 | | 3.58 | |
| | | Seasonal space heating eff. class | | | | A++ | | | |
| | | A Condition (-7°CDB/-8°CWB) | Cdh (Degradation heating) | | | | 1.0 | | |
| | | | COPd | | | | 2.34 | | |
| | | B Condition (2°CDB/1°CWB) | Pdh | kW | | | 7.6 | | |
| | | | PERd | % | | | 93.6 | | |
| Cdh (Degradation heating) | | | | | 1.0 | | | | |
| C Condition (7°CDB/6°CWB) | COPd | | | | 3.50 | | | | |
| | Pdh | kW | | | 6.8 | | | | |
| | PERd | % | | | 140.0 | | | | |
| C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | | | 1.0 | | | | |
| | COPd | | | | 5.07 | | | | |
| | Pdh | kW | | | 4.5 | | | | |
| | PERd | % | | | 202.8 | | | | |

2 Specifications


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| Technical specifications | | | | ELSX12P30E + ERRA08EW1 | ELSX12P50E + ERRA08EW1 | ELSX12P30E + ERRA10EW1 | ELSX12P50E + ERRA10EW1 | ELSX12P30E + ERRA12EW1 | ELSX12P50E + ERRA12EW1 | | |
|-----------------------------------|-----------------------------------|--|--|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--|--|
| Space heating | Average climate water outlet 55°C | D Condition (12°CDB/11°CWB) | Cdh (Degradation heating) | 1.0 | | | | | | | |
| | | | COPd | 6.23 | | | | | | | |
| | | | Pdh kW | 5.2 | | | | | | | |
| | | | PERd % | 249.2 | | | | | | | |
| | | Tol (temperature operating limit) | COPd | 2.04 | | 2.06 | | | | | |
| | | | Pdh kW | 6.9 | | 8.2 | | | | | |
| | | | PERd % | 81.6 | | 82.4 | | | | | |
| | | | TOL °C | -10 | | | | | | | |
| | | Rated heat output supplementary capacity | Psup (at Tdesign -10°C) kW | 5.6 | | 4.3 | | | | | |
| | | | Tbiv (bivalent temperature) | COPd | 2.90 | | 2.48 | | | | |
| | | Pdh kW | | 8.5 | | 10.0 | | | | | |
| | | PERd % | | 116.0 | | 99.2 | | | | | |
| | Tbiv °C | -2 | | -5 | | | | | | | |
| | Cold climate water outlet 55°C | General | Annual energy consumption kWh | 7,028 | | 6,890 | | 6,861 | | | |
| | | | ηs (Seasonal space heating efficiency) % | 123 | | 126 | | | | | |
| | | | Prated at -22°C kW | 9.0 | | | | | | | |
| | | | Qhe Annual energy consumption (GCV) GJ | 25 | | | | | | | |
| | | A Condition (-7°CDB/-8°CWB) | Cdh (Degradation heating) | 1.0 | | | | | | | |
| | | | COPd | 2.61 | | | | | | | |
| | | | Pdh kW | 5.2 | | | | | | | |
| | | B Condition (2°CDB/1°CWB) | PERd % | 104.2 | | 104.4 | | | | | |
| | | | Cdh (Degradation heating) | 1.0 | | | | | | | |
| | | | COPd | 3.90 | | | | | | | |
| | | C Condition (7°CDB/6°CWB) | Pdh kW | 3.3 | | | | | | | |
| PERd % | | | 156.0 | | | | | | | | |
| Cdh (Degradation heating) | 1.0 | | | | | | | | | | |
| D Condition (12°CDB/11°CWB) | COPd | 4.96 | | | | | | | | | |
| | Pdh kW | 3.4 | | | | | | | | | |
| | PERd % | 198.3 | | | | | | | | | |
| Tol (temperature operating limit) | COPd | 6.56 | | | | | | | | | |
| | Pdh kW | 4.2 | | | | | | | | | |
| | PERd % | 262.5 | | | | | | | | | |
| Tol (temperature operating limit) | COPd | 1.49 | | 1.56 | | 1.62 | | | | | |
| | Pdh kW | 4.9 | | 6.1 | | 7.2 | | | | | |
| | PERd % | 59.6 | | 62.3 | | 64.7 | | | | | |
| | TOL °C | -22 | | | | | | | | | |

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| Technical specifications | | | | ELSX12P30E + ERRA08EW1 | ELSX12P50E + ERRA08EW1 | ELSX12P30E + ERRA10EW1 | ELSX12P50E + ERRA10EW1 | ELSX12P30E + ERRA12EW1 | ELSX12P50E + ERRA12EW1 | | | |
|--|--------------------------------------|---|-------------------------|------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|------|-----|--|
| Space heating  | Cold climate water outlet 55°C | Tol (tem- perature operating limit) | WTOL °C | 55 | | | | | | | | |
| | | G Condition (-15°CDB/-) | COPd | 2.00 | | | | | 2.03 | | | |
| | | | Pdh | kW | 6.0 | | | | | 7.2 | | |
| | | | PERd | % | 80.0 | | | | | 81.2 | | |
| | | Tbiv (bivalent tempera- ture) | COPd | 2.25 | | | | | 2.03 | | | |
| | | | Pdh | kW | 6.6 | | | | | 7.2 | | |
| | | | PERd | % | 90.0 | | | | | 81.2 | | |
| | | Rated heat output sup- plementary capacity | Psup (at Tdesign -22°C) | kW | 4.1 | 2.9 | | | -15 | | 1.8 | |
| | | | | | | | | | | | | |
| | | Warm climate water outlet 55°C | General | Annual energy consumption | kWh | 2,853 | | | | | | |
| ηs (Seasonal space heating efficiency) | % | | | 177 | | | | | | | | |
| Prated at 2°C | kW | | | 9.6 | | | | | | | | |
| Qhe Annual energy consumption (GCV) | Gj | | | 10 | | | | | | | | |
| B Condition (2°CDB- B/1°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | | | | |
| | COPd | | | 2.66 | | | | | | | | |
| | Pdh | | kW | 8.0 | | | | | | | | |
| | PERd | | % | 106.5 | | | | | | | | |
| C Condition (7°CDB- B/6°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | | | | |
| | COPd | | | 3.79 | | | | | | | | |
| | Pdh | | kW | 6.7 | | | | | | | | |
| | PERd | | % | 151.5 | | | | | | | | |
| D Condition (12°CDB- B/11°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | | | | |
| | COPd | | | 5.87 | | | | | | | | |
| | Pdh | | kW | 3.6 | | | | | | | | |
| | PERd | | % | 234.9 | | | | | | | | |
| Tbiv (bivalent tempera- ture) | COPd | | | 3.13 | | | | | | | | |
| | Pdh | | kW | 8.4 | | | | | | | | |
| | PERd | | % | 125.4 | | | | | | | | |
| | Tbiv | °C | 4 | | | | | | | | | |
| Average climate water outlet 35°C | General | Annual energy consumption | kWh | 3,462 | | | | | 3,440 | | | |
| | | ηs (Seasonal space heating efficiency) | % | 195 | | | | | 196 | | | |
| | | Prated at -10°C | kW | 8.3 | | | | | | | | |
| | | Qhe Annual energy consumption (GCV) | Gj | 12 | | | | | | | | |
| | | SCOP | | 4.95 | | | | | 4.98 | | | |
| | Seasonal space heating eff. class | | | A+++ | | | | | | | | |
| | A Condition (-7°CDB/-8°CWB) | COPd | | 3.20 | | | | | | | | |
| Pdh | | kW | 7.5 | | | | | | | | | |

2 Specifications



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| Technical specifications | | | | ELSX12P30E + ERRA08EW1 | ELSX12P50E + ERRA08EW1 | ELSX12P30E + ERRA10EW1 | ELSX12P50E + ERRA10EW1 | ELSX12P30E + ERRA12EW1 | ELSX12P50E + ERRA12EW1 | | |
|--|--|-------------------------------|--|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-------|--|
| Space heating Average climate water outlet 35°C | A Condition (-7°C-D B/-8°CWB) | PERd | % | 128.0 | | | | | | | |
| | B Condition (2°C-D B/1°CWB) | Cdh (Degradation heating) | | 1.0 | | | | | | | |
| | | COPd | | 4.93 | | | | | | | |
| | | Pdh | kW | 4.4 | | | | | | | |
| | | PERd | % | 197.2 | | | | | | | |
| | C Condition (7°C-D B/6°CWB) | Cdh (Degradation heating) | | 1.0 | | | | | | | |
| | | COPd | | 6.37 | | | | | | | |
| | | Pdh | kW | 4.3 | | | | | | | |
| | | PERd | % | 254.8 | | | | | | | |
| | D Condition (12°C-D B/11°CWB) | Cdh (Degradation heating) | | 1.0 | | | | | | | |
| | | COPd | | 8.13 | | | | | | | |
| | | Pdh | kW | 6.6 | | | | | | | |
| | | PERd | % | 325.2 | | | | | | | |
| | Tol (temperature operating limit) | COPd | | | 2.90 | | | | 2.86 | | |
| | | Pdh | kW | | 6.9 | | | | 8.1 | | |
| | | PERd | % | | 116.0 | | | | 114.4 | | |
| | | TOL | °C | | | | | -10 | | | |
| | Tbiv (bivalent temperature) | WTOL | °C | | | | | 35 | | | |
| | | COPd | | | 3.20 | | | | 2.86 | | |
| | | Pdh | kW | | 7.5 | | | | 8.1 | | |
| | | PERd | % | | 128.0 | | | | 114.4 | | |
| | Rated heat output supplementary capacity | Tbiv | °C | | -7 | | | | -10 | | |
| | | Psup (at Tdesign -10°C) | kW | | 1.4 | | | | 0.0 | | |
| | Cold climate water outlet 35°C | General | Annual energy consumption | kWh | 5,334 | | | 5,180 | | 5,165 | |
| | | | ηs (Seasonal space heating efficiency) | % | 163 | | | 168 | | 169 | |
| | | | Prated at -22°C | kW | | | | | 9 | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | 19.2 | | | | 18.6 | | |
| | | A Condition (-7°C-D B/-8°CWB) | COPd | | | | | | 3.48 | | |
| | Pdh | | kW | | | | | 5.4 | | | |
| | PERd | | % | | | | | 139.2 | | | |
| | B Condition (2°C-D B/1°CWB) | | Cdh (Degradation heating) | | | | | | 1.0 | | |
| | | | COPd | | | | | | 5.40 | | |
| | | | Pdh | kW | | | | | 3.6 | | |
| PERd | | | % | | | | | 216.0 | | | |
| C Condition (7°C-D B/6°CWB) | Cdh (Degradation heating) | | | | | | | 1.0 | | | |
| | COPd | | | | | | 6.53 | | | | |
| | Pdh | kW | | | | | 5.3 | | | | |
| | | | | | | | | | | | |

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| Technical specifications | | | | ELSX12P30E + ERRA08EW1 | ELSX12P50E + ERRA08EW1 | ELSX12P30E + ERRA10EW1 | ELSX12P50E + ERRA10EW1 | ELSX12P30E + ERRA12EW1 | ELSX12P50E + ERRA12EW1 | | |
|--|---|--|--|--|---|---------------------------|---------------------------|---------------------------|---------------------------|--|--|
| Space heating  | Cold climate water outlet 35°C | C Condition (7°CDB/ B/6°CWB) | PERd | % | 261.2 | | | | | | |
| | | | D Condition (12°CDB/ B/11°CWB) | Cdh (Degradation heating) | 1.0 | | | | | | |
| | | | COPd | 7.98 | | | | | | | |
| | | | Pdh | kW | 6.6 | | | | | | |
| | | | PERd | % | 319.0 | 319.2 | | | | | |
| | | Tol (tem- perature operating limit) | | COPd | 2.11 | 2.14 | | 2.16 | | | |
| | | | | Pdh | 4.9 | 5.9 | | 6.5 | | | |
| | | | | PERd | 84.3 | 85.6 | | 86.4 | | | |
| | | | | TOL | °C | -22 | | | | | |
| | | | WTOL | °C | 35 | | | | | | |
| | G Condition (-15°CDB/-) | | COPd | 2.68 | 2.64 | | | | | | |
| | | | Pdh | 6.0 | 7.0 | | | | | | |
| | | | PERd | 107.1 | 105.6 | | | | | | |
| | Tbiv (bivalent tempera- ture) | | COPd | 2.95 | 2.64 | | | | | | |
| | | | Pdh | 6.5 | 7.0 | | | | | | |
| | | | PERd | 118.1 | 105.6 | | | | | | |
| | | | Tbiv | °C | -12 | -15 | | | | | |
| | Rated heat output sup- plementary capacity | General | Annual energy consumption | kWh | 1,873 | | | | | | |
| | | | | | ηs (Seasonal space heating efficiency) | 242 | | | | | |
| | Warm climate water outlet 35°C | B Condition (2°CDB/ B/1°CWB) | Cdh (Degradation heating) | kWh | 8.6 | | | | | | |
| Qhe Annual energy consumption (GCV) | | | | | 7 | | | | | | |
| | | | COPd | 4.17 | | | | | | | |
| | | | Pdh | kW | 6.8 | | | | | | |
| C Condition (7°CDB/ B/6°CWB) | | Cdh (Degradation heating) | kWh | 166.8 | | | | | | | |
| | | | | Qhe Annual energy consumption (GCV) | 7 | | | | | | |
| | | | COPd | 5.85 | | | | | | | |
| | | | Pdh | kW | 5.5 | | | | | | |
| Tbiv (bivalent tempera- ture) | | | COPd | 4.89 | 4.89 | | | | | | |
| | | | Pdh | 6.8 | 6.8 | | | | | | |
| | | PERd | 195.6 | 195.6 | | | | | | | |
| | | Tbiv | °C | 5 | 5 | | | | | | |
| D Condition (12°CDB/ B/11°CWB) | Cdh (Degradation heating) | kWh | 1.0 | | | | | | | | |
| | | | Qhe Annual energy consumption (GCV) | 7.78 | | | | | | | |
| | | Pdh | kW | 6.1 | | | | | | | |
| Space heating  | Warm climate water outlet 35°C | D Condition (12°CDB/ B/11°CWB) | PERd | % | 311.2 | | | | | | |

(1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |
 (2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C. (DT = 5°C) |
 (3)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |
 (4)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |
 (5)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |
 (6)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |
 (7)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed

| Technical specifications | | | | ELSHB12P30E + ERRA08EW1 | ELSHB12P50E + ERRA08EW1 | ELSHB12P30E + ERRA10EW1 | ELSHB12P50E + ERRA10EW1 | ELSHB12P30E + ERRA12EW1 | ELSHB12P50E + ERRA12EW1 |
|--------------------------------|---|------|----------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Heating capacity | Min. | kW | 3.45 (1) | | | | | | |
| | Nom. | kW | 6.17 (2) | | | | | | |
| | Max. | kW | 7.95 (1) | | 9.25 (1) | | 9.97 (1) | | |
| Power input | Heating | Min. | 0.70 (3) | | | | | | |
| | | Nom. | 1.21 (2) | | | | | | |
| | | Max. | 1.63 (3) | | 1.98 (3) | | 2.21 (3) | | |
| | Domestic hot water from 10°C to 50°C | Nom. | kWh | 3.44 (4) | 4.65 (4) | 3.44 (4) | 4.65 (4) | 3.44 (4) | 4.65 (4) |
| Heat up time from 10°C to 50°C | | | hr | 2h29min | 3h45min | 2h29min | 3h45min | 2h29min | 3h45min |
| COP | | | 5.10 (2) | | | | | | |

2 Specifications

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| Technical specifications | | | | ELSHB12P30E + ERRA08EW1 | ELSHB12P50E + ERRA08EW1 | ELSHB12P30E + ERRA10EW1 | ELSHB12P50E + ERRA10EW1 | ELSHB12P30E + ERRA12EW1 | ELSHB12P50E + ERRA12EW1 | |
|--|--|--|-------------------|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------|
| Pump | Type | Grundfos UPM4L K 20-75 CHBL 3 RT | | | | | | | | |
| | Nominal ESP Heating unit | kPa | 55.4 (5) | | | | | | | |
| Water side Heat exchanger | Water flow rate | Heating Nom. | l/min | 18.3 | | | | | | |
| General | Supplier/Manufacturer details | Name and address | | Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium | | | | | | |
| | | Name or trademark | | Daikin Europe N.V. | | | | | | |
| | Product description | Air-to-water heat pump | | | Yes | | | | | |
| | | Brine-to-water heat pump | | | No | | | | | |
| | | Heat pump combination heater | | | Yes | | | | | |
| | | Low-temperature heat pump | | | No | | | | | |
| | | Supplementary heater integrated | | | No | | | | | |
| | | Water-to-water heat pump | | | No | | | | | |
| LW(A) Sound power level (according to EN14825) | Indoor | dB(A) | 44.7 | | | | | | | |
| LW(A) Sound power level (according to EN14825) | Outdoor | dB(A) | 56.0 | | | | | | | |
| Sound condition Ecodesign and energy label | | | | Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825 | | | | | | |
| Space heating general | Air to water unit | Rated airflow (outdoor) | m ³ /h | 3,542 | | | | | | |
| | Other | Capacity control | | | Inverter | | | | | |
| | | Pck (Crankcase heater mode) | | kW | 0.000 | | | | | |
| | | Poff (Off mode) | | kW | 0.027 | | | | | |
| | | Psb (Standby mode) | | kW | 0.027 | | | | | |
| | | Pto (Thermostat off) | | kW | 0.024 | | | | | |
| Domestic hot water heating  | General | Declared load profile | | L | XL | L | XL | L | XL | |
| | Average climate | AEC (Annual electricity consumption) | | kWh | 858 | 1,235 | 858 | 1,235 | 858 | 1,235 |
| | | COPdhw | | | 2.83 | 3.29 | 2.83 | 3.29 | 2.83 | 3.29 |
| | | Heat up time | | | 2h 29min | 3h 28min | 2h 29min | 3h 28min | 2h 29min | 3h 28min |
| | | η _{wh} (water heating efficiency) | | % | 119 | 136 | 119 | 136 | 119 | 136 |
| | | Qelec (Daily electricity consumption) | | kWh | 4.120 | 5.800 | 4.120 | 5.800 | 4.120 | 5.800 |
| | | Reference hot water temperature | | °C | 47.2 | 44.7 | 47.2 | 44.7 | 47.2 | 44.7 |
| | | Stand-by power input | | W | 37.4 | 32.5 | 37.4 | 32.5 | 37.4 | 32.5 |
| Water heating energy efficiency class | | | A+ | | | | | | | |
| Domestic hot water heating  | Cold climate | AEC (Annual electricity consumption) | | kWh | 1,152 | 1,457 | 1,152 | 1,457 | 1,152 | 1,457 |
| | COPdhw | | | 2.12 | 2.80 | 2.12 | 2.80 | 2.12 | 2.80 | |
| | Heat up time | | | 2h 23min | 3h 37 min | 2h 23min | 3h 37 min | 2h 23min | 3h 37 min | |
| | η _{wh} (water heating efficiency) | | % | 89 | 115 | 89 | 115 | 89 | 115 | |
| | Qelec (Daily electricity consumption) | | kWh | 5.500 | 6.820 | 5.500 | 6.820 | 5.500 | 6.820 | |
| | Reference hot water temperature | | °C | 46.3 | 44.7 | 46.3 | 44.7 | 46.3 | 44.7 | |
| | Stand-by power input | | W | 45.5 | 34.3 | 45.5 | 34.3 | 45.5 | 34.3 | |
| | Warm climate | AEC (Annual electricity consumption) | | kWh | 759 | 1,021 | 759 | 1,021 | 759 | 1,021 |
| | | COPdhw | | | 3.19 | 3.96 | 3.19 | 3.96 | 3.19 | 3.96 |
| | | Heat up time | | | 2h 18min | 3h 17min | 2h 18min | 3h 17min | 2h 18min | 3h 17min |
| η _{wh} (water heating efficiency) | | % | 135 | 164 | 135 | 164 | 135 | 164 | | |
| Qelec (Daily electricity consumption) | | kWh | 3.650 | 4.820 | 3.650 | 4.820 | 3.650 | 4.820 | | |
| Reference hot water temperature | | °C | 47.2 | 44.7 | 47.2 | 44.7 | 47.2 | 44.7 | | |
| Stand-by power input | | W | 35.2 | 30.7 | 35.2 | 30.7 | 35.2 | 30.7 | | |

2 Specifications

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| Technical specifications | | | | ELSHB12P30E + ERRA08EW1 | ELSHB12P50E + ERRA08EW1 | ELSHB12P30E + ERRA10EW1 | ELSHB12P50E + ERRA10EW1 | ELSHB12P30E + ERRA12EW1 | ELSHB12P50E + ERRA12EW1 | |
|--|-----------------------------------|---------|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--|
| Space heating | Average climate water outlet 55°C | General | Annual energy consumption | kWh | 7,541 | | 7,522 | | 7,309 | |
| | | | ηs (Seasonal space heating efficiency) | % | | 134 | | 138 | | |
| | | | Prated at -10°C | kW | | | 12.5 | | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | | 27 | | 26 | | |
| | | | SCOP | | 3.42 | | 3.43 | | 3.53 | |
| | | | Seasonal space heating eff. class | | | | A++ | | | |
| | | | A Condition (-7°CDB) | Cdh (Degradation heating) | COPd | | | 1.0 | | |
| | | | | | Pdh | kW | | 2.34 | | |
| | | | | | PERd | % | | 7.6 | | |
| | | | | | PERd | % | | 93.6 | | |
| | | | B Condition (2°CDB) | Cdh (Degradation heating) | COPd | | | 3.50 | | |
| | | | | | Pdh | kW | | 6.8 | | |
| | | | | | PERd | % | | 140.0 | | |
| | | | | | PERd | % | | | | |
| | | | C Condition (7°CDB) | Cdh (Degradation heating) | COPd | | | 5.07 | | |
| | | | | | Pdh | kW | | 4.5 | | |
| | | | | | PERd | % | | 202.8 | | |
| | | | | | PERd | % | | | | |
| | | | D Condition (12°CDB) | Cdh (Degradation heating) | COPd | | | 6.23 | | |
| | | | | | Pdh | kW | | 5.2 | | |
| PERd | % | | | | 249.2 | | | | | |
| PERd | % | | | | | | | | | |
| Space heating | Average climate water outlet 55°C | General | Tol (temperature operating limit) | °C | | | -10 | | | |
| | | | WTOL | °C | | | 55 | | | |
| | | | Rated heat output supplementary capacity | kW | | 5.6 | | 4.3 | | |
| | | | Tbiv (bivalent temperature) | COPd | | | 2.04 | | 2.06 | |
| | | | | | Pdh | kW | 6.9 | | 8.2 | |
| | | | | | PERd | % | 81.6 | | 82.4 | |
| | | | | | TOL | °C | | | -10 | |
| | | | Tbiv (bivalent temperature) | COPd | | | 2.90 | | 2.48 | |
| | | | | | Pdh | kW | 8.5 | | 10.0 | |
| | | | | | PERd | % | 116.0 | | 99.2 | |
| | | | | | Tbiv | °C | -2 | | -5 | |
| | | | Cold climate water outlet 55°C | General | Annual energy consumption | kWh | 7,088 | | 6,950 | |
| ηs (Seasonal space heating efficiency) | % | 122 | | | | 125 | | | | |
| Prated at -22°C | kW | | | | | 9.0 | | | | |
| Qhe Annual energy consumption (GCV) | Gj | 26 | | | | 25 | | | | |
| A Condition (-7°CDB) | Cdh (Degradation heating) | COPd | | | | | 1.0 | | | |
| | | Pdh | | | kW | | 2.61 | | | |
| | | PERd | | | % | 104.2 | | 104.4 | | |
| | | PERd | | | % | | | | | |
| B Condition (2°CDB) | Cdh (Degradation heating) | COPd | | | | | 3.90 | | | |
| | | Pdh | | | kW | | 3.3 | | | |
| | | PERd | | | % | | 156.0 | | | |
| | | PERd | | | % | | | | | |
| C Condition (7°CDB) | Cdh (Degradation heating) | COPd | | | | | 4.96 | | | |
| | | Pdh | | | kW | | 3.4 | | | |
| | | PERd | | | % | | 198.3 | | | |
| | | PERd | | | % | | | | | |
| D Condition (12°CDB) | COPd | | | | | 6.56 | | | | |
| | | Pdh | | | kW | | 4.2 | | | |
| | | PERd | | | % | | 262.5 | | | |
| | | PERd | | | % | | | | | |
| Tol (temperature operating limit) | COPd | | | 1.49 | | 1.56 | | 1.62 | | |
| | | Pdh | kW | 4.9 | | 6.1 | | 7.2 | | |
| | | PERd | % | 59.6 | | 62.3 | | 64.7 | | |
| | | TOL | °C | | | -22 | | | | |
| G Condition (-15°CDB/-) | COPd | | | 2.00 | | 2.03 | | | | |
| | | Pdh | kW | 6.0 | | 7.2 | | | | |
| | | PERd | % | | | | | | | |
| | | PERd | % | | | | | | | |

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| Technical specifications | | | | ELSHB12P30E + ERRA08EW1 | ELSHB12P50E + ERRA08EW1 | ELSHB12P30E + ERRA10EW1 | ELSHB12P50E + ERRA10EW1 | ELSHB12P30E + ERRA12EW1 | ELSHB12P50E + ERRA12EW1 | |
|---|-----------------|-----------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--|
| Space heating Cold climate water outlet 55°C | G Condition | PERd | % | 80.0 | | 81.2 | | | | |
| | | | | | | | | | | |
| | | Tbiv | COPd | | 2.25 | | 2.03 | | | |
| | (bivalent | Pdh | kW | 6.6 | | 7.2 | | | | |
| | tempera- | PERd | % | 90.0 | | 81.2 | | | | |
| | ture) | Tbiv | °C | -12 | | -15 | | | | |
| | Rated heat | Psup (at Tdesign -22°C) | kW | 4.1 | | 2.9 | | 1.8 | | |
| | output sup- | | | | | | | | | |
| | plementary | | | | | | | | | |
| | capacity | | | | | | | | | |
| | Warm | General | Annual energy | kWh | | | 2,972 | | | |
| | climate | | consumption | | | | | | | |
| | water outlet | | ηs (Seasonal space | % | | | 170 | | | |
| | 55°C | | heating efficiency) | | | | | | | |
| | | | Prated at 2°C | kW | | | 9.6 | | | |
| | | | Qhe Annual energy | Gj | | | 11 | | | |
| | | | consumption (GCV) | | | | | | | |
| | | B Condition | Cdh (Degradation heating) | | | | 1.0 | | | |
| | | (2°C CD- | COPd | | | | 2.66 | | | |
| | | B/1°CWB) | Pdh | kW | | | 8.0 | | | |
| | | PERd | % | | | 106.5 | | | | |
| | C Condition | Cdh (Degradation heating) | | | | 1.0 | | | | |
| | (7°C CD- | COPd | | | | 3.79 | | | | |
| | B/6°CWB) | Pdh | kW | | | 6.7 | | | | |
| | | PERd | % | | | 151.5 | | | | |
| | D Condition | Cdh (Degradation heating) | | | | 1.0 | | | | |
| | (12°C CD- | COPd | | | | 5.87 | | | | |
| | B/11°CWB) | Pdh | kW | | | 3.6 | | | | |
| | | PERd | % | | | 234.9 | | | | |
| | Tbiv | COPd | | | | 3.13 | | | | |
| | (bivalent | Pdh | kW | | | 8.4 | | | | |
| | tempera- | PERd | % | | | 125.4 | | | | |
| | ture) | Tbiv | °C | | | 4 | | | | |
| Average | General | Annual energy | kWh | 3,561 | | 3,539 | | | | |
| climate | | consumption | | | | | | | | |
| water outlet | | ηs (Seasonal space | % | 190 | | 191 | | | | |
| 35°C | | heating efficiency) | | | | | | | | |
| | | Prated at -10°C | kW | | | 8.3 | | | | |
| | | Qhe Annual energy | Gj | | | 13 | | | | |
| | | consumption (GCV) | | | | | | | | |
| | | SCOP | | 4.81 | | 4.84 | | | | |
| | | Seasonal space heating eff. class | | | | A+++ | | | | |
| | A Condition | COPd | | | | 3.20 | | | | |
| | (-7°C CD- | Pdh | kW | | | 7.5 | | | | |
| | B/-8°CWB) | PERd | % | | | 128.0 | | | | |
| | B Condition | Cdh (Degradation heating) | | | | 1.0 | | | | |
| | (2°C CDB/1°CWB) | COPd | | | | 4.93 | | | | |

