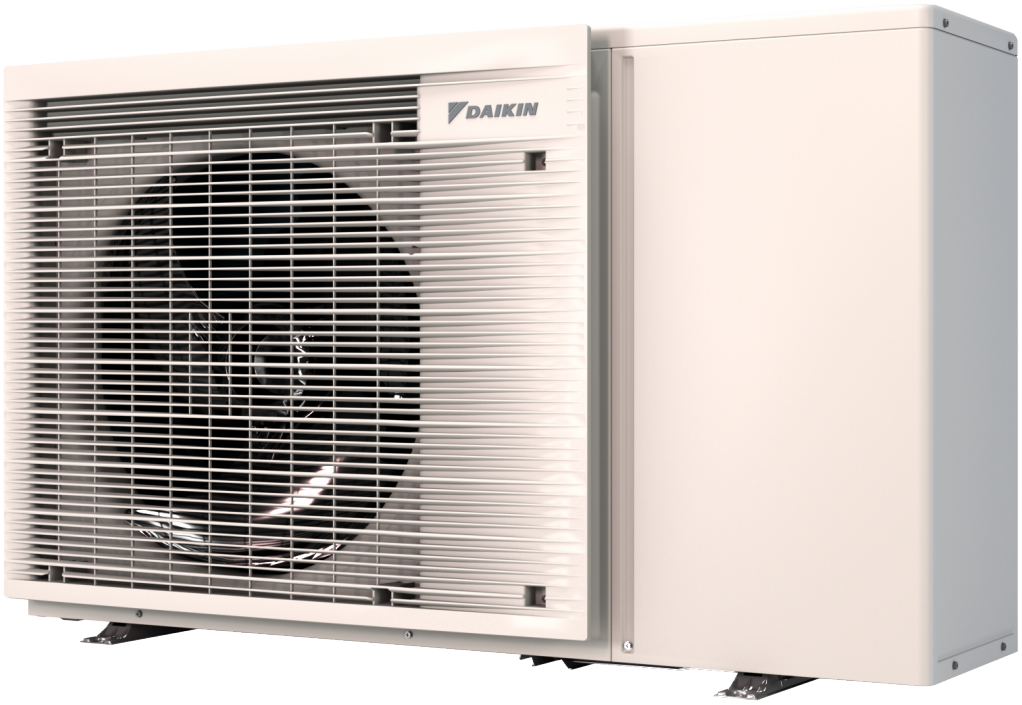
# Daikin Altherma low temperature monobloc Technical Data EBLA04-08E3V3 / EBLA04-08EV3 / EDLA04-08E3V3 / EDLA04-08EV3

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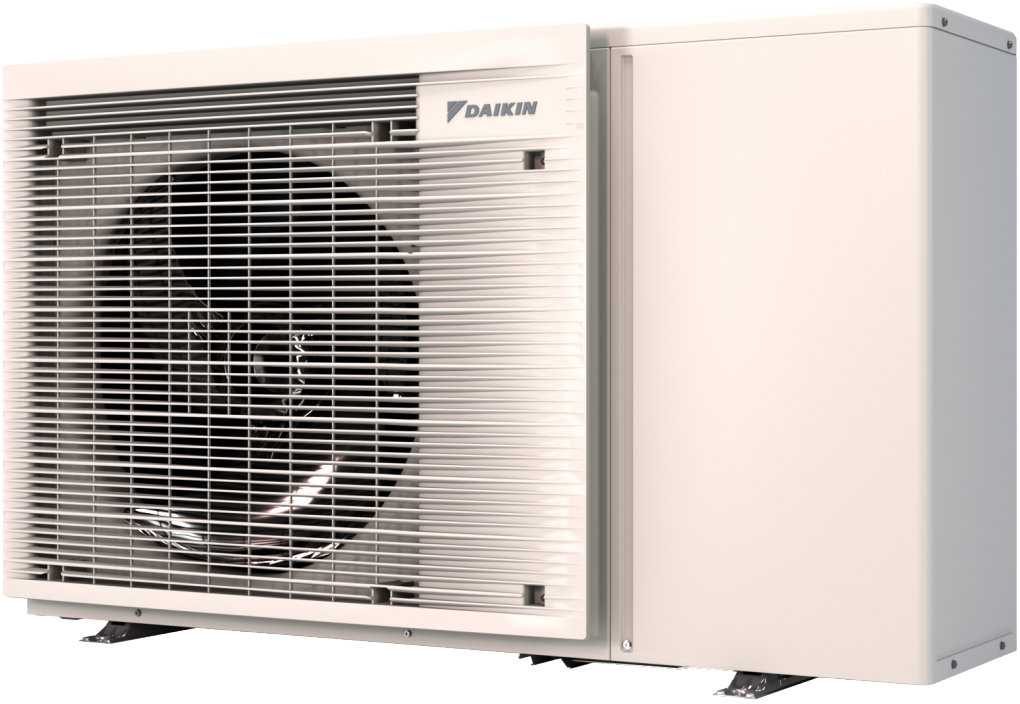
# 1 Features

## 1 - 1 EBLA04-08E(3)V3 / EDLA 04-08E(3)V3

### Air to water monobloc system, ideal when indoor space is limited

- Monobloc all-in-one concept including hydraulic parts
- W-LAN cartridge included
- Possible to combine with domestic hot water
- Energy efficient heating and cooling system based on air to water heat pump technology
- Separate back-up heater kit (optional)

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# 2 Specifications

| Technical specifications | | | | | EBLA04E3V3 | EBLA06E3V3 | EBLA08E3V3 |
|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | kW | 4.30 (1) / 4.60 (2) | 6.00 (1) / 5.90 (2) | 7.50 (1) / 7.80 (2) |
| Cooling capacity | Nom. | | | kW | 4.86 (1) / 4.52 (2) | 5.83 (1) / 5.09 (2) | 6.18 (1) / 5.44 (2) |
| Heater capacity | Step 1 | | | kW | 3 | | |
| Power input | Cooling | Nom. | | kW | 0.820 (1) / 1.36 (2) | 1.08 (1) / 1.55 (2) | 1.19 (1) / 1.73 (2) |
| | Heating | Nom. | | kW | 0.840 (1) / 1.26 (2) | 1.24 (1) / 1.69 (2) | 1.63 (1) / 2.23 (2) |
| COP | | | | | 5.10 (1) / 3.65 (2) | 4.85 (1) / 3.50 (2) | 4.60 (1) / 3.50 (2) |
| EER | | | | | 5.91 (1) / 3.32 (2) | 5.40 (1) / 3.28 (2) | 5.19 (1) / 3.14 (2) |
| Casing | Colour | | | | Ivory white | | |
| | Material | | | | Zinc coated low carbon steel | | |
| Dimensions | Unit | Height | | mm | 770 | | |
| | | Width | | mm | 1,250 | | |
| | | Depth | | mm | 362 | | |
| | Packed unit | Height | | mm | 920 | | |
| | | Width | | mm | 1,350 | | |
| | | Depth | | mm | 500 | | |
| Weight | Unit | | | kg | 91.0 | | |
| | Packed unit | | | kg | 98 | | |
| Packing | Material | | | | Carton / EPS / Wood (pallet) | | |
| Heat exchanger | Length | | | mm | 920 | | |
| | Rows | Quantity | | | 2 | | |
| | Fin pitch | | | mm | 1.40 | | |
| | Face area | | | $m^2$ | 0.658 | | |
| | Stages | Quantity | | | 32 | | |
| | Tube type | | | | ø7 Hi-XD | | |
| | Fin | Type | | | Waffle Hydrophilic Blue | | |
| | | Treatment | | | Hydrophilic | | |
| Fan | Type | | | | Propeller fan | | |
| | Quantity | | | | 1 | | |
| | Discharge direction | | | | Horizontal | | |
| Fan motor | Quantity | | | | 1 | | |
| | Model | | | | KFD-325-77-10A | | |
| | Speed | Steps | | | 10 | | |
| | | Heating | Nom. | rpm | 620 | 680 | 740 |
| | Output | | | W | 77 | | |
| Compressor | Quantity | | | | 1 | | |
| | Model | | | | 2YC71EXD#C | | |
| Compressor | Type | | | | Hermetically sealed swing compressor | | |
| PED | Category | | | | Category II | | |
| | Most critical part | Name | | | Compressor | | |
| | | Ps*V | | Bar*l | 110 | | |
| Operation range | Heating | Ambient | Min. | °CDB | -25 | | |
| | | | Max. | °CDB | 25 (3) | | |
| | | Water side | Min. | °C | 15 (3) | | |
| | | | Max. | °C | 65 (3) | | |
| | Cooling | Ambient | Min. | °CDB | 10 (3) | | |
| | | | Max. | °CDB | 43 | | |
| | | Water side | Min. | °C | 5 (3) | | |
| | | | Max. | °C | 22 | | |
| | Domestic hot water | Ambient | Min. | °CDB | -27 | | |
| | | | Max. | °CDB | 35 | | |
| | | Water side | Min. | °C | 25 | | |
| | | | Max. | °C | 55 (3) | | |
| Sound power level | Heating | Nom. | | dBA | 58.0 (1) | 60.0 (1) | 62.0 (1) |
| | Cooling | Nom. | | dBA | 61.0 (1) | 62.0 (1) | |
| Sound pressure level | Heating | Nom. | | dBA | 44.0 (1) | 47.0 (1) | 49.0 (1) |
| | Cooling | Nom. | | dBA | 48.0 (1) | 49.0 (1) | 50.0 (1) |
| Refrigerant | Type | | | | R-32 | | |
| | GWP | | | | 675.0 | | |
| | Charge | | | kg | 1.35 | | |
| | Charge | | | TCO2Eq | 0.910 | | |
| | Control | | | | Expansion valve | | |
| | Circuits | Quantity | | | 1 | | |
| Refrigerant oil | Type | | | | FW68DA | | |
| | Charged volume | | | l | 1.1 | | |
| Defrost method | | | | | Reversed cycle | | |
| Defrost control | | | | | Sensor for outdoor heat exchanger temperature | | |
| Capacity control | Method | | | | Inverter controlled | | |
| Safety devices | Item | 01 | | | High pressure switch | | |
| Pump | Quantity | | | | 1 | | |
| | Nr of speeds | | | | PWM | | |
| | Power input | | | W | 75 | | |

# 2 Specifications



| Technical specifications | | | | | EBLA04E3V3 | EBLA06E3V3 | EBLA08E3V3 |
|---|---|---|---|---|---|---|---|
| Water side Heat exchanger | Type | | | | Plate heat exchanger | | |
| | Quantity | | | | 1 | | |
| Water side Heat exchanger | Water volume | | | l | 1.01 | | |
| | Water flow rate | Heating | Nom. | l/min | 12.3 (1) / 13.2 (2) | 17.2 (1) / 16.9 (2) | 21.5 (1) / 22.4 (2) |
| | | Cooling | Nom. | l/min | 13.9 (1) / 13.0 (2) | 16.7 (1) / 14.6 (2) | 17.7 (1) / 15.6 (2) |
| | Insulation material | | | | Kaiflex | | |
| | Heater | | | W | 50.0 | | |
| Expansion vessel | Volume | | | l | 7 | | |
| | Max. water pressure | | | bar | 3 | | |
| | Pre pressure | | | bar | 1 | | |
| | Heater | | | W | 50 | | |
| Water circuit | Piping connections diameter | | | inch | G 1" (male) | | |
| | Piping length | Max. | OU - Tank | m | 10 | | |
| | Level difference | Max. | | m | 5 | | |
| | Safety valve | | | bar | 3 | | |
| | Drain valve / fill valve | | | | No | | |
| | Air purge valve | | | | Yes | | |
| General | Supplier/ Manufacturer details | Name and address | | | Daikin Industries Czech Republic s.r.o. U Nove Hospody 1/1155, 301 00 | | |
| | | 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 | | | No | | |
| | | Low-temperature heat pump | | | No | | |
| | | Supplementary heater integrated | | | Yes | | |
| | | Water-to-water heat pump | | | No | | |
| LW(A) Sound power level (according to EN14825) | | | | dB(A) | 58.0 | 60.0 | 62.0 |
| 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) | | $m^3/h$ | 2,280 | 2,520 | 2,770 |
| | Other | Capacity control | | | Inverter | | |
| | | Pck (Crankcase heater mode) | | kW | 0.000 | | |
| | | Poff (Off mode) | | kW | 0.010 | | |
| | | Psb (Standby mode) | | kW | 0.010 | | |
| | | Pto (Thermostat off) | | kW | 0.010 | | |
| Space heating | Average climate water outlet 55°C | General | Annual energy consumption | kWh | 3,769 | 4,405 | 4,939 |
| | | | ηs (Seasonal space heating efficiency) | % | 129 | 128 | 131 |
| | | | Prated at -10°C | kW | 6.0 | 7.0 | 8.0 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 14 | 16 | 18 |
| | | | SCOP | | 3.29 | 3.28 | 3.35 |
| | | | Seasonal space heating eff. class | | A++ | | |