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| Technical specifications | | | | | ELSHB12P30E + ERRA08EW1 | ELSHB12P50E + ERRA08EW1 | ELSHB12P30E + ERRA10EW1 | ELSHB12P50E + ERRA10EW1 | ELSHB12P30E + ERRA12EW1 | ELSHB12P50E + ERRA12EW1 | |
|--|---|---|----|-----|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------|
| Space heating Average climate water outlet 35°C | B Condition (2°CDB/ B/1°CWB) | Pdh | kW | | | | | | | 4.4 | |
| | | PERd | % | | | | | | | 197.2 | |
| | C Condition (7°CDB/ B/6°CWB) | Cdh (Degradation heating) | | | | | | | | | 1.0 |
| | | COPd | | | | | | | | | 6.37 |
| | | Pdh | kW | | | | | | | | 4.3 |
| | | PERd | % | | | | | | | | 254.8 |
| | D Condition (12°CDB/ B/11°CWB) | Cdh (Degradation heating) | | | | | | | | | 1.0 |
| | | COPd | | | | | | | | | 8.13 |
| | | Pdh | kW | | | | | | | | 6.6 |
| | | PERd | % | | | | | | | | 325.2 |
| | Tol (tem- perature operating limit) | COPd | | | 2.90 | | | | | 2.86 | |
| | | Pdh | | kW | 6.9 | | | | | 8.1 | |
| | | PERd | | % | 116.0 | | | | | 114.4 | |
| | | TOL | | °C | | | | | | -10 | |
| | Tbiv (bivalent tempera- ture) | COPd | | | 3.20 | | | | | 2.86 | |
| | | Pdh | | kW | 7.5 | | | | | 8.1 | |
| | | PERd | | % | 128.0 | | | | | 114.4 | |
| | | Tbiv | | °C | -7 | | | | | -10 | |
| | Rated heat output sup- plementary capacity | Psup (at Tdesign -10°C) | | kW | 1.4 | | | | | 0.0 | |
| | | | | | | | | | | | |
| Cold climate water outlet 35°C | General | Annual energy consumption | | kWh | 5,394 | | 5,239 | | 5,224 | | |
| | | ηs (Seasonal space heating efficiency) | | % | 162 | | 166 | | 167 | | |
| | | Prated at -22°C | | kW | | | 9 | | | | |
| | | Qhe Annual energy consumption (GCV) | | Gj | 19.4 | | 18.9 | | 18.8 | | |
| | | | | | | | | | | | |
| A Condition (-7°CDB/ B/-8°CWB) | COPd | | | | | | | | | 3.48 | |
| | Pdh | | kW | | | | | | | 5.4 | |
| | PERd | | % | | | | | | | 139.2 | |
| B Condition (2°CDB/ B/1°CWB) | Cdh (Degradation heating) | | | | | | | | | 1.0 | |
| | COPd | | | | | | | | | 5.40 | |
| | Pdh | | kW | | | | | | | 3.6 | |
| C Condition (7°CDB/ B/6°CWB) | PERd | | % | | | | | | | 216.0 | |
| | Cdh (Degradation heating) | | | | | | | | | 1.0 | |
| | COPd | | | | | | | | | 6.53 | |
| D Condition (12°CDB/ B/11°CWB) | Pdh | | kW | | | | | | | 5.3 | |
| | PERd | | % | | | | | | | 261.2 | |
| | Cdh (Degradation heating) | | | | | | | | | 1.0 | |
| | | COPd | | | | | | | | 7.98 | |

2 Specifications

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| Technical specifications | | | | ELSHB12P30E + ERRA08EW1 | ELSHB12P50E + ERRA08EW1 | ELSHB12P30E + ERRA10EW1 | ELSHB12P50E + ERRA10EW1 | ELSHB12P30E + ERRA12EW1 | ELSHB12P50E + ERRA12EW1 | |
|--|---|--|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--|
| Space heating | Cold climate water outlet 35°C | D Condition (12°CDB- B/11°CWB) | Pdh | kW | 6.6 | | | | | |
| | | | PERd | % | 319.0 | | 319.2 | | | |
| | | Tol (tem- perature operating limit) | COPd | | 2.11 | | 2.14 | | 2.16 | |
| | | | Pdh | kW | 4.9 | | 5.9 | | 6.5 | |
| | | PERd | % | 84.3 | | 85.6 | | 86.4 | | |
| | | | TOL | °C | -22 | | | | | |
| | | WTOL | °C | 35 | | | | | | |
| | | | G Condition (-15°CDB/-) | COPd | | 2.68 | | 2.64 | | |
| | | Pdh | | kW | 6.0 | | 7.0 | | | |
| | | PERd | | % | 107.1 | | 105.6 | | | |
| | Tbiv (bivalent tempera- ture) | COPd | | 2.95 | | 2.64 | | | | |
| | | | Pdh | kW | 6.5 | | 7.0 | | | |
| | | PERd | % | 118.1 | | 105.6 | | | | |
| | | | Tbiv | °C | -12 | | -15 | | | |
| | Rated heat output sup- plementary capacity | Psup (at Tdesign -22°C) | kW | 4.1 | | 3.1 | | 2.6 | | |
| | | | | | | | | | | |
| | Warm climate water outlet 35°C | General | Annual energy consumption | kWh | 1,993 | | | | | |
| | | | ηs (Seasonal space heating efficiency) | % | 228 | | | | | |
| | | | Prated at 2°C | kW | 8.6 | | | | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | 7 | | | | | |
| B Condition (2°CDB- B/1°CWB) | | Cdh (Degradation heating) | | 1.0 | | | | | | |
| | | | COPd | | 4.17 | | | | | |
| | | Pdh | kW | 6.8 | | | | | | |
| | | | PERd | % | 166.8 | | | | | |
| C Condition (7°CDB- B/6°CWB) | | Cdh (Degradation heating) | | 1.0 | | | | | | |
| | | | COPd | | 5.85 | | | | | |
| | Pdh | kW | 5.5 | | | | | | | |
| | | PERd | % | 234.0 | | | | | | |
| Tbiv (bivalent tempera- ture) | COPd | | 4.89 | | | | | | | |
| | | Pdh | kW | 6.8 | | | | | | |
| | PERd | % | 195.6 | | | | | | | |
| | | Tbiv | °C | 5 | | | | | | |
| D Condition (12°CDB- B/11°CWB) | Cdh (Degradation heating) | | 1.0 | | | | | | | |
| | | COPd | | 7.78 | | | | | | |
| | Pdh | kW | 6.1 | | | | | | | |
| | | PERd | % | 311.2 | | | | | | |

(1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C. (DT = 5°C) |

(3)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |

(4)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |

(5)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB

| Technical specifications | | | | ELSX12P30E + ERRA08EW1 | ELSX12P50E + ERRA08EW1 | ELSX12P30E + ERRA10EW1 | ELSX12P50E + ERRA10EW1 | ELSX12P30E + ERRA12EW1 | ELSX12P50E + ERRA12EW1 |
|--------------------------------|-----------------------------|---|------|----------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Heating capacity | Min. | | kW | 3.45 (1) | | | | | |
| | Nom. | | kW | 6.17 (2) | | | | | |
| | Max. | | kW | 7.95 (1) | | 9.25 (1) | | 9.97 (1) | |
| Cooling capacity | Nom. | | kW | 6.81 (3) / 6.47 (4) | | 7.97 (3) / 6.47 (4) | | 8.62 (3) / 6.47 (4) | |
| Power input | Heating | Min. | kW | 0.70 (5) | | | | | |
| | | Nom. | kW | 1.21 (2) | | | | | |
| | | Max. | kW | 1.63 (5) | | 1.98 (5) | | 2.21 (5) | |
| | Cooling | Nom. | kW | 2.08 (3) / 1.13 (4) | | 2.57 (3) / 1.13 (4) | | 2.86 (3) / 1.13 (4) | |
| | | Domestic hot water from 10°C to 50°C | Nom. | kWh | 3.44 (6) | 4.65 (6) | 3.44 (6) | 4.65 (6) | 3.44 (6) |
| Heat up time from 10°C to 50°C | | | hr | 2h29min | 3h45min | 2h29min | 3h45min | 2h29min | 3h45min |
| COP | | | | 5.10 (2) | | | | | |
| EER | | | | 3.28 (3) / 5.75 (4) | | 3.10 (4) / 5.75 | | 3.01 (3) / 5.75 (4) | |
| Pump | Type | | | Grundfos UPM4L K 20-75 CHBL 3 RT | | | | | |
| | Nominal ESP Heating unit | | kPa | 55.4 (7) | | | | | |
| Water side Heat exchanger | Water flow rate | Heating | Nom. | l/min | | | | | |
| | | | | 18.3 | | | | | |

2 Specifications

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| Technical specifications | | | ELSXB12P30E + ERRA08EW1 | ELSXB12P50E + ERRA08EW1 | ELSXB12P30E + ERRA10EW1 | ELSXB12P50E + ERRA10EW1 | ELSXB12P30E + ERRA12EW1 | ELSXB12P50E + ERRA12EW1 | | | |
|----------------------------|--|---|---|--|----------------------------|----------------------------|----------------------------|----------------------------|-----------|--|--|
| General | Supplier/ Manufacturer details | Name and address Name or trademark | Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium Daikin Europe N.V. | | | | | | | | |
| | Product description | Air-to-water heat pump | | | | | Yes | | | | |
| | | Brine-to-water heat pump | | | | | No | | | | |
| | | Heat pump combination heater | | | | | Yes | | | | |
| | | Low-temperature heat pump | | | | | No | | | | |
| | | Supplementary heater integrated | | | | | No | | | | |
| | | Water-to-water heat pump | | | | | No | | | | |
| | LW(A) Sound power level (according to EN14825) | Indoor | dB(A) | | | | 44.7 | | | | |
| | LW(A) Sound power level (according to EN14825) | Outdoor | dB(A) | | | | 56.0 | | | | |
| | Sound condition Ecodesign and energy label | | | Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825 | | | | | | | |
| Space heating general | Air to water unit | Rated airflow (outdoor) | m ³ /h | | 3,542 | | | | | | |
| | Other | Capacity control | Inverter | | | | | | | | |
| | | Pck (Crankcase heater mode) | kW | 0.000 | | | | | | | |
| | | Poff (Off mode) | kW | 0.027 | | | | | | | |
| | | Psb (Standby mode) | kW | 0.027 | | | | | | | |
| | | Pto (Thermostat off) | kW | 0.024 | | | | | | | |
| Domestic hot water heating | General | Declared load profile | L | XL | L | XL | L | XL | | | |
| | Average climate | AEC (Annual electricity consumption) | kWh | 858 | 1,235 | 858 | 1,235 | 858 | 1,235 | | |
| | | COPdhw | | 2.83 | 3.29 | 2.83 | 3.29 | 2.83 | 3.29 | | |
| | | Heat up time | | 2h 29min | 3h 28min | 2h 29min | 3h 28min | 2h 29min | 3h 28min | | |
| Domestic hot water heating | Average climate | η _{wh} (water heating efficiency) | % | 119 | 136 | 119 | 136 | 119 | 136 | | |
| | | Qelec (Daily electricity consumption) | kWh | 4.120 | 5.800 | 4.120 | 5.800 | 4.120 | 5.800 | | |
| | | Reference hot water temperature | °C | 47.2 | 44.7 | 47.2 | 44.7 | 47.2 | 44.7 | | |
| | | Stand-by power input | W | 37.4 | 32.5 | 37.4 | 32.5 | 37.4 | 32.5 | | |
| | | Water heating energy efficiency class | | A+ | | | | | | | |
| | Cold climate | AEC (Annual electricity consumption) | kWh | 1,152 | 1,457 | 1,152 | 1,457 | 1,152 | 1,457 | | |
| | | COPdhw | | 2.12 | 2.80 | 2.12 | 2.80 | 2.12 | 2.80 | | |
| | | Heat up time | | 2h 23min | 3h 37 min | 2h 23min | 3h 37 min | 2h 23min | 3h 37 min | | |
| | | η _{wh} (water heating efficiency) | % | 89 | 115 | 89 | 115 | 89 | 115 | | |
| | | Qelec (Daily electricity consumption) | kWh | 5.500 | 6.820 | 5.500 | 6.820 | 5.500 | 6.820 | | |
| Warm climate | Reference hot water temperature | °C | 46.3 | 44.7 | 46.3 | 44.7 | 46.3 | 44.7 | | | |
| | Stand-by power input | W | 45.5 | 34.3 | 45.5 | 34.3 | 45.5 | 34.3 | | | |
| | AEC (Annual electricity consumption) | kWh | 759 | 1,021 | 759 | 1,021 | 759 | 1,021 | | | |
| | COPdhw | | 3.19 | 3.96 | 3.19 | 3.96 | 3.19 | 3.96 | | | |
| | Heat up time | | 2h 18min | 3h 17min | 2h 18min | 3h 17min | 2h 18min | 3h 17min | | | |
| Space heating | Average climate water outlet 55°C | General | Annual energy consumption | kWh | 7,442 | | 7,423 | | 7,210 | | |
| | | | η _s (Seasonal space heating efficiency) | % | 136 | | | | 140 | | |
| | | Prated at -10°C | kW | 12.5 | | | | | | | |
| | | Q _{he} Annual energy consumption (GCV) | Gj | 27 | | | | 26 | | | |
| | | SCOP | | 3.47 | | 3.48 | | 3.58 | | | |
| | | Seasonal space heating eff. class | | | A++ | | | | | | |
| | | A Condition (-7°CDB/-8°CWB) | Cdh (Degradation heating) | | 1.0 | | | | | | |
| | | | COPd | | 2.34 | | | | | | |
| | | B Condition (2°CDB/1°CWB) | Pdh | kW | 7.6 | | | | | | |
| | | | PERd | % | 93.6 | | | | | | |
| Cdh (Degradation heating) | | | 1.0 | | | | | | | | |
| C Condition (7°CDB/6°CWB) | COPd | | 3.50 | | | | | | | | |
| | Pdh | kW | 6.8 | | | | | | | | |
| | PERd | % | 140.0 | | | | | | | | |
| C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | 1.0 | | | | | | | | |
| | COPd | | 5.07 | | | | | | | | |
| | Pdh | kW | 4.5 | | | | | | | | |
| | PERd | % | 202.8 | | | | | | | | |

2 Specifications

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| Technical specifications | | | | ELSXB12P30E + ERRA08EW1 | ELSXB12P50E + ERRA08EW1 | ELSXB12P30E + ERRA10EW1 | ELSXB12P50E + ERRA10EW1 | ELSXB12P30E + ERRA12EW1 | ELSXB12P50E + ERRA12EW1 | |
|-----------------------------------|-----------------------------------|-----------------------------------|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--|
| Space heating | Average climate water outlet 55°C | D Condition (12°CDB/11°CWB) | Cdh (Degradation heating) | 1.0 | | | | | | |
| | | | COPd | 6.23 | | | | | | |
| | | PdH kW | PdH | 5.2 | | | | | | |
| | | | PERd % | 249.2 | | | | | | |
| | | Tol (temperature operating limit) | COPd | | 2.04 | | | | 2.06 | |
| | | | | PdH kW | 6.9 | | | | 8.2 | |
| | | | PERd % | | 81.6 | | | | 82.4 | |
| | | | | TOL °C | -10 | | | | | |
| | | WTOL °C | | 55 | | | | | | |
| | | | Rated heat output supplementary capacity | Psup (at Tdesign -10°C) kW | 5.6 | | | | 4.3 | |
| | Tbiv (bivalent temperature) | COPd | | 2.90 | | | | 2.48 | | |
| | | | PdH kW | 8.5 | | | | 10.0 | | |
| | | PERd % | | 116.0 | | | | 99.2 | | |
| | | | Tbiv °C | -2 | | | | | | |
| | Cold climate water outlet 55°C | General | Annual energy consumption | 7,028 | | 6,890 | | 6,861 | | |
| | | | ηs (Seasonal space heating efficiency) | 123 | | | | 126 | | |
| | | | Prated at -22°C | 9.0 | | | | | | |
| | | | Qhe Annual energy consumption (GCV) | 25 | | | | | | |
| | | A Condition (-7°CDB/-8°CWB) | Cdh (Degradation heating) | | 1.0 | | | | | |
| | | | | COPd | 2.61 | | | | | |
| PdH kW | | | PdH | 5.2 | | | | | | |
| | | PERd % | 104.2 | | | | 104.4 | | | |
| B Condition (2°CDB/1°CWB) | | Cdh (Degradation heating) | | 1.0 | | | | | | |
| | | | COPd | 3.90 | | | | | | |
| | PdH kW | PdH | 3.3 | | | | | | | |
| PERd % | | 156.0 | | | | | | | | |
| C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | 1.0 | | | | | | | |
| | | COPd | 4.96 | | | | | | | |
| | PdH kW | PdH | 3.4 | | | | | | | |
| PERd % | | 198.3 | | | | | | | | |
| D Condition (12°CDB/11°CWB) | COPd | | 6.56 | | | | | | | |
| | | PdH kW | 4.2 | | | | | | | |
| | PERd % | 262.5 | | | | | | | | |
| Tol (temperature operating limit) | COPd | | 1.49 | | 1.56 | | 1.62 | | | |
| | | PdH kW | 4.9 | | 6.1 | | 7.2 | | | |
| | PERd % | | 59.6 | | 62.3 | | 64.7 | | | |
| | | TOL °C | -22 | | | | | | | |


2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELSXB12P30E + ERRA08EW1 | ELSXB12P50E + ERRA08EW1 | ELSXB12P30E + ERRA10EW1 | ELSXB12P50E + ERRA10EW1 | ELSXB12P30E + ERRA12EW1 | ELSXB12P50E + ERRA12EW1 | | |
|--|--------------------------------------|---|-------------------------|------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--|--|
| Space heating | Cold climate water outlet 55°C | Tol (tem- perature operating limit) | WTOL °C | 55 | | | | | | | |
| | | G Condition (-15°CDB/-) | COPd | | 2.00 | | 2.03 | | | | |
| | | | Pdh | kW | 6.0 | | 7.2 | | | | |
| | | | PERd | % | 80.0 | | 81.2 | | | | |
| | | Tbiv (bivalent tempera- ture) | COPd | | 2.25 | | 2.03 | | | | |
| | | | Pdh | kW | 6.6 | | 7.2 | | | | |
| | | | PERd | % | 90.0 | | 81.2 | | | | |
| | | Rated heat output sup- plementary capacity | Psup (at Tdesign -22°C) | kW | 4.1 | | 2.9 | | 1.8 | | |
| | | | | | | | | | | | |
| | | Warm climate water outlet 55°C | General | Annual energy consumption | kWh | 2,853 | | | | | |
| ηs (Seasonal space heating efficiency) | % | | | 177 | | | | | | | |
| Prated at 2°C | kW | | | 9.6 | | | | | | | |
| Qhe Annual energy consumption (GCV) | Gj | | | 10 | | | | | | | |
| B Condition (2°CDB- B/1°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | | | |
| | COPd | | | 2.66 | | | | | | | |
| | Pdh | | kW | 8.0 | | | | | | | |
| | PERd | | % | 106.5 | | | | | | | |
| C Condition (7°CDB- B/6°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | | | |
| | COPd | | | 3.79 | | | | | | | |
| | Pdh | | kW | 6.7 | | | | | | | |
| | PERd | | % | 151.5 | | | | | | | |
| D Condition (12°CDB- B/11°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | | | |
| | COPd | | | 5.87 | | | | | | | |
| | Pdh | | kW | 3.6 | | | | | | | |
| | PERd | | % | 234.9 | | | | | | | |
| Tbiv (bivalent tempera- ture) | COPd | | | 3.13 | | | | | | | |
| | Pdh | | kW | 8.4 | | | | | | | |
| | PERd | | % | 125.4 | | | | | | | |
| | Tbiv | °C | 4 | | | | | | | | |
| Average climate water outlet 35°C | General | Annual energy consumption | kWh | 3,462 | | 3,440 | | | | | |
| | | ηs (Seasonal space heating efficiency) | % | 195 | | 196 | | | | | |
| | | Prated at -10°C | kW | 8.3 | | | | | | | |
| | | Qhe Annual energy consumption (GCV) | Gj | 12 | | | | | | | |
| | | SCOP | | 4.95 | | 4.98 | | | | | |
| | Seasonal space heating eff. class | | | A+++ | | | | | | | |
| | A Condition (-7°CDB/-8°CWB) | COPd | | 3.20 | | | | | | | |
| Pdh | | kW | 7.5 | | | | | | | | |

2 Specifications

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| Technical specifications | | | | ELSB12P30E + ERRA08EW1 | ELSB12P50E + ERRA08EW1 | ELSB12P30E + ERRA10EW1 | ELSB12P50E + ERRA10EW1 | ELSB12P30E + ERRA12EW1 | ELSB12P50E + ERRA12EW1 | | |
|--|--|-------------------------------|-----------------------------|---------------------------|--|---------------------------|---------------------------|---------------------------|---------------------------|-------|-------|
| Space heating  | Average climate water outlet | A Condition (-7°C-D B/-8°CWB) | PERd | % | 128.0 | | | | | | |
| | | 35°C | B Condition (2°C-D B/1°CWB) | Cdh (Degradation heating) | | 1.0 | | | | | |
| | COPd | | | | 4.93 | | | | | | |
| | Pdh | | | kW | 4.4 | | | | | | |
| | PERd | | | % | 197.2 | | | | | | |
| | C Condition (7°C-D B/6°CWB) | Cdh (Degradation heating) | Cdh (Degradation heating) | | 1.0 | | | | | | |
| | | | COPd | | 6.37 | | | | | | |
| | | | Pdh | kW | 4.3 | | | | | | |
| | | | PERd | % | 254.8 | | | | | | |
| | D Condition (12°C-D B/11°CWB) | Cdh (Degradation heating) | Cdh (Degradation heating) | | 1.0 | | | | | | |
| | | | COPd | | 8.13 | | | | | | |
| | | | Pdh | kW | 6.6 | | | | | | |
| | | | PERd | % | 325.2 | | | | | | |
| | Tol (temperature operating limit) | COPd | COPd | | 2.90 | | | | | 2.86 | |
| | | | Pdh | kW | 6.9 | | | | | 8.1 | |
| | | | PERd | % | 116.0 | | | | | 114.4 | |
| | | | TOL | °C | | | | | | -10 | |
| | Tbiv (bivalent temperature) | WTOL | WTOL | °C | | | | | | 35 | |
| | | | COPd | COPd | | 3.20 | | | | | 2.86 |
| | | | | Pdh | kW | 7.5 | | | | | 8.1 |
| | | | | PERd | % | 128.0 | | | | | 114.4 |
| | Tbiv | °C | | -7 | | | | | -10 | | |
| | Rated heat output supplementary capacity | Psup (at Tdesign -10°C) | Psup (at Tdesign -10°C) | kW | 1.4 | | | | | 0.0 | |
| | | | General | Annual energy consumption | Annual energy consumption | kWh | 5,334 | | 5,180 | | 5,165 |
| | | | | | ηs (Seasonal space heating efficiency) | % | 163 | | 168 | | 169 |
| Prated at -22°C | | | | | kW | | | 9 | | | |
| Qhe Annual energy consumption (GCV) | Gj | 19.2 | | | | | 18.6 | | | | |
| A Condition (-7°C-D B/-8°CWB) | COPd | COPd | | 3.48 | | | | | | | |
| | | Pdh | kW | 5.4 | | | | | | | |
| | | PERd | % | 139.2 | | | | | | | |
| | | B Condition (2°C-D B/1°CWB) | Cdh (Degradation heating) | Cdh (Degradation heating) | | 1.0 | | | | | |
| COPd | | | | 5.40 | | | | | | | |
| Pdh | kW | | | 3.6 | | | | | | | |
| PERd | % | | | 216.0 | | | | | | | |
| C Condition (7°C-D B/6°CWB) | Cdh (Degradation heating) | Cdh (Degradation heating) | | 1.0 | | | | | | | |
| | | COPd | | 6.53 | | | | | | | |
| | | Pdh | kW | 5.3 | | | | | | | |
| | | | | | | | | | | | |

2 Specifications

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| Technical specifications | | | | ELSB12P30E + ERRA08EW1 | ELSB12P50E + ERRA08EW1 | ELSB12P30E + ERRA10EW1 | ELSB12P50E + ERRA10EW1 | ELSB12P30E + ERRA12EW1 | ELSB12P50E + ERRA12EW1 | |
|--|---|--|--|---|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|------|
| Space heating | Cold climate water outlet 35°C | C Condition (7°CDB/ B/6°CWB) | PERd | % | 261.2 | | | | | |
| | | | D Condition (12°CDB/ B/11°CWB) | Cdh (Degradation heating) | | 1.0 | | | | |
| | | | COPd | | 7.98 | | | | | |
| | | | Pdh | kW | 6.6 | | | | | |
| | | | PERd | % | 319.0 | | 319.2 | | | |
| | | Tol (tem- perature operating limit) | | COPd | | 2.11 | | 2.14 | | 2.16 |
| | | | | Pdh | kW | 4.9 | | 5.9 | | 6.5 |
| | | | | PERd | % | 84.3 | | 85.6 | | 86.4 |
| | | | | TOL | °C | -22 | | | | |
| | | | WTOL | °C | 35 | | | | | |
| | G Condition (-15°CDB/-) | | COPd | | 2.68 | | 2.64 | | | |
| | | | Pdh | kW | 6.0 | | 7.0 | | | |
| | | | PERd | % | 107.1 | | 105.6 | | | |
| | Tbiv (bivalent tempera- ture) | | COPd | | 2.95 | | 2.64 | | | |
| | | | Pdh | kW | 6.5 | | 7.0 | | | |
| | | | PERd | % | 118.1 | | 105.6 | | | |
| | | Tbiv | °C | -12 | | -15 | | | | |
| | Rated heat output sup- plementary capacity | | Psup (at Tdesign -22°C) | kW | 4.1 | | 3.1 | | 2.6 | |
| | Warm climate water outlet 35°C | General | | Annual energy consumption | kWh | 1,873 | | | | |
| | | | | ηs (Seasonal space heating efficiency) | % | 242 | | | | |
| | | | Prated at 2°C | kW | 8.6 | | | | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | 7 | | | | | |
| B Condition (2°CDB/ B/1°CWB) | | | Cdh (Degradation heating) | | 1.0 | | | | | |
| | | | COPd | | 4.17 | | | | | |
| | | | Pdh | kW | 6.8 | | | | | |
| | | | PERd | % | 166.8 | | | | | |
| C Condition (7°CDB/ B/6°CWB) | | | Cdh (Degradation heating) | | 1.0 | | | | | |
| | | | COPd | | 5.85 | | | | | |
| | | Pdh | kW | 5.5 | | | | | | |
| | | PERd | % | 234.0 | | | | | | |
| Tbiv (bivalent tempera- ture) | | COPd | | 4.89 | | | | | | |
| | | Pdh | kW | 6.8 | | | | | | |
| | | PERd | % | 195.6 | | | | | | |
| | Tbiv | °C | 5 | | | | | | | |
| D Condition (12°CDB/ B/11°CWB) | | Cdh (Degradation heating) | | 1.0 | | | | | | |
| | | COPd | | 7.78 | | | | | | |
| | | Pdh | kW | 6.1 | | | | | | |
| Space heating | Warm climate water outlet 35°C | D Condition (12°CDB/ B/11°CWB) | PERd | % | 311.2 | | | | | |

(1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C. (DT = 5°C) |

(3)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

(4)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

(5)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |

(6)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |

(7)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed

| Technical specifications | | | | ELVH12S18E6V + ERRA08EW1 | ELVH12S23E6V + ERRA08EW1 | ELVH12S18E6V + ERRA10EW1 | ELVH12S23E6V + ERRA10EW1 | ELVH12S18E6V + ERRA12EW1 | ELVH12S23E6V + ERRA12EW1 |
|--------------------------------|---|------|----------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Heating capacity | Min. | | kW | 3.45 (1) | | | | | |
| | Nom. | | kW | 6.17 (2) | | | | | |
| | Max. | | kW | 7.95 (1) | | 9.25 (1) | | 9.97 (1) | |
| Power input | Heating | Min. | kW | 0.70 (3) | | | | | |
| | | Nom. | kW | 1.21 (2) | | | | | |
| | | Max. | kW | 1.63 (3) | | 1.98 (3) | | 2.21 (3) | |
| | Domestic hot water from 10°C to 50°C | Nom. | kWh | 2.54 (4) | 3.09 (4) | 2.54 (4) | 3.09 (4) | 2.54 (4) | 3.09 (4) |
| Heat up time from 10°C to 50°C | | hr | 1h 51min | 2h 10min | 1h 51min | 2h 10min | 1h 51min | 2h 10min | |
| COP | | | 5.10 (2) | | | | | | |