# 2 Specifications

| Technical specifications | | | | | EBLA04E3V3 | EBLA06E3V3 | EBLA08E3V3 |
|---|---|---|---|---|---|---|---|
| Space heating | Average climate water outlet 55°C | A Condition (-7°CDB/-8°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 1.97 | 1.98 | 1.96 |
| | | | Pdh | kW | 5.3 | 5.9 | 6.9 |
| | | | PERd | % | 78.8 | 79.2 | 78.4 |
| | | B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 3.23 | 3.16 | 3.20 |
| | | | Pdh | kW | 3.3 | 3.9 | 4.4 |
| | | | PERd | % | 129.2 | 126.4 | 128.0 |
| | | C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 4.40 | 4.49 | 4.64 |
| | | | Pdh | kW | 3.0 | | 3.3 |
| | | | PERd | % | 176.0 | 179.6 | 185.6 |
| | | D Condition (12°CDB/11°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 6.10 | | 6.22 |
| | | | Pdh | kW | 3.3 | | 4.1 |
| | | | PERd | % | 244.0 | | 248.8 |
| | | Tol (temperature operating limit) | COPd | | 1.37 | 1.53 | 1.64 |
| | | | Pdh | kW | 4.0 | 5.4 | 7.1 |
| | | | PERd | % | 54.8 | 61.2 | 65.6 |
| | | | TOL | °C | -10 | | |
| | | | WTOL | °C | 55 | | |
| | | Rated heat output supplementary capacity | Psup (at Tdesign -10°C) | kW | 2.0 | 1.6 | 1.0 |
| | | Tbiv (bivalent temperature) | COPd | | 1.97 | 2.12 | 1.90 |
| | | | Pdh | kW | 5.3 | 6.1 | 7.5 |
| | | | PERd | % | 78.8 | 84.8 | 76.0 |
| | | | Tbiv | °C | -7 | -6 | -8 |
| | Cold climate water outlet 55°C | General | Annual energy consumption | kWh | 4,446 | 5,278 | 6,864 |
| | | | ηs (Seasonal space heating efficiency) | % | 108 | 109 | 112 |
| | | | Prated at -22°C | kW | 5.0 | 6.0 | 8.0 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 16 | 19 | 25 |
| | Warm climate water outlet 55°C | General | Annual energy consumption | kWh | 1,616 | 1,813 | 2,624 |
| | | | ηs (Seasonal space heating efficiency) | % | 152 | 162 | |
| | | | Prated at 2°C | kW | 4.7 | 5.6 | 8.1 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 6 | 7 | 9 |
| | Average climate water outlet 35°C | General | Annual energy consumption | kWh | 2,729 | 3,196 | 3,588 |
| | | | ηs (Seasonal space heating efficiency) | % | 179 | 178 | 181 |
| | | | Prated at -10°C | kW | 6.0 | 7.0 | 8.0 |

# 2 Specifications



| Technical specifications | | | | | EBLA04E3V3 | EBLA06E3V3 | EBLA08E3V3 |
|---|---|---|---|---|---|---|---|
| Space heating | Average climate water outlet 35°C | General | Qhe Annual energy consumption (GCV) | Gj | 10 | 12 | 13 |
| | | | SCOP | | 4.54 | 4.52 | 4.61 |
| | | | Seasonal space heating eff. class | | A+++ | | |
| | | A Condition (-7°CDB/-8°CWB) | COPd | | 2.90 | 2.86 | 2.77 |
| | | | Pdh | kW | 5.5 | 6.0 | 7.0 |
| | | | PERd | % | 116.0 | 114.4 | 110.8 |
| | | B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 4.33 | 4.25 | 4.35 |
| | | | Pdh | kW | 3.3 | 3.9 | 4.2 |
| | | | PERd | % | 173.2 | 170.0 | 174.0 |
| | | C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 6.19 | 6.30 | 6.49 |
| | | | Pdh | kW | 3.2 | | 3.3 |
| | | | PERd | % | 247.6 | 252.0 | 259.6 |
| | | D Condition (12°CDB/11°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 7.78 | | 8.52 |
| | | | Pdh | kW | 3.3 | | 3.9 |
| | | | PERd | % | 311.2 | | 340.8 |
| | | Tol (temperature operating limit) | COPd | | 2.56 | 2.49 | 2.41 |
| | | | Pdh | kW | 5.2 | 6.0 | 6.9 |
| | | | PERd | % | 102.4 | 99.6 | 96.4 |
| | | | TOL | °C | -10 | | |
| | | | WTOL | °C | 35 | | |
| | | Tbiv (bivalent temperature) | COPd | | 2.90 | 3.07 | 2.66 |
| | | | Pdh | kW | 5.5 | 6.1 | 7.5 |
| | | | PERd | % | 116.0 | 122.8 | 106.4 |
| | | | Tbiv | °C | -7 | -6 | -8 |
| | | Rated heat output supplementary capacity | Psup (at Tdesign -10°C) | kW | 0.8 | 1.0 | 1.1 |
| | Cold climate water outlet 35°C | General | Annual energy consumption | kWh | 3,208 | 3,727 | 5,012 |
| | | | ηs (Seasonal space heating efficiency) | % | 151 | 156 | 154 |
| | | | Prated at -22°C | kW | 5 | 6 | 8 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 11.5 | 13.4 | 18.0 |
| | Warm climate water outlet 35°C | General | Annual energy consumption | kWh | 1,095 | 1,232 | 1,393 |
| | | | ηs (Seasonal space heating efficiency) | % | 251 | 257 | 266 |
| | | | Prated at 2°C | kW | 5.2 | 6.0 | 7.0 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 4 | | 5 |

| Electrical specifications | | | | | EBLA04E3V3 | EBLA06E3V3 | EBLA08E3V3 |
|---|---|---|---|---|---|---|---|
| Compressor component | Main power supply | Phase | | | 3N~ | | |
| | | Voltage | | V | 220 | | |
| Hydraulic component | Back-up heater current | Type | | | 3V3 | | |
| | | Power supply | Phase | | 1~ | | |
| | | | Frequency | Hz | 50 | | |
| | | | Voltage | V | 230 | | |
| | | Running current | Back-up heater | A | 13.0 | | |
| | Voltage range | Min. | | % | 0 | | |
| | | Max. | | % | 10 | | |
| Power supply | Name | | | | V3 | | |
| | Phase | | | | 1~ | | |
| | Frequency | | | Hz | 50 | | |
| | Voltage | | | V | 230 +/-10% | | |

# 2 Specifications



| Electrical specifications | | | | EBLA04E3V3 | EBLA06E3V3 | EBLA08E3V3 |
|---|---|---|---|---|---|---|
| Current | Maximum running current | Heating | A | 19.9 | | 24.0 |
| | Recommended fuses | | A | 20 | | 25 |

(1)Condition 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)For more details, see operation range drawing

| Technical specifications | | | | | EBLA04EV3 | EBLA06EV3 | EBLA08EV3 |
|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | kW | 4.30 (1) / 4.60 (2) | 6.00 (1) / 5.90 (2) | 7.50 (1) / 7.80 (2) |
| Cooling capacity | Nom. | | | kW | 4.86 (1) / 4.52 (2) | 5.83 (1) / 5.09 (2) | 6.18 (1) / 5.44 (2) |
| Power input | Cooling | Nom. | | kW | 0.820 (1) / 1.36 (2) | 1.08 (1) / 1.55 (2) | 1.19 (1) / 1.73 (2) |
| | Heating | Nom. | | kW | 0.840 (1) / 1.26 (2) | 1.24 (1) / 1.69 (2) | 1.63 (1) / 2.23 (2) |
| COP | | | | | 5.10 (1) / 3.65 (2) | 4.85 (1) / 3.50 (2) | 4.60 (1) / 3.50 (2) |
| EER | | | | | 5.91 (1) / 3.32 (2) | 5.40 (1) / 3.28 (2) | 5.19 (1) / 3.14 (2) |
| Casing | Colour | | | | Ivory white | | |
| | Material | | | | Zinc coated low carbon steel | | |
| Dimensions | Unit | Height | | mm | 770 | | |
| | | Width | | mm | 1,250 | | |
| | | Depth | | mm | 362 | | |
| | Packed unit | Height | | mm | 920 | | |
| | | Width | | mm | 1,350 | | |
| | | Depth | | mm | 500 | | |
| Weight | Unit | | | kg | 88.0 | | |
| | Packed unit | | | kg | 95 | | |
| Packing | Material | | | | Carton / EPS / Wood (pallet) | | |
| Heat exchanger | Length | | | mm | 920 | | |
| | Rows | Quantity | | | 2 | | |
| | Fin pitch | | | mm | 1.40 | | |
| | Face area | | | $m^2$ | 0.658 | | |
| | Stages | Quantity | | | 32 | | |
| | Tube type | | | | ø7 Hi-XD | | |
| | Fin | Type | | | Waffle Hydrophilic Blue | | |
| | | Treatment | | | Hydrophilic | | |
| Fan | Type | | | | Propeller fan | | |
| | Quantity | | | | 1 | | |
| | Discharge direction | | | | Horizontal | | |
| Fan motor | Quantity | | | | 1 | | |
| | Model | | | | KFD-325-77-10A | | |
| | Speed | Steps | | | 10 | | |
| | | Heating | Nom. | rpm | 620 | 680 | 740 |
| | Output | | | W | 77 | | |
| Compressor | Quantity | | | | 1 | | |
| | Model | | | | 2YC71EXD#C | | |
| | Type | | | | Hermetically sealed swing compressor | | |
| PED | Category | | | | Category II | | |
| | Most critical part | Name | | | Compressor | | |
| | | Ps*V | | Bar*l | 110 | | |
| Operation range | Heating | Ambient | Min. | °CDB | -25 | | |
| | | | Max. | °CDB | 25 (3) | | |
| | | Water side | Min. | °C | 9 (3) | | |
| | | | Max. | °C | 65 (3) | | |
| | Cooling | Ambient | Min. | °CDB | 10 (3) | | |
| | | | Max. | °CDB | 43 | | |
| | | Water side | Min. | °C | 5 (3) | | |
| | | | Max. | °C | 22 | | |
| | Domestic hot water | Ambient | Min. | °CDB | -27 | | |
| | | | Max. | °CDB | 35 | | |
| | | Water side | Min. | °C | 25 | | |
| | | | Max. | °C | 55 (3) | | |
| Sound power level | Heating | Nom. | | dBA | 58.0 (1) | 60.0 (1) | 62.0 (1) |
| | Cooling | Nom. | | dBA | 61.0 (1) | 62.0 (1) | |
| Sound pressure level | Heating | Nom. | | dBA | 44.0 (1) | 47.0 (1) | 49.0 (1) |
| | Cooling | Nom. | | dBA | 48.0 (1) | 49.0 (1) | 50.0 (1) |
| Refrigerant | Type | | | | R-32 | | |
| | GWP | | | | 675.0 | | |
| | Charge | | | kg | 1.35 | | |
| | Charge | | | TCO2Eq | 0.910 | | |
| | Control | | | | Expansion valve | | |
| | Circuits | Quantity | | | 1 | | |

# 2 Specifications



| Technical specifications | | | | | EBLA04EV3 | EBLA06EV3 | EBLA08EV3 |
|---|---|---|---|---|---|---|---|
| Refrigerant oil | Type | | | | FW68DA | | |
| | Charged volume | | | l | 1.1 | | |
| Defrost method | | | | | Reversed cycle | | |
| Defrost control | | | | | Sensor for outdoor heat exchanger temperature | | |
| Capacity control | Method | | | | Inverter controlled | | |
| Safety devices | Item | 01 | | | High pressure switch | | |
| Pump | Quantity | | | | 1 | | |
| | Nr of speeds | | | | PWM | | |
| | Power input | | | W | 75 | | |
| Water side Heat exchanger | Type | | | | Plate heat exchanger | | |
| | Quantity | | | | 1 | | |
| | Water volume | | | l | 1.01 | | |
| Water side Heat exchanger | Water flow rate | Heating | Nom. | l/min | 12.3 (1) / 13.2 (2) | 17.2 (1) / 16.9 (2) | 21.5 (1) / 22.4 (2) |
| | | Cooling | Nom. | l/min | 13.9 (1) / 13.0 (2) | 16.7 (1) / 14.6 (2) | 17.7 (1) / 15.6 (2) |
| | Insulation material | | | | Kaiflex | | |
| | Heater | | | W | 50.0 | | |
| Expansion vessel | Volume | | | l | 7 | | |
| | Max. water pressure | | | bar | 3 | | |
| | Pre pressure | | | bar | 1 | | |
| | Heater | | | W | 50 | | |
| Water circuit | Piping connections diameter | | | inch | G 1" (male) | | |
| | Piping length | Max. | OU - Tank | m | 10 | | |
| | Level difference | Max. | | m | 5 | | |
| | Safety valve | | | bar | 3 | | |
| | Drain valve / fill valve | | | | No | | |
| | Air purge valve | | | | Yes | | |
| General | Supplier/ Manufacturer details | Name and address | | | Daikin Industries Czech Republic s.r.o. U Nove Hospody 1/1155, 301 00 | | |
| | | 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 | | | No | | |
| | | Low-temperature heat pump | | | No | | |
| | | Supplementary heater integrated | | | No | | |
| | | Water-to-water heat pump | | | No | | |
| LW(A) Sound power level (according to EN14825) | | | | dB(A) | 58.0 | 60.0 | 62.0 |
| 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) | | $m^3/h$ | 2,280 | 2,520 | 2,770 |
| | Other | Capacity control | | | Inverter | | |
| | | Pck (Crankcase heater mode) | | kW | 0.000 | | |
| | | Poff (Off mode) | | kW | 0.010 | | |
| | | Psb (Standby mode) | | kW | 0.010 | | |
| | | Pto (Thermostat off) | | kW | 0.010 | | |
| Space heating | Average climate water outlet 55°C | General | Annual energy consumption | kWh | 3,769 | 4,405 | 4,939 |
| | | | ηs (Seasonal space heating efficiency) | % | 129 | 128 | 131 |
| | | | Prated at -10°C | kW | 6.0 | 7.0 | 8.0 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 14 | 16 | 18 |
| | | | SCOP | | 3.29 | 3.28 | 3.35 |
| | | | Seasonal space heating eff. class | | A++ | | |
| | | A Condition (-7°CDB/-8°CWB) | Cdh (Degradation heating) | | 1.0 | | |

# 2 Specifications

| Technical specifications | | | | | EBLA04EV3 | EBLA06EV3 | EBLA08EV3 |
|---|---|---|---|---|---|---|---|
| Space heating | Average climate water outlet 55°C | A Condition (-7°CDB/-8°CWB) | COPd | | 1.97 | 1.98 | 1.96 |
| | | | Pdh | kW | 5.3 | 5.9 | 6.9 |
| | | | PERd | % | 78.8 | 79.2 | 78.4 |
| | | B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 3.23 | 3.16 | 3.20 |
| | | | Pdh | kW | 3.3 | 3.9 | 4.4 |
| | | | PERd | % | 129.2 | 126.4 | 128.0 |
| | | C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 4.40 | 4.49 | 4.64 |
| | | | Pdh | kW | 3.0 | | 3.3 |
| | | | PERd | % | 176.0 | 179.6 | 185.6 |
| | | D Condition (12°CDB/11°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 6.10 | | 6.22 |
| | | | Pdh | kW | 3.3 | | 4.1 |
| | | | PERd | % | 244.0 | | 248.8 |
| | | Tol (temperature operating limit) | COPd | | 1.37 | 1.53 | 1.64 |
| | | | Pdh | kW | 4.0 | 5.4 | 7.1 |
| | | | PERd | % | 54.8 | 61.2 | 65.6 |
| | | | TOL | °C | -10 | | |
| | | | WTOL | °C | 55 | | |
| | | Rated heat output supplementary capacity | Psup (at Tdesign -10°C) | kW | 2.0 | 1.6 | 1.0 |
| | | Tbiv (bivalent temperature) | COPd | | 1.97 | 2.12 | 1.90 |
| | | | Pdh | kW | 5.3 | 6.1 | 7.5 |
| | | | PERd | % | 78.8 | 84.8 | 76.0 |
| | | | Tbiv | °C | -7 | -6 | -8 |
| | Cold climate water outlet 55°C | General | Annual energy consumption | kWh | 4,446 | 5,278 | 6,864 |
| | | | ηs (Seasonal space heating efficiency) | % | 108 | 109 | 112 |
| | | | Prated at -22°C | kW | 5.0 | 6.0 | 8.0 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 16 | 19 | 25 |
| | Warm climate water outlet 55°C | General | Annual energy consumption | kWh | 1,616 | 1,813 | 2,624 |
| | | | ηs (Seasonal space heating efficiency) | % | 152 | 162 | |
| | | | Prated at 2°C | kW | 4.7 | 5.6 | 8.1 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 6 | 7 | 9 |
| | Average climate water outlet 35°C | General | Annual energy consumption | kWh | 2,729 | 3,196 | 3,588 |
| | | | ηs (Seasonal space heating efficiency) | % | 179 | 178 | 181 |
| | | | Prated at -10°C | kW | 6.0 | 7.0 | 8.0 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 10 | 12 | 13 |

# 2 Specifications



| Technical specifications | | | | | EBLA04EV3 | EBLA06EV3 | EBLA08EV3 |
|---|---|---|---|---|---|---|---|
| Space heating | Average climate water outlet 35°C | General | SCOP | | 4.54 | 4.52 | 4.61 |
| | | | Seasonal space heating eff. class | | A+++ | | |
| | | A Condition (-7°CDB/-8°CWB) | COPd | | 2.90 | 2.86 | 2.77 |
| | | | Pdh | kW | 5.5 | 6.0 | 7.0 |
| | | | PERd | % | 116.0 | 114.4 | 110.8 |
| | | B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 4.33 | 4.25 | 4.35 |
| | | | Pdh | kW | 3.3 | 3.9 | 4.2 |
| | | | PERd | % | 173.2 | 170.0 | 174.0 |
| | | C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 6.19 | 6.30 | 6.49 |
| | | | Pdh | kW | 3.2 | | 3.3 |
| | | | PERd | % | 247.6 | 252.0 | 259.6 |
| | | D Condition (12°CDB/11°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 7.78 | | 8.52 |
| | | | Pdh | kW | 3.3 | | 3.9 |
| | | | PERd | % | 311.2 | | 340.8 |
| | | Tol (temperature operating limit) | COPd | | 2.56 | 2.49 | 2.41 |
| | | | Pdh | kW | 5.2 | 6.0 | 6.9 |
| | | | PERd | % | 102.4 | 99.6 | 96.4 |
| | | | TOL | °C | -10 | | |
| | | | WTOL | °C | 35 | | |
| | | Tbiv (bivalent temperature) | COPd | | 2.90 | 3.07 | 2.66 |
| | | | Pdh | kW | 5.5 | 6.1 | 7.5 |
| | | | PERd | % | 116.0 | 122.8 | 106.4 |
| | | | Tbiv | °C | -7 | -6 | -8 |
| | | Rated heat output supplementary capacity | Psup (at Tdesign -10°C) | kW | 0.8 | 1.0 | 1.1 |
| | Cold climate water outlet 35°C | General | Annual energy consumption | kWh | 3,208 | 3,727 | 5,012 |
| | | | ηs (Seasonal space heating efficiency) | % | 151 | 156 | 154 |
| | | | Prated at -22°C | kW | 5 | 6 | 8 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 11.5 | 13.4 | 18.0 |
| | Warm climate water outlet 35°C | General | Annual energy consumption | kWh | 1,095 | 1,232 | 1,393 |
| | | | ηs (Seasonal space heating efficiency) | % | 251 | 257 | 266 |
| | | | Prated at 2°C | kW | 5.2 | 6.0 | 7.0 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 4 | | 5 |

| Electrical specifications | | | | EBLA04EV3 | EBLA06EV3 | EBLA08EV3 |
|---|---|---|---|---|---|---|
| Compressor component | Main power supply | Phase | | 3N~ | | |
| | | Voltage | V | 220 | | |
| Power supply | Name | | | V3 | | |
| | Phase | | | 1~ | | |
| | Frequency | | Hz | 50 | | |
| | Voltage | | V | 230 +/-10% | | |
| Current | Maximum running current | Heating | A | 19.9 | | 24.0 |
| | Recommended fuses | | A | 20 | | 25 |

(1)Condition 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)For more details, see operation range drawing

| Technical specifications | | | EDLA04E3V3 | EDLA06E3V3 | EDLA08E3V3 |
|---|---|---|---|---|---|
| Heating capacity | Nom. | kW | 4.30 (1) / 4.60 (2) | 6.00 (1) / 5.90 (2) | 7.50 (1) / 7.80 (2) |
| Heater capacity | Step 1 | kW | 3 | | |
| Power input | Heating Nom. | kW | 0.840 (1) / 1.26 (2) | 1.24 (1) / 1.69 (2) | 1.63 (1) / 2.23 (2) |
| COP | | | 5.10 (1) / 3.65 (2) | 4.85 (1) / 3.50 (2) | 4.60 (1) / 3.50 (2) |