2 Specifications

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| Technical specifications | | | | ELVH12S18E6V + ERRA08EW1 | ELVH12S23E6V + ERRA08EW1 | ELVH12S18E6V + ERRA10EW1 | ELVH12S23E6V + ERRA10EW1 | ELVH12S18E6V + ERRA12EW1 | ELVH12S23E6V + ERRA12EW1 | | |
|--|---------------------------------------|---------------------------------------|-------------------|--|---|---|---|---|---|-----|-----|
| Pump | Type | Grundfos UPM4L K 15-75 130 9 DKI | | | | | | | | | |
| | Nominal ESP Heating unit | kPa | 67.1 (5) | | | | | | | | |
| Water side Heat exchanger | Water flow rate | Heating Nom. | l/min | 18.3 | | | | | | | |
| General | Supplier/Manufacturer details | Name and address | | Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium | | | | | | | |
| | | Name or trademark | | Daikin Europe N.V. | | | | | | | |
| | Product description | Air-to-water heat pump | | | Yes | | | | | | |
| | | Brine-to-water heat pump | | | No | | | | | | |
| | | Heat pump combination heater | | | Yes | | | | | | |
| | | Low-temperature heat pump | | | No | | | | | | |
| | | Supplementary heater integrated | | | Yes | | | | | | |
| | | Water-to-water heat pump | | | No | | | | | | |
| LW(A) Sound power level (according to EN14825) | Indoor | | dB(A) | 44.0 | | | | | | | |
| LW(A) Sound power level (according to EN14825) | Outdoor | | dB(A) | 56.0 | | | | | | | |
| Sound condition Ecodesign and energy label | | | | Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825 | | | | | | | |
| Tank | Name | | | Stainless steel domestic hot water tank 180 l | Stainless steel domestic hot water tank 230 L | Stainless steel domestic hot water tank 180 l | Stainless steel domestic hot water tank 230 L | Stainless steel domestic hot water tank 180 l | Stainless steel domestic hot water tank 230 L | | |
| | | Space heating general | Air to water unit | Rated airflow (outdoor) | m ³ /h | 3,542 | | | | | |
| | | | Other | Capacity control | | Inverter | | | | | |
| | | | | Pck (Crankcase heater mode) | kW | 0.000 | | | | | |
| | | | | Poff (Off mode) | kW | 0.027 | | | | | |
| | | | | Psb (Standby mode) | kW | 0.027 | | | | | |
| | | Pto (Thermostat off) | kW | 0.024 | | | | | | | |
| Domestic hot water heating | General | Declared load profile | | L | | | | | | | |
| Space heating general | Integrated supplementary heater | Psup | kW | 6.0 | | | | | | | |
| | | Type of energy input | | Electrical | | | | | | | |
| Domestic hot water heating | Average climate | AEC (Annual electricity consumption) | kWh | 851 | 787 | 851 | 787 | 851 | 787 | | |
| | | COPdhw | | 2.80 | 3.05 | 2.80 | 3.05 | 2.80 | 3.05 | | |
| | | Heat up time | | 1h 57min | 2h 14min | 1h 57min | 2h 14min | 1h 57min | 2h 14min | | |
| Domestic hot water heating | Average climate | ηwh (water heating efficiency) | % | 120 | 130 | 120 | 130 | 120 | 130 | | |
| | | Qelec (Daily electricity consumption) | kWh | 4.160 | 3.830 | 4.160 | 3.830 | 4.160 | 3.830 | | |
| | | Reference hot water temperature | °C | 53.0 | 52.0 | 53.0 | 52.0 | 53.0 | 52.0 | | |
| | | Stand-by power input | W | 50.7 | 43.9 | 50.7 | 43.9 | 50.7 | 43.9 | | |
| | | Water heating energy efficiency class | | A+ | | | | | | | |
| | | Domestic hot water heating | Cold climate | AEC (Annual electricity consumption) | kWh | 937 | 866 | 937 | 866 | 937 | 866 |
| COPdhw | | | | 2.55 | 2.77 | 2.55 | 2.77 | 2.55 | 2.77 | | |
| Heat up time | | | | 1h 55min | 2h 02min | 1h 55min | 2h 02min | 1h 55min | 2h 02min | | |
| ηwh (water heating efficiency) | % | | | 109 | 118 | 109 | 118 | 109 | 118 | | |
| Qelec (Daily electricity consumption) | kWh | | | 4.570 | 4.200 | 4.570 | 4.200 | 4.570 | 4.200 | | |
| Reference hot water temperature | °C | | | 53.0 | 52.0 | 53.0 | 52.0 | 53.0 | 52.0 | | |
| Warm climate | Stand-by power input | | W | 54.3 | 46.7 | 54.3 | 46.7 | 54.3 | 46.7 | | |
| | AEC (Annual electricity consumption) | | kWh | 699 | 648 | 699 | 648 | 699 | 648 | | |
| | COPdhw | | | 3.40 | 3.68 | 3.40 | 3.68 | 3.40 | 3.68 | | |
| | Heat up time | | | 1h 54min | 2h 06min | 1h 54min | 2h 06min | 1h 54min | 2h 06min | | |
| | ηwh (water heating efficiency) | | % | 147 | 158 | 147 | 158 | 147 | 158 | | |
| | Qelec (Daily electricity consumption) | | kWh | 3.430 | 3.160 | 3.430 | 3.160 | 3.430 | 3.160 | | |
| | Reference hot water temperature | °C | 53.0 | 52.0 | 53.0 | 52.0 | 53.0 | 52.0 | | | |
| | Stand-by power input | W | 44.6 | 39.0 | 44.6 | 39.0 | 44.6 | 39.0 | | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELVH12S18E6V + ERRA08EW1 | ELVH12S23E6V + ERRA08EW1 | ELVH12S18E6V + ERRA10EW1 | ELVH12S23E6V + ERRA10EW1 | ELVH12S18E6V + ERRA12EW1 | ELVH12S23E6V + ERRA12EW1 | | | |
|--|-----------------------------------|--|--|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|-------|--|
| Space heating | Average climate water outlet 55°C | General | Annual energy consumption | kWh | 7,541 | | 7,522 | | 7,309 | | | |
| | | | ηs (Seasonal space heating efficiency) | % | | 134 | | 138 | | | | |
| | | | Prated at -10°C | kW | | | 12.5 | | | | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | | 27 | | 26 | | | | |
| | | | SCOP | | 3.42 | | 3.43 | | 3.53 | | | |
| | | | Seasonal space heating eff. class | | | | A++ | | | | | |
| | | | A Condition (-7°CDB/8°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | |
| | | | | COPd | | | 2.34 | | | | | |
| | | | | Pdh | kW | | 7.6 | | | | | |
| | | | | PERd | % | | 93.6 | | | | | |
| | | | B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | |
| | | | | COPd | | | 3.50 | | | | | |
| | | | | Pdh | kW | | 6.8 | | | | | |
| | | | | PERd | % | | 140.0 | | | | | |
| | | | C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | |
| | | | | COPd | | | 5.07 | | | | | |
| | | | | Pdh | kW | | 4.5 | | | | | |
| | | | | PERd | % | | 202.8 | | | | | |
| | | | Space heating | Average climate water outlet 55°C | D Condition (12°CDB/11°CWB) | Cdh (Degradation heating) | | | 1.0 | | | |
| | | | | | | COPd | | | 6.23 | | | |
| Pdh | kW | | | | | 5.2 | | | | | | |
| PERd | % | | | | | 249.2 | | | | | | |
| Tol (temperature operating limit) | COPd | | | | | 2.04 | | 2.06 | | | | |
| | Pdh | kW | | | | 6.9 | | 8.2 | | | | |
| | PERd | % | | | | 81.6 | | 82.4 | | | | |
| | TOL | °C | | | | | | -10 | | | | |
| | WTOL | °C | | | | | | 55 | | | | |
| Rated heat output supplementary capacity | Psup (at Tdesign -10°C) | kW | | | | 5.6 | | 4.3 | | | | |
| | Tbiv (bivalent temperature) | COPd | | | | | 2.90 | | 2.48 | | | |
| | | Pdh | | | | kW | 8.5 | | 10.0 | | | |
| | | PERd | | | | % | 116.0 | | 99.2 | | | |
| | | Tbiv | | | | °C | -2 | | -5 | | | |
| Cold climate water outlet 55°C | General | Annual energy consumption | | | | kWh | 7,088 | | 6,950 | | 6,921 | |
| | | ηs (Seasonal space heating efficiency) | | | | % | 122 | | 125 | | | |
| | | Prated at -22°C | | | | kW | | | 9.0 | | | |
| | | Qhe Annual energy consumption (GCV) | | | | Gj | 26 | | 25 | | | |
| | | A Condition (-7°CDB/8°CWB) | | | | Cdh (Degradation heating) | | | 1.0 | | | |
| | | | | | | COPd | | | 2.61 | | | |
| | | | Pdh | kW | | 5.2 | | | | | | |
| | | | PERd | % | 104.2 | | 104.4 | | | | | |
| | | B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | | |
| | | | COPd | | | 3.90 | | | | | | |
| | | | Pdh | kW | | 3.3 | | | | | | |
| | | | PERd | % | | 156.0 | | | | | | |
| | | C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | | |
| | | | COPd | | | 4.96 | | | | | | |
| | | | Pdh | kW | | 3.4 | | | | | | |
| | | | PERd | % | | 198.3 | | | | | | |
| | | D Condition (12°CDB/11°CWB) | COPd | | | 6.56 | | | | | | |
| | | | Pdh | kW | | 4.2 | | | | | | |
| | | | PERd | % | | 262.5 | | | | | | |
| | | Tol (temperature operating limit) | COPd | | 1.49 | | 1.56 | | 1.62 | | | |
| Pdh | kW | | 4.9 | | 6.1 | | 7.2 | | | | | |
| PERd | % | | 59.6 | | 62.3 | | 64.7 | | | | | |
| TOL | °C | | | | -22 | | | | | | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELVH12S18E6V + ERRA08EW1 | ELVH12S23E6V + ERRA08EW1 | ELVH12S18E6V + ERRA10EW1 | ELVH12S23E6V + ERRA10EW1 | ELVH12S18E6V + ERRA12EW1 | ELVH12S23E6V + ERRA12EW1 | | |
|--|--------------------------------------|---|------------------------------------|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|--|
| Space heating | Cold climate water outlet 55°C | Tol (tem- perature operating limit) | WTOL °C | 55 | | | | | | | |
| | | G Condition (-15°CDB/-) | COPd | | 2.00 | | 2.03 | | | | |
| | | | Pdh | kW | 6.0 | | 7.2 | | | | |
| | | | PERd | % | 80.0 | | 81.2 | | | | |
| | | Tbiv (bivalent tempera- ture) | COPd | | 2.25 | | 2.03 | | | | |
| | | | Pdh | kW | 6.6 | | 7.2 | | | | |
| | | | PERd | % | 90.0 | | 81.2 | | | | |
| | | Rated heat output sup- plementary capacity | Psup (at Tdesign -22°C) | kW | 4.1 | | 2.9 | | 1.8 | | |
| | | | | | | | | | | | |
| | | Warm climate water outlet 55°C | General | Annual energy consumption | kWh | 2,972 | | | | | |
| | | | | ηs (Seasonal space heating efficiency) | % | 170 | | | | | |
| | | | | Prated at 2°C | kW | 9.6 | | | | | |
| | | | | Qhe Annual energy consumption (GCV) | Gj | 11 | | | | | |
| | | | B Condition (2°CDB- B/1°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | |
| COPd | | | | 2.66 | | | | | | | |
| Pdh | kW | | | 8.0 | | | | | | | |
| PERd | % | | | 106.5 | | | | | | | |
| C Condition (7°CDB- B/6°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | | | |
| | COPd | | | 3.79 | | | | | | | |
| | Pdh | | kW | 6.7 | | | | | | | |
| | PERd | | % | 151.5 | | | | | | | |
| D Condition (12°CDB- B/11°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | | | |
| | COPd | | | 5.87 | | | | | | | |
| | Pdh | kW | 3.6 | | | | | | | | |
| | PERd | % | 234.9 | | | | | | | | |
| Tbiv (bivalent tempera- ture) | COPd | | 3.13 | | | | | | | | |
| | Pdh | kW | 8.4 | | | | | | | | |
| | PERd | % | 125.4 | | | | | | | | |
| | Tbiv | °C | 4 | | | | | | | | |
| Average climate water outlet 35°C | General | Annual energy consumption | kWh | 3,561 | | 3,539 | | | | | |
| | | ηs (Seasonal space heating efficiency) | % | 190 | | 191 | | | | | |
| | | Prated at -10°C | kW | 8.3 | | | | | | | |
| | | Qhe Annual energy consumption (GCV) | Gj | 13 | | | | | | | |
| | | SCOP | | 4.81 | | 4.84 | | | | | |
| | Seasonal space heating eff. class | | | A+++ | | | | | | | |
| | A Condition (-7°CDB/-8°CWB) | COPd | | 3.20 | | | | | | | |
| | Pdh | kW | 7.5 | | | | | | | | |

2 Specifications

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| Technical specifications | | | | ELVH12S18E6V + ERRA08EW1 | ELVH12S23E6V + ERRA08EW1 | ELVH12S18E6V + ERRA10EW1 | ELVH12S23E6V + ERRA10EW1 | ELVH12S18E6V + ERRA12EW1 | ELVH12S23E6V + ERRA12EW1 | | | |
|--|--|---|-------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------|--|--|
| Space heating Average climate water outlet 35°C | A Condition (-7°C- B/-8°CWB) | PERd | % | | | | | | | 128.0 | | |
| | B Condition (2°C- B/1°CWB) | Cdh (Degradation heating) | | | | | | | | 1.0 | | |
| | | COPd | | | | | | | | 4.93 | | |
| | | Pdh | kW | | | | | | | 4.4 | | |
| | | PERd | % | | | | | | | 197.2 | | |
| | C Condition (7°C- B/6°CWB) | Cdh (Degradation heating) | | | | | | | | 1.0 | | |
| | | COPd | | | | | | | | 6.37 | | |
| | | Pdh | kW | | | | | | | 4.3 | | |
| | | PERd | % | | | | | | | 254.8 | | |
| | D Condition (12°C- B/11°CWB) | Cdh (Degradation heating) | | | | | | | | 1.0 | | |
| | | COPd | | | | | | | | 8.13 | | |
| | | Pdh | kW | | | | | | | 6.6 | | |
| | | PERd | % | | | | | | | 325.2 | | |
| | Tol (tem- perature operating limit) | COPd | | 2.90 | | | | | 2.86 | | | |
| | | Pdh | kW | 6.9 | | | | | 8.1 | | | |
| | | PERd | % | 116.0 | | | | | 114.4 | | | |
| | | TOL | °C | | | | | | | -10 | | |
| | Tbiv (bivalent tempera- ture) | WTOL | °C | | | | | | | 35 | | |
| | | COPd | | 3.20 | | | | | 2.86 | | | |
| | | Pdh | kW | 7.5 | | | | | 8.1 | | | |
| PERd | | % | 128.0 | | | | | 114.4 | | | | |
| Rated heat output sup- plementary capacity | Tbiv | °C | -7 | | | | | -10 | | | | |
| | Psup (at Tdesign -10°C) | kW | 1.4 | | | | | 0.0 | | | | |
| Cold climate water outlet 35°C | General | Annual energy consumption | kWh | 5,394 | | | | 5,239 | 5,224 | | | |
| | | ηs (Seasonal space heating efficiency) | % | 162 | | | | 166 | 167 | | | |
| | | Prated at -22°C | kW | | | | | | | 9 | | |
| | | Qhe Annual energy consumption (GCV) | Gj | 19.4 | | | | 18.9 | 18.8 | | | |
| | A Condition (-7°C- B/-8°CWB) | COPd | | | | | | | | 3.48 | | |
| | | Pdh | kW | | | | | | | 5.4 | | |
| PERd | | % | | | | | | | 139.2 | | | |
| B Condition (2°C- B/1°CWB) | Cdh (Degradation heating) | | | | | | | | 1.0 | | | |
| | COPd | | | | | | | | 5.40 | | | |
| | Pdh | kW | | | | | | | 3.6 | | | |
| C Condition (7°C- B/6°CWB) | PERd | % | | | | | | | 216.0 | | | |
| | Cdh (Degradation heating) | | | | | | | | 1.0 | | | |
| | COPd | | | | | | | | 6.53 | | | |
| | Pdh | kW | | | | | | | 5.3 | | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELVH12S18E6V + ERRA08EW1 | ELVH12S23E6V + ERRA08EW1 | ELVH12S18E6V + ERRA10EW1 | ELVH12S23E6V + ERRA10EW1 | ELVH12S18E6V + ERRA12EW1 | ELVH12S23E6V + ERRA12EW1 | | |
|--|--------------------------------------|--|---|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------|------|
| Space heating | Cold climate water outlet 35°C | C Condition (7°CDB/ B/6°CWB) | PERd | % | 261.2 | | | | | | |
| | | | D Condition (12°CDB/ B/11°CWB) | | Cdh (Degradation heating) | 1.0 | | | | | |
| | | | | | COPd | 7.98 | | | | | |
| | | | | Pdh | 6.6 | | | | | | |
| | | | | PERd | 319.0 | | | | | | |
| | | Tol (tem- perature operating limit) | | COPd | 2.11 | | | 2.14 | 319.2 | | 2.16 |
| | | | | Pdh | 4.9 | | | 5.9 | | | 6.5 |
| | | | | PERd | 84.3 | | | 85.6 | | | 86.4 |
| | | | | TOL | | | -22 | | | | |
| | | | | WTOL | | | 35 | | | | |
| | | | | G Condition (-15°CDB/-) | COPd | 2.68 | | | | 2.64 | |
| | | | | | Pdh | 6.0 | | | | 7.0 | |
| | | | | | PERd | 107.1 | | | | 105.6 | |
| | | | | Tbiv (bivalent tempera- ture) | COPd | 2.95 | | | | 2.64 | |
| | | | | | Pdh | 6.5 | | | | 7.0 | |
| | | | PERd | | 118.1 | | | | 105.6 | | |
| | | | Rated heat output sup- plementary capacity | Tbiv | -12 | | | | -15 | | |
| | | | | Psup (at Tdesign -22°C) | 4.1 | | 3.1 | | 2.6 | | |
| | Warm climate water outlet 35°C | General | | Annual energy consumption | kWh | | 1,993 | | | | |
| | | | | ηs (Seasonal space heating efficiency) | % | | 228 | | | | |
| | | | | Prated at 2°C | kW | | 8.6 | | | | |
| | | | | Qhe Annual energy consumption (GCV) | Gj | | 7 | | | | |
| | | B Condition (2°CDB/ B/1°CWB) | | Cdh (Degradation heating) | | 1.0 | | | | | |
| | | | | COPd | | 4.17 | | | | | |
| | | | | Pdh | | 6.8 | | | | | |
| | | | | PERd | | 166.8 | | | | | |
| | | C Condition (7°CDB/ B/6°CWB) | | Cdh (Degradation heating) | | 1.0 | | | | | |
| COPd | | | | 5.85 | | | | | | | |
| Pdh | | | | 5.5 | | | | | | | |
| PERd | | | | 234.0 | | | | | | | |
| Tbiv (bivalent tempera- ture) | | | COPd | | 4.89 | | | | | | |
| | | | Pdh | | 6.8 | | | | | | |
| | | | PERd | | 195.6 | | | | | | |
| | Tbiv | | 5 | | | | | | | | |
| D Condition (12°CDB/ B/11°CWB) | | Cdh (Degradation heating) | | 1.0 | | | | | | | |
| | | COPd | | 7.78 | | | | | | | |
| | | Pdh | | 6.1 | | | | | | | |
| Space heating | Warm climate water outlet 35°C | D Condition (12°CDB/ B/11°CWB) | PERd | % | | 311.2 | | | | | |

(1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C. (DT = 5°C) |

(3)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |

(4)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |

(5)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB

| Technical specifications | | | | ELVH12S18E9W + ERRA08EW1 | ELVH12S23E9W + ERRA08EW1 | ELVH12S18E9W + ERRA10EW1 | ELVH12S23E9W + ERRA10EW1 | ELVH12S18E9W + ERRA12EW1 | ELVH12S23E9W + ERRA12EW1 | |
|--------------------------------|---|------|-----|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------|
| Heating capacity | Min. | kW | | 3.45 (1) | | | | | | |
| | Nom. | kW | | 6.17 (2) | | | | | | |
| | Max. | kW | | 7.95 (1) | | | 9.25 (1) | 9.97 (1) | | |
| Power input | Heating | Min. | kW | | 0.70 (3) | | | | | |
| | | Nom. | kW | | 1.21 (2) | | | | | |
| | | Max. | kW | | 1.63 (3) | | | 1.98 (3) | 2.21 (3) | |
| | Domestic hot water from 10°C to 50°C | Nom. | kWh | | 2.54 (4) | 3.09 (4) | 2.54 (4) | 3.09 (4) | 2.54 (4) | 3.09 (4) |
| Heat up time from 10°C to 50°C | | | hr | | 1h 51min | 2h 10min | 1h 51min | 2h 10min | 1h 51min | 2h 10min |
| COP | | | | | 5.10 (2) | | | | | |

2 Specifications

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| Technical specifications | | | | ELVH12S18E9W + ERRA08EW1 | ELVH12S23E9W + ERRA08EW1 | ELVH12S18E9W + ERRA10EW1 | ELVH12S23E9W + ERRA10EW1 | ELVH12S18E9W + ERRA12EW1 | ELVH12S23E9W + ERRA12EW1 | | |
|--|---------------------------------------|--|---|--|---|---|---|---|-----------------------------|--|--|
| Pump | Type | Grundfos UPM4L K 15-75 130 9 DK1 | | | | | | | | | |
| | Nominal ESP Heating unit | kPa | 67.1 (5) | | | | | | | | |
| Water side Heat exchanger | Water flow rate | Heating Nom. | l/min | 18.3 | | | | | | | |
| General | Supplier/Manufacturer details | Name and address | Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium | | | | | | | | |
| | | Name or trademark | Daikin Europe N.V. | | | | | | | | |
| | Product description | Air-to-water heat pump | Yes | | | | | | | | |
| | | Brine-to-water heat pump | No | | | | | | | | |
| | | Heat pump combination heater | Yes | | | | | | | | |
| | | Low-temperature heat pump | No | | | | | | | | |
| | | Supplementary heater integrated | Yes | | | | | | | | |
| | | Water-to-water heat pump | No | | | | | | | | |
| LW(A) Sound power level (according to EN14825) | Indoor | dB(A) | 44.0 | | | | | | | | |
| LW(A) Sound power level (according to EN14825) | Outdoor | dB(A) | 56.0 | | | | | | | | |
| Sound condition Ecodesign and energy label | | | | Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825 | | | | | | | |
| Tank | Name | | Stainless steel domestic hot water tank 180 l | Stainless steel domestic hot water tank 230 L | Stainless steel domestic hot water tank 180 l | Stainless steel domestic hot water tank 230 L | Stainless steel domestic hot water tank 180 l | Stainless steel domestic hot water tank 230 L | | | |
| | | Space heating general | Air to water unit | Rated airflow (outdoor) | m ³ /h | 3,542 | | | | | |
| | | | Other | Capacity control | Inverter | | | | | | |
| | | | | Pck (Crankcase heater mode) | kW | 0.000 | | | | | |
| | | | | Poff (Off mode) | kW | 0.027 | | | | | |
| | | | | Psb (Standby mode) | kW | 0.027 | | | | | |
| | | Pto (Thermostat off) | kW | 0.024 | | | | | | | |
| Domestic hot water heating | General | Declared load profile | L | | | | | | | | |
| Space heating general | Integrated supplementary heater | Psup | kW | 9.0 | | | | | | | |
| | | Type of energy input | Electrical | | | | | | | | |
| Domestic hot water heating | Average climate | AEC (Annual electricity consumption) | kWh | 851 | 787 | 851 | 787 | 851 | 787 | | |
| | | COPdhw | | 2.80 | 3.05 | 2.80 | 3.05 | 2.80 | 3.05 | | |
| | | Heat up time | | 1h 57min | 2h 14min | 1h 57min | 2h 14min | 1h 57min | 2h 14min | | |
| Domestic hot water heating | Average climate | η _{wh} (water heating efficiency) | % | 120 | 130 | 120 | 130 | 120 | 130 | | |
| | | Qelec (Daily electricity consumption) | kWh | 4.160 | 3.830 | 4.160 | 3.830 | 4.160 | 3.830 | | |
| | | Reference hot water temperature | °C | 53.0 | 52.0 | 53.0 | 52.0 | 53.0 | 52.0 | | |
| | Stand-by power input | W | 50.7 | 43.9 | 50.7 | 43.9 | 50.7 | 43.9 | | | |
| | Water heating energy efficiency class | A+ | | | | | | | | | |
| Domestic hot water heating | Cold climate | AEC (Annual electricity consumption) | kWh | 937 | 866 | 937 | 866 | 937 | 866 | | |
| | | COPdhw | | 2.55 | 2.77 | 2.55 | 2.77 | 2.55 | 2.77 | | |
| | | Heat up time | | 1h 55min | 2h 02min | 1h 55min | 2h 02min | 1h 55min | 2h 02min | | |
| | | η _{wh} (water heating efficiency) | % | 109 | 118 | 109 | 118 | 109 | 118 | | |
| | | Qelec (Daily electricity consumption) | kWh | 4.570 | 4.200 | 4.570 | 4.200 | 4.570 | 4.200 | | |
| | | Reference hot water temperature | °C | 53.0 | 52.0 | 53.0 | 52.0 | 53.0 | 52.0 | | |
| | | Stand-by power input | W | 54.3 | 46.7 | 54.3 | 46.7 | 54.3 | 46.7 | | |
| | Warm climate | AEC (Annual electricity consumption) | kWh | 699 | 648 | 699 | 648 | 699 | 648 | | |
| | | COPdhw | | 3.40 | 3.68 | 3.40 | 3.68 | 3.40 | 3.68 | | |
| | | Heat up time | | 1h 54min | 2h 06min | 1h 54min | 2h 06min | 1h 54min | 2h 06min | | |
| η _{wh} (water heating efficiency) | | % | 147 | 158 | 147 | 158 | 147 | 158 | | | |
| Qelec (Daily electricity consumption) | | kWh | 3.430 | 3.160 | 3.430 | 3.160 | 3.430 | 3.160 | | | |
| | Reference hot water temperature | °C | 53.0 | 52.0 | 53.0 | 52.0 | 53.0 | 52.0 | | | |
| | Stand-by power input | W | 44.6 | 39.0 | 44.6 | 39.0 | 44.6 | 39.0 | | | |

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| Technical specifications | | | | ELVH12S18E9W + ERRA08EW1 | ELVH12S23E9W + ERRA08EW1 | ELVH12S18E9W + ERRA10EW1 | ELVH12S23E9W + ERRA10EW1 | ELVH12S18E9W + ERRA12EW1 | ELVH12S23E9W + ERRA12EW1 | | |
|--|-----------------------------------|--|--|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------|-------|
| Space heating | Average climate water outlet 55°C | General | Annual energy consumption | kWh | 7,541 | | 7,522 | | 7,309 | | |
| | | | ηs (Seasonal space heating efficiency) | % | | 134 | | | 138 | | |
| | | | Prated at -10°C | kW | | | 12.5 | | | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | | 27 | | | 26 | | |
| | | | SCOP | | 3.42 | | 3.43 | | 3.53 | | |
| | | | Seasonal space heating eff. class | | | | A++ | | | | |
| | | | A Condition (-7°CDB/-8°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | |
| | | | | COPd | | | 2.34 | | | | |
| | | | | Pdh | kW | | 7.6 | | | | |
| | | | | PERd | % | | 93.6 | | | | |
| | | | B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | |
| | | | | COPd | | | 3.50 | | | | |
| | | | | Pdh | kW | | 6.8 | | | | |
| | | | | PERd | % | | 140.0 | | | | |
| | | | C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | |
| | | | | COPd | | | 5.07 | | | | |
| | | | | Pdh | kW | | 4.5 | | | | |
| | | | | PERd | % | | 202.8 | | | | |
| | | | Space heating | Average climate water outlet 55°C | D Condition (12°CDB/11°CWB) | Cdh (Degradation heating) | | | 1.0 | | |
| | | | | | | COPd | | | 6.23 | | |
| Pdh | kW | | | | | | 5.2 | | | | |
| PERd | % | | | | | | 249.2 | | | | |
| Tol (temperature operating limit) | COPd | | | | | 2.04 | | | 2.06 | | |
| | Pdh | kW | | | | 6.9 | | | 8.2 | | |
| | PERd | % | | | | 81.6 | | | 82.4 | | |
| | TOL | °C | | | | | | | -10 | | |
| | WTOL | °C | | | | | | | 55 | | |
| Rated heat output supplementary capacity | Psup (at Tdesign -10°C) | kW | | | | 5.6 | | | 4.3 | | |
| | Tbiv (bivalent temperature) | COPd | | | | | 2.90 | | | 2.48 | |
| | | Pdh | | | | kW | | 8.5 | | 10.0 | |
| | | PERd | | | | % | | 116.0 | | 99.2 | |
| Tbiv | | °C | | | | | -2 | | -5 | | |
| Cold climate water outlet 55°C | General | Annual energy consumption | | | | kWh | 7,088 | | 6,950 | | 6,921 |
| | | ηs (Seasonal space heating efficiency) | | | | % | 122 | | | 125 | |
| | | Prated at -22°C | | | | kW | | | 9.0 | | |
| | | Qhe Annual energy consumption (GCV) | | | | Gj | 26 | | | 25 | |
| | | A Condition (-7°CDB/-8°CWB) | | | | Cdh (Degradation heating) | | | 1.0 | | |
| | | | | | | COPd | | | 2.61 | | |
| | | | Pdh | kW | | 5.2 | | | | | |
| | | | PERd | % | 104.2 | | | 104.4 | | | |
| | | B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | |
| | | | COPd | | | 3.90 | | | | | |
| | | | Pdh | kW | | 3.3 | | | | | |
| | | | PERd | % | | 156.0 | | | | | |
| | | C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | |
| | | | COPd | | | 4.96 | | | | | |
| | | | Pdh | kW | | 3.4 | | | | | |
| | | | PERd | % | | 198.3 | | | | | |
| | | D Condition (12°CDB/11°CWB) | COPd | | | 6.56 | | | | | |
| | | | Pdh | kW | | 4.2 | | | | | |
| | | | PERd | % | | 262.5 | | | | | |
| | | Tol (temperature operating limit) | COPd | | 1.49 | | | 1.56 | | 1.62 | |
| Pdh | kW | | 4.9 | | | 6.1 | | 7.2 | | | |
| PERd | % | | 59.6 | | | 62.3 | | 64.7 | | | |
| TOL | °C | | | | | -22 | | | | | |

2 Specifications


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| Technical specifications | | | | ELVH12S18E9W + ERRA08EW1 | ELVH12S23E9W + ERRA08EW1 | ELVH12S18E9W + ERRA10EW1 | ELVH12S23E9W + ERRA10EW1 | ELVH12S18E9W + ERRA12EW1 | ELVH12S23E9W + ERRA12EW1 | |
|--|--------------------------------------|---|----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----|
| Space heating  | Cold climate water outlet 55°C | Tol (tem- perature operating limit) | WTOL °C | 55 | | | | | | |
| | | G Condition (-15°CDB/-) | COPd | 2.00 | | | | | 2.03 | |
| | | | Pdh kW | 6.0 | | | | | 7.2 | |
| | | | PERd % | 80.0 | | | | | 81.2 | |
| | | Tbiv (bivalent tempera- ture) | COPd | 2.25 | | | | | 2.03 | |
| | | | Pdh kW | 6.6 | | | | | 7.2 | |
| | | | PERd % | 90.0 | | | | | 81.2 | |
| | | Rated heat output sup- plementary capacity | Tbiv °C | -12 | | | | | -15 | |
| | | | Psup (at Tdesign -22°C) kW | 4.1 | | | | | 2.9 | 1.8 |
| | | Warm climate water outlet 55°C | General | Annual energy consumption | kWh | 2,972 | | | | |
| ηs (Seasonal space heating efficiency) | % | | | 170 | | | | | | |
| Prated at 2°C | kW | | | 9.6 | | | | | | |
| Qhe Annual energy consumption (GCV) | Gj | | | 11 | | | | | | |
| B Condition (2°CDB- B/1°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | | |
| | COPd | | | 2.66 | | | | | | |
| | Pdh kW | | | 8.0 | | | | | | |
| | PERd % | | | 106.5 | | | | | | |
| C Condition (7°CDB- B/6°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | | |
| | COPd | | | 3.79 | | | | | | |
| | Pdh kW | | | 6.7 | | | | | | |
| | PERd % | | | 151.5 | | | | | | |
| D Condition (12°CDB- B/11°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | | |
| | COPd | | | 5.87 | | | | | | |
| | Pdh kW | | | 3.6 | | | | | | |
| | PERd % | | | 234.9 | | | | | | |
| Tbiv (bivalent tempera- ture) | COPd | | | 3.13 | | | | | | |
| | Pdh kW | | 8.4 | | | | | | | |
| | PERd % | | 125.4 | | | | | | | |
| | Tbiv °C | | 4 | | | | | | | |
| Average climate water outlet 35°C | General | Annual energy consumption | kWh | 3,561 | | | | | 3,539 | |
| | | ηs (Seasonal space heating efficiency) | % | 190 | | | | | 191 | |
| | | Prated at -10°C | kW | 8.3 | | | | | | |
| | | Qhe Annual energy consumption (GCV) | Gj | 13 | | | | | | |
| | SCOP | | 4.81 | | | | | 4.84 | | |
| | Seasonal space heating eff. class | | A+++ | | | | | | | |
| | A Condition (-7°CDB/-8°CWB) | COPd | | 3.20 | | | | | | |
| Pdh kW | | 7.5 | | | | | | | | |