# 2 Specifications



| Technical specifications | | | | | EDLA04E3V3 | EDLA06E3V3 | EDLA08E3V3 |
|---|---|---|---|---|---|---|---|
| Casing | Colour | | | | Ivory white | | |
| | Material | | | | Zinc coated low carbon steel | | |
| Dimensions | Unit | Height | | mm | 770 | | |
| | | Width | | mm | 1,250 | | |
| | | Depth | | mm | 362 | | |
| | Packed unit | Height | | mm | 920 | | |
| | | Width | | mm | 1,350 | | |
| | | Depth | | mm | 500 | | |
| Weight | Unit | | | kg | 91.0 | | |
| | Packed unit | | | kg | 98 | | |
| Packing | Material | | | | Carton / EPS / Wood (pallet) | | |
| Heat exchanger | Length | | | mm | 920 | | |
| | Rows | Quantity | | | 2 | | |
| | Fin pitch | | | mm | 1.40 | | |
| | Face area | | | $m^2$ | 0.658 | | |
| | Stages | Quantity | | | 32 | | |
| | Tube type | | | | ø7 Hi-XD | | |
| | Fin | Type | | | Waffle Hydrophilic Blue | | |
| | | Treatment | | | Hydrophilic | | |
| Fan | Type | | | | Propeller fan | | |
| | Quantity | | | | 1 | | |
| | Discharge direction | | | | Horizontal | | |
| Fan motor | Quantity | | | | 1 | | |
| | Model | | | | KFD-325-77-10A | | |
| | Speed | Steps | | | 10 | | |
| | | Heating | Nom. | rpm | 620 | 680 | 740 |
| | Output | | | W | 77 | | |
| Compressor | Quantity | | | | 1 | | |
| | Model | | | | 2YC71EXD#C | | |
| | Type | | | | Hermetically sealed swing compressor | | |
| PED | Category | | | | Category II | | |
| | Most critical part | Name | | | Compressor | | |
| PED | Most critical part | Ps*V | | Bar*l | 110 | | |
| Operation range | Heating | Ambient | Min. | °CDB | -25 | | |
| | | | Max. | °CDB | 25 (3) | | |
| | | Water side | Min. | °C | 15 (3) | | |
| | | | Max. | °C | 65 (3) | | |
| | Domestic hot water | Ambient | Min. | °CDB | -27 | | |
| | | | Max. | °CDB | 35 | | |
| | | Water side | Min. | °C | 25 | | |
| | | | Max. | °C | 55 (3) | | |
| Sound power level | Heating | Nom. | | dBA | 58.0 (1) | 60.0 (1) | 62.0 (1) |
| Sound pressure level | Heating | Nom. | | dBA | 44.0 (1) | 47.0 (1) | 49.0 (1) |
| Refrigerant | Type | | | | R-32 | | |
| | GWP | | | | 675.0 | | |
| | Charge | | | kg | 1.35 | | |
| | Charge | | | TCO2Eq | 0.910 | | |
| | Control | | | | Expansion valve | | |
| | Circuits | Quantity | | | 1 | | |
| Refrigerant oil | Type | | | | FW68DA | | |
| | Charged volume | | | l | 1.1 | | |
| Defrost method | | | | | Reversed cycle | | |
| Defrost control | | | | | Sensor for outdoor heat exchanger temperature | | |
| Capacity control | Method | | | | Inverter controlled | | |
| Safety devices | Item | 01 | | | High pressure switch | | |
| Pump | Quantity | | | | 1 | | |
| | Nr of speeds | | | | PWM | | |
| | Power input | | | W | 75 | | |
| Water side Heat exchanger | Type | | | | Plate heat exchanger | | |
| | Quantity | | | | 1 | | |
| | Water volume | | | l | 1.01 | | |
| | Water flow rate | Heating | Nom. | l/min | 12.3 (1) / 13.2 (2) | 17.2 (1) / 16.9 (2) | 21.5 (1) / 22.4 (2) |
| | Insulation material | | | | Kaiflex | | |
| | Heater | | | W | 50.0 | | |

# 2 Specifications



| Technical specifications | | | | | EDLA04E3V3 | EDLA06E3V3 | EDLA08E3V3 |
|---|---|---|---|---|---|---|---|
| Expansion vessel | Volume | | | l | 7 | | |
| | Max. water pressure | | | bar | 3 | | |
| | Pre pressure | | | bar | 1 | | |
| | Heater | | | W | 50 | | |
| Water circuit | Piping connections diameter | | | inch | G 1" (male) | | |
| Water circuit | Piping length | Max. | OU - Tank | m | 10 | | |
| | Level difference | Max. | | m | 5 | | |
| | Safety valve | | | bar | 3 | | |
| | Drain valve / fill valve | | | | No | | |
| | Air purge valve | | | | Yes | | |
| General | Supplier/ Manufacturer details | Name and address | | | Daikin Industries Czech Republic s.r.o. U Nove Hospody 1/1155, 301 00 | | |
| | | 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 | | | No | | |
| | | Low-temperature heat pump | | | No | | |
| | | Supplementary heater integrated | | | Yes | | |
| | | Water-to-water heat pump | | | No | | |
| LW(A) Sound power level (according to EN14825) | | | | dB(A) | 58.0 | 60.0 | 62.0 |
| 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) | | $m^3/h$ | 2,280 | 2,520 | 2,770 |
| | Other | Capacity control | | | Inverter | | |
| | | Pck (Crankcase heater mode) | | kW | 0.000 | | |
| | | Poff (Off mode) | | kW | 0.010 | | |
| | | Psb (Standby mode) | | kW | 0.010 | | |
| | | Pto (Thermostat off) | | kW | 0.010 | | |
| Space heating | Average climate water outlet 55°C | General | Annual energy consumption | kWh | 3,806 | 4,441 | 4,975 |
| | | | ηs (Seasonal space heating efficiency) | % | 127 | | 130 |
| | | | Prated at -10°C | kW | 6.0 | 7.0 | 8.0 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 14 | 16 | 18 |
| | | | SCOP | | 3.26 | | 3.32 |
| | | | Seasonal space heating eff. class | | A++ | | |
| | | A Condition (-7°CDB/-8°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 1.97 | 1.98 | 1.96 |
| | | | Pdh | kW | 5.3 | 5.9 | 6.9 |
| | | | PERd | % | 78.8 | 79.2 | 78.4 |
| | | B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 3.23 | 3.16 | 3.20 |
| | | | Pdh | kW | 3.3 | 3.9 | 4.4 |
| | | | PERd | % | 129.2 | 126.4 | 128.0 |
| | | C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 4.40 | 4.49 | 4.64 |

# 2 Specifications

| Technical specifications | | | | | EDLA04E3V3 | EDLA06E3V3 | EDLA08E3V3 |
|---|---|---|---|---|---|---|---|
| Space heating | Average climate water outlet 55°C | C Condition (7°CDB/6°CWB) | Pdh | kW | 3.0 | | 3.3 |
| | | | PERd | % | 176.0 | 179.6 | 185.6 |
| | | D Condition (12°CDB/11°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 6.10 | | 6.22 |
| | | | Pdh | kW | 3.3 | | 4.1 |
| | | | PERd | % | 244.0 | | 248.8 |
| | | Tol (temperature operating limit) | COPd | | 1.37 | 1.53 | 1.64 |
| | | | Pdh | kW | 4.0 | 5.4 | 7.1 |
| | | | PERd | % | 54.8 | 61.2 | 65.6 |
| | | | TOL | °C | -10 | | |
| | | | WTOL | °C | 55 | | |
| | | Rated heat output supplementary capacity | Psup (at Tdesign -10°C) | kW | 2.0 | 1.6 | 1.0 |
| | | Tbiv (bivalent temperature) | COPd | | 1.97 | 2.12 | 1.90 |
| | | | Pdh | kW | 5.3 | 6.1 | 7.5 |
| | | | PERd | % | 78.8 | 84.8 | 76.0 |
| | | | Tbiv | °C | -7 | -6 | -8 |
| | Cold climate water outlet 55°C | General | Annual energy consumption | kWh | 4,468 | 5,300 | 6,886 |
| | | | ηs (Seasonal space heating efficiency) | % | 107 | 109 | 112 |
| | | | Prated at -22°C | kW | 5.0 | 6.0 | 8.0 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 16 | 19 | 25 |
| | Warm climate water outlet 55°C | General | Annual energy consumption | kWh | 1,660 | 1,858 | 2,669 |
| | | | ηs (Seasonal space heating efficiency) | % | 148 | 158 | 159 |
| | | | Prated at 2°C | kW | 4.7 | 5.6 | 8.1 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 6 | 7 | 10 |
| | Average climate water outlet 35°C | General | Annual energy consumption | kWh | 2,766 | 3,233 | 3,625 |
| | | | ηs (Seasonal space heating efficiency) | % | 176 | | 179 |
| | | | Prated at -10°C | kW | 6.0 | 7.0 | 8.0 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 10 | 12 | 13 |
| | | | SCOP | | 4.48 | 4.47 | 4.56 |
| | | | Seasonal space heating eff. class | | A+++ | | |
| | | A Condition (-7°CDB/-8°CWB) | COPd | | 2.90 | 2.86 | 2.77 |
| | | | Pdh | kW | 5.5 | 6.0 | 7.0 |
| | | | PERd | % | 116.0 | 114.4 | 110.8 |
| | | B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 4.33 | 4.25 | 4.35 |
| | | | Pdh | kW | 3.3 | 3.9 | 4.2 |
| | | | PERd | % | 173.2 | 170.0 | 174.0 |

# 2 Specifications



| Technical specifications | | | | | EDLA04E3V3 | EDLA06E3V3 | EDLA08E3V3 |
|---|---|---|---|---|---|---|---|
| Space heating | Average climate water outlet 35°C | C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 6.19 | 6.30 | 6.49 |
| | | | Pdh | kW | 3.2 | | 3.3 |
| | | | PERd | % | 247.6 | 252.0 | 259.6 |
| | | D Condition (12°CDB/11°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 7.78 | | 8.52 |
| | | | Pdh | kW | 3.3 | | 3.9 |
| | | | PERd | % | 311.2 | | 340.8 |
| | | Tol (temperature operating limit) | COPd | | 2.56 | 2.49 | 2.41 |
| | | | Pdh | kW | 5.2 | 6.0 | 6.9 |
| | | | PERd | % | 102.4 | 99.6 | 96.4 |
| | | | TOL | °C | -10 | | |
| | | | WTOL | °C | 35 | | |
| | | Tbiv (bivalent temperature) | COPd | | 2.90 | 3.07 | 2.66 |
| | | | Pdh | kW | 5.5 | 6.1 | 7.5 |
| | | | PERd | % | 116.0 | 122.8 | 106.4 |
| | | | Tbiv | °C | -7 | -6 | -8 |
| | | Rated heat output supplementary capacity | Psup (at Tdesign -10°C) | kW | 0.8 | 1.0 | 1.1 |
| | Cold climate water outlet 35°C | General | Annual energy consumption | kWh | 3,230 | 3,749 | 5,034 |
| | | | ηs (Seasonal space heating efficiency) | % | 150 | 155 | 154 |
| | | | Prated at -22°C | kW | 5 | 6 | 8 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 11.6 | 13.5 | 18.1 |
| | Warm climate water outlet 35°C | General | Annual energy consumption | kWh | 1,139 | 1,276 | 1,437 |
| | | | ηs (Seasonal space heating efficiency) | % | 241 | 249 | 257 |
| | | | Prated at 2°C | kW | 5.2 | 6.0 | 7.0 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 4 | 5 | |

| Electrical specifications | | | | | EDLA04E3V3 | EDLA06E3V3 | EDLA08E3V3 |
|---|---|---|---|---|---|---|---|
| Compressor component | Main power supply | Phase | | | 3N~ | | |
| | | Voltage | | V | 220 | | |
| Hydraulic component | Back-up heater current | Type | | | 3V3 | | |
| | | Power supply | Phase | | 1~ | | |
| | | | Frequency | Hz | 50 | | |
| | | | Voltage | V | 230 | | |
| | | Running current | Back-up heater | A | 13.0 | | |
| | Voltage range | Min. | | % | 0 | | |
| | | Max. | | % | 10 | | |
| Power supply | Name | | | | V3 | | |
| | Phase | | | | 1~ | | |
| | Frequency | | | Hz | 50 | | |
| | Voltage | | | V | 230 +/-10% | | |
| Current | Maximum running current | Heating | | A | 19.9 | | 24.0 |
| | Recommended fuses | | | A | 20 | | 25 |