2 Specifications

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| Technical specifications | | | | ELVH12S18E9W + ERRA08EW1 | ELVH12S23E9W + ERRA08EW1 | ELVH12S18E9W + ERRA10EW1 | ELVH12S23E9W + ERRA10EW1 | ELVH12S18E9W + ERRA12EW1 | ELVH12S23E9W + ERRA12EW1 | |
|--|--|-------------------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------|
| Space heating  | Average climate water outlet 35°C | A Condition (-7°C-D B/-8°CWB) | PERd | % | | | | | 128.0 | |
| | | B Condition (2°C-D B/1°CWB) | Cdh (Degradation heating) | | | | | | | 1.0 |
| | COPd | | | | | | | | 4.93 | |
| | Pdh | | | kW | | | | | 4.4 | |
| | PERd | | | % | | | | | 197.2 | |
| | C Condition (7°C-D B/6°CWB) | Cdh (Degradation heating) | | | | | | | 1.0 | |
| | | COPd | | | | | | | 6.37 | |
| | | Pdh | | kW | | | | | 4.3 | |
| | | PERd | | % | | | | | 254.8 | |
| | D Condition (12°C-D B/11°CWB) | Cdh (Degradation heating) | | | | | | | 1.0 | |
| | | COPd | | | | | | | 8.13 | |
| | | Pdh | | kW | | | | | 6.6 | |
| | | PERd | | % | | | | | 325.2 | |
| | Tol (temperature operating limit) | COPd | | | | 2.90 | | | | 2.86 |
| | | Pdh | | | | 6.9 | | | | 8.1 |
| | | PERd | | % | | 116.0 | | | | 114.4 |
| | | TOL | | | | | | | | -10 |
| | Tbiv (bivalent temperature) | WTOL | | | | | | | | 35 |
| | | COPd | | | | 3.20 | | | | 2.86 |
| | | Pdh | | | | 7.5 | | | | 8.1 |
| | | PERd | | % | | 128.0 | | | | 114.4 |
| | Rated heat output supplementary capacity | Tbiv | | | | -7 | | | | -10 |
| | | Psup (at Tdesign -10°C) | | | kW | 1.4 | | | | 0.0 |
| | Cold climate water outlet 35°C | General | Annual energy consumption | | kWh | 5,394 | | | 5,239 | 5,224 |
| ηs (Seasonal space heating efficiency) | | | | % | 162 | | | 166 | 167 | |
| Prated at -22°C | | | | | kW | | | | 9 | |
| Qhe Annual energy consumption (GCV) | | | | Gj | 19.4 | | | 18.9 | 18.8 | |
| A Condition (-7°C-D B/-8°CWB) | | COPd | | | | | | | 3.48 | |
| B Condition (2°C-D B/1°CWB) | Pdh | | | kW | | | | 5.4 | | |
| | PERd | | | % | | | | 139.2 | | |
| | Cdh (Degradation heating) | | | | | | | 1.0 | | |
| | COPd | | | | | | | 5.40 | | |
| C Condition (7°C-D B/6°CWB) | Pdh | | | kW | | | | 3.6 | | |
| | PERd | | | % | | | | 216.0 | | |
| | Cdh (Degradation heating) | | | | | | | 1.0 | | |
| | COPd | | | | | | | 6.53 | | |
| | Pdh | | | kW | | | | 5.3 | | |

2 Specifications

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| Technical specifications | | | | ELVH12S18E9W + ERRA08EW1 | ELVH12S23E9W + ERRA08EW1 | ELVH12S18E9W + ERRA10EW1 | ELVH12S23E9W + ERRA10EW1 | ELVH12S18E9W + ERRA12EW1 | ELVH12S23E9W + ERRA12EW1 | |
|--|---|--|--|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------|
| Space heating | Cold climate water outlet 35°C | C Condition (7°CDB/ B/6°CWB) | PERd | % | 261.2 | | | | | |
| | | | D Condition (12°CDB/ B/11°CWB) | Cdh (Degradation heating) | | 1.0 | | | | |
| | | | COPd | | 7.98 | | | | | |
| | | | Pdh | kW | 6.6 | | | | | |
| | | | PERd | % | 319.0 | | 319.2 | | | |
| | | Tol (tem- perature operating limit) | | COPd | | 2.11 | | 2.14 | | 2.16 |
| | | | | Pdh | kW | 4.9 | | 5.9 | | 6.5 |
| | | | | PERd | % | 84.3 | | 85.6 | | 86.4 |
| | | | | TOL | °C | -22 | | | | |
| | | | WTOL | °C | 35 | | | | | |
| | G Condition (-15°CDB/-) | | COPd | | 2.68 | | 2.64 | | | |
| | | | Pdh | kW | 6.0 | | 7.0 | | | |
| | | | PERd | % | 107.1 | | 105.6 | | | |
| | Tbiv (bivalent tempera- ture) | | COPd | | 2.95 | | 2.64 | | | |
| | | | Pdh | kW | 6.5 | | 7.0 | | | |
| | | | PERd | % | 118.1 | | 105.6 | | | |
| | | Tbiv | °C | -12 | | -15 | | | | |
| | Rated heat output sup- plementary capacity | | Psup (at Tdesign -22°C) | kW | 4.1 | | 3.1 | | 2.6 | |
| | Warm climate water outlet 35°C | General | | Annual energy consumption | kWh | 1,993 | | | | |
| | | | | ηs (Seasonal space heating efficiency) | % | 228 | | | | |
| | | | Prated at 2°C | kW | 8.6 | | | | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | 7 | | | | | |
| B Condition (2°CDB/ B/1°CWB) | | | Cdh (Degradation heating) | | 1.0 | | | | | |
| | | | COPd | | 4.17 | | | | | |
| | | | Pdh | kW | 6.8 | | | | | |
| | | | PERd | % | 166.8 | | | | | |
| C Condition (7°CDB/ B/6°CWB) | | | Cdh (Degradation heating) | | 1.0 | | | | | |
| | | | COPd | | 5.85 | | | | | |
| | | | Pdh | kW | 5.5 | | | | | |
| | | | PERd | % | 234.0 | | | | | |
| Tbiv (bivalent tempera- ture) | | | COPd | | 4.89 | | | | | |
| | | | Pdh | kW | 6.8 | | | | | |
| | | | PERd | % | 195.6 | | | | | |
| | | Tbiv | °C | 5 | | | | | | |
| D Condition (12°CDB/ B/11°CWB) | | Cdh (Degradation heating) | | 1.0 | | | | | | |
| | | COPd | | 7.78 | | | | | | |
| | | Pdh | kW | 6.1 | | | | | | |
| Space heating | Warm climate water outlet 35°C | D Condition (12°CDB/ B/11°CWB) | PERd | % | 311.2 | | | | | |

(1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C. (DT = 5°C) |

(3)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |

(4)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |

(5)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB

| Technical specifications | | | | ELVX12S18E6V + ERRA08EW1 | ELVX12S23E6V + ERRA08EW1 | ELVX12S18E6V + ERRA10EW1 | ELVX12S23E6V + ERRA10EW1 | ELVX12S18E6V + ERRA12EW1 | ELVX12S23E6V + ERRA12EW1 |
|--------------------------------|---------|------|-----|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Heating capacity | Min. | | kW | 3.45 (1) | | | | | |
| | Nom. | | kW | 6.17 (2) | | | | | |
| | Max. | | kW | 7.95 (1) | | 9.25 (1) | | 9.97 (1) | |
| Cooling capacity | Nom. | | kW | 6.81 (3) / 6.47 (4) | | 7.97 (3) / 6.47 (4) | | 8.62 (3) / 6.47 (4) | |
| Power input | Heating | Min. | kW | 0.70 (5) | | | | | |
| | | Nom. | kW | 1.21 (2) | | | | | |
| | | Max. | kW | 1.63 (5) | | 1.98 (5) | | 2.21 (5) | |
| | Cooling | Nom. | kW | 2.08 (3) / 1.13 (4) | | 2.57 (3) / 1.13 (4) | | 2.86 (3) / 1.13 (4) | |
| | | Nom. | kWh | 2.54 (6) | 3.09 (6) | 2.54 (6) | 3.09 (6) | 2.54 (6) | 3.09 (6) |
| Heat up time from 10°C to 50°C | | | hr | 1h 51min | 2h 10min | 1h 51min | 2h 10min | 1h 51min | 2h 10min |
| COP | | | | 5.10 (2) | | | | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELVX12S18E6V + ERRA08EW1 | ELVX12S23E6V + ERRA08EW1 | ELVX12S18E6V + ERRA10EW1 | ELVX12S23E6V + ERRA10EW1 | ELVX12S18E6V + ERRA12EW1 | ELVX12S23E6V + ERRA12EW1 | |
|--|---------------------------------|--|-------------------|--|---|---|---|---|---|--|
| EER | | | | 3.28 (3) / 5.75 (4) | | 3.10 (4) / 5.75 | | 3.01 (3) / 5.75 (4) | | |
| Pump | Type | | | | Grundfos UPM4L K 15-75 130 9 DK1 | | | | | |
| | Nominal ESP unit | Heating | kPa | 671 (7) | | | | | | |
| Water side Heat exchanger | Water flow rate | Heating | Nom. | l/min | | | 18.3 | | | |
| General | Supplier/Manufacturer details | Name and address | | Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium | | | | | | |
| | Product description | Name or trademark | | Daikin Europe N.V. | | | | | | |
| | | Air-to-water heat pump | | Yes | | | | | | |
| | | Brine-to-water heat pump | | No | | | | | | |
| | | Heat pump combination heater | | Yes | | | | | | |
| | | Low-temperature heat pump | | No | | | | | | |
| | | Supplementary heater integrated | | Yes | | | | | | |
| LW(A) Sound power level (according to EN14825) | Indoor | Water-to-water heat pump | dB(A) | 44.0 | | | | | | |
| | Outdoor | | | | 56.0 | | | | | |
| Sound condition Ecodesign and energy label | | | | Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825 | | | | | | |
| Tank | Name | | | Stainless steel domestic hot water tank 180 l | Stainless steel domestic hot water tank 230 L | Stainless steel domestic hot water tank 180 l | Stainless steel domestic hot water tank 230 L | Stainless steel domestic hot water tank 180 l | Stainless steel domestic hot water tank 230 L | |
| Space heating general | Air to water unit | Rated airflow (outdoor) | m ³ /h | 3,542 | | | | | | |
| | | Capacity control | Inverter | | | | | | | |
| | Other | Pck (Crankcase heater mode) | kW | 0.000 | | | | | | |
| | | Poff (Off mode) | kW | 0.027 | | | | | | |
| | | Psb (Standby mode) | kW | 0.027 | | | | | | |
| | | Pto (Thermostat off) | kW | 0.024 | | | | | | |
| Domestic hot water heating | General | Declared load profile | L | | | | | | | |
| Space heating general | Integrated supplementary heater | Psup | kW | 6.0 | | | | | | |
| | | Type of energy input | Electrical | | | | | | | |
| Domestic hot water heating | Average climate | AEC (Annual electricity consumption) | kWh | 851 | 787 | 851 | 787 | 851 | 787 | |
| | | COPdhw | | 2.80 | 3.05 | 2.80 | 3.05 | 2.80 | 3.05 | |
| | | Heat up time | | 1h 57min | 2h 14min | 1h 57min | 2h 14min | 1h 57min | 2h 14min | |
| | | η _{wh} (water heating efficiency) | % | 120 | 130 | 120 | 130 | 120 | 130 | |
| | | Qelec (Daily electricity consumption) | kWh | 4.160 | 3.830 | 4.160 | 3.830 | 4.160 | 3.830 | |
| | | Reference hot water temperature | °C | 53.0 | 52.0 | 53.0 | 52.0 | 53.0 | 52.0 | |
| | | Stand-by power input | W | 50.7 | 43.9 | 50.7 | 43.9 | 50.7 | 43.9 | |
| | Cold climate | Water heating energy efficiency class | | | A+ | | | | | |
| | | AEC (Annual electricity consumption) | kWh | 937 | 866 | 937 | 866 | 937 | 866 | |
| | | COPdhw | | 2.55 | 2.77 | 2.55 | 2.77 | 2.55 | 2.77 | |
| | | Heat up time | | 1h 55min | 2h 02min | 1h 55min | 2h 02min | 1h 55min | 2h 02min | |
| | | η _{wh} (water heating efficiency) | % | 109 | 118 | 109 | 118 | 109 | 118 | |
| | | Qelec (Daily electricity consumption) | kWh | 4.570 | 4.200 | 4.570 | 4.200 | 4.570 | 4.200 | |
| | | Reference hot water temperature | °C | 53.0 | 52.0 | 53.0 | 52.0 | 53.0 | 52.0 | |
| | Warm climate | Stand-by power input | W | 54.3 | 46.7 | 54.3 | 46.7 | 54.3 | 46.7 | |
| | | AEC (Annual electricity consumption) | kWh | 699 | 648 | 699 | 648 | 699 | 648 | |
| | | COPdhw | | 3.40 | 3.68 | 3.40 | 3.68 | 3.40 | 3.68 | |
| Heat up time | | | 1h 54min | 2h 06min | 1h 54min | 2h 06min | 1h 54min | 2h 06min | | |
| η _{wh} (water heating efficiency) | | % | 147 | 158 | 147 | 158 | 147 | 158 | | |
| Qelec (Daily electricity consumption) | | kWh | 3.430 | 3.160 | 3.430 | 3.160 | 3.430 | 3.160 | | |
| Reference hot water temperature | | °C | 53.0 | 52.0 | 53.0 | 52.0 | 53.0 | 52.0 | | |
| Stand-by power input | W | 44.6 | 39.0 | 44.6 | 39.0 | 44.6 | 39.0 | | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELVX12S18E6V + ERRA08EW1 | ELVX12S23E6V + ERRA08EW1 | ELVX12S18E6V + ERRA10EW1 | ELVX12S23E6V + ERRA10EW1 | ELVX12S18E6V + ERRA12EW1 | ELVX12S23E6V + ERRA12EW1 | | | |
|--|-----------------------------------|--|--|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------|--|--|
| Space heating | Average climate water outlet 55°C | General | Annual energy consumption | kWh | 7,442 | | 7,423 | | 7,210 | | | |
| | | | ηs (Seasonal space heating efficiency) | % | | 136 | | | 140 | | | |
| | | | Prated at -10°C | kW | | | 12.5 | | | | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | | 27 | | | 26 | | | |
| | | | SCOP | | 3.47 | | 3.48 | | 3.58 | | | |
| | | | Seasonal space heating eff. class | | | | A++ | | | | | |
| | | | A Condition (-7°C-D/B/-8°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | |
| | | | | COPd | | | 2.34 | | | | | |
| | | | | Pdh | kW | | 7.6 | | | | | |
| | | | | PERd | % | | 93.6 | | | | | |
| | | | B Condition (2°C-D/B/1°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | |
| | | | | COPd | | | 3.50 | | | | | |
| | | | | Pdh | kW | | 6.8 | | | | | |
| | | | | PERd | % | | 140.0 | | | | | |
| | | | C Condition (7°C-D/B/6°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | |
| | | | Space heating | Average climate water outlet 55°C | C Condition (7°C-D/B/6°CWB) | COPd | | | | 5.07 | | |
| | | | | | | Pdh | kW | | | 4.5 | | |
| PERd | % | | | | | | 202.8 | | | | | |
| D Condition (12°C-D/B/11°CWB) | Cdh (Degradation heating) | | | | | | 1.0 | | | | | |
| | COPd | | | | | | 6.23 | | | | | |
| | Pdh | kW | | | | | 5.2 | | | | | |
| | PERd | % | | | | | 249.2 | | | | | |
| Tol (temperature operating limit) | COPd | | | | | 2.04 | | | 2.06 | | | |
| | Pdh | kW | | | | 6.9 | | | 8.2 | | | |
| | PERd | % | | | | 81.6 | | | 82.4 | | | |
| | TOL | °C | | | | | | | -10 | | | |
| | WTOL | °C | | | | | | | 55 | | | |
| Rated heat output supplementary capacity | Psup (at Tdesign -10°C) | kW | | | | 5.6 | | | 4.3 | | | |
| | Tbiv (bivalent temperature) | COPd | | | | | 2.90 | | | 2.48 | | |
| Pdh | | kW | | | | | 8.5 | | 10.0 | | | |
| PERd | | % | | | | | 116.0 | | 99.2 | | | |
| Tbiv | | °C | | | | | -2 | | -5 | | | |
| Cold climate water outlet 55°C | General | Annual energy consumption | kWh | 7,028 | | 6,890 | | 6,861 | | | | |
| | | ηs (Seasonal space heating efficiency) | % | 123 | | | 126 | | | | | |
| | | Prated at -22°C | kW | | | 9.0 | | | | | | |
| | | Qhe Annual energy consumption (GCV) | Gj | | | 25 | | | | | | |
| | | A Condition (-7°C-D/B/-8°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | | |
| | | | COPd | | | 2.61 | | | | | | |
| | | | Pdh | kW | | 5.2 | | | | | | |
| | | | PERd | % | 104.2 | | | 104.4 | | | | |
| | | B Condition (2°C-D/B/1°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | | |
| | | | COPd | | | 3.90 | | | | | | |
| | | | Pdh | kW | | 3.3 | | | | | | |
| | | | PERd | % | | 156.0 | | | | | | |
| | | C Condition (7°C-D/B/6°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | | |
| | | | COPd | | | 4.96 | | | | | | |
| | | | Pdh | kW | | 3.4 | | | | | | |
| | | | PERd | % | | 198.3 | | | | | | |
| | | D Condition (12°C-D/B/11°CWB) | COPd | | | 6.56 | | | | | | |
| | Pdh | kW | | 4.2 | | | | | | | | |
| | PERd | % | | 262.5 | | | | | | | | |
| Tol (temperature operating limit) | COPd | | 1.49 | | | 1.56 | | 1.62 | | | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELVX12S18E6V + ERRA08EW1 | ELVX12S23E6V + ERRA08EW1 | ELVX12S18E6V + ERRA10EW1 | ELVX12S23E6V + ERRA10EW1 | ELVX12S18E6V + ERRA12EW1 | ELVX12S23E6V + ERRA12EW1 | |
|--------------------------|--|---|---|------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|
| Space heating | Cold climate water outlet 55°C | Tol (tem- perature operating limit) | Pdh | kW | 4.9 | | 6.1 | | 7.2 | |
| | | | PERd | % | 59.6 | | 62.3 | | 64.7 | |
| | | G Condition (-15°CDB/-) | WTOL | °C | | | | -22 | | |
| | | | COPd | | | 2.00 | | | 2.03 | |
| | | Tbiv (bivalent tempera- ture) | Pdh | kW | 6.0 | | | 7.2 | | |
| | | | PERd | % | 80.0 | | | 81.2 | | |
| | | Rated heat output sup- plementary capacity | COPd | | 2.25 | | | 2.03 | | |
| | | | Pdh | kW | 6.6 | | | 7.2 | | |
| | | Warm climate water outlet 55°C | General | PERd | % | 90.0 | | 81.2 | | |
| | | | | Tbiv | °C | -12 | | -15 | | |
| | Average climate water outlet 35°C | General | Psup (at Tdesign -22°C) | kW | 4.1 | | 2.9 | | 1.8 | |
| | | | Annual energy consumption | kWh | | | 2,853 | | | |
| | | | ηs (Seasonal space heating efficiency) | % | | | 177 | | | |
| | | | Prated at 2°C | kW | | | 9.6 | | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | | | 10 | | | |
| | | | B Condition (2°CDB- B/1°CWB) | Cdh (Degradation heating) | | | 1.0 | | | |
| | | | | COPd | | | 2.66 | | | |
| | | | | Pdh | kW | | | 8.0 | | |
| | | | | PERd | % | | 106.5 | | | |
| | | | | C Condition (7°CDB- B/6°CWB) | Cdh (Degradation heating) | | | 1.0 | | |
| | | | COPd | | | 3.79 | | | | |
| | | | Pdh | kW | | | 6.7 | | | |
| | | | PERd | % | | 151.5 | | | | |
| | | | D Condition (12°CDB- B/11°CWB) | Cdh (Degradation heating) | | | 1.0 | | | |
| | | | COPd | | | 5.87 | | | | |
| | | | Pdh | kW | | | 3.6 | | | |
| | | | PERd | % | | 234.9 | | | | |
| | | | Tbiv (bivalent tempera- ture) | COPd | | | 3.13 | | | |
| | | | Pdh | kW | | 8.4 | | | | |
| | | | PERd | % | | | 125.4 | | | |
| | | | Tbiv | °C | | 4 | | | | |
| | | | Annual energy consumption | kWh | 3,462 | | | 3,440 | | |
| | | | ηs (Seasonal space heating efficiency) | % | 195 | | | 196 | | |
| | | | Prated at -10°C | kW | | | 8.3 | | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | | | 12 | | | |
| | | | SCOP | | 4.95 | | | 4.98 | | |

2 Specifications

2 - 1 Specifications

2



| Technical specifications | | | | ELVX12S18E6V + ERRA08EW1 | ELVX12S23E6V + ERRA08EW1 | ELVX12S18E6V + ERRA10EW1 | ELVX12S23E6V + ERRA10EW1 | ELVX12S18E6V + ERRA12EW1 | ELVX12S23E6V + ERRA12EW1 | |
|---|---|---|-------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|
| Space heating Average climate water outlet 35°C | General | Seasonal space heating eff. class | | A+++ | | | | | | |
| | A Condition | COPd | | 3.20 | | | | | | |
| | B/-8°CWB) | Pdh | kW | | 7.5 | | | | | |
| | | PERd | % | | 128.0 | | | | | |
| | B Condition (2°C- B/1°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | |
| | | COPd | | | 4.93 | | | | | |
| | | Pdh | kW | | 4.4 | | | | | |
| | C Condition (7°C- B/6°CWB) | PERd | | | 197.2 | | | | | |
| | | Cdh (Degradation heating) | | | 1.0 | | | | | |
| | | COPd | | | 6.37 | | | | | |
| | D Condition (12°C- B/11°CWB) | Pdh | kW | | 4.3 | | | | | |
| | | PERd | | | 254.8 | | | | | |
| | | Cdh (Degradation heating) | | | 1.0 | | | | | |
| | Tol (tem- perature operating limit) | COPd | | | 2.90 | | | | 2.86 | |
| | | Pdh | kW | | 6.9 | | | | 8.1 | |
| | | PERd | | | 116.0 | | | | 114.4 | |
| | | TOL | | °C | -10 | | | | | |
| | Tbiv (bivalent tempera- ture) | WTOL | | | 35 | | | | | |
| | | COPd | | | 3.20 | | | | 2.86 | |
| | | Pdh | kW | | 7.5 | | | | 8.1 | |
| | | PERd | | | 128.0 | | | | 114.4 | |
| | Rated heat output sup- plementary capacity | Tbiv | | | -7 | | | | -10 | |
| | | Psup (at Tdesign -10°C) | | kW | 1.4 | | | | 0.0 | |
| Cold climate water outlet 35°C | General | Annual energy consumption | kWh | 5,334 | | 5,180 | | 5,165 | | |
| | | ηs (Seasonal space heating efficiency) | % | 163 | | 168 | | 169 | | |
| | | Prated at -22°C | kW | 9 | | | | | | |
| | | Qhe Annual energy consumption (GCV) | Gj | 19.2 | | | | 18.6 | | |
| | A Condition (-7°C- B/-8°CWB) | COPd | | | 3.48 | | | | | |
| | | Pdh | kW | | 5.4 | | | | | |
| | | PERd | | | 139.2 | | | | | |
| | B Condition (2°C- B/1°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | | |
| | | COPd | | | 5.40 | | | | | |
| | | Pdh | kW | | 3.6 | | | | | |
| PERd | | | 216.0 | | | | | | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELVX12S18E6V + ERRA08EW1 | ELVX12S23E6V + ERRA08EW1 | ELVX12S18E6V + ERRA10EW1 | ELVX12S23E6V + ERRA10EW1 | ELVX12S18E6V + ERRA12EW1 | ELVX12S23E6V + ERRA12EW1 | |
|--|---|---|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------|
| Space heating | Cold climate water outlet 35°C | C Condition (7°CDB- B/6°CWB) | Cdh (Degradation heating) | | | | | | 1.0 | |
| | | | COPd | | | | | | 6.53 | |
| | | | Pdh kW | | | | | | 5.3 | |
| | | | PERd % | | | | | | 261.2 | |
| | | D Condition (12°CDB- B/11°CWB) | Cdh (Degradation heating) | | | | | | | 1.0 |
| | | | COPd | | | | | | | 7.98 |
| | | | Pdh kW | | | | | | | 6.6 |
| | | | PERd % | | 319.0 | | | 319.2 | | |
| | | Tol (tem- perature operating limit) | COPd | | 2.11 | | | 2.14 | | 2.16 |
| | | | Pdh kW | | 4.9 | | | 5.9 | | 6.5 |
| | | | PERd % | | 84.3 | | | 85.6 | | 86.4 |
| | | | TOL °C | | | | | -22 | | |
| | G Condition (-15°CDB/-) | COPd | | 2.68 | | | | | 2.64 | |
| | | Pdh kW | | 6.0 | | | | | 7.0 | |
| | | PERd % | | 107.1 | | | | | 105.6 | |
| | | Tbiv COPd | | 2.95 | | | | | 2.64 | |
| | Tbiv (bivalent tempera- ture) | Pdh kW | | 6.5 | | | | | 7.0 | |
| | | PERd % | | 118.1 | | | | | 105.6 | |
| | | Tbiv °C | | -12 | | | | | -15 | |
| | | Rated heat output sup- plementary capacity | Psup (at Tdesign -22°C) kW | | 4.1 | | | 3.1 | | 2.6 |
| | Warm climate water outlet 35°C | General | Annual energy consumption | kWh | | | | | | 1,873 |
| | | | ηs (Seasonal space heating efficiency) | % | | | | | | 242 |
| | | | Prated at 2°C | kW | | | | | | 8.6 |
| | | | Qhe Annual energy consumption (GCV) | Gj | | | | | | 7 |
| B Condition (2°CDB- B/1°CWB) | | Cdh (Degradation heating) | | | | | | | 1.0 | |
| | | COPd | | | | | | | 4.17 | |
| | | Pdh kW | | | | | | | 6.8 | |
| | | PERd % | | | | | | | 166.8 | |
| C Condition (7°CDB- B/6°CWB) | | Cdh (Degradation heating) | | | | | | | 1.0 | |
| | | COPd | | | | | | | 5.85 | |
| | | Pdh kW | | | | | | | 5.5 | |
| | | PERd % | | | | | | | 234.0 | |
| Tbiv (bivalent tempera- ture) | COPd | | | | | | | 4.89 | | |
| | Pdh kW | | | | | | | 6.8 | | |
| | PERd % | | | | | | | 195.6 | | |
| | Tbiv °C | | | | | | | 5 | | |
| Space heating | Warm climate water outlet 35°C | D Condition (12°CDB- B/11°CWB) | Cdh (Degradation heating) | | | | | | 1.0 | |
| | | | COPd | | | | | | 7.78 | |
| | | | Pdh kW | | | | | | 6.1 | |
| | | | PERd % | | | | | | 311.2 | |

(1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(3)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

(4)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

(5)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |

(6)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |

(7)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed

| Technical specifications | | | | ELVX12S18E9W + ERRA08EW1 | ELVX12S23E9W + ERRA08EW1 | ELVX12S18E9W + ERRA10EW1 | ELVX12S23E9W + ERRA10EW1 | ELVX12S18E9W + ERRA12EW1 | ELVX12S23E9W + ERRA12EW1 | |
|--------------------------|---------|---|------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------|
| Heating capacity | Min. | | kW | | | | | | 3.45 (1) | |
| | Nom. | | kW | | | | | | 6.17 (2) | |
| | Max. | | kW | | 7.95 (1) | | | | 9.25 (1) | |
| Cooling capacity | Nom. | | kW | | 6.81 (3) / 6.47 (4) | | 7.97 (3) / 6.47 (4) | | 8.62 (3) / 6.47 (4) | |
| Power input | Heating | Min. | kW | | | | | | 0.70 (5) | |
| | | Nom. | kW | | | | | | 1.21 (2) | |
| | | Max. | kW | | 1.63 (5) | | | 1.98 (5) | | 2.21 (5) |
| | Cooling | Nom. | kW | | 2.08 (3) / 1.13 (4) | | 2.57 (3) / 1.13 (4) | | 2.86 (3) / 1.13 (4) | |
| | | Domestic hot water from 10°C to 50°C | Nom. | kWh | 2.54 (6) | 3.09 (6) | 2.54 (6) | 3.09 (6) | 2.54 (6) | 3.09 (6) |
| | | Heat up time from 10°C to 50°C | | hr | 1h 51min | 2h 10min | 1h 51min | 2h 10min | 1h 51min | 2h 10min |
| COP | | | | | | | | 5.10 (2) | | |
| EER | | | | | 3.28 (3) / 5.75 (4) | | 3.10 (4) / 5.75 | | 3.01 (3) / 5.75 (4) | |

2 Specifications

2 - 1 Specifications

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| Technical specifications | | | | ELVX12S18E9W + ERRA08EW1 | ELVX12S23E9W + ERRA08EW1 | ELVX12S18E9W + ERRA10EW1 | ELVX12S23E9W + ERRA10EW1 | ELVX12S18E9W + ERRA12EW1 | ELVX12S23E9W + ERRA12EW1 | | |
|--|---------------------------------|--|--|--|---|---|---|---|---|----------|--|
| Pump | Type | Grundfos UPM4L K 15-75 130 9 DK1 | | | | | | | | | |
| | Nominal ESP Heating unit | kPa | 67.1 (7) | | | | | | | | |
| Water side Heat exchanger | Water flow rate | Heating Nom. | l/min | 18.3 | | | | | | | |
| General | Supplier/Manufacturer details | Name and address | | Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium | | | | | | | |
| | | Name or trademark | | Daikin Europe N.V. | | | | | | | |
| | Product description | Air-to-water heat pump | | | Yes | | | | | | |
| | | Brine-to-water heat pump | | | No | | | | | | |
| | | Heat pump combination heater | | | Yes | | | | | | |
| | | Low-temperature heat pump | | | No | | | | | | |
| | | Supplementary heater integrated | | | Yes | | | | | | |
| Water-to-water heat pump | | | No | | | | | | | | |
| LW(A) Sound power level (according to EN14825) | Indoor | | dB(A) | 44.0 | | | | | | | |
| LW(A) Sound power level (according to EN14825) | Outdoor | | dB(A) | 56.0 | | | | | | | |
| Sound condition Ecodesign and energy label | | | | Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825 | | | | | | | |
| Tank | Name | | | Stainless steel domestic hot water tank 180 l | Stainless steel domestic hot water tank 230 L | Stainless steel domestic hot water tank 180 l | Stainless steel domestic hot water tank 230 L | Stainless steel domestic hot water tank 180 l | Stainless steel domestic hot water tank 230 L | | |
| | | Space heating general | Air to water unit | Rated airflow (outdoor) | m ³ /h | 3,542 | | | | | |
| | | | Other | Capacity control | | Inverter | | | | | |
| | | | | Pck (Crankcase heater mode) | kW | 0.000 | | | | | |
| | | | | Poff (Off mode) | kW | 0.027 | | | | | |
| | | | | Psb (Standby mode) | kW | 0.027 | | | | | |
| | | Pto (Thermostat off) | kW | 0.024 | | | | | | | |
| Domestic hot water heating | General | Declared load profile | | L | | | | | | | |
| Space heating general | Integrated supplementary heater | Psup | kW | 9.0 | | | | | | | |
| | | Type of energy input | | Electrical | | | | | | | |
| Domestic hot water heating | Average climate | AEC (Annual electricity consumption) | kWh | 851 | 787 | 851 | 787 | 851 | 787 | | |
| | | COPdhw | | 2.80 | 3.05 | 2.80 | 3.05 | 2.80 | 3.05 | | |
| | | Heat up time | | 1h 57min | 2h 14min | 1h 57min | 2h 14min | 1h 57min | 2h 14min | | |
| | | η _{wh} (water heating efficiency) | % | 120 | 130 | 120 | 130 | 120 | 130 | | |
| | | Qelec (Daily electricity consumption) | kWh | 4.160 | 3.830 | 4.160 | 3.830 | 4.160 | 3.830 | | |
| | | Reference hot water temperature | °C | 53.0 | 52.0 | 53.0 | 52.0 | 53.0 | 52.0 | | |
| | | Stand-by power input | W | 50.7 | 43.9 | 50.7 | 43.9 | 50.7 | 43.9 | | |
| | | Water heating energy efficiency class | | A+ | | | | | | | |
| | | Cold climate | AEC (Annual electricity consumption) | kWh | 937 | 866 | 937 | 866 | 937 | 866 | |
| | | | COPdhw | | 2.55 | 2.77 | 2.55 | 2.77 | 2.55 | 2.77 | |
| | | | Heat up time | | 1h 55min | 2h 02min | 1h 55min | 2h 02min | 1h 55min | 2h 02min | |
| | | | η _{wh} (water heating efficiency) | % | 109 | 118 | 109 | 118 | 109 | 118 | |
| | | | Qelec (Daily electricity consumption) | kWh | 4.570 | 4.200 | 4.570 | 4.200 | 4.570 | 4.200 | |
| | | | Reference hot water temperature | °C | 53.0 | 52.0 | 53.0 | 52.0 | 53.0 | 52.0 | |
| | | Warm climate | Stand-by power input | W | 54.3 | 46.7 | 54.3 | 46.7 | 54.3 | 46.7 | |
| AEC (Annual electricity consumption) | kWh | | 699 | 648 | 699 | 648 | 699 | 648 | | | |
| COPdhw | | | 3.40 | 3.68 | 3.40 | 3.68 | 3.40 | 3.68 | | | |
| Heat up time | | | 1h 54min | 2h 06min | 1h 54min | 2h 06min | 1h 54min | 2h 06min | | | |
| η _{wh} (water heating efficiency) | % | | 147 | 158 | 147 | 158 | 147 | 158 | | | |
| Qelec (Daily electricity consumption) | kWh | | 3.430 | 3.160 | 3.430 | 3.160 | 3.430 | 3.160 | | | |
| | Reference hot water temperature | °C | 53.0 | 52.0 | 53.0 | 52.0 | 53.0 | 52.0 | | | |
| | Stand-by power input | W | 44.6 | 39.0 | 44.6 | 39.0 | 44.6 | 39.0 | | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELVX12S18E9W + ERRA08EW1 | ELVX12S23E9W + ERRA08EW1 | ELVX12S18E9W + ERRA10EW1 | ELVX12S23E9W + ERRA10EW1 | ELVX12S18E9W + ERRA12EW1 | ELVX12S23E9W + ERRA12EW1 | | |
|--|---------------------------|--|---------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|--|
| Space heating Average climate water outlet 55°C | General | Annual energy consumption | kWh | 7,442 | | 7,423 | | 7,210 | | | |
| | | ηs (Seasonal space heating efficiency) | % | | 136 | | | | 140 | | |
| | | Prated at -10°C | kW | | | | 12.5 | | | | |
| | | Qhe Annual energy consumption (GCV) | Gj | | 27 | | | | 26 | | |
| | | SCOP | | | 3.47 | | 3.48 | | 3.58 | | |
| | | Seasonal space heating eff. class | | | | | A++ | | | | |
| | | A Condition (-7°C-D- B/-8°CWB) | Cdh (Degradation heating) | | | | 1.0 | | | | |
| | | | COPd | | | | 2.34 | | | | |
| | | | Pdh | kW | | | 7.6 | | | | |
| | | | PERd | % | | | 93.6 | | | | |
| | | B Condition (2°C-D- B/1°CWB) | Cdh (Degradation heating) | | | | 1.0 | | | | |
| | | | COPd | | | | 3.50 | | | | |
| | | | Pdh | kW | | | 6.8 | | | | |
| | | | PERd | % | | | 140.0 | | | | |
| | | C Condition (7°C-D- B/6°CWB) | Cdh (Degradation heating) | | | | 1.0 | | | | |
| | | Space heating Average climate water outlet 55°C | General | COPd | | | | 5.07 | | | |
| | | | | Pdh | kW | | | 4.5 | | | |
| PERd | % | | | | | 202.8 | | | | | |
| D Condition (12°C-D- B/11°CWB) | Cdh (Degradation heating) | | | | | | 1.0 | | | | |
| | COPd | | | | | | 6.23 | | | | |
| | Pdh | | | kW | | | 5.2 | | | | |
| | PERd | | | % | | | 249.2 | | | | |
| Tol (temperature operating limit) | COPd | | | | 2.04 | | | 2.06 | | | |
| | Pdh | | | kW | 6.9 | | | 8.2 | | | |
| | PERd | | | % | 81.6 | | | 82.4 | | | |
| | TOL | | | °C | | | | -10 | | | |
| | WTOL | | | °C | | | | 55 | | | |
| Rated heat output supplementary capacity | Psup (at Tdesign -10°C) | | | kW | 5.6 | | | 4.3 | | | |
| Tbiv (bivalent temperature) | COPd | | | | | 2.90 | | | 2.48 | | |
| | Pdh | | | kW | | 8.5 | | | 10.0 | | |
| | PERd | | | % | | 116.0 | | | 99.2 | | |
| | Tbiv | | | °C | | -2 | | | -5 | | |
| Cold climate water outlet 55°C | General | Annual energy consumption | kWh | 7,028 | | 6,890 | | 6,861 | | | |
| | | ηs (Seasonal space heating efficiency) | % | 123 | | | 126 | | | | |
| | | Prated at -22°C | kW | | | | 9.0 | | | | |
| | | Qhe Annual energy consumption (GCV) | Gj | | | | 25 | | | | |
| | | A Condition (-7°C-D- B/-8°CWB) | Cdh (Degradation heating) | | | | 1.0 | | | | |
| | | | COPd | | | | 2.61 | | | | |
| | | | Pdh | kW | | | 5.2 | | | | |
| | | | PERd | % | 104.2 | | | 104.4 | | | |
| | | B Condition (2°C-D- B/1°CWB) | Cdh (Degradation heating) | | | | 1.0 | | | | |
| | | | COPd | | | | 3.90 | | | | |
| | | | Pdh | kW | | | 3.3 | | | | |
| | | | PERd | % | | | 156.0 | | | | |
| | | C Condition (7°C-D- B/6°CWB) | Cdh (Degradation heating) | | | | 1.0 | | | | |
| | | | COPd | | | | 4.96 | | | | |
| | | | Pdh | kW | | | 3.4 | | | | |
| | | | PERd | % | | | 198.3 | | | | |
| | | D Condition (12°C-D- B/11°CWB) | COPd | | | | 6.56 | | | | |
| | Pdh | kW | | | 4.2 | | | | | | |
| | PERd | % | | | 262.5 | | | | | | |
| Tol (temperature operating limit) | COPd | | 1.49 | | | 1.56 | | 1.62 | | | |

2 Specifications


2 - 1 Specifications

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| Technical specifications | | | | ELVX12S18E9W + ERRA08EW1 | ELVX12S23E9W + ERRA08EW1 | ELVX12S18E9W + ERRA10EW1 | ELVX12S23E9W + ERRA10EW1 | ELVX12S18E9W + ERRA12EW1 | ELVX12S23E9W + ERRA12EW1 | |
|---|---|---|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|
| Space heating Cold climate water outlet 55°C | Tol (tem- perature operating limit) | Pdh | kW | 4.9 | | 6.1 | | 7.2 | | |
| | | PERd | % | 59.6 | | 62.3 | | 64.7 | | |
| | | TOL | °C | | | -22 | | | | |
| | | WTOL | °C | | | 55 | | | | |
| | G Condition (-15°CDB/-) | COPd | | 2.00 | | | 2.03 | | | |
| | | Pdh | kW | 6.0 | | 7.2 | | | | |
| | | PERd | % | 80.0 | | 81.2 | | | | |
| | Tbiv (bivalent tempera- ture) | COPd | | 2.25 | | 2.03 | | | | |
| | | Pdh | kW | 6.6 | | 7.2 | | | | |
| | | PERd | % | 90.0 | | 81.2 | | | | |
| | Rated heat output sup- plementary capacity | Psup (at Tdesign -22°C) | kW | 4.1 | | 2.9 | | 1.8 | | |
| | | | | | | | | | | |
| | Warm climate water outlet 55°C | General | Annual energy consumption | kWh | | | 2,853 | | | |
| | | | ηs (Seasonal space heating efficiency) | % | | | 177 | | | |
| | | | Prated at 2°C | kW | | | 9.6 | | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | | | 10 | | | |
| | | B Condition (2°CDB- B/1°CWB) | Cdh (Degradation heating) | COPd | | | | 1.0 | | |
| | | | | Pdh | kW | | | 2.66 | | |
| | | | | PERd | % | | | 8.0 | | |
| | | | | | | | | 106.5 | | |
| C Condition (7°CDB- B/6°CWB) | | Cdh (Degradation heating) | COPd | | | | 1.0 | | | |
| | | | Pdh | kW | | | 3.79 | | | |
| | | | PERd | % | | | 6.7 | | | |
| | | | | | | | 151.5 | | | |
| D Condition (12°CDB- B/11°CWB) | | Cdh (Degradation heating) | COPd | | | | 1.0 | | | |
| | | | Pdh | kW | | | 5.87 | | | |
| | | | PERd | % | | | 3.6 | | | |
| | | | | | | | 234.9 | | | |
| Tbiv (bivalent tempera- ture) | | COPd | | | | | 3.13 | | | |
| | | | Pdh | kW | | | 8.4 | | | |
| | | | PERd | % | | | 125.4 | | | |
| | | | Tbiv | °C | | | 4 | | | |
| Average climate water outlet 35°C | General | Annual energy consumption | kWh | 3,462 | | 3,440 | | | | |
| | | ηs (Seasonal space heating efficiency) | % | 195 | | 196 | | | | |
| | | Prated at -10°C | kW | | | 8.3 | | | | |
| | | Qhe Annual energy consumption (GCV) | Gj | | | 12 | | | | |
| | | SCOP | | 4.95 | | 4.98 | | | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELVX12S18E9W + ERRA08EW1 | ELVX12S23E9W + ERRA08EW1 | ELVX12S18E9W + ERRA10EW1 | ELVX12S23E9W + ERRA10EW1 | ELVX12S18E9W + ERRA12EW1 | ELVX12S23E9W + ERRA12EW1 | | |
|--|-----------------------------------|--|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------|--|
| Space heating  | Average climate water outlet 35°C | General | Seasonal space heating eff. class | A+++ | | | | | | | |
| | | A Condition | COPd | 3.20 | | | | | | | |
| | | B/-8°CWB) | Pdh | kW | 7.5 | | | | | | |
| | | | PERd | % | 128.0 | | | | | | |
| | | | B Condition | Cdh (Degradation heating) | 1.0 | | | | | | |
| | | (2°C- B/1°CWB) | COPd | 4.93 | | | | | | | |
| | | | Pdh | kW | 4.4 | | | | | | |
| | | | PERd | % | 197.2 | | | | | | |
| | | C Condition | Cdh (Degradation heating) | 1.0 | | | | | | | |
| | | | (7°C- B/6°CWB) | COPd | 6.37 | | | | | | |
| | | | Pdh | kW | 4.3 | | | | | | |
| | | D Condition | PERd | % | 254.8 | | | | | | |
| | | | Cdh (Degradation heating) | 1.0 | | | | | | | |
| | | | (12°C- B/11°CWB) | COPd | 8.13 | | | | | | |
| | | Tol (tem- perature operating limit) | Pdh | kW | 6.6 | | | | | | |
| | | | PERd | % | 325.2 | | | | | | |
| | | | TOL | °C | -10 | | | | | | |
| | | Tbiv (bivalent tempera- ture) | WTOL | °C | 35 | | | | | | |
| | | | COPd | | | 2.90 | | | 2.86 | | |
| | | | Pdh | kW | 6.9 | | | | 8.1 | | |
| | | Rated heat output supplementary capacity | PERd | % | 116.0 | | | | 114.4 | | |
| | | | Tbiv | °C | | | | | | | |
| | | | WTOL | °C | | | | | | | |
| | | Cold climate water outlet 35°C | General | Annual energy consumption | kWh | 5,334 | | 5,180 | | 5,165 | |
| ηs (Seasonal space heating efficiency) | % | | | 163 | | 168 | | 169 | | | |
| Prated at -22°C | kW | | | 9 | | | | | | | |
| Qhe Annual energy consumption (GCV) | Gj | | | 19.2 | | | | 18.6 | | | |
| A Condition | COPd | | | 3.48 | | | | | | | |
| (-7°C- B/-8°CWB) | Pdh | | kW | 5.4 | | | | | | | |
| | PERd | | % | 139.2 | | | | | | | |
| | B Condition | | Cdh (Degradation heating) | 1.0 | | | | | | | |
| (2°C- B/1°CWB) | COPd | | 5.40 | | | | | | | | |
| | Pdh | | kW | 3.6 | | | | | | | |
| | PERd | | % | 216.0 | | | | | | | |

2 Specifications

2 - 1 Specifications

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| Technical specifications | | | | ELVX12S18E9W + ERRA08EW1 | ELVX12S23E9W + ERRA08EW1 | ELVX12S18E9W + ERRA10EW1 | ELVX12S23E9W + ERRA10EW1 | ELVX12S18E9W + ERRA12EW1 | ELVX12S23E9W + ERRA12EW1 |
|--|---|--------------------------------------|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Space heating | Cold climate water outlet 35°C | C Condition (7°CDB- B/6°CWB) | Cdh (Degradation heating) | 1.0 | | | | | |
| | | | COPd | 6.53 | | | | | |
| | | | Pdh kW | 5.3 | | | | | |
| | | PERd % | 261.2 | | | | | | |
| | | D Condition (12°CDB- B/11°CWB) | Cdh (Degradation heating) | 1.0 | | | | | |
| | | | COPd | 7.98 | | | | | |
| | Pdh kW | | 6.6 | | | | | | |
| | Tol (tem- perature operating limit) | | PERd % | 319.0 | | 319.2 | | 2.16 | |
| | | | COPd | 2.11 | | 2.14 | | 2.16 | |
| | | | Pdh kW | 4.9 | | 5.9 | | 6.5 | |
| | | | PERd % | 84.3 | | 85.6 | | 86.4 | |
| | | | TOL °C | -22 | | | | | |
| | G Condition (-15°CDB/-) | | WTOL °C | 35 | | | | | |
| | | | COPd | 2.68 | | 2.64 | | | |
| | | | Pdh kW | 6.0 | | 7.0 | | | |
| | Tbiv (bivalent tempera- ture) | | PERd % | 107.1 | | 105.6 | | | |
| | | | COPd | 2.95 | | 2.64 | | | |
| | | | Pdh kW | 6.5 | | 7.0 | | | |
| | | | PERd % | 118.1 | | 105.6 | | | |
| | Rated heat output sup- plementary capacity | | Tbiv °C | -12 | | -15 | | | |
| | | | Psup (at Tdesign -22°C) kW | 4.1 | | 3.1 | | 2.6 | |
| | Warm climate water outlet 35°C | General | Annual energy consumption kWh | 1,873 | | | | | |
| | | | ηs (Seasonal space heating efficiency) % | 242 | | | | | |
| | | | Prated at 2°C kW | 8.6 | | | | | |
| Qhe Annual energy consumption (GCV) GJ | | | 7 | | | | | | |
| B Condition (2°CDB- B/1°CWB) | | | Cdh (Degradation heating) | 1.0 | | | | | |
| | | | COPd | 4.17 | | | | | |
| | | | Pdh kW | 6.8 | | | | | |
| | | | PERd % | 166.8 | | | | | |
| C Condition (7°CDB- B/6°CWB) | | | Cdh (Degradation heating) | 1.0 | | | | | |
| | | | COPd | 5.85 | | | | | |
| | Pdh kW | | 5.5 | | | | | | |
| | PERd % | | 234.0 | | | | | | |
| Tbiv (bivalent tempera- ture) | | COPd | 4.89 | | | | | | |
| | | Pdh kW | 6.8 | | | | | | |
| | | PERd % | 195.6 | | | | | | |
| | | Tbiv °C | 5 | | | | | | |
| Space heating | Warm climate water outlet 35°C | D Condition (12°CDB- B/11°CWB) | Cdh (Degradation heating) | 1.0 | | | | | |
| | | | COPd | 7.78 | | | | | |
| | | | Pdh kW | 6.1 | | | | | |
| | | | PERd % | 311.2 | | | | | |

(1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(3)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

(4)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

(5)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |

(6)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |

(7)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed

| Technical specifications | | | | ELVZ12S18E6V + ERRA08EW1 | ELVZ12S23E6V + ERRA08EW1 | ELVZ12S18E6V + ERRA10EW1 | ELVZ12S23E6V + ERRA10EW1 | ELVZ12S18E6V + ERRA12EW1 | ELVZ12S23E6V + ERRA12EW1 |
|--------------------------------|--------------------------------------|------|----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Heating capacity | Min. | | kW | 3.45 (1) | | | | | |
| | Nom. | | kW | 6.17 (2) | | | | | |
| | Max. | | kW | 7.95 (1) | | 9.25 (1) | | 9.97 (1) | |
| Power input | Heating | Min. | kW | 0.70 (3) | | | | | |
| | | Nom. | kW | 1.21 (2) | | | | | |
| | | Max. | kW | 1.63 (3) | | 1.98 (3) | | 2.21 (3) | |
| | Domestic hot water from 10°C to 50°C | Nom. | kWh | 2.54 (4) | 3.09 (4) | 2.54 (4) | 3.09 (4) | 2.54 (4) | 3.09 (4) |
| Heat up time from 10°C to 50°C | | hr | 1h 51min | 2h 10min | 1h 51min | 2h 10min | 1h 51min | 2h 10min | |
| COP | | | 5.10 (2) | | | | | | |
| Pump | Type | | Grundfos UPM4L K 15-75 130 9 DKI | | | | | | |
| Pump Additional Zone | Nominal ESP Heating unit | | kPa | 61.4 (5) | | | | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELVZ12S18E6V + ERRA08EW1 | ELVZ12S23E6V + ERRA08EW1 | ELVZ12S18E6V + ERRA10EW1 | ELVZ12S23E6V + ERRA10EW1 | ELVZ12S18E6V + ERRA12EW1 | ELVZ12S23E6V + ERRA12EW1 |
|--|---------------------------------|--|---|--|---|---|---|---|---|
| Pump Main Zone | Nominal ESP unit | Heating | kPa | 59.5 (5) | | | | | |
| Water side Heat exchanger | Water flow rate | Heating Nom. | l/min | 18.3 | | | | | |
| General | Supplier/Manufacturer details | Name and address | Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium | | | | | | |
| | | Name or trademark | Daikin Europe N.V. | | | | | | |
| | Product description | Air-to-water heat pump | Yes | | | | | | |
| | | Brine-to-water heat pump | No | | | | | | |
| | | Heat pump combination heater | Yes | | | | | | |
| | | Low-temperature heat pump | No | | | | | | |
| | | Supplementary heater integrated | Yes | | | | | | |
| Water-to-water heat pump | No | | | | | | | | |
| LW(A) Sound power level (according to EN14825) | Indoor | | dB(A) | 44.0 | | | | | |
| LW(A) Sound power level (according to EN14825) | Outdoor | | dB(A) | 56.0 | | | | | |
| Sound condition Ecodesign and energy label | | | | Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825 | | | | | |
| Tank | Name | | | Stainless steel domestic hot water tank 180 l | Stainless steel domestic hot water tank 230 L | Stainless steel domestic hot water tank 180 l | Stainless steel domestic hot water tank 230 L | Stainless steel domestic hot water tank 180 l | Stainless steel domestic hot water tank 230 L |
| Space heating general | Air to water unit | Rated airflow (outdoor) | m ³ /h | 3,542 | | | | | |
| | Other | Capacity control | | Inverter | | | | | |
| | | Pck (Crankcase heater mode) | kW | 0.000 | | | | | |
| | | Poff (Off mode) | kW | 0.027 | | | | | |
| | | Psb (Standby mode) | kW | 0.027 | | | | | |
| | | Pto (Thermostat off) | kW | 0.024 | | | | | |
| Domestic hot water heating | General | Declared load profile | | L | | | | | |
| Space heating general | Integrated supplementary heater | Psup | kW | 6.0 | | | | | |
| | | Type of energy input | | Electrical | | | | | |
| Domestic hot water heating | Average climate | AEC (Annual electricity consumption) | kWh | 851 | 787 | 851 | 787 | 851 | 787 |
| | | COPdhw | | 2.80 | 3.05 | 2.80 | 3.05 | 2.80 | 3.05 |
| Domestic hot water heating | Average climate | Heat up time | | 1h 57min | 2h 14min | 1h 57min | 2h 14min | 1h 57min | 2h 14min |
| | | η _{wh} (water heating efficiency) | % | 120 | 130 | 120 | 130 | 120 | 130 |
| | | Qelec (Daily electricity consumption) | kWh | 4.160 | 3.830 | 4.160 | 3.830 | 4.160 | 3.830 |
| | | Reference hot water temperature | °C | 53.0 | 52.0 | 53.0 | 52.0 | 53.0 | 52.0 |
| | | Stand-by power input | W | 50.7 | 43.9 | 50.7 | 43.9 | 50.7 | 43.9 |
| | | Water heating energy efficiency class | | A+ | | | | | |
| | Cold climate | AEC (Annual electricity consumption) | kWh | 937 | 866 | 937 | 866 | 937 | 866 |
| | | COPdhw | | 2.55 | 2.77 | 2.55 | 2.77 | 2.55 | 2.77 |
| | | Heat up time | | 1h 55min | 2h 02min | 1h 55min | 2h 02min | 1h 55min | 2h 02min |
| | | η _{wh} (water heating efficiency) | % | 109 | 118 | 109 | 118 | 109 | 118 |
| | | Qelec (Daily electricity consumption) | kWh | 4.570 | 4.200 | 4.570 | 4.200 | 4.570 | 4.200 |
| | | Reference hot water temperature | °C | 53.0 | 52.0 | 53.0 | 52.0 | 53.0 | 52.0 |
| | Warm climate | Stand-by power input | W | 54.3 | 46.7 | 54.3 | 46.7 | 54.3 | 46.7 |
| AEC (Annual electricity consumption) | | kWh | 699 | 648 | 699 | 648 | 699 | 648 | |
| COPdhw | | | 3.40 | 3.68 | 3.40 | 3.68 | 3.40 | 3.68 | |
| Heat up time | | | 1h 54min | 2h 06min | 1h 54min | 2h 06min | 1h 54min | 2h 06min | |
| η _{wh} (water heating efficiency) | | % | 147 | 158 | 147 | 158 | 147 | 158 | |
| Qelec (Daily electricity consumption) | | kWh | 3.430 | 3.160 | 3.430 | 3.160 | 3.430 | 3.160 | |
| Reference hot water temperature | | °C | 53.0 | 52.0 | 53.0 | 52.0 | 53.0 | 52.0 | |
| Stand-by power input | W | 44.6 | 39.0 | 44.6 | 39.0 | 44.6 | 39.0 | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELVZ12S18E6V + ERRA08EW1 | ELVZ12S23E6V + ERRA08EW1 | ELVZ12S18E6V + ERRA10EW1 | ELVZ12S23E6V + ERRA10EW1 | ELVZ12S18E6V + ERRA12EW1 | ELVZ12S23E6V + ERRA12EW1 | |
|--|-----------------------------------|-----------------------------|--|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------|
| Space heating | Average climate water outlet 55°C | General | Annual energy consumption | kWh | 7,541 | | 7,522 | | 7,309 | |
| | | | ηs (Seasonal space heating efficiency) | % | | 134 | | | 138 | |
| | | | Prated at -10°C | kW | | | 12.5 | | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | | 27 | | | 26 | |
| | | | SCOP | | 3.42 | | 3.43 | | 3.53 | |
| | | | Seasonal space heating eff. class | | | | A++ | | | |
| | | A Condition (-7°CDB/-8°CWB) | Cdh (Degradation heating) | | | | 1.0 | | | |
| | | | COPd | | | | 2.34 | | | |
| | | | Pdh | kW | | | 7.6 | | | |
| | | | PERd | % | | | 93.6 | | | |
| | | B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | | | 1.0 | | | |
| | | | COPd | | | | 3.50 | | | |
| | | | Pdh | kW | | | 6.8 | | | |
| | | | PERd | % | | | 140.0 | | | |
| | | C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | | | 1.0 | | | |
| | | | COPd | | | | 5.07 | | | |
| | | | Pdh | kW | | | 4.5 | | | |
| | | | PERd | % | | | 202.8 | | | |
| | | Space heating | Average climate water outlet 55°C | D Condition (12°CDB/11°CWB) | Cdh (Degradation heating) | | | | 1.0 | |
| | COPd | | | | | | 6.23 | | | |
| | Pdh | | | kW | | | 5.2 | | | |
| | PERd | | | % | | | 249.2 | | | |
| Tol (temperature operating limit) | COPd | | | | 2.04 | | | 2.06 | | |
| | Pdh | | | kW | 6.9 | | | 8.2 | | |
| | PERd | | | % | 81.6 | | | 82.4 | | |
| | TOL | | | °C | | | | -10 | | |
| | WTOL | | | °C | | | | 55 | | |
| Rated heat output supplementary capacity | Psup (at Tdesign -10°C) | | | kW | 5.6 | | | 4.3 | | |
| Tbiv (bivalent temperature) | COPd | | | | | 2.90 | | | 2.48 | |
| | Pdh | | | kW | | 8.5 | | | 10.0 | |
| | PERd | | | % | | 116.0 | | | 99.2 | |
| | Tbiv | | | °C | | -2 | | | -5 | |
| Cold climate water outlet 55°C | General | | | Annual energy consumption | kWh | 7,088 | | 6,950 | | 6,921 |
| | | | | ηs (Seasonal space heating efficiency) | % | 122 | | | 125 | |
| | | | | Prated at -22°C | kW | | | 9.0 | | |
| | | | | Qhe Annual energy consumption (GCV) | Gj | 26 | | | 25 | |
| | | | | A Condition (-7°CDB/-8°CWB) | Cdh (Degradation heating) | | | | 1.0 | |
| | | | COPd | | | | 2.61 | | | |
| | | | Pdh | kW | | | 5.2 | | | |
| | | | PERd | % | 104.2 | | | 104.4 | | |
| | | B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | | | 1.0 | | | |
| | | | COPd | | | | 3.90 | | | |
| | | | Pdh | kW | | | 3.3 | | | |
| | | | PERd | % | | | 156.0 | | | |
| | | C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | | | 1.0 | | | |
| | | | COPd | | | | 4.96 | | | |
| | | | Pdh | kW | | | 3.4 | | | |
| | | | PERd | % | | | 198.3 | | | |
| | | D Condition (12°CDB/11°CWB) | COPd | | | | 6.56 | | | |
| | | | Pdh | kW | | | 4.2 | | | |
| | | | PERd | % | | | 262.5 | | | |
| Tol (temperature operating limit) | COPd | | 1.49 | | 1.56 | | 1.62 | | | |
| | Pdh | kW | 4.9 | | 6.1 | | 7.2 | | | |
| | PERd | % | 59.6 | | 62.3 | | 64.7 | | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELVZ12S18E6V + ERRA08EW1 | ELVZ12S23E6V + ERRA08EW1 | ELVZ12S18E6V + ERRA10EW1 | ELVZ12S23E6V + ERRA10EW1 | ELVZ12S18E6V + ERRA12EW1 | ELVZ12S23E6V + ERRA12EW1 | |
|--|---|--|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|
| Space heating | Cold climate water outlet 55°C | Tol (tem- perature operating limit) | TOL °C | | | | -22 | | | |
| | | | WTOL °C | | | | 55 | | | |
| | G Condition (-15°CDB/-) | COPd | | | 2.00 | | | 2.03 | | |
| | | Pdh | kW | | 6.0 | | | 7.2 | | |
| | | PERd | % | | 80.0 | | | 81.2 | | |
| | Tbiv (bivalent tempera- ture) | COPd | | | 2.25 | | | 2.03 | | |
| | | Pdh | kW | | 6.6 | | | 7.2 | | |
| | | PERd | % | | 90.0 | | | 81.2 | | |
| | | Tbiv | °C | | -12 | | | -15 | | |
| | Rated heat output sup- plementary capacity | Psup (at Tdesign -22°C) | kW | | 4.1 | | 2.9 | | 1.8 | |
| | Warm climate water outlet 55°C | General | Annual energy consumption | kWh | | | | 2,972 | | |
| | | | ηs (Seasonal space heating efficiency) | % | | | | 170 | | |
| | | | Prated at 2°C | kW | | | | 9.6 | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | | | | 11 | | |
| B Condition (2°CDB- B/1°CWB) | | Cdh (Degradation heating) | | | | | 1.0 | | | |
| | | COPd | | | | | 2.66 | | | |
| | | Pdh | kW | | | | 8.0 | | | |
| | | PERd | % | | | | 106.5 | | | |
| C Condition (7°CDB- B/6°CWB) | | Cdh (Degradation heating) | | | | | 1.0 | | | |
| | | COPd | | | | | 3.79 | | | |
| | | Pdh | kW | | | | 6.7 | | | |
| | | PERd | % | | | | 151.5 | | | |
| D Condition (12°CDB- B/11°CWB) | | Cdh (Degradation heating) | | | | | 1.0 | | | |
| | | COPd | | | | | 5.87 | | | |
| | Pdh | kW | | | | 3.6 | | | | |
| | PERd | % | | | | 234.9 | | | | |
| Tbiv (bivalent tempera- ture) | COPd | | | | | 3.13 | | | | |
| | Pdh | kW | | | | 8.4 | | | | |
| | PERd | % | | | | 125.4 | | | | |
| | Tbiv | °C | | | | 4 | | | | |
| Average climate water outlet 35°C | General | Annual energy consumption | kWh | 3,561 | | | 3,539 | | | |
| | | ηs (Seasonal space heating efficiency) | % | 190 | | | 191 | | | |
| | | Prated at -10°C | kW | | | | 8.3 | | | |
| | Qhe Annual energy consumption (GCV) | Gj | | | | 13 | | | | |
| | SCOP | | | 4.81 | | | 4.84 | | | |
| | Seasonal space heating eff. class | | | | | | A+++ | | | |
| A Condition (-7°CDB- B/-8°CWB) | COPd | | | | | 3.20 | | | | |