(1)Condition 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)For more details, see operation range drawing

| Technical specifications | | | | EDLA04EV3 | EDLA06EV3 | EDLA08EV3 |
|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | kW | 4.30 (1) / 4.60 (2) | 6.00 (1) / 5.90 (2) | 7.50 (1) / 7.80 (2) |
| Power input | Heating | Nom. | kW | 0.840 (1) / 1.26 (2) | 1.24 (1) / 1.69 (2) | 1.63 (1) / 2.23 (2) |
| COP | | | | 5.10 (1) / 3.65 (2) | 4.85 (1) / 3.50 (2) | 4.60 (1) / 3.50 (2) |
| Casing | Colour | | | Ivory white | | |
| | Material | | | Zinc coated low carbon steel | | |

# 2 Specifications

| Technical specifications | | | | | | EDLA04EV3 | EDLA06EV3 | EDLA08EV3 |
|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | Height | | | mm | 770 | | |
| | | Width | | | mm | 1,250 | | |
| | | Depth | | | mm | 362 | | |
| | Packed unit | Height | | | mm | 920 | | |
| | | Width | | | mm | 1,350 | | |
| | | Depth | | | mm | 500 | | |
| Weight | Unit | | | | kg | 88.0 | | |
| | Packed unit | | | | kg | 95 | | |
| Packing | Material | | | | | Carton / EPS / Wood (pallet) | | |
| Heat exchanger | Length | | | | mm | 920 | | |
| | Rows | Quantity | | | | 2 | | |
| | Fin pitch | | | | mm | 1.40 | | |
| | Face area | | | | $m^2$ | 0.658 | | |
| | Stages | Quantity | | | | 32 | | |
| | Tube type | | | | | ø7 Hi-XD | | |
| | Fin | Type | | | | Waffle Hydrophilic Blue | | |
| | | Treatment | | | | Hydrophilic | | |
| Fan | Type | | | | | Propeller fan | | |
| | Quantity | | | | | 1 | | |
| | Discharge direction | | | | | Horizontal | | |
| Fan motor | Quantity | | | | | 1 | | |
| | Model | | | | | KFD-325-77-10A | | |
| | Speed | Steps | | | | 10 | | |
| | | Heating | Nom. | | rpm | 620 | 680 | 740 |
| | Output | | | | W | 77 | | |
| Compressor | Quantity | | | | | 1 | | |
| | Model | | | | | 2YC71EXD#C | | |
| | Type | | | | | Hermetically sealed swing compressor | | |
| PED | Category | | | | | Category II | | |
| | Most critical part | Name | | | | Compressor | | |
| | | Ps*V | | | Bar*l | 110 | | |
| Operation range | Heating | Ambient | Min. | | °CDB | -25 | | |
| | | | Max. | | °CDB | 25 (3) | | |
| | | Water side | Min. | | °C | 9 (3) | | |
| | | | Max. | | °C | 65 (3) | | |
| | Domestic hot water | Ambient | Min. | | °CDB | -27 | | |
| | | | Max. | | °CDB | 35 | | |
| | | Water side | Min. | | °C | 25 | | |
| | | | Max. | | °C | 55 (3) | | |
| Sound power level | Heating | Nom. | | | dBA | 58.0 (1) | 60.0 (1) | 62.0 (1) |
| Sound pressure level | Heating | Nom. | | | dBA | 44.0 (1) | 47.0 (1) | 49.0 (1) |
| Refrigerant | Type | | | | | R-32 | | |
| | GWP | | | | | 675.0 | | |
| | Charge | | | | kg | 1.35 | | |
| | Charge | | | | TCO2Eq | 0.910 | | |
| | Control | | | | | Expansion valve | | |
| | Circuits | Quantity | | | | 1 | | |
| Refrigerant oil | Type | | | | | FW68DA | | |
| | Charged volume | | | | l | 1.1 | | |
| Defrost method | | | | | | Reversed cycle | | |
| Defrost control | | | | | | Sensor for outdoor heat exchanger temperature | | |
| Capacity control | Method | | | | | Inverter controlled | | |
| Safety devices | Item | 01 | | | | High pressure switch | | |
| Pump | Quantity | | | | | 1 | | |
| | Nr of speeds | | | | | PWM | | |
| | Power input | | | | W | 75 | | |
| Water side Heat exchanger | Type | | | | | Plate heat exchanger | | |
| | Quantity | | | | | 1 | | |
| | Water volume | | | | l | 1.01 | | |
| | Water flow rate | Heating | Nom. | | l/min | 12.3 (1) / 13.2 (2) | 17.2 (1) / 16.9 (2) | 21.5 (1) / 22.4 (2) |
| | Insulation material | | | | | Kaiflex | | |
| | Heater | | | | W | 50.0 | | |
| Expansion vessel | Volume | | | | l | 7 | | |
| | Max. water pressure | | | | bar | 3 | | |
| | Pre pressure | | | | bar | 1 | | |
| | Heater | | | | W | 50 | | |
| Water circuit | Piping connections diameter | | | | inch | G 1" (male) | | |
| | Piping length | Max. | OU - Tank | | m | 10 | | |

# 2 Specifications



| Technical specifications | | | | | EDLA04EV3 | EDLA06EV3 | EDLA08EV3 |
|---|---|---|---|---|---|---|---|
| Water circuit | Level difference | Max. | | m | 5 | | |
| | Safety valve | | | bar | 3 | | |
| | Drain valve / fill valve | | | | No | | |
| | Air purge valve | | | | Yes | | |
| General | Supplier/ Manufacturer details | Name and address | | | Daikin Industries Czech Republic s.r.o. U Nove Hospody 1/1155, 301 00 | | |
| | | 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 | | | No | | |
| | | Low-temperature heat pump | | | No | | |
| | | Supplementary heater integrated | | | No | | |
| | | Water-to-water heat pump | | | No | | |
| LW(A) Sound power level (according to EN14825) | | | | dB(A) | 58.0 | 60.0 | 62.0 |
| 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) | | $m^3/h$ | 2,280 | 2,520 | 2,770 |
| | Other | Capacity control | | | Inverter | | |
| | | Pck (Crankcase heater mode) | | kW | 0.000 | | |
| | | Poff (Off mode) | | kW | 0.010 | | |
| | | Psb (Standby mode) | | kW | 0.010 | | |
| | | Pto (Thermostat off) | | kW | 0.010 | | |
| Space heating | Average climate water outlet 55°C | General | Annual energy consumption | kWh | 3,806 | 4,441 | 4,975 |
| | | | ηs (Seasonal space heating efficiency) | % | 127 | | 130 |
| | | | Prated at -10°C | kW | 6.0 | 7.0 | 8.0 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 14 | 16 | 18 |
| | | | SCOP | | 3.26 | | 3.32 |
| | | | Seasonal space heating eff. class | | A++ | | |
| | | A Condition (-7°CDB/-8°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 1.97 | 1.98 | 1.96 |
| | | | Pdh | kW | 5.3 | 5.9 | 6.9 |
| | | | PERd | % | 78.8 | 79.2 | 78.4 |
| | | B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 3.23 | 3.16 | 3.20 |
| | | | Pdh | kW | 3.3 | 3.9 | 4.4 |
| | | | PERd | % | 129.2 | 126.4 | 128.0 |
| | | C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 4.40 | 4.49 | 4.64 |
| | | | Pdh | kW | 3.0 | | 3.3 |

# 2 Specifications

| Technical specifications | | | | | EDLA04EV3 | EDLA06EV3 | EDLA08EV3 |
|---|---|---|---|---|---|---|---|
| Space heating | Average climate water outlet 55°C | C Condition (7°CDB/6°CWB) | PERd | % | 176.0 | 179.6 | 185.6 |
| | | D Condition (12°CDB/11°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 6.10 | | 6.22 |
| | | | Pdh | kW | 3.3 | | 4.1 |
| | | | PERd | % | 244.0 | | 248.8 |
| | | Tol (temperature operating limit) | COPd | | 1.37 | 1.53 | 1.64 |
| | | | Pdh | kW | 4.0 | 5.4 | 7.1 |
| | | | PERd | % | 54.8 | 61.2 | 65.6 |
| | | | TOL | °C | -10 | | |
| | | | WTOL | °C | 55 | | |
| | | Rated heat output supplementary capacity | Psup (at Tdesign -10°C) | kW | 2.0 | 1.6 | 1.0 |
| | | Tbiv (bivalent temperature) | COPd | | 1.97 | 2.12 | 1.90 |
| | | | Pdh | kW | 5.3 | 6.1 | 7.5 |
| | | | PERd | % | 78.8 | 84.8 | 76.0 |
| | | | Tbiv | °C | -7 | -6 | -8 |
| | Cold climate water outlet 55°C | General | Annual energy consumption | kWh | 4,468 | 5,300 | 6,886 |
| | | | ηs (Seasonal space heating efficiency) | % | 107 | 109 | 112 |
| | | | Prated at -22°C | kW | 5.0 | 6.0 | 8.0 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 16 | 19 | 25 |
| | Warm climate water outlet 55°C | General | Annual energy consumption | kWh | 1,660 | 1,858 | 2,669 |
| | | | ηs (Seasonal space heating efficiency) | % | 148 | 158 | 159 |
| | | | Prated at 2°C | kW | 4.7 | 5.6 | 8.1 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 6 | 7 | 10 |
| | Average climate water outlet 35°C | General | Annual energy consumption | kWh | 2,766 | 3,233 | 3,625 |
| | | | ηs (Seasonal space heating efficiency) | % | 176 | | 179 |
| | | | Prated at -10°C | kW | 6.0 | 7.0 | 8.0 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 10 | 12 | 13 |
| | | | SCOP | | 4.48 | 4.47 | 4.56 |
| | | | Seasonal space heating eff. class | | A+++ | | |
| | | A Condition (-7°CDB/-8°CWB) | COPd | | 2.90 | 2.86 | 2.77 |
| | | | Pdh | kW | 5.5 | 6.0 | 7.0 |
| | | | PERd | % | 116.0 | 114.4 | 110.8 |
| | | B Condition (2°CDB/1°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 4.33 | 4.25 | 4.35 |
| | | | Pdh | kW | 3.3 | 3.9 | 4.2 |
| | | | PERd | % | 173.2 | 170.0 | 174.0 |
| | | C Condition (7°CDB/6°CWB) | Cdh (Degradation heating) | | 1.0 | | |

# 2 Specifications



| Technical specifications | | | | | EDLA04EV3 | EDLA06EV3 | EDLA08EV3 |
|---|---|---|---|---|---|---|---|
| Space heating | Average climate water outlet 35°C | C Condition (7°CDB/6°CWB) | COPd | | 6.19 | 6.30 | 6.49 |
| | | | Pdh | kW | 3.2 | | 3.3 |
| | | | PERd | % | 247.6 | 252.0 | 259.6 |
| | | D Condition (12°CDB/11°CWB) | Cdh (Degradation heating) | | 1.0 | | |
| | | | COPd | | 7.78 | | 8.52 |
| | | | Pdh | kW | 3.3 | | 3.9 |
| | | | PERd | % | 311.2 | | 340.8 |
| | | Tol (temperature operating limit) | COPd | | 2.56 | 2.49 | 2.41 |
| | | | Pdh | kW | 5.2 | 6.0 | 6.9 |
| | | | PERd | % | 102.4 | 99.6 | 96.4 |
| | | | TOL | °C | -10 | | |
| | | | WTOL | °C | 35 | | |
| | | Tbiv (bivalent temperature) | COPd | | 2.90 | 3.07 | 2.66 |
| | | | Pdh | kW | 5.5 | 6.1 | 7.5 |
| | | | PERd | % | 116.0 | 122.8 | 106.4 |
| | | | Tbiv | °C | -7 | -6 | -8 |
| | | Rated heat output supplementary capacity | Psup (at Tdesign -10°C) | kW | 0.8 | 1.0 | 1.1 |
| | Cold climate water outlet 35°C | General | Annual energy consumption | kWh | 3,230 | 3,749 | 5,034 |
| | | | ηs (Seasonal space heating efficiency) | % | 150 | 155 | 154 |
| | | | Prated at -22°C | kW | 5 | 6 | 8 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 11.6 | 13.5 | 18.1 |
| | Warm climate water outlet 35°C | General | Annual energy consumption | kWh | 1,139 | 1,276 | 1,437 |
| | | | ηs (Seasonal space heating efficiency) | % | 241 | 249 | 257 |
| | | | Prated at 2°C | kW | 5.2 | 6.0 | 7.0 |
| | | | Qhe Annual energy consumption (GCV) | Gj | 4 | 5 | |

| Electrical specifications | | | | EDLA04EV3 | EDLA06EV3 | EDLA08EV3 |
|---|---|---|---|---|---|---|
| Compressor component | Main power supply | Phase | | 3N~ | | |
| | | Voltage | V | 220 | | |
| Power supply | Name | | | V3 | | |
| | Phase | | | 1~ | | |
| | Frequency | | Hz | 50 | | |
| | Voltage | | V | 230 +/-10% | | |
| Current | Maximum running current | Heating | A | 19.9 | | 24.0 |
| | Recommended fuses | | A | 20 | | 25 |