2 Specifications

2 - 1 Specifications

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| Technical specifications | | | | ELVZ12S18E6V + ERRA08EW1 | ELVZ12S23E6V + ERRA08EW1 | ELVZ12S18E6V + ERRA10EW1 | ELVZ12S23E6V + ERRA10EW1 | ELVZ12S18E6V + ERRA12EW1 | ELVZ12S23E6V + ERRA12EW1 | |
|--|--|--|-----|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|
| Space heating Average climate water outlet 35°C | A Condition (-7°CDB/-8°CWB) | Pdh | kW | | | | | 7.5 | | |
| | | PERd | % | | | | | 128.0 | | |
| | B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | | | | | | 1.0 | |
| | | COPd | | | | | | | 4.93 | |
| | | Pdh | kW | | | | | | 4.4 | |
| | C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | | | | | | 197.2 | |
| | | COPd | | | | | | | 1.0 | |
| | | Pdh | kW | | | | | | 6.37 | |
| | D Condition (12°CDB/11°CWB) | Cdh (Degradation heating) | | | | | | | 4.3 | |
| | | COPd | | | | | | | 254.8 | |
| | | Pdh | kW | | | | | | 1.0 | |
| | Tol (temperature operating limit) | COPd | | | 2.90 | | | | 2.86 | |
| | | Pdh | | kW | 6.9 | | | | 8.1 | |
| | | PERd | | % | 116.0 | | | | 114.4 | |
| | | TOL | | °C | | | | | -10 | |
| | Tbiv (bivalent temperature) | WTOL | | °C | | | | | 35 | |
| | | COPd | | | 3.20 | | | | 2.86 | |
| | | Pdh | | kW | 7.5 | | | | 8.1 | |
| | | PERd | | % | 128.0 | | | | 114.4 | |
| | Rated heat output supplementary capacity | Tbiv | | °C | -7 | | | | -10 | |
| Psup (at Tdesign -10°C) | | kW | 1.4 | | | | 0.0 | | | |
| Cold climate water outlet 35°C | General | Annual energy consumption | kWh | 5,394 | | | 5,239 | | 5,224 | |
| | | ηs (Seasonal space heating efficiency) | % | 162 | | | 166 | | 167 | |
| | | Prated at -22°C | kW | | | | | 9 | | |
| | | Qhe Annual energy consumption (GCV) | Gj | 19.4 | | | 18.9 | | 18.8 | |
| | A Condition (-7°CDB/-8°CWB) | COPd | | | | | | | 3.48 | |
| | | Pdh | | kW | | | | | 5.4 | |
| B Condition (2°CDB/1°CWB) | PERd | | % | | | | | 139.2 | | |
| | Cdh (Degradation heating) | | | | | | | 1.0 | | |
| | COPd | | | | | | | 5.40 | | |
| C Condition (7°CDB/6°CWB) | Pdh | | kW | | | | | 3.6 | | |
| | PERd | | % | | | | | 216.0 | | |
| | Cdh (Degradation heating) | | | | | | | 1.0 | | |
| COPd | | | | | | | | 6.53 | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELVZ12S18E6V + ERRA08EW1 | ELVZ12S23E6V + ERRA08EW1 | ELVZ12S18E6V + ERRA10EW1 | ELVZ12S23E6V + ERRA10EW1 | ELVZ12S18E6V + ERRA12EW1 | ELVZ12S23E6V + ERRA12EW1 | | |
|--|---|--|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------|------|
| Space heating | Cold climate water outlet 35°C | C Condition (7°CDB- B/6°CWB) | Pdh | kW | | | | | | 5.3 | |
| | | | PERd | % | | | | | | 261.2 | |
| | | D Condition (12°CDB- B/11°CWB) | Cdh (Degradation heating) | | | | | | | | 1.0 |
| | | | COPd | | | | | | | | 7.98 |
| | | | Pdh | kW | | | | | | 6.6 | |
| | | | PERd | % | 319.0 | | | | 319.2 | | |
| | | Tol (tem- perature operating limit) | COPd | | 2.11 | | | 2.14 | | | 2.16 |
| | | | Pdh | kW | 4.9 | | | 5.9 | | | 6.5 |
| | | | PERd | | 84.3 | | | 85.6 | | | 86.4 |
| | | | TOL | | | | | | | -22 | |
| | | | | WTOL | | | | | | | 35 |
| | | G Condition (-15°CDB/-) | COPd | | 2.68 | | | | | 2.64 | |
| | Pdh | | kW | 6.0 | | | | | 7.0 | | |
| | | | PERd | | 107.1 | | | | | 105.6 | |
| | Tbiv (bivalent tempera- ture) | COPd | | 2.95 | | | | | 2.64 | | |
| | | Pdh | kW | 6.5 | | | | | 7.0 | | |
| | | | PERd | | 118.1 | | | | | 105.6 | |
| | | | Tbiv | | -12 | | | | | -15 | |
| | Rated heat output sup- plementary capacity | Psup (at Tdesign -22°C) | | 4.1 | | | 3.1 | | | 2.6 | |
| | Warm climate water outlet 35°C | General | Annual energy consumption | | | | | | | 1,993 | |
| | | | ηs (Seasonal space heating efficiency) | | | | | | | 228 | |
| | | | Prated at 2°C | | | | | | | 8.6 | |
| | | | Qhe Annual energy consumption (GCV) | | | | | | | 7 | |
| | | B Condition (2°CDB- B/1°CWB) | Cdh (Degradation heating) | | | | | | | | 1.0 |
| COPd | | | | | | | | 4.17 | | | |
| Pdh | | | kW | | | | | | 6.8 | | |
| PERd | | | % | | | | | | 166.8 | | |
| C Condition (7°CDB- B/6°CWB) | | Cdh (Degradation heating) | | | | | | | | 1.0 | |
| | | COPd | | | | | | | | 5.85 | |
| | | Pdh | kW | | | | | | 5.5 | | |
| | | PERd | % | | | | | | 234.0 | | |
| Tbiv (bivalent tempera- ture) | COPd | | 4.89 | | | | | 4.89 | | | |
| | Pdh | kW | 6.8 | | | | | 6.8 | | | |
| | PERd | | 195.6 | | | | | 195.6 | | | |
| | Tbiv | | 5 | | | | | 5 | | | |
| D Condition (12°CDB- B/11°CWB) | Cdh (Degradation heating) | | | | | | | | 1.0 | | |
| | COPd | | | | | | | | 7.78 | | |
| Space heating | Warm climate water outlet | D Condition (12°CDB- B/11°CWB) | Pdh | kW | | | | | | 6.1 | |
| | | | PERd | % | | | | | | 311.2 | |

(1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C. (DT = 5°C) |

(3)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |

(4)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |

(5)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB

| Technical specifications | | | | ELVZ12S18E9W + ERRA08EW1 | ELVZ12S23E9W + ERRA08EW1 | ELVZ12S18E9W + ERRA10EW1 | ELVZ12S23E9W + ERRA10EW1 | ELVZ12S18E9W + ERRA12EW1 | ELVZ12S23E9W + ERRA12EW1 |
|--------------------------------|---|------|-----|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------------|-----------------------------|
| Heating capacity | Min. | | | | | | | 3.45 (1) | |
| | Nom. | | | | | | | 6.17 (2) | |
| | Max. | | | 7.95 (1) | | | | | 9.97 (1) |
| Power input | Heating | Min. | | | | | | | 0.70 (3) |
| | | Nom. | | | | | | | 1.21 (2) |
| | | Max. | | | 1.63 (3) | | | 1.98 (3) | 2.21 (3) |
| | Domestic hot water from 10°C to 50°C | Nom. | kWh | 2.54 (4) | 3.09 (4) | 2.54 (4) | 3.09 (4) | 2.54 (4) | 3.09 (4) |
| Heat up time from 10°C to 50°C | | hr | | 1h 51min | 2h 10min | 1h 51min | 2h 10min | 1h 51min | 2h 10min |
| COP | | | | | | | | 5.10 (2) | |
| Pump | Type | | | | | | | Grundfos UPM4L K 15-75 130 9 DK1 | |
| Pump Additional Zone | Nominal ESP Heating unit | kPa | | | | | | 61.4 (5) | |

2 Specifications

2 - 1 Specifications

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| Technical specifications | | | | ELVZ12S18E9W + ERRA08EW1 | ELVZ12S23E9W + ERRA08EW1 | ELVZ12S18E9W + ERRA10EW1 | ELVZ12S23E9W + ERRA10EW1 | ELVZ12S18E9W + ERRA12EW1 | ELVZ12S23E9W + ERRA12EW1 | |
|--|--|--|-------------------|--|---|---|---|---|---|----------|
| Pump Main Zone | Nominal ESP unit | Heating | kPa | 59.5 (5) | | | | | | |
| Water side Heat exchanger | Water flow rate | Heating Nom. | l/min | 18.3 | | | | | | |
| General | Supplier/Manufacturer details | Name and address Name or trademark | | Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium Daikin Europe N.V. | | | | | | |
| | Product description | Air-to-water heat pump | | Yes | | | | | | |
| | | Brine-to-water heat pump | | No | | | | | | |
| | | Heat pump combination heater | | Yes | | | | | | |
| | | Low-temperature heat pump | | No | | | | | | |
| | | Supplementary heater integrated | | Yes | | | | | | |
| | Water-to-water heat pump | | No | | | | | | | |
| LW(A) Sound power level (according to EN14825) | Indoor | | dB(A) | 44.0 | | | | | | |
| LW(A) Sound power level (according to EN14825) | Outdoor | | dB(A) | 56.0 | | | | | | |
| Sound condition Ecodesign and energy label | | | | Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825 | | | | | | |
| Tank | Name | | | Stainless steel domestic hot water tank 180 l | Stainless steel domestic hot water tank 230 L | Stainless steel domestic hot water tank 180 l | Stainless steel domestic hot water tank 230 L | Stainless steel domestic hot water tank 180 l | Stainless steel domestic hot water tank 230 L | |
| Space heating general | Air to water unit | Rated airflow (outdoor) | m ³ /h | 3,542 | | | | | | |
| | Other | Capacity control | | Inverter | | | | | | |
| | | Pck (Crankcase heater mode) | | kW | 0.000 | | | | | |
| | | Poff (Off mode) | | kW | 0.027 | | | | | |
| | | Psb (Standby mode) | | kW | 0.027 | | | | | |
| | | Pto (Thermostat off) | | kW | 0.024 | | | | | |
| Domestic hot water heating | General | Declared load profile | | L | | | | | | |
| Space heating general | Integrated supplementary heater | Psup | kW | 9.0 | | | | | | |
| | | Type of energy input | | Electrical | | | | | | |
| Domestic hot water heating | Average climate | AEC (Annual electricity consumption) | | kWh | 851 | 787 | 851 | 787 | 851 | 787 |
| | | COPdhw | | | 2.80 | 3.05 | 2.80 | 3.05 | 2.80 | 3.05 |
| Domestic hot water heating | Average climate | Heat up time | | | 1h 57min | 2h 14min | 1h 57min | 2h 14min | 1h 57min | 2h 14min |
| | | η _{wh} (water heating efficiency) | | % | 120 | 130 | 120 | 130 | 120 | 130 |
| | | Qelec (Daily electricity consumption) | | kWh | 4.160 | 3.830 | 4.160 | 3.830 | 4.160 | 3.830 |
| | | Reference hot water temperature | | °C | 53.0 | 52.0 | 53.0 | 52.0 | 53.0 | 52.0 |
| | | Stand-by power input | | W | 50.7 | 43.9 | 50.7 | 43.9 | 50.7 | 43.9 |
| | Water heating energy efficiency class | | A+ | | | | | | | |
| | Cold climate | AEC (Annual electricity consumption) | | kWh | 937 | 866 | 937 | 866 | 937 | 866 |
| | | COPdhw | | | 2.55 | 2.77 | 2.55 | 2.77 | 2.55 | 2.77 |
| | | Heat up time | | | 1h 55min | 2h 02min | 1h 55min | 2h 02min | 1h 55min | 2h 02min |
| | | η _{wh} (water heating efficiency) | | % | 109 | 118 | 109 | 118 | 109 | 118 |
| Qelec (Daily electricity consumption) | | kWh | 4.570 | 4.200 | 4.570 | 4.200 | 4.570 | 4.200 | | |
| Warm climate | Reference hot water temperature | | °C | 53.0 | 52.0 | 53.0 | 52.0 | 53.0 | 52.0 | |
| | Stand-by power input | | W | 54.3 | 46.7 | 54.3 | 46.7 | 54.3 | 46.7 | |
| | AEC (Annual electricity consumption) | | kWh | 699 | 648 | 699 | 648 | 699 | 648 | |
| | COPdhw | | | 3.40 | 3.68 | 3.40 | 3.68 | 3.40 | 3.68 | |
| | Heat up time | | | 1h 54min | 2h 06min | 1h 54min | 2h 06min | 1h 54min | 2h 06min | |
| | η _{wh} (water heating efficiency) | | % | 147 | 158 | 147 | 158 | 147 | 158 | |
| | Qelec (Daily electricity consumption) | | kWh | 3.430 | 3.160 | 3.430 | 3.160 | 3.430 | 3.160 | |
| | Reference hot water temperature | | °C | 53.0 | 52.0 | 53.0 | 52.0 | 53.0 | 52.0 | |
| | Stand-by power input | | W | 44.6 | 39.0 | 44.6 | 39.0 | 44.6 | 39.0 | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELVZ12S18E9W + ERRA08EW1 | ELVZ12S23E9W + ERRA08EW1 | ELVZ12S18E9W + ERRA10EW1 | ELVZ12S23E9W + ERRA10EW1 | ELVZ12S18E9W + ERRA12EW1 | ELVZ12S23E9W + ERRA12EW1 | | |
|-------------------------------------|-----------------------------------|---------|--|-----------------------------|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----|-------|
| Space heating | Average climate water outlet 55°C | General | Annual energy consumption | kWh | 7,541 | | 7,522 | | 7,309 | | |
| | | | ηs (Seasonal space heating efficiency) | % | | 134 | | | 138 | | |
| | | | Prated at -10°C | kW | | | 12.5 | | | | |
| | | | Qhe Annual energy consumption (GCV) | Gj | | 27 | | | 26 | | |
| | | | SCOP | | 3.42 | | 3.43 | | 3.53 | | |
| | | | Seasonal space heating eff. class | | | | A++ | | | | |
| | | | A Condition (-7°C-D- B/-8°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | |
| | | | | COPd | | | 2.34 | | | | |
| | | | | Pdh | kW | | 7.6 | | | | |
| | | | | PERd | % | | 93.6 | | | | |
| | | | B Condition (2°C-D- B/1°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | |
| | | | | COPd | | | 3.50 | | | | |
| | | | | Pdh | kW | | 6.8 | | | | |
| | | | | PERd | % | | 140.0 | | | | |
| | | | C Condition (7°C-D- B/6°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | |
| | | | | COPd | | | 5.07 | | | | |
| | | | | Pdh | kW | | 4.5 | | | | |
| | PERd | % | | 202.8 | | | | | | | |
| Space heating | Average climate water outlet 55°C | General | D Condition (12°C-D- B/11°CWB) | Cdh (Degradation heating) | | | 1.0 | | | | |
| | | | | COPd | | | 6.23 | | | | |
| | | | | Pdh | kW | | 5.2 | | | | |
| | | | | PERd | % | | 249.2 | | | | |
| | | | Tol (temperature operating limit) | COPd | | 2.04 | | | 2.06 | | |
| | | | | Pdh | kW | 6.9 | | | 8.2 | | |
| | | | | PERd | % | 81.6 | | | 82.4 | | |
| | | | | TOL | °C | | | | -10 | | |
| | | | | WTOL | °C | | | | 55 | | |
| | | | Rated heat output supplementary capacity | Psup (at Tdesign -10°C) | kW | 5.6 | | | 4.3 | | |
| | | | Tbiv (bivalent temperature) | COPd | | | 2.90 | | 2.48 | | |
| | | | | Pdh | kW | | 8.5 | | 10.0 | | |
| | | | | PERd | % | | 116.0 | | 99.2 | | |
| | | | | Tbiv | °C | | -2 | | -5 | | |
| | | | Cold climate water outlet 55°C | General | Annual energy consumption | kWh | 7,088 | | 6,950 | | 6,921 |
| | | | | | ηs (Seasonal space heating efficiency) | % | 122 | | | 125 | |
| | | | | | Prated at -22°C | kW | | | 9.0 | | |
| Qhe Annual energy consumption (GCV) | Gj | 26 | | | | | 25 | | | | |
| A Condition (-7°C-D- B/-8°CWB) | Cdh (Degradation heating) | | | | | 1.0 | | | | | |
| | COPd | | | | | 2.61 | | | | | |
| | Pdh | kW | | | | 5.2 | | | | | |
| | PERd | % | | | 104.2 | | | 104.4 | | | |
| B Condition (2°C-D- B/1°CWB) | Cdh (Degradation heating) | | | | | 1.0 | | | | | |
| | COPd | | | | | 3.90 | | | | | |
| | Pdh | kW | | | | 3.3 | | | | | |
| | PERd | % | | | | 156.0 | | | | | |
| C Condition (7°C-D- B/6°CWB) | Cdh (Degradation heating) | | | | | 1.0 | | | | | |
| | COPd | | | | | 4.96 | | | | | |
| | Pdh | kW | | | | 3.4 | | | | | |
| | PERd | % | | | | 198.3 | | | | | |
| D Condition (12°C-D- B/11°CWB) | COPd | | | | | 6.56 | | | | | |
| | Pdh | kW | | 4.2 | | | | | | | |
| | PERd | % | | 262.5 | | | | | | | |
| Tol (temperature operating limit) | COPd | | 1.49 | | | 1.56 | | | | | |
| | Pdh | kW | 4.9 | | | 6.1 | | | | | |
| | PERd | % | 59.6 | | | 62.3 | | | | | |
| | | | | | | 1.62 | | | | | |
| | | | | | | 7.2 | | | | | |
| | | | | | | 64.7 | | | | | |

2 Specifications

2 - 1 Specifications

2

| Technical specifications | | | | ELVZ12S18E9W + ERRA08EW1 | ELVZ12S23E9W + ERRA08EW1 | ELVZ12S18E9W + ERRA10EW1 | ELVZ12S23E9W + ERRA10EW1 | ELVZ12S18E9W + ERRA12EW1 | ELVZ12S23E9W + ERRA12EW1 | |
|---|--|--|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|
| Space heating Cold climate water outlet 55°C | Tol (temperature operating limit) | TOL | °C | | | | -22 | | | |
| | | WTOL | °C | | | | 55 | | | |
| | G Condition (-15°CDB/-) | COPd | | | 2.00 | | | 2.03 | | |
| | | Pdh | | kW | 6.0 | | | 7.2 | | |
| | | PERd | | % | 80.0 | | | 81.2 | | |
| | Tbiv (bivalent temperature) | COPd | | | 2.25 | | | 2.03 | | |
| | | Pdh | | kW | 6.6 | | | 7.2 | | |
| | | PERd | | % | 90.0 | | | 81.2 | | |
| | Rated heat output supplementary capacity | Tbiv | | °C | -12 | | | -15 | | |
| | | Psup (at Tdesign -22°C) | | kW | 4.1 | | 2.9 | | 1.8 | |
| | Warm climate water outlet 55°C | General | Annual energy consumption | | | | | 2,972 | | |
| | | | ηs (Seasonal space heating efficiency) | | % | | | 170 | | |
| | | | Prated at 2°C | | kW | | | 9.6 | | |
| Qhe Annual energy consumption (GCV) | | | | Gj | | | 11 | | | |
| B Condition (2°CDB/B/1°CWB) | | Cdh (Degradation heating) | | | | | 1.0 | | | |
| | | COPd | | | | | 2.66 | | | |
| | | Pdh | | kW | | | 8.0 | | | |
| | | PERd | | % | | | 106.5 | | | |
| C Condition (7°CDB/B/6°CWB) | | Cdh (Degradation heating) | | | | | 1.0 | | | |
| | | COPd | | | | | 3.79 | | | |
| | | Pdh | | kW | | | 6.7 | | | |
| | | PERd | | % | | | 151.5 | | | |
| D Condition (12°CDB/B/11°CWB) | | Cdh (Degradation heating) | | | | | 1.0 | | | |
| | | COPd | | | | | 5.87 | | | |
| | | Pdh | | kW | | | 3.6 | | | |
| | | PERd | | % | | | 234.9 | | | |
| Tbiv (bivalent temperature) | | COPd | | | | | 3.13 | | | |
| | | Pdh | | kW | | | 8.4 | | | |
| | | PERd | | % | | | 125.4 | | | |
| | Tbiv | | °C | | | 4 | | | | |
| Average climate water outlet 35°C | General | Annual energy consumption | | 3,561 | | | 3,539 | | | |
| | | ηs (Seasonal space heating efficiency) | | % | 190 | | 191 | | | |
| | | Prated at -10°C | | kW | | | 8.3 | | | |
| | | Qhe Annual energy consumption (GCV) | | Gj | | | 13 | | | |
| | | SCOP | | | 4.81 | | 4.84 | | | |
| | Seasonal space heating eff. class | | | | | A+++ | | | | |
| | A Condition (-7°CDB/-8°CWB) | COPd | | | | | 3.20 | | | |

2 Specifications

2 - 1 Specifications

| Technical specifications | | | | ELVZ12S18E9W + ERRA08EW1 | ELVZ12S23E9W + ERRA08EW1 | ELVZ12S18E9W + ERRA10EW1 | ELVZ12S23E9W + ERRA10EW1 | ELVZ12S18E9W + ERRA12EW1 | ELVZ12S23E9W + ERRA12EW1 | |
|--|--|---------------------------|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------|
| Space heating Average climate water outlet 35°C | A Condition (-7°CDB/-8°CWB) | Pdh | kW | | | | | 7.5 | | |
| | | PERd | % | | | | | 128.0 | | |
| | B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | | | | | 1.0 | | |
| | | COPd | | | | | | 4.93 | | |
| | | Pdh | kW | | | | | 4.4 | | |
| | | PERd | % | | | | | 197.2 | | |
| | C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | | | | | 1.0 | | |
| | | COPd | | | | | | 6.37 | | |
| | | Pdh | kW | | | | | 4.3 | | |
| | | PERd | % | | | | | 254.8 | | |
| | D Condition (12°CDB/11°CWB) | Cdh (Degradation heating) | | | | | | 1.0 | | |
| | | COPd | | | | | | 8.13 | | |
| | | Pdh | kW | | | | | 6.6 | | |
| | | PERd | % | | | | | 325.2 | | |
| | Tol (temperature operating limit) | COPd | | | 2.90 | | | | 2.86 | |
| | | Pdh | kW | | 6.9 | | | | 8.1 | |
| | | PERd | % | | 116.0 | | | | 114.4 | |
| | | TOL | °C | | | | | | -10 | |
| | Tbiv (bivalent temperature) | WTOL | °C | | | | | | 35 | |
| | | COPd | | | 3.20 | | | | 2.86 | |
| | | Pdh | kW | | 7.5 | | | | 8.1 | |
| | | PERd | % | | 128.0 | | | | 114.4 | |
| | | Tbiv | °C | | -7 | | | | -10 | |
| | Rated heat output supplementary capacity | Psup (at Tdesign -10°C) | kW | | 1.4 | | | | 0.0 | |
| | Cold climate water outlet 35°C | General | Annual energy consumption | kWh | 5,394 | | | 5,239 | | 5,224 |
| | | | ηs (Seasonal space heating efficiency) | % | 162 | | | 166 | | 167 |
| | | | Prated at -22°C | kW | | | | | 9 | |
| Qhe Annual energy consumption (GCV) | | | Gj | 19.4 | | | | 18.9 | | 18.8 |
| A Condition (-7°CDB/-8°CWB) | COPd | | | | | | | 3.48 | | |
| | Pdh | kW | | | | | | 5.4 | | |
| | PERd | % | | | | | | 139.2 | | |
| B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | | | | | | 1.0 | | |
| | COPd | | | | | | | 5.40 | | |
| | Pdh | kW | | | | | | 3.6 | | |
| | PERd | % | | | | | | 216.0 | | |
| C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | | | | | | 1.0 | | |
| | COPd | | | | | | | 6.53 | | |

2 Specifications

2 - 1 Specifications

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| Technical specifications | | | | ELVZ12S18E9W + ERRA08EW1 | ELVZ12S23E9W + ERRA08EW1 | ELVZ12S18E9W + ERRA10EW1 | ELVZ12S23E9W + ERRA10EW1 | ELVZ12S18E9W + ERRA12EW1 | ELVZ12S23E9W + ERRA12EW1 | | | |
|--|---|--|---------------------------|------------------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------|-------|-------|
| Space heating | Cold climate water outlet 35°C | C Condition (7°CDB- B/6°CWB) | Pdh | kW | | | | | 5.3 | | | |
| | | | PERd | % | | | | | 261.2 | | | |
| | | D Condition (12°CDB- B/11°CWB) | Cdh (Degradation heating) | | | | | | | 1.0 | | |
| | | | COPd | | | | | | | 7.98 | | |
| | | | Pdh | | kW | | | | | 6.6 | | |
| | | | | | | PERd | | % | | | | |
| | | Tol (tem- perature operating limit) | COPd | | | | | | | | | |
| | | | | | | Pdh | | kW | | | | |
| | | PERd | | % | | | | | | | | 84.3 |
| | | | | | TOL | | °C | | | | | -22 |
| | | WTOL | | °C | | | | | | | | 35 |
| | | | | | G Condition (-15°CDB/-) | COPd | | kW | | | | |
| | Pdh | | % | | | | | | | | | 6.0 |
| | | | | PERd | | | | | | % | | |
| | Tbiv (bivalent tempera- ture) | COPd | | | kW | | | | | | | 2.95 |
| | | | | Pdh | | | % | | | | | 6.5 |
| | PERd | | % | | | | | | | | 118.1 | |
| | | | | Tbiv | | °C | | | | | -12 | |
| | Rated heat output sup- plementary capacity | Psup (at Tdesign -22°C) | | | | | kW | | | | | 4.1 |
| | | | | General | Annual energy consumption | kWh | | | | | | 1,993 |
| | | ηs (Seasonal space heating efficiency) | % | | | | | | | | 228 | |
| | | | | | Prated at 2°C | | kW | | | | | 8.6 |
| | | Qhe Annual energy consumption (GCV) | | | | | | Gj | | | | |
| | | | | B Condition (2°CDB- B/1°CWB) | Cdh (Degradation heating) | | kW | | | | | |
| COPd | | | | | | | | | | 4.17 | | |
| | Pdh | | | | | | | | | | 6.8 | |
| | | PERd | | | | | | | | | | 166.8 |
| C Condition (7°CDB- B/6°CWB) | Cdh (Degradation heating) | | | kW | | | | | 1.0 | | | |
| | | COPd | | | | | | | | 5.85 | | |
| | | | | | Pdh | | | | | | 5.5 | |
| | | | | | | PERd | | | | | | 234.0 |
| Tbiv (bivalent tempera- ture) | COPd | | kW | | | | | | 4.89 | | | |
| | | | | Pdh | | | | | | 6.8 | | |
| | | | | | PERd | | | | | | 195.6 | |
| | | | | | | Tbiv | | °C | | | | |
| D Condition (12°CDB- B/11°CWB) | Cdh (Degradation heating) | | kW | | | | | | | | 1.0 | |
| | | | | COPd | | | | | | 7.78 | | |
| Space heating | Warm climate water outlet | D Condition (12°CDB- B/11°CWB) | Pdh | | kW | | | | | 6.1 | | |
| | | | | PERd | | % | | | | | 311.2 | |