(1)Condition 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)For more details, see operation range drawing

# 3 Electrical data

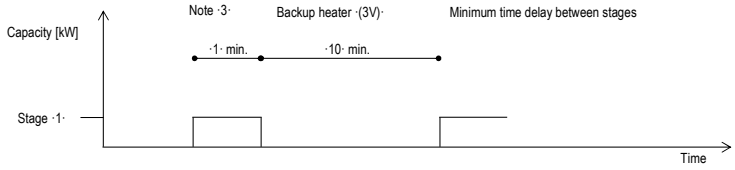
## 3 - 1 Electrical Data

**EBLA04-08E3V3**
**EDLA04-08E3V3**

**Electrical specifications**

| | | | | | |
|---|---|---|---|---|---|
| **Backup heater** | Type | | | | **3V** |
| | Capacity setting | | | kW | 3 |
| | Capacity stage · · | | | | 1 |
| | Capacity stage ·1· | | | kW | 3 |
| | Capacity stage ·2· | | | kW | - |
| | | | | | |
| | Minimum time delay between stages | | | | Note ·3· |
| | Power supply (1) | Phase | | | 1~ |
| | | Frequency | | Hz | 50 |
| | | Voltage | | V | 230 +-10% |
| | Current | Nominal running current | | A | 13 |
| | | Zmax (backup heater) (2) | | Ω | - |
| | | | | Complex | - |
| | | Minimum Ssc value | | kVA | - |

| | | |
|---|---|---|
| **Notes** | (1) | The above-mentioned power supply of the hydrobox is for the backup heater only. |
| | (2) | In accordance with EN/IEC 61000-3-11, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Zsys ≤ Zmax. |
| | EN/IEC 61000-3-11 | European/International Technical Standard setting the limits for voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with rated current ≤ 75 A. |
| | EN/IEC 61000-3-12 | European/International Technical Standard setting the limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase. |
| | Zsys | System impedance |




**4D128962**

# 4 Combination table

## 4 - 1 Combination Table



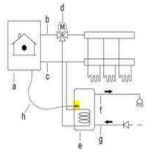
### EBLA04-08EV3 / EDLA04-08EV3 / EBLA04-08E3V3 / EDLA04-08E3V3

Kit availability for -E(B/D)LA*E*-

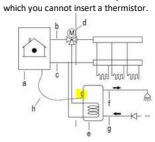
| Reference | Description | Notes | E(B/D)LA(04/06/08)E* | | | |
|---|---|---|---|---|---|---|
| | | | No backup heater | | Backup heater | |
| | | | Heating only | Reversible | Heating only | Reversible |
| | | | EDLA(04/06/08) E2V3 | EBLA(04/06/08) E2V3 | EDLA(04/06/08) E23V3 | EBLA(04/06/08) E23V3 |
| EKRP1HBAA | Digital I/O PCB | (1) | o | o | o | o |
| EKRP1AHTA | Demand PCB | | o | o | o | o |
| BRC1HHDA* | Remote user interface | | o | o | o | o |
| BRP069A61 | LAN adapter | | o | o | o | o |
| BRP069A62 | LAN adapter and solar connectivity | | o | o | o | o |
| BRP069A71 | WLAN module | (2) | o | o | o | o |
| EKRELSG | Relay for Smart Grid | | o | o | o | o |
| KRCS01-1 | Remote indoor sensor | (3) | o | o | o | o |
| EKRSCA1 | Remote sensor for outdoor | (3) | o | o | o | o |
| EKPCCAB4 | PC cable kit | | o | o | o | o |
| EKCCB-W | Universal centralised user interface | | o | o | o | o |
| EKHY3PART | Third-party tank connection kit for thermistor pocket | (4) (6) | o | o | o | o |
| EKHY3PART2 | Third-party tank connection kit for thermostat contact | (5) (6) | o | o | o | o |
| EKLBUHCB6W | Backup heater kit | (7) | o | o | - | - |
| EKMBHBP1 | Valve kit | (7) | - | o | - | - |
| EKFLSW2 | Flow switch | (8) | o | o | o | o |
| AFVALVE1 | Freeze protection valve | | o | o | o | o |
| FWXV10-15-20ABTV3* | Heat pump convector Floor standing unit | | o | o | o | o |
| FWXT10-15-20ABTV3* | Heat pump convector Wall mounted type | | o | o | o | o |
| FWXM10-15-20ATV3* | Heat pump convector Conceiled ceiling | | o | o | o | o |
| EKHWS150D3V3 | Domestic hot water tank -LT 150 \| 1~230V- | | o | o | o | o |
| EKHWS180D3V3 | Domestic hot water tank -LT 180 \| 1~230V- | | o | o | o | o |
| EKHWS200D3V3 | Domestic hot water tank -LT 200 \| 1~230V- | | o | o | o | o |
| EKHWS250D3V3 | Domestic hot water tank -LT 250 \| 1~230V- | | o | o | o | o |
| EKHWS300D3V3 | Domestic hot water tank -LT 300 \| 1~230V- | | o | o | o | o |
| EKHWSU150D3V3 | Domestic hot water tank -LT 150 \| 1~230V- | (only for UK) (9) | o | o | o | o |
| EKHWSU180D3V3 | Domestic hot water tank -LT 180 \| 1~230V- | (only for UK) (9) | o | o | o | o |
| EKHWSU200D3V3 | Domestic hot water tank -LT 200 \| 1~230V- | (only for UK) (9) | o | o | o | o |
| EKHWSU250D3V3 | Domestic hot water tank -LT 250 \| 1~230V- | (only for UK) (9) | o | o | o | o |
| EKHWSU300D3V3 | Domestic hot water tank -LT 300 \| 1~230V- | (only for UK) (9) | o | o | o | o |
| EKHWP300B | Domestic hot water tank -HT 300- | (10) (11) (12) | o | o | o | o |
| EKHWP500B | Domestic hot water tank -HT 500- | (10) (11) (12) | o | o | o | o |
| EKHWP300PB | Domestic hot water tank -HT 300- | (10) (11) (12) | o | o | o | o |
| EKHWP500PB | Domestic hot water tank -HT 500- | (10) (11) (12) | o | o | o | o |
| EKMIKPOAF | Mixing kit - PCB only | | o | o | o | o |
| EKMIKPHAF | Mixing kit - PCB with hydraulics | | o | o | o | o |
| EKMIKHMAF | Hydraulics - mixed pump ground | (13) | o | o | o | o |
| EKMIKHUAF | Hydraulics - unmixed pump ground | (13) | o | o | o | o |
| EKMIKBVAF | Balancing vessel | | o | o | o | o |
| EKMIKDIAF | Distributor for balancing vessel | (14) | o | o | o | o |
| EKRTWA | Wired room thermostat | | o | o | o | o |
| EKRTR1, EKRTRB | Wireless room thermostat | | o | o | o | o |
| EKRTETS | External temperature sensor option kit | (15) | o | o | o | o |
| EKTESE1 | Temperature sensor DHW | (16) | o | o | o | o |
| EKTESE2 | Temperature sensor DHW | (17) | o | o | o | o |
| EKWUFHTA1V3 | Multi zoning kit | | o | o | o | o |

**Notes**

(4) -EKHY3PART- can be used if you have a tank in which you can insert a thermistor.




(5) -EKHY3PART2- can be used if you have a tank in which you cannot insert a thermistor.




(6) Conditions for third-party tank

Third-party with identical specifications as -EKHWS*-
Coil surface >-1.05-m² and <-3.7-m²
Tank thermistor and booster heater above heat pump coil.

**Notes**

(1) Additional relays to allow bivalent control in combination with an external room thermostat are field-supplied.
(2) The WLAN cartridge is supplied in the accessory bag of the unit and is meant to be plugged into the SD card slot on the MMI-2. In case of bad signal reception, the WLAN cartridge can be removed and replaced by the WLAN module.
(3) Only 1 remote sensor can be connected: indoor OR outdoor sensor.
(7) Necessity to install a bypass kit -EKMBHBP1- to avoid sweat on the BUH, when the BUH is installed in combination with a reversible model.
(8) -EKFLSW2- is obligatory for Monoblock & Mini-chiller in case Glycol is used.
(9) Only possible in combination with -EKEXPVE5-
(10) Domestic hot water tank with solar connection. Dedicated connection kit available. Other options EKRSP4A* Solar pump station
For the combination with -EKHWP*-, refer to the combination table of -EKHWP*-.
(11) The installation of -EKBH3S*- is mandatory. As backup or for tank preheating. For details, see the installer reference guide.
(12) The installation of -EKEPRHLT*- is mandatory.
(13) Only possible in combination with -EKMIKPOAF-
(14) Only possible in combination with -EKMIKBVAF- and -EKMIKPHAF- or -EKMIKHUAF-
(15) Can only be used in combination with the wireless room thermostat.
(16) Only in combination with -EKHWS*-
(17) Only in combination with -EKHWP*-

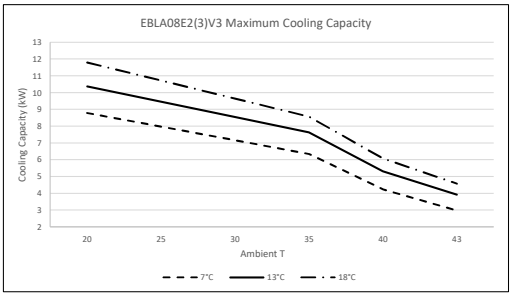
**Remark**
Other combinations than mentioned in this combination table are prohibited.

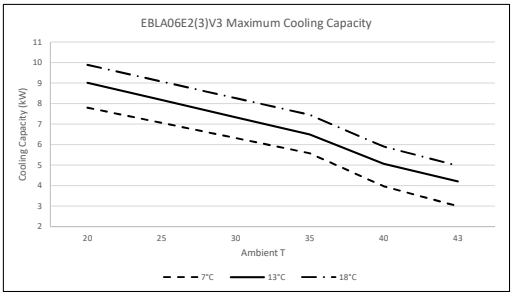
**4D139367**

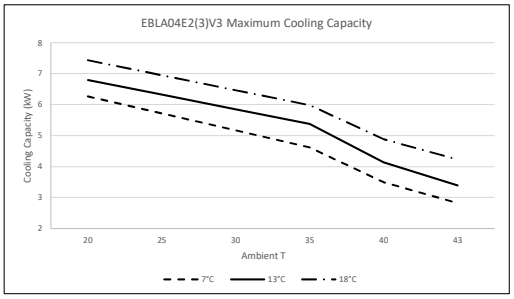
# 5 Capacity graphs

## 5 - 1 Cooling Capacity Graphs

**EBLA04-08EV3**
**EBLA04-08E3V3**



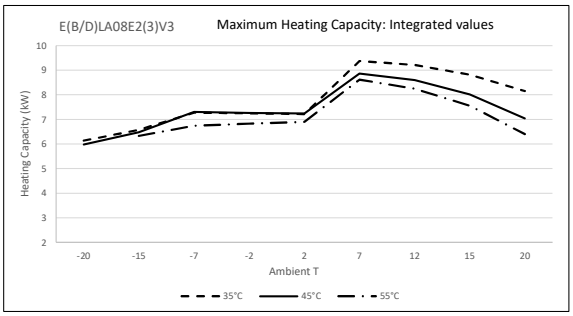

**3D139432**

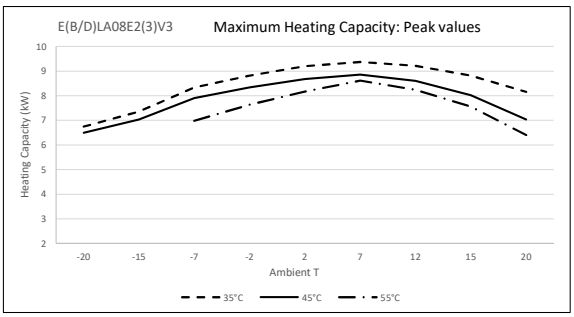
# 5 Capacity graphs

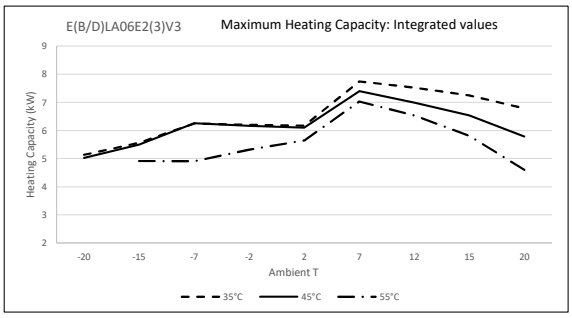
## 5 - 2 Heating Capacity Graphs

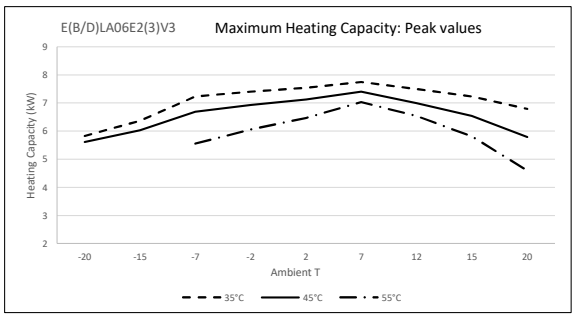


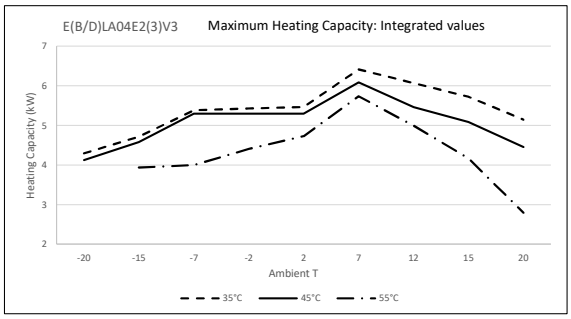
**EBLA04-08EV3**
**EDLA04-08EV3**
**EBLA04-08E3V3**
**EDLA04-08E3V3**

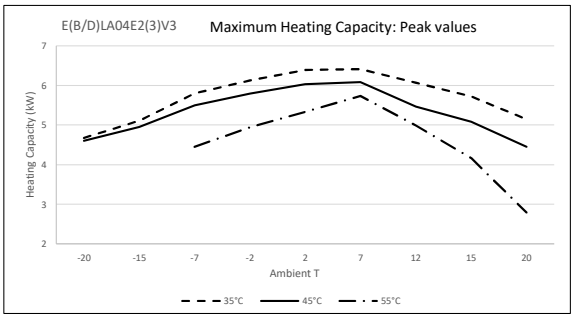



**Symbols**

| | |
|---|---|
| CC | Cooling capacity at maximum operating frequency, measured according to EN 14511. |
| HC | Heating capacity at maximum operating frequency, measured according to EN 14511 |
| PI | Power input is the total input of indoor and outdoor units, including the circulation pump; according to EN 14511. |
| LWE | Leaving water evaporator temperature [°C] |
| LWC | Leaving water condensor temperature [°C] |
| Tamb | Ambient temperature; RH (heating) = 85% |

**Conditions**

Cooling capacity
Capacity according to standard EN 14511 and valid for chilled water range ΔT = 3~8°C.
Capacity values may not be extrapolated below 7°C leaving water temperature.

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

Power input
Power input is the total input of indoor and outdoor units, including the circulation pump; according to EN 14511.

**Notes**
The capacity and the power input are valid for V3 models at 230 V.
The capacity and the power input are at maximum operation.

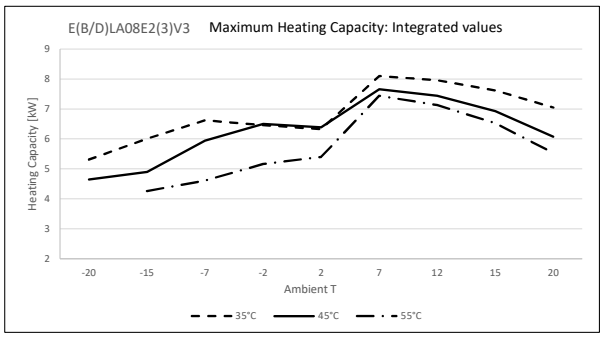
**3D139362**

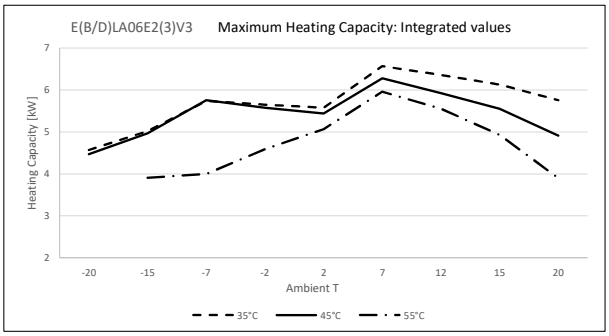
# 5 Capacity graphs

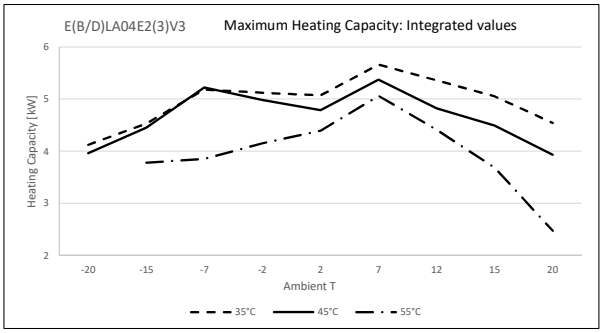
## 5 - 3 Heating Capacity Graphs - more quiet mode



**EBLA04-08EV3**
**EDLA04-08EV3**
**EBLA04-08E3V3**
**EDLA04-08E3V3**




**Symbols**

| | |
|---|---|
| CC | Cooling capacity at maximum operating frequency, measured according to EN 14511. |
| HC | Heating capacity at maximum operating frequency, measured according to EN 14511 |
| PI | Power input is the total input of indoor and outdoor units, including the circulation pump; according to EN 14511. |
| LWE | Leaving water evaporator temperature [°C] |
| LWC | Leaving water condensor temperature [°C] |
| Tamb | Ambient temperature; RH (heating) = 85% |

**Conditions**

Cooling capacity

Capacity according to standard EN 14511 and valid for chilled water range ΔT = 3~8°C.
Capacity values may not be extrapolated below 7°C leaving water temperature.

Heating capacity

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

Power input

Power input is the total input of indoor and outdoor units, including the circulation pump; according to EN 14511.

**Notes**

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

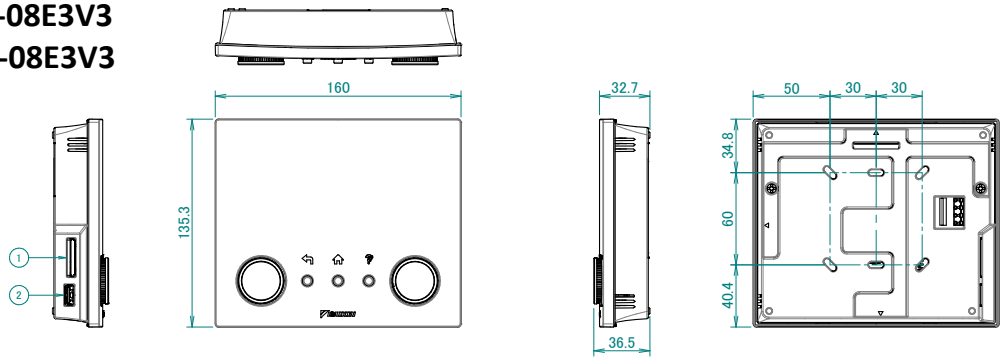
**3D139433**

# 6 Dimensional drawings

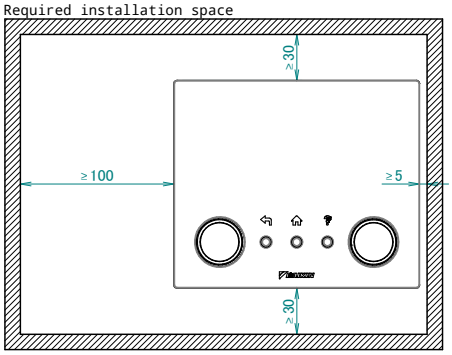
## 6 - 1 Dimensional Drawings



**EBLA04-08EV3**
**EDLA04-08EV3**
**EBLA04-08E3V3**
**EDLA04-08E3V3**




Required installation space

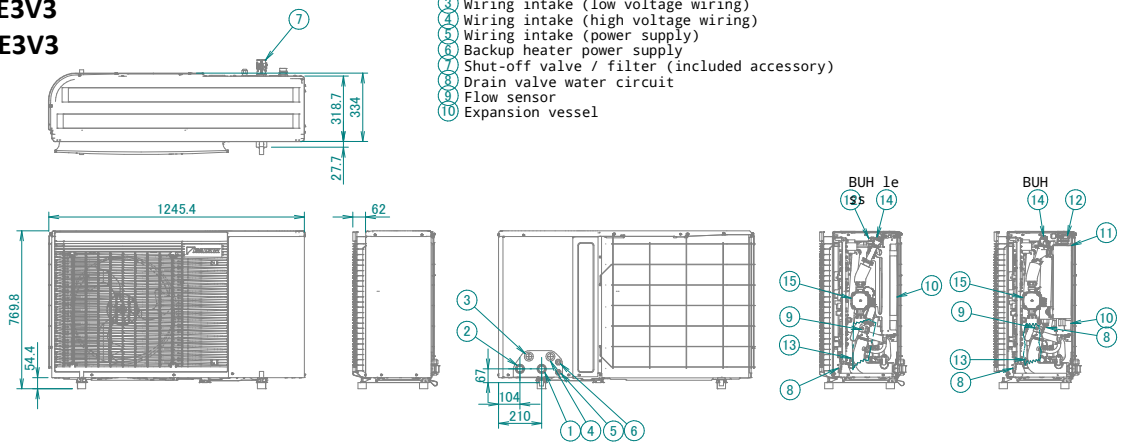


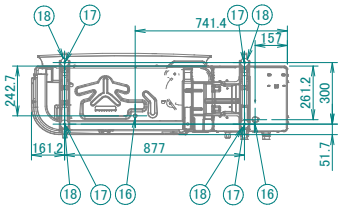

1 USB Connector
2 WLAN cartridge

**3D132732**

**EBLA04-08EV3**
**EDLA04-08EV3**
**EBLA04-08E3V3**
**EDLA04-08E3V3**

1 Water in connection ·1"M·
2 Water out connection ·1"M·
3 Wiring intake (low voltage wiring)
4 Wiring intake (high voltage wiring)
5 Wiring intake (power supply)
6 Backup heater power supply
7 Shut-off valve / filter (included accessory)
8 Drain valve water circuit
9 Flow sensor
10 Expansion vessel