(1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C. (DT = 5°C) |

(3)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |

(4)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |

(5)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB

| Technical Specifications | | | | ERRA08EW1 | ERRA10EW1 | ERRA12EW1 |
|--------------------------|-------------|--------|----|--|-----------|-----------|
| Casing | Colour | | | Silver / Black | | |
| | Material | | | Polyester painted galvanised steel plate | | |
| Dimensions | Unit | Height | mm | 1,003 | | |
| | | Width | mm | 1,270 | | |
| | | Depth | mm | 533 | | |
| | Packed unit | Height | mm | 1,340 | | |
| | | Width | mm | 1,440 | | |
| | | Depth | mm | 690 | | |
| Weight | Unit | | kg | 107 | | |
| | Packed unit | | kg | 132 | | |
| Packing | Material | | | Carton / Wood (pallet) / PE (Straps) / Metal | | |
| | Weight | | kg | 46 | | |

2 Specifications

2 - 1 Specifications

| Technical Specifications | | | | ERRA08EW1 | ERRA10EW1 | ERRA12EW1 | |
|--------------------------|-------------------------------|-----------------|---|--|----------------------------------|-----------|--|
| Heat exchanger | Length | mm | | 1,200 | | | |
| | Rows | Quantity | | 2 | | | |
| | Fin pitch | mm | | 2.00 | | | |
| | Passes | Quantity | | 10 | | | |
| | Face area | m ² | | 1.19 | | | |
| | Stages | Quantity | | 44 | | | |
| | Tube type | | | ø7 Hi-XSL | | | |
| | Fin | Type | | | WF fin | | |
| | Treatment | | | Anti-corrosion treatment (PE) | | | |
| Fan | Type | | | Propeller fan | | | |
| | Quantity | | | 1 | | | |
| | Air flow rate | Heating | Nom. | m ³ /min | 59.0 | | |
| | | | High | m ³ /min | 89.9 | | |
| | | Cooling | Nom. | m ³ /min | 80 | | |
| | | | High | m ³ /min | 80.1 | | |
| Discharge direction | | | Horizontal | | | | |
| Fan motor | Quantity | | | 1 | | | |
| | Model | | | Brushless DC motor | | | |
| | Output | W | | 234 | | | |
| | Drive | | | Direct drive | | | |
| | Speed | Steps | | | 6 | | |
| | | Heating | Nom. | rpm | 390 | | |
| | | Cooling | Nom. | rpm | 520 | | |
| Compressor | Quantity | | | 1 | | | |
| Compressor | Model | | | 2Y260BPDY1P#C | | | |
| | Type | | | Hermetically sealed swing compressor | | | |
| | Starting method | | | Inverter driven | | | |
| PED | Category | | | Category II | | | |
| Operation range | Heating | Min. | °CDB | -25.0 | | | |
| | | Max. | °CDB | 25 | | | |
| | Cooling | Min. | °CDB | 10 | | | |
| | | Max. | °CDB | 43 | | | |
| | Domestic hot water | Max. | °CDB | 35 | | | |
| | | Min. | °CDB | -25 | | | |
| PED | Most critical part | Name | | Accumulator | | | |
| | | Ps*V | Bar*l | 109 | | | |
| Sound power level | Heating | Nom. | dBA | 56.0 (1) | | | |
| | Cooling | Nom. | dBA | 61.2 (2) | 61.4 (2) | 60.9 (2) | |
| Sound pressure level | Heating | Nom. | dBA | 41.1 (3) | | | |
| | Cooling | Nom. | dBA | 47.1 (4) | | | |
| | Night quiet mode | Heating | | dBA | 43.2 (3) | | |
| | | Cooling | | dBA | 44.0 (4) | | |
| Refrigerant | Type | | | R-32 | | | |
| | GWP | | | 675.0 | | | |
| | Charge | kg | | 3.25 | | | |
| | Control | | | Expansion valve | | | |
| | Circuits | Quantity | | | 1 | | |
| Refrigerant oil | Type | | | FW68DE | | | |
| | Charged volume | l | | 1.1 | | | |
| Piping connections | Liquid | OD | mm | 6.35 | | | |
| | Gas | OD | mm | 15.9 | | | |
| | Piping length | OU - IU | Min. | m | 3 | | |
| | | | Max. | m | 50 | | |
| | High pressure side | Design pressure | bar | | 46 | | |
| | Additional refrigerant charge | kg/m | | 0.02 (for piping length exceeding 10m) | | | |
| | Level difference | IU - OU | Max. | m | 30.0 | | |
| Defrost method | | | Reversed cycle | | | | |
| Defrost control | | | Sensor for outdoor heat exchanger temperature | | | | |
| Capacity control | Method | | | Inverter controlled | | | |
| Safety devices | Item | 01 | | | High pressure switch | | |
| | | 02 | | | High pressure switch | | |
| Safety devices | Item | 03 | | | Low pressure switch | | |
| | | 04 | | | Thermal protector for compressor | | |
| | | 05 | | | Fuse | | |

2 Specifications

2 - 1 Specifications

2

| Electrical Specifications | | | ERRA08EW1 | ERRA10EW1 | ERRA12EW1 | |
|---------------------------|----------------------------|---------|--|-----------|-----------|--|
| Power supply | Name | | | W1 | | |
| | Phase | | | 3~ | | |
| | Frequency | Hz | | 50 | | |
| | Voltage | V | | 400 | | |
| | Voltage range | Min. | % | | -10 | |
| | | cos phi | Nom. | | 0.72 | |
| | | | Max. | | 0.93 | |
| | Max. | % | | 10 | | |
| Current | Minimum Ssc value | kVa | Equipment complying with EN / IEC 61000-3-12 | | | |
| | Recommended fuses | A | 16 | | | |
| | Inverter modulation | Min. % | 44 | 37 | 35 | |
| Wiring connections | For power supply | Remark | See installation manual outdoor unit | | | |
| | For connection with indoor | Remark | See installation manual indoor unit | | | |

(1)Cooling Ta 35°C - LWE 18°C (DT = 5°C); Heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(2)Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) |

(3)Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. |

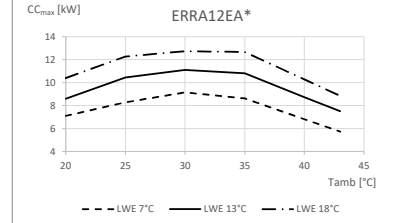
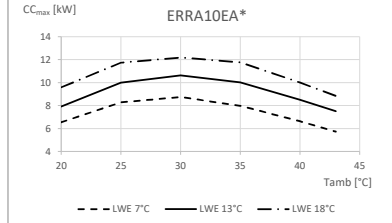
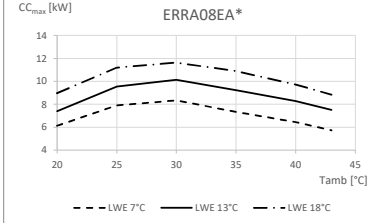
(4)The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value depending on the distance and acoustic environment. Refer to sound spectrum drawing for more information. Condition: Ta 35°C - LWE 7°C (DT =

3 Capacity graphs

3 - 1 Cooling Capacity Graphs

ERRA08-12EV3
ERRA08-12EW1

Maximum cooling capacity



Symbols

- CC_{max} Cooling capacity at maximum operating frequency, measured according to EN 14511.
- LWE Leaving water evaporator temperature [°C]
- Tamb Ambient temperature [°C DB]

Conditions

Cooling capacity

Capacity according to standard EN 14511 and valid for chilled water range ΔT = 3~8°C.

Notes

The capacity and power input is valid for -V3- models at -230-V and for -W1- models at -400-V.
The capacity and the power input are at maximum operation.

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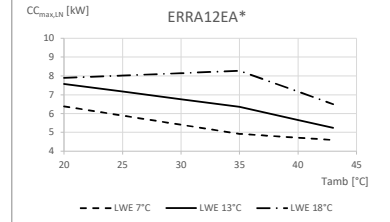
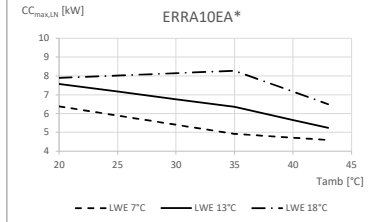
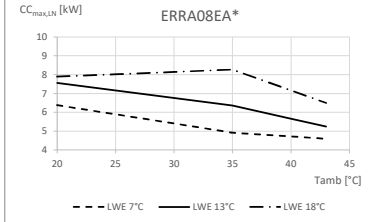
3 Capacity graphs

3 - 2 Cooling Capacity Graphs - quiet mode

ERRA08-12EV3
ERRA08-12EW1

3

Maximum cooling capacity



Symbols

CC_{max,LN} Cooling capacity at maximum operating frequency, measured according to EN 14511.
LWE Leaving water evaporator temperature [°C]
Tamb Ambient temperature [°C DB]

Conditions

Cooling capacity

Capacity according to standard EN 14511 and valid for chilled water range ΔT = 3~8°C.

Notes

The capacity and power input is valid for -V3- models at -230-V and for -W1- models at -400-V.
Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)
Low noise level -1-

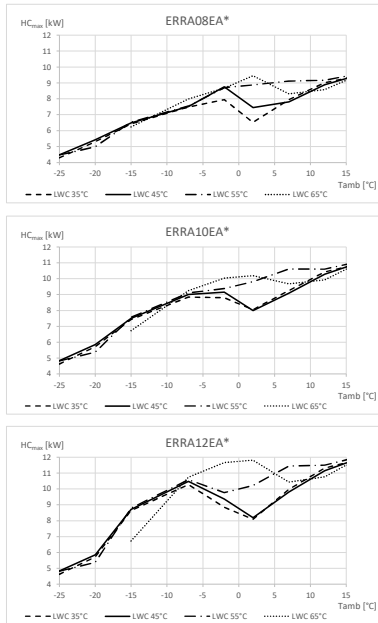
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3 Capacity graphs

3 - 3 Heating Capacity Graphs

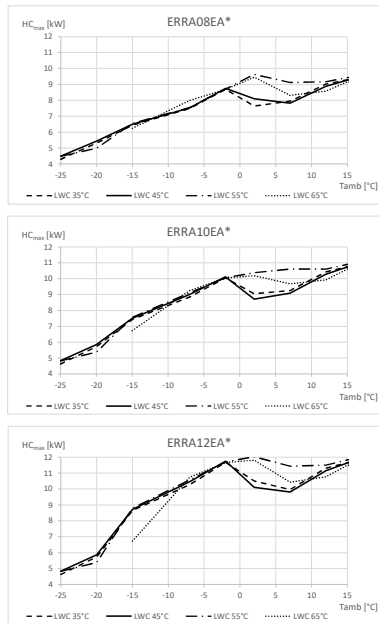
ERRA08-12EV3
ERRA08-12EW1

Maximum heating capacity - integrated value



Symbols
 HC_{max} Heating capacity for maximum load, measured according to EN 14511
 LWC Leaving water condenser temperature [°C]
 T_{amb} Ambient temperature [°C DB]

Maximum heating capacity - peak values



Conditions
Heating capacity
 Capacity according to standard EN 14511 and valid for heated water range $\Delta T = 3^{\circ}\text{--}8^{\circ}\text{C}$.

Notes
 The capacity and power input is valid for -V3- models at 230-V and for for -W1- models at 400-V.
 The capacity and the power input are at maximum operation.

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3 Capacity graphs

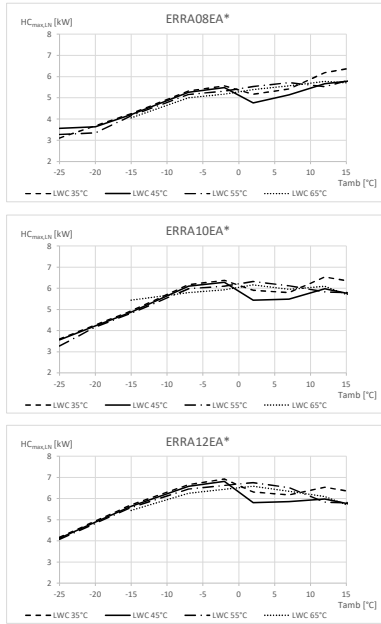
3 - 4 Heating Capacity Graphs - quiet mode

3

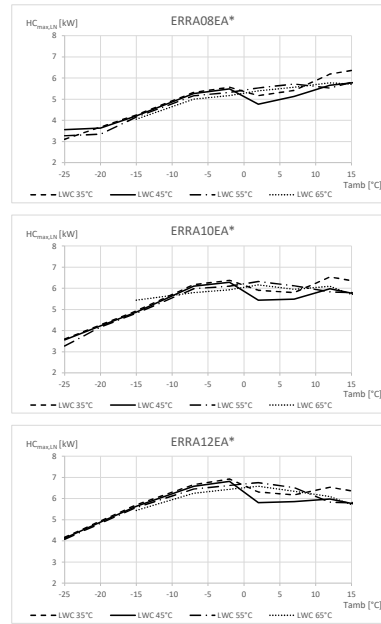
ERRA08-12EV3

ERRA08-12EW1

Maximum heating capacity - integrated value



Maximum heating capacity - peak values



Symbols

HC_{max,LI} Heating capacity for maximum load, measured according to EN 14511
 LWC Leaving water condensor temperature [°C]
 Tamb Ambient temperature [°C DB]

Conditions

Heating capacity

Capacity according to standard EN 14511 and valid for heated water range ΔT = 3-8°C.

Notes

The capacity and power input is valid for -V3- models at -230-V and for -W1- models at -400-V.
 Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)
 Low noise level-1

3D146964

4 Capacity tables

4 - 1 Certification Programs

ERRA08-12EV3 ERRA08-12EW1

Rated data for certification programmes - heating mode

| Tamb [°C] | EWC | LWC | ERRA08EAV3 | | ERRA10EAV3 | | ERRA12EAV3 | | ERRA08EAW1 | | ERRA10EAW1 | | ERRA12EAW1 | | Used for: |
|--------------|------|-----|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|--|
| | | | HC [kW] | COP | HC [kW] | COP | HC [kW] | COP | HC [kW] | COP | HC [kW] | COP | HC [kW] | COP | |
| 7/6 | 30 | 35 | 6,17 | 4,92 | 6,17 | 4,92 | 6,17 | 4,92 | 6,17 | 5,10 | 6,17 | 5,10 | 6,17 | 5,10 | Keymark, EHPA EHPA General General MCS Keymark, EHPA GET |
| 2/1 | (30) | 35 | 5,74 | 4,08 | 5,74 | 4,08 | 5,74 | 4,08 | 5,74 | 4,23 | 5,74 | 4,23 | 5,74 | 4,23 | |
| -7/-8 | (30) | 35 | 7,49 | 3,04 | 7,49 | 3,04 | 7,49 | 3,04 | 7,49 | 3,14 | 7,49 | 3,14 | 7,49 | 3,14 | |
| 7/6 | 40 | 45 | 7,73 | 3,57 | 7,73 | 3,57 | 7,73 | 3,57 | 7,73 | 3,70 | 7,73 | 3,70 | 7,73 | 3,70 | |
| -2/-3 | (40) | 45 | 8,58 | 2,83 | 8,66 | 2,59 | 9,36 | 2,54 | 8,58 | 2,91 | 8,66 | 2,69 | 9,36 | 2,64 | |
| 7/6 | 47 | 55 | 7,72 | 2,94 | 7,72 | 2,94 | 7,72 | 2,94 | 7,72 | 3,05 | 7,72 | 3,05 | 7,72 | 3,05 | |
| -7/-8 | 47 | 55 | 7,55 | 2,05 | 9,02 | 2,11 | 9,02 | 2,11 | 7,55 | 2,13 | 9,02 | 2,19 | 9,02 | 2,19 | |

Rated data for certification programmes - cooling mode

Nominal cooling capacity

| Tamb [°C] | EWE | LWE | ERRA08EAV3 | | ERRA10EAV3 | | ERRA12EAV3 | | ERRA08EAW1 | | ERRA10EAW1 | | ERRA12EAW1 | | Used for: |
|--------------|-----|-----|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|-------------------------|
| | | | CC [kW] | EER | CC [kW] | EER | CC [kW] | EER | CC [kW] | EER | CC [kW] | EER | CC [kW] | EER | |
| 35 | 23 | 18 | 6,47 | 5,56 | 6,47 | 5,56 | 6,47 | 5,56 | 6,47 | 5,75 | 6,47 | 5,75 | 6,47 | 5,75 | General DAPT General |
| 35 | 12 | 7 | 6,81 | 3,17 | 7,97 | 3,00 | 8,62 | 2,91 | 6,81 | 3,28 | 7,97 | 3,10 | 8,62 | 3,01 | |

Seasonal data - cooling

LWE 7°C Low temperature Application

| | ERRA08EAV3 | ERRA10EAV3 | ERRA12EAV3 | ERRA08EAW1 | ERRA10EAW1 | ERRA12EAW1 |
|-----------------|------------|------------|------------|------------|------------|------------|
| Pdes [kW] | 6,5 | 7,5 | 8,5 | 6,5 | 7,5 | 8,5 |
| SEER [-] | 5,38 | 5,34 | 5,31 | 5,42 | 5,41 | 5,41 |
| ηs,c [%] | 212 | 211 | 209 | 214 | 214 | 213 |
| QCE [kWh/annum] | 725 | 843 | 961 | 719 | 831 | 943 |

Rated data for certification programmes - domestic hot water performance

| Indoor unit | ELV*12S18E1* | | ELV*12S23E1* | | ELS(X/H)(B/-)12P30EF | | ELS(X/H)(B/-)12P50EF | | Used for: |
|------------------------------------|-----------------|-----------|-----------------|-----------|----------------------|-----------|----------------------|-----------|-----------|
| | ERRA*EAV3 | ERRA*EAW1 | ERRA*EAV3 | ERRA*EAW1 | ERRA*EAV3 | ERRA*EAW1 | ERRA*EAV3 | ERRA*EAW1 | |
| Application | Average climate | | Average climate | | Average climate | | Average climate | | Keymark |
| Domestic hot water tank volume [l] | 180 | | 230 | | 294 | | 477 | | |
| Tapping pattern | L | | L | | L | | XL | | |
| Heat-up time (hh:mm:ss) | 01:57:00 | | 02:14:00 | | 02:29:00 | | 03:28:00 | | |
| θ _{wh} [°C] | 52,5 | | 52,5 | | 46,1 | | 44,7 | | |
| P _{es} [W] | 51,7 | 50,7 | 44,8 | 43,9 | 38,1 | 37,4 | 32,7 | 32,5 | |
| V _{eq40} [l] | 240 | | 298 | | 172,6 | | 260,0 | | |
| η _{wh} [%] | 116,7 | 120,3 | 126,4 | 130 | 115,7 | 119,3 | 131,5 | 135,7 | |
| COP _{DomW} [l] | 2,72 | 2,8 | 2,96 | 3,05 | 2,75 | 2,83 | 3,19 | 3,29 | |

Symbols

HC Heating capacity measured according to EN 14511
 CC Cooling capacity, measured according to EN 14511.
 COP/EER Coefficient of Performance/Energy efficiency ratio according to EN 14511.
 EWC Entering water condenser temperature [°C]
 LWC Leaving water condenser temperature [°C]
 EWE Entering water evaporator temperature [°C]

LWE Leaving water evaporator temperature [°C]
 Tamb Ambient temperature [°C DB/WB]
 θ_{wh} Reference Domestic hot water temperature [°C]
 P_{es} Standby power input
 V_{eq40} Equivalent domestic hot water volume [l]
 η_{wh} Efficiency [%]
 COP_{DomW} Domestic hot water heating mode
 Domestic hot water COP

According to EN16147.
 According to EN16147.
 According to EN16147.

Rated data for certification programmes - heating mode

Measured according to UNI/TS 11300

| Condition | Tamb [°C] | LWC [°C] | PLR [%] | ERRA08EAV3 | | ERRA10EAV3 | | ERRA12EAV3 | | ERRA08EAW1 | | ERRA10EAW1 | | ERRA12EAW1 | |
|-----------|--------------|-------------|------------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|
| | | | | HC [kW] | COP | HC [kW] | COP | HC [kW] | COP | HC [kW] | COP | HC [kW] | COP | HC [kW] | COP |
| A | -7/-8 | 34 | 100 | 7,49 | 3,10 | 8,73 | 3,02 | 10,22 | 2,93 | 7,49 | 3,20 | 8,73 | 3,12 | 10,22 | 3,03 |
| B | 2/1 | 30 | 100 | 6,68 | 3,87 | 7,83 | 3,86 | 8,41 | 3,86 | 6,68 | 4,01 | 7,83 | 3,99 | 8,41 | 3,98 |
| C | 7/6 | 27 | 100 | 8,44 | 5,60 | 9,84 | 5,42 | 10,61 | 5,32 | 8,44 | 5,78 | 9,84 | 5,59 | 10,61 | 5,48 |
| D | 12/11 | 24 | 100 | 9,27 | 7,52 | 10,70 | 7,35 | 11,59 | 7,24 | 9,27 | 7,77 | 10,70 | 7,58 | 11,59 | 7,46 |
| A | -7/-8 | 52 | 100 | 7,54 | 2,20 | 8,91 | 2,21 | 10,55 | 2,22 | 7,54 | 2,28 | 8,91 | 2,29 | 10,55 | 2,30 |
| B | 2/1 | 42 | 100 | 7,81 | 3,47 | 8,04 | 3,21 | 8,16 | 3,08 | 7,81 | 3,58 | 8,04 | 3,31 | 8,16 | 3,18 |
| C | 7/6 | 36 | 100 | 8,16 | 4,43 | 9,54 | 4,42 | 10,31 | 4,41 | 8,16 | 4,57 | 9,54 | 4,56 | 10,31 | 4,55 |
| D | 12/11 | 30 | 100 | 9,04 | 6,16 | 10,49 | 6,21 | 11,39 | 6,24 | 9,04 | 6,35 | 10,49 | 6,40 | 11,39 | 6,43 |

Rated data for certification programmes - cooling mode

Measured according to UNI/TS 11300

| Condition | Tamb [°C] | LWE [°C] | PLR [%] | ERRA08EAV3 | | ERRA10EAV3 | | ERRA12EAV3 | | ERRA08EAW1 | | ERRA10EAW1 | | ERRA12EAW1 | |
|-----------|--------------|-------------|------------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
| | | | | CC [kW] | EER | CC [kW] | EER | CC [kW] | EER | CC [kW] | EER | CC [kW] | EER | CC [kW] | EER |
| A | 35 | 18 | 100 | 10,89 | 4,35 | 11,77 | 4,11 | 12,66 | 3,87 | 10,89 | 4,51 | 11,77 | 4,26 | 12,66 | 4,01 |
| B | 30 | 18 | 75 | 7,96 | 6,05 | 8,73 | 5,98 | 9,51 | 5,90 | 7,96 | 6,26 | 8,73 | 6,19 | 9,51 | 6,11 |
| C | 25 | 18 | 50 | 5,51 | 8,83 | 5,90 | 8,36 | 6,28 | 7,88 | 5,51 | 9,04 | 5,90 | 8,60 | 6,28 | 8,17 |
| D | 20 | 18 | 25 | 3,47 | 12,42 | 3,47 | 12,42 | 3,47 | 12,42 | 3,47 | 12,29 | 3,47 | 12,29 | 3,47 | 12,29 |
| A | 35 | 7 | 100 | 7,33 | 3,09 | 7,97 | 3,00 | 8,62 | 2,91 | 7,33 | 3,20 | 7,97 | 3,10 | 8,62 | 3,01 |
| B | 30 | 7 | 75 | 5,34 | 4,06 | 5,86 | 4,01 | 6,38 | 3,96 | 5,34 | 4,20 | 5,86 | 4,15 | 6,38 | 4,10 |
| C | 25 | 7 | 50 | 3,66 | 5,21 | 3,95 | 5,22 | 4,24 | 5,23 | 3,66 | 5,36 | 3,95 | 5,39 | 4,24 | 5,42 |
| D | 20 | 7 | 25 | 2,19 | 6,20 | 2,19 | 6,20 | 2,19 | 6,20 | 2,19 | 6,17 | 2,19 | 6,17 | 2,19 | 6,17 |

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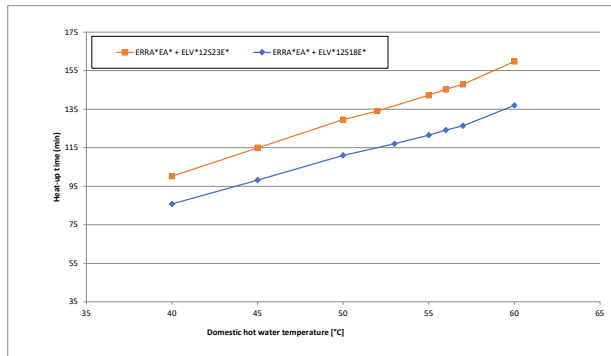
4 Capacity tables

4 - 2 Domestic Hot Water performance

4

ERRA08-12EV3
ERRA08-12EW1

Heat-up times



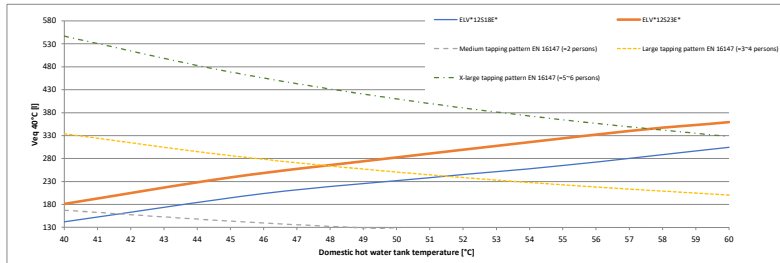
Notes

1. Time the indoor unit (heat pump only operation) requires to heat up the domestic hot water tank from 10°C to the indicated temperature. See the operation range for maximum domestic hot water tank temperature during heat pump only operation.

| Model name | Heat-up time domestic hot water tank until |
|--------------------------------|--|
| ERRA08/10/12/EA* + ELV*12S18E* | ~98 min. |
| ERRA08/10/12/EA* + ELV*12S23E* | ~115 min. |

Selection guide for the domestic hot water tank volume

Ve_q 40°C = the amount of water with a temperature of 40°C that can be tapped when the domestic hot water tank is heated to a certain temperature, and the temperature of the cold inlet water is 10°C.

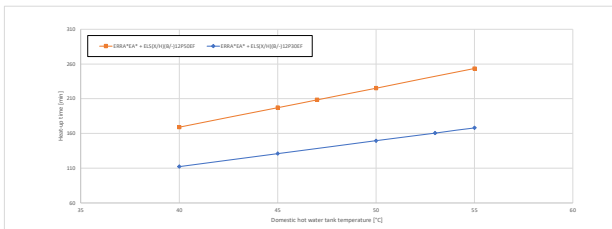


If a higher daily Ve_q 40°C is required, then additional heat-up cycles are required within 24 hours. See the operation manual for more information.

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ERRA08-12EV3
ERRA08-12EW1

Heat-up times



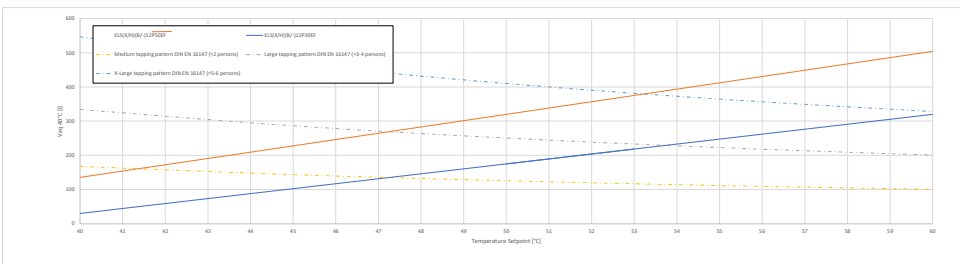
| Model name | Heat-up time domestic hot water tank until 45°C |
|--------------------------------|---|
| ERRA*EA* + ELSA*/HEB*/12SPSEF* | ~124 min. |
| ERRA*EA* + ELSA*/HEB*/12SPSEF* | ~107 min. |

Notes

1. Time the indoor unit (heat pump only operation) requires to heat up the domestic hot water tank from 10°C to the indicated temperature. See the operation range for maximum domestic hot water tank temperature during heat pump only operation.

Selection guide for the domestic hot water tank volume

Ve_q 40°C = the amount of water with a temperature of 40°C that can be tapped when the domestic hot water tank is heated to a certain temperature, and the temperature of the cold inlet water is 10°C.