11 Backup Heater (just BUH Version)
12 Automatic air purge valve
13 Space heating water pressure sensor
14 Safety valve
15 Pump
16 Drain outlet
17 ·4· holes for anchor bolts
17 ·4· rubber pads

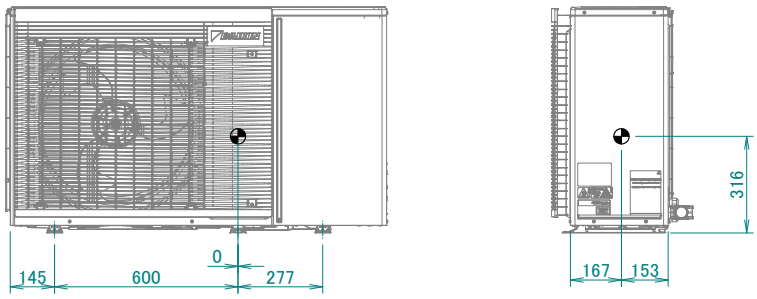
**3D139356**

# 7 Centre of gravity

## 7 - 1 Centre of Gravity



**EBLA04-08EV3**
**EDLA04-08EV3**
**EBLA04-08E3V3**
**EDLA04-08E3V3**



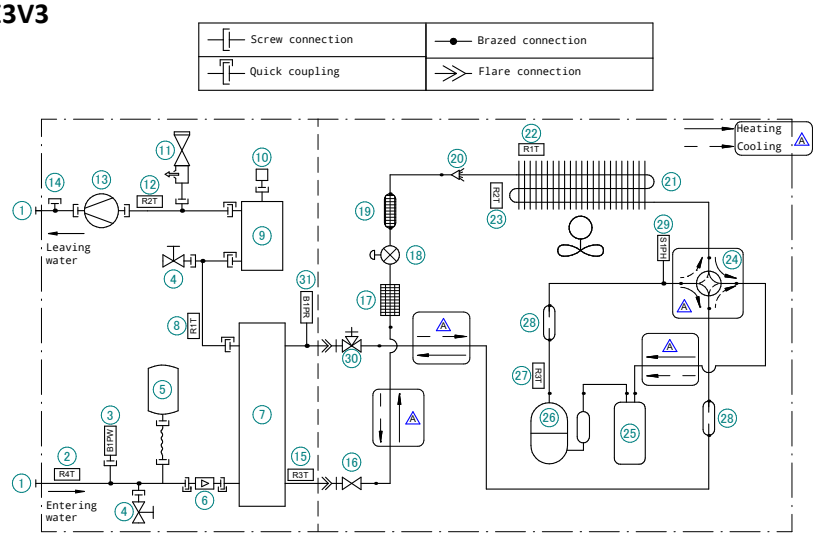

**3D139363**

# 8 Piping diagrams

## 8 - 1 Piping Diagrams



**EBLA04-08E3V3**
**EDLA04-08E3V3**




1. Screw connection ·1"M·
2. R4T- Inlet water thermistor
3. Space heating water pressure sensor
4. Drain valve water circuit
5. Expansion vessel
6. Flow sensor
7. Plate heat exchanger
8. R1T- Outlet water heat exchanger thermistor
9. Backup heater
10. Automatic air purge valve
11. Safety valve
12. R2T- Outlet water backup heater thermistor
13. Pump
14. Connection for optional flow switch
15. R3T- Refrigerant liquid side thermistor
16. Liquid stop valve
17. Filter
18. Electronic expansion valve
19. Muffler with filter
20. Distributor
21. Heat exchanger
22. R1T- Thermistor (outdoor air)
23. R2T- Thermistor (heat exchanger)
24. 4-way valve
25. Accumulator
26. Compressor
27. R3T- Thermistor (discharge)
28. Muffler
29. High pressure switch
30. Gas stop valve with service port
31. Refrigerant pressure sensor

**3D139436A**

# 9 Wiring diagrams

## 9 - 1 Notes & Legend

**EKHVET-BV3**

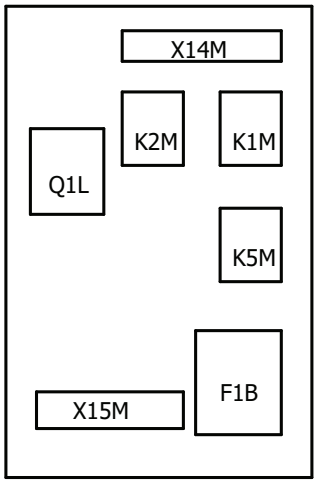
**(2) NOTES**

| | |
|---|---|
| X14M, X15M | : Main terminal |
| ——— | : Earth wiring |
| 15 | : Wire number 15 |
| - - - - - - | : Field supply |
| 1 | : Several wiring possibilities |
| | : Option |
| | : Wiring depending on model |
| | : Not mounted in switch box |
| | : PCB |

Optional backup heater configuration :
(only for EKLBUHCB6W1)

☐ 1N~, 230V, 3kW or 6kW
☐ 3N~, 400V, 6kW or 9kW

**(3) BUH kit switch box**




EKLBUHCB6W1

**(4) Legend**

| Part n° | | Description |
|---|---|---|
| E1H | | BUH element (1 kW) |
| E2H | | BUH element (2 kW) |
| F1B | | Overcurrent fuse BUH |
| F1T | | Thermal fuse BUH |
| F1U | | Fuse |
| K1M | | Contactor BUH (Step 1) |
| K2M | | Contactor BUH (Step 2) |
| K5M | | Safety contactor BUH |
| Q3DI | # | Earth leakage circuit breaker |
| Q1L | | Thermal protector BUH |
| R2T | | Outlet BUH thermistor |
| X*M | | Terminal strip |

#: field supply

**4D134935B**

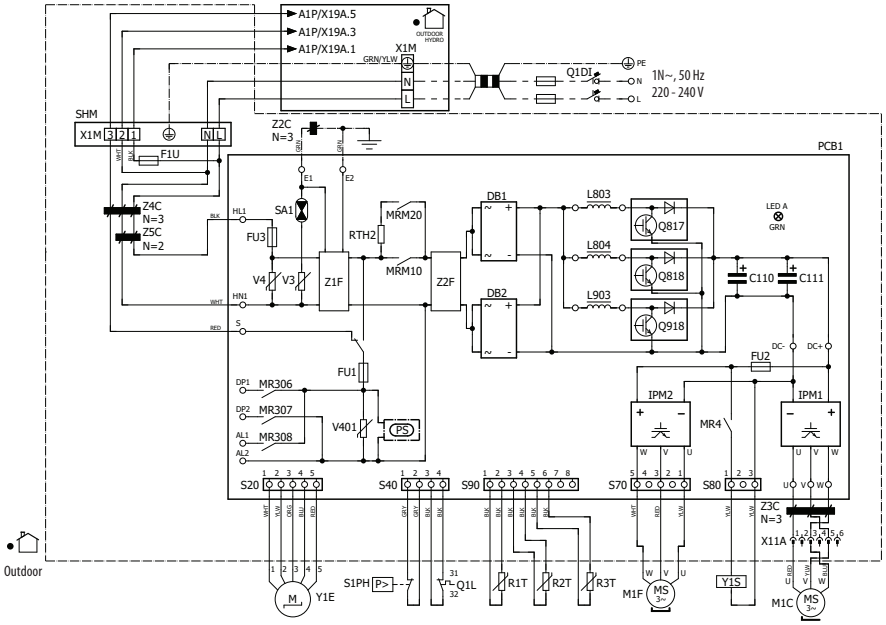
# 9 Wiring diagrams

## 9 - 2 Compressor - Single phase



### EBLA04-08EV3 / EDLA04-08EV3 / EBLA04-08E3V3 / EDLA04-08E3V3

(1) Connection diagram




(2) Notes

: Connection
X1M : Main terminal
: Earth wiring
: Field supply
: Option
: switch box
: PCB
: Wiring depending on model
: Protective earth
: Field wire

(3) Legend

* : optional #: field supply

| Part n° | | Description |
|---|---|---|
| A1P | | Hydro kit main PCB |
| AL* | | Connector |
| C* | | Capacitor |
| DB* | | Rectifier bridge |
| DC* | | Connector |
| DP* | | Connector |
| E* | | Connector |
| F1U | | Fuse T 6,3 A 250 V |
| FU1, FU2 | | Fuse T 3,15 A 250 V |
| FU3 | | Fuse T 30 A 250 V |
| H* | | Connector |
| IPM* | | Intelligent power module |
| L | | Connector |
| LED A | | Pilot lamp |
| L* | | Reactor |
| M1C | | Compressor motor |
| M1F | | Fan motor |
| MR* | | Magnetic relay |
| N | | Connector |
| PCB1 | | Printed circuit board (main) |
| PS | | Switching power supply |
| Q1L | | Thermal protector |
| Q1DI | # | Earth leakage circuit breaker |
| Q* | | Insulated gate bipolar transistor (IGBT) |
| R1T | | Thermistor (air) |
| R2T | | Thermistor (heat exchanger) |
| R3T | | Thermistor (discharge) |
| RTH2 | | Resistor |
| S | | Connector |
| S1PH | | High pressure switch |
| S2~80 | | Connector |
| SA1 | | Surge arrestor |
| SHM | | Terminal strip fixed plate |
| U, V, W | | Connector |
| V3, V4, V401 | | Varistor |
| X*A | | Connector |
| X*M | | Terminal strip |
| Y1E | | Electronic expansion valve |
| Y1S | | Solenoid valve (4-way valve) |
| Z*C | | Noise filter (ferrite core) |
| Z*F | | Noise filter |

**NOTES**

1. When operating, do not short-circuit protection device(s) S1PH and Q1L.
2. Colours: BLK:black; RED:red; BLU:blue; WHT:white; GRN:green; YLW:yellow

**4D139355B**

# 9 Wiring diagrams

## 9 - 3 Hydro Module - Notes & Legend

### EBLA04-08EV3 / EDLA04-08EV3 / EBLA04-08E3V3 / EDLA04-08E3V3

#### NOTES to go through before starting the unit

| | |
|---|---|
| X1M | : Main terminal |
| X2M | : Field wiring terminal for AC |
| X3M | : External backup heater terminal |
| X4M | : Booster heater power supply terminal |
| X5M | : Field wiring terminal for DC |
| X9M | : Internal backup heater power supply terminal |
| X10M | : Smartgrid terminal |
| —— —— —— | : Earth wiring |
| – – – – – – | : Field supply |

(1) : Several wiring possibilities

: Option

: Wiring depending on model

: Not mounted in switch box

: PCB

#### NOTES

1. Connection point of the power supply for the backup heater & booster heater should be foreseen outside the unit.

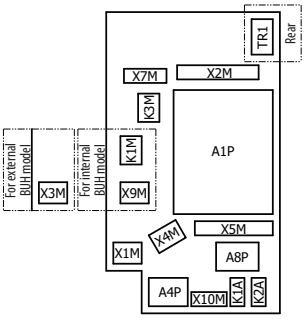
Backup heater power supply
- ☐ 3V (1N~, 230V, 3kW)

User installed options:
- ☐ Domestic hot water tank
- ☐