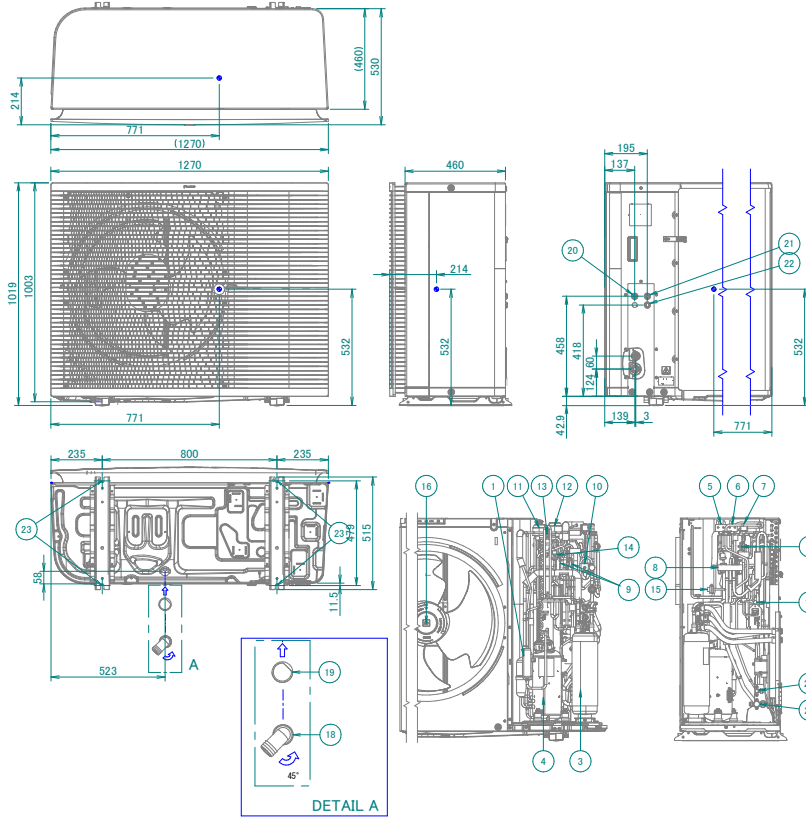


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5 Dimensional drawings

5 - 1 Dimensional Drawings

ERRA08-12EV3 / ERRA08-12EW1



- ① Muffler
- ② High pressure switch ·41.7 bar·
- ③ Accumulator
- ④ Compressor
- ⑤ Solenoid valve (low pressure bypass)
- ⑥ Solenoid valve (hot gas pass)
- ⑦ Solenoid valve (liquid)
- ⑧ 4-way valve
- ⑨ Capillary tube
- ⑩ 4-way valve
- ⑪ Electronic expansion valve (main)
- ⑫ Electronic expansion valve (injection)
- ⑬ High pressure switch ·46 bar·
- ⑭ Low pressure switch
- ⑮ Pressure sensor
- ⑯ Fan
- ⑰ Service port ·5/16"· flare
- ⑱ Drain elbow (included accessory)
- ⑲ Sealing (included accessory)
- ⑳ Drain tube heater cable intake
- ㉑ Interconnection cable intake
- ㉒ Power supply cable intake
- ㉓ 4 holes for anchor bolts M12
- ㉔ Liquid stop valve ·1/4"·
- ㉕ Gas stop valve ·5/8"·

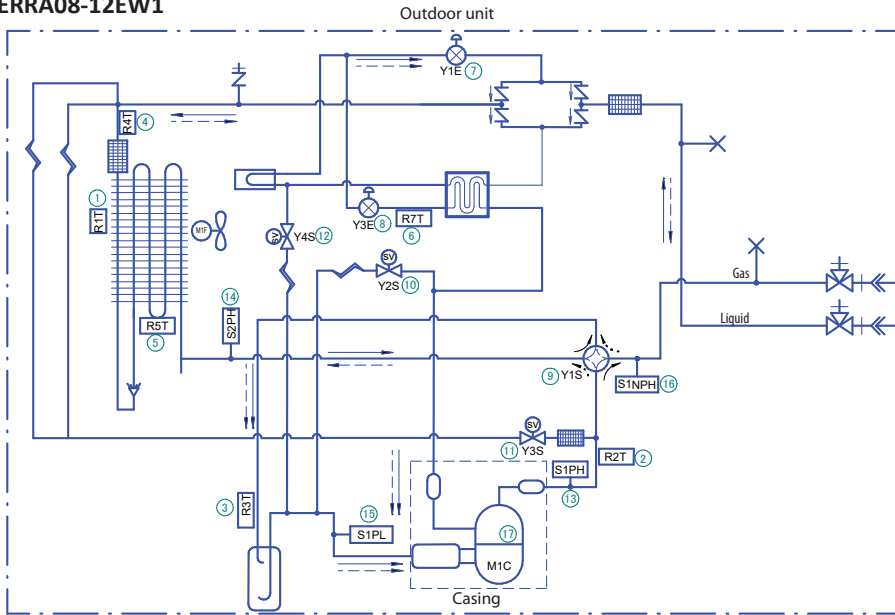
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6 Piping diagrams

6 - 1 Piping Diagrams

6

ERRA08-12EV3
ERRA08-12EW1



LEGEND

- PCB
- Electronic expansion valve
- Check valve
- Filter
- Economiser
- Solenoid valve
- Fan motor
- Stop valve
- Accumulator
- Pinched pipe
- Compressor
- Service port ·5/16"· flare
- Pressure sensor
- Muffler
- High pressure switch
- High pressure switch
- Capillary tube
- 4-way valve
- Heating
- Cooling

| | | |
|---|-----|--|
| ① | R1T | Ambient thermistor |
| ② | R2T | Thermistor (discharge) |
| ③ | R3T | Thermistor (suction) |
| ④ | R4T | Thermistor (heat exchanger, liquid pipe) |
| ⑤ | R5T | Thermistor (heat exchanger middle) |
| ⑥ | R7T | Thermistor (injection) |
| ⑦ | Y1E | Electronic expansion valve (main) |
| ⑧ | Y3E | Electronic expansion valve (injection) |
| ⑨ | Y1S | Solenoid valve (4-way valve) |
| ⑩ | Y2S | Solenoid valve (low pressure bypass) |

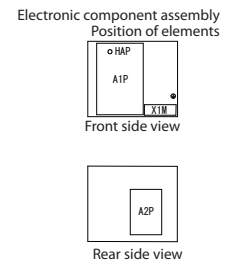
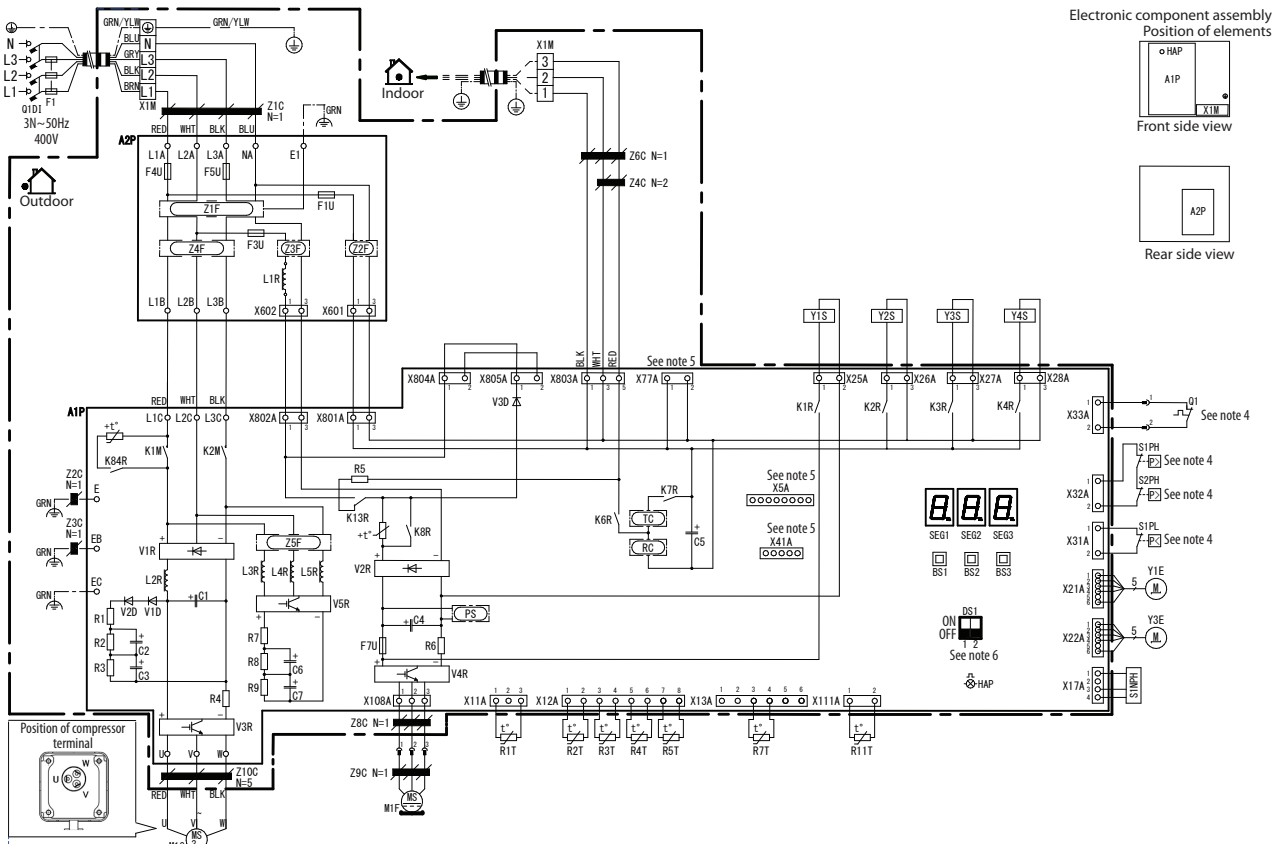
| | | | |
|---|-------|-----------------------------------|-------------------|
| ⑪ | Y3S | Solenoid valve (hot gas pass) | |
| ⑫ | Y4S | Solenoid valve (liquid injection) | |
| ⑬ | S1PH | High pressure switch -4.6MPa- | |
| ⑭ | S2PH | High pressure switch -4.17MPa | |
| ⑮ | S1PL | Low pressure switch | |
| ⑯ | S1NPH | High pressure sensor | |
| ⑰ | Q1E | Overload protector | |
| | | ● | Brazed connection |
| | | ⇒ | Flare connection |

3D142205B

7 Wiring diagrams

7 - 1 Wiring Diagrams - Three Phase

ERRA08-12EW1



| | |
|----------------------|---|
| A1P | Printed circuit board (main) |
| A2P | Printed circuit board (noise filter) |
| BS1~BS3 (A1P) | Push-button switch |
| C1 ~ C7 (A1P) | Capacitor |
| DS1 (A1P) | DIP switch |
| F1 | Field fuse (supply supply) |
| F1U, F3U (A2P) | Fuse (T 6.3A / 250V) |
| F4U, F5U (A2P) | Fuse (30 / 500V) |
| F7U (A1P) | Fuse (T 5.0A / 250V) |
| HAP (A1P) | Light-emitting diode (service monitor is green) |
| K1R (A1P) | Magnetic relay (Y1S) |
| K2R (A1P) | Magnetic relay (Y2S) |
| K3R (A1P) | Magnetic relay (Y3S) |
| K4R (A1P) | Magnetic relay (Y4S) |
| K6R ~ K84R (A1P) | Magnetic relay |
| K1M ~ K2M (A1P) | Magnetic contactor |
| K13R~K15R (A1P, A2P) | Magnetic relay |
| L1R ~ L5R (A1P, A2P) | Reactor |
| M1C | Motor (compressor) |
| M1F | Motor (fan) |
| PS (A1P) | Switching power supply |
| Q1DI | Earth leakage circuit breaker (30mA) (field supply) |
| Q1 | Thermal overcurrent protector |
| R1 ~ R9 (A1P) | Resistor |
| R1T | Thermistor (ambient) |
| R2T | Thermistor (discharge) |
| R3T | Thermistor (suction) |
| R4T | Thermistor (heat exchanger liquid pipe) |
| R5T | Thermistor (heat exchanger middle) |
| R7T | Thermistor (injection) |
| R11T | Thermistor (fin) |
| RC (A2P) | Signal receiver circuit |
| S1NPH | High pressure sensor |
| S1PH~S2PH | High pressure switch |
| S1PL | Low pressure switch |
| SEG* (A1P) | 7-segment display |
| TC (A1P) | Signal transmission circuit |
| V1D~V3D (A1P) | Diode |
| V1R ~ V2R (A1P) | Diode module |
| V3R ~ V5R (A1P) | IGBT power module |
| X1M | Terminal strip |

| | |
|--------------------|---|
| Y1E | Electronic expansion valve (main - black) |
| Y3E | Electronic expansion valve (injection - blue) |
| Y1S | Solenoid valve (4-way valve) |
| Y2S | Solenoid valve (low pressure bypass) |
| Y3S | Solenoid valve (hot gas bypass) |
| Y4S | Solenoid valve (liquid injection) |
| Z1C~Z10C | Noise filter (ferrite core) |
| Z1F~Z5F (A1P, A2P) | Noise filter |

NOTES

- L : Live
N : Neutral
⊕ : Protective earth
⚡ : Noiseless earth
⏏ : Field wiring
⏏ : Option
□ : Terminal strip
⊞ : Connector
● : Connection
- Colours: BLK: black, RED: red, BLU: bleu, WHT: white, GRN: green, YLW: yellow, PNK: pink, ORG: orange, GRY: grey, BRN: brown
- This wiring diagram applies only to the outdoor unit.
- When operating, do not short-circuit protection device Q1, S1PH, S2PH and S1PL.
- Refer to the combination table and the option manual for how to connect the wiring to X5A, X77A, X41A.
- The factory setting of DIP switch DS1.1 is OFF.

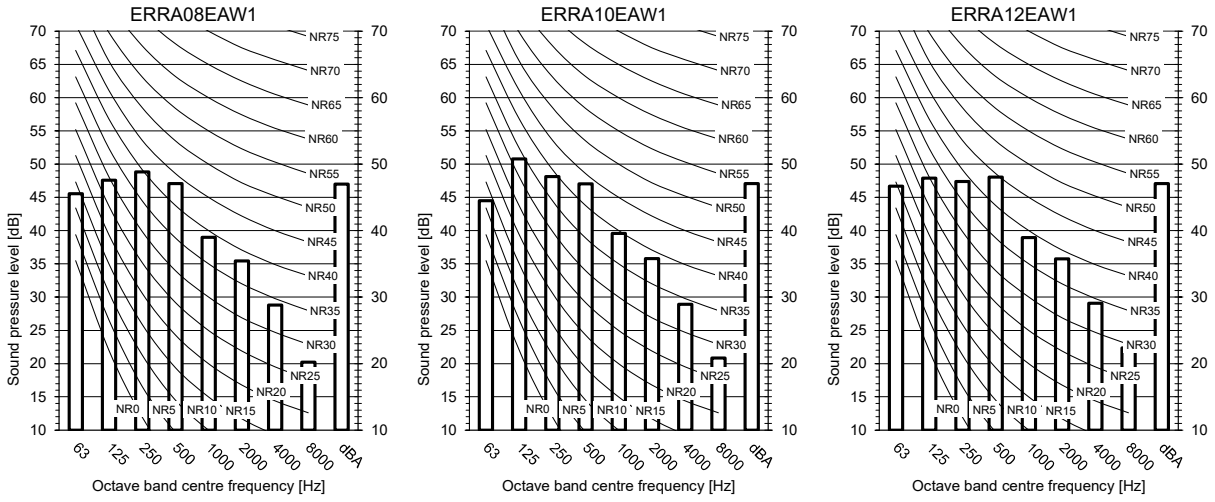
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8 Sound data

8 - 1 Sound Pressure Spectrum - Cooling

8

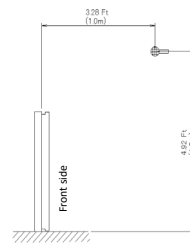
ERRA08-12EW1



Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μPa
- If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.

Measuring location (discharge side)

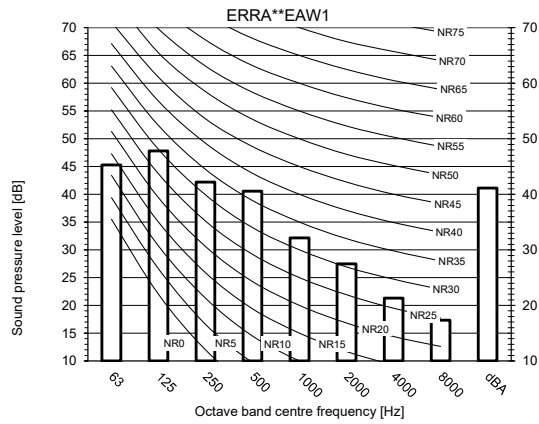
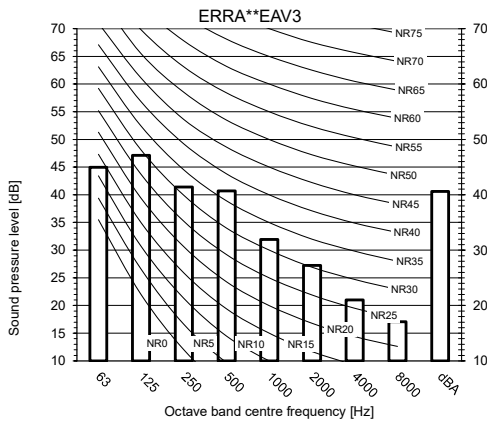


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8 Sound data

8 - 2 Sound Pressure Spectrum - Heating

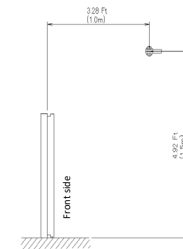
ERRA08-12EV3
ERRA08-12EW1



| Maximum sound day | Maximum sound night | Maximum sound day Sound Power Level [dBA] | | | Maximum sound night Sound Power Level [dBA] | | |
|---------------------|---------------------|--|-----------|-----------|--|-----------|-----------|
| | | ERRA08EA* | ERRA10EA* | ERRA12EA* | ERRA08EA* | ERRA10EA* | ERRA12EA* |
| Default | Low noise level -1- | 62 | 62 | 62 | 58,5 | 58,5 | 58,5 |
| Low noise level -2- | Low noise level -3- | 53 | 53 | 53 | 49,8 | 49,8 | 49,8 |

Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

Measuring location
(discharge side)



Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- Conditions: Ta DB/WB -7/-6°C - LWC -35°C
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa
- * If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.

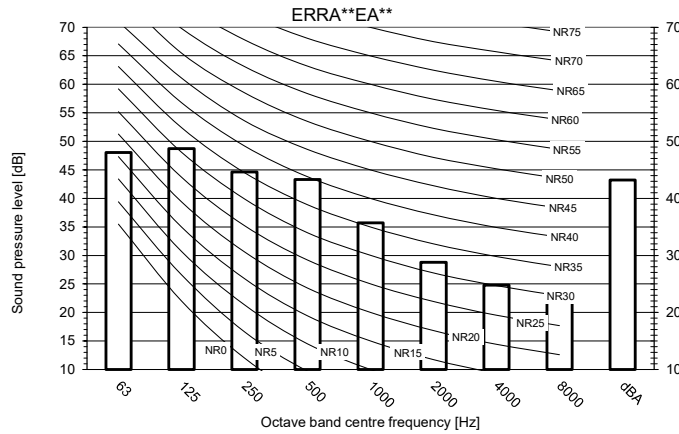
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8 Sound data

8 - 3 Sound Pressure Spectrum Quiet Mode

8

ERRA08-12EV3
ERRA08-12EW1

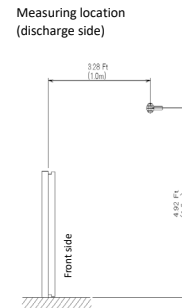


| Maximum sound day | Maximum sound night | Maximum sound day | | | Maximum sound night | | |
|---------------------|---------------------|-------------------------|-----------|-----------|-------------------------|-----------|-----------|
| | | Sound Power Level [dBA] | | | Sound Power Level [dBA] | | |
| Default | Low noise level ·1· | ERRA08EA* | ERRA10EA* | ERRA12EA* | ERRA08EA* | ERRA10EA* | ERRA12EA* |
| | | 62 | 62 | 62 | 58,5 | 58,5 | 58,5 |
| Low noise level ·2· | Low noise level ·3· | 53 | 53 | 53 | 49,8 | 49,8 | 49,8 |

Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

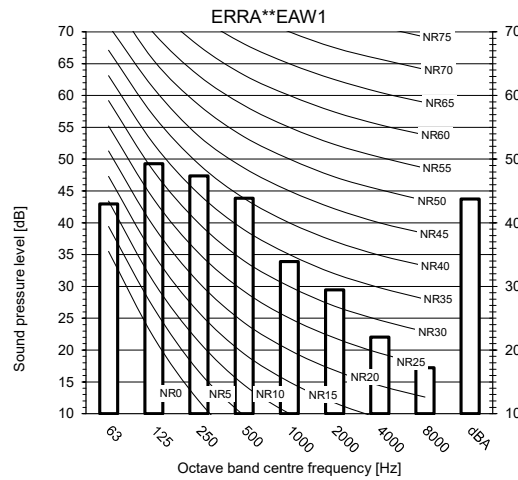
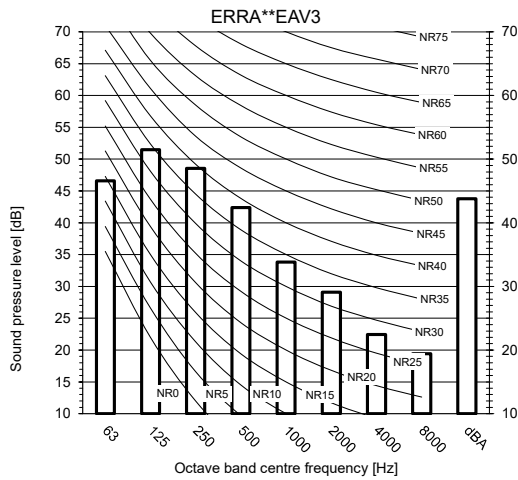
Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- Conditions: Ta DB/WB -7/-6°C - LWC -55°C
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa
- If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.



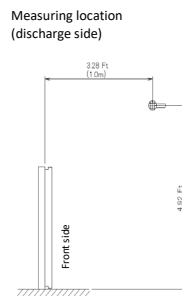
3D146967

ERRA08-12EV3
ERRA08-12EW1



Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa
- If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.



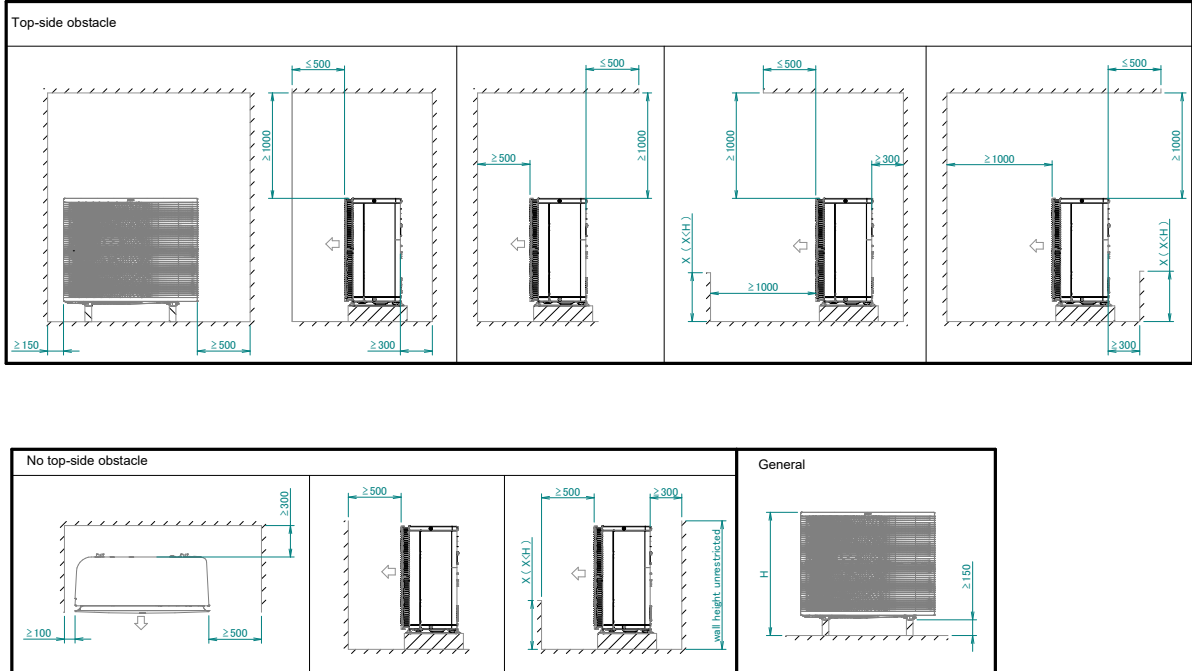
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9 Installation

9 - 1 Installation Method

ERRA08-12EV3
ERRA08-12EW1

Minimum space for air passage



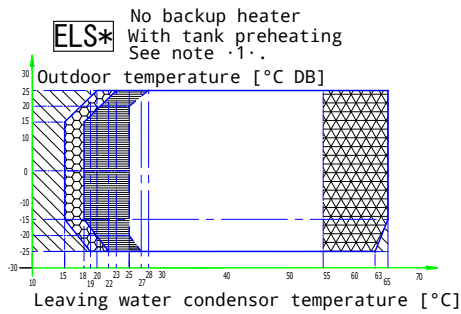
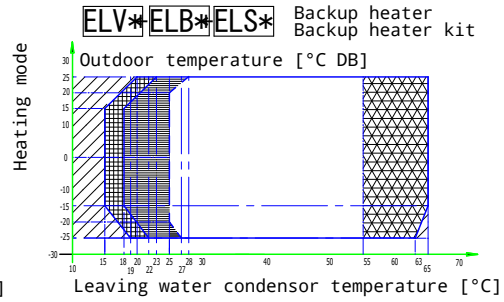
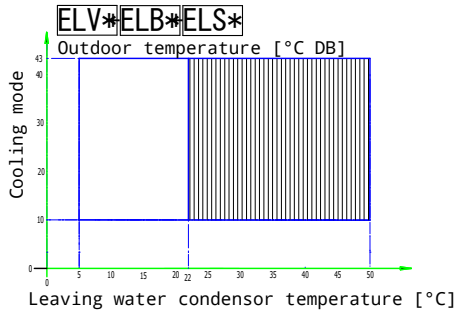
3D145275

10 Operation range

10 - 1 Operation Range

10

ERRA08-12EV3
ERRA08-12EW1



Legend

- Backup heater only operation
- No outdoor unit operation
- Heat pump + backup heater operation
- Pull-up area
- Auxiliary boiler only operation
- No outdoor unit operation
- Heat pump + auxiliary boiler operation
- Pull-up area
- Outdoor unit operation if controller setpoint is regulated to minimal leaving water temperature request.

See dashed lines

Outdoor unit operation if setpoint > 55°C and ΔT = 10°C (ΔT = outlet temperature - inlet temperature)

Pull-down area

Notes

1. Tank preheating
For details, see the installer reference guide.
2. In restricted power supply mode, the outdoor unit and backup heater can only operate separately.

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ERRA08-12EV3
ERRA08-12EW1

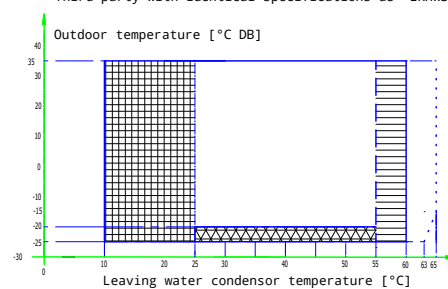
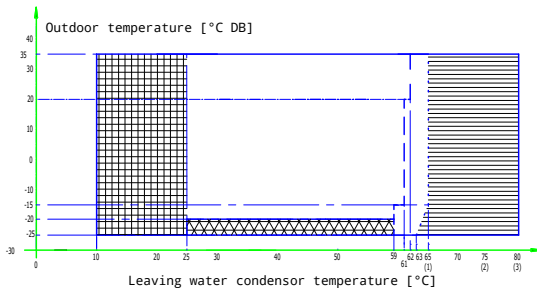
Domestic hot water heating mode

ELV* + ELS* + EKHP* + EKHWS*200*
EKHWS*250*
EKHWS*300*

+
Third-party with identical specifications as EKHWS*200*

EKHWS*150*
EKHWS*180*

+
Third-party with identical specifications as EKHWS*150*



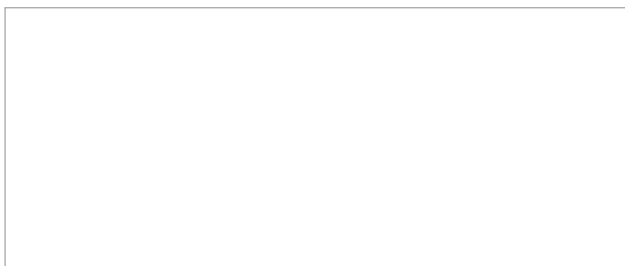
Legend

- Setpoint [°C]
- Domestic hot water
- Leaving water temperature [°C]
- Pull-up area
- Booster heater only operation (if a booster heater is part of the system)
 - (1) ELV*12* indoor units only
 - (2) Combination of EKHWS* and ELB* indoor units / ELS*12* indoor units only
 - (3) Combination of EKHP* and ELB* indoor units
- Operation of the outdoor unit is possible. If the outdoor temperature drops below -20°C, unit will continue operation. But when the unit is OFF and the outdoor temperature is below -20°C, the outdoor unit will not start up. The indoor unit and backup heater will start in these cases.

Notes

1. In restricted power supply mode (EKHW* only), the outdoor unit, booster heater and backup heater can only operate separately.
2. Third-party with identical specifications as EKHWS*150*
Coil surface > 1.05·m² and < 3.7·m²
Tank thermistor and booster heater above heat pump coil.
3. Third-party with identical specifications as EKHWS*200*
Coil surface > 1.8·m² and < 3.7·m²
Tank thermistor and booster heater above heat pump coil.

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08/2023



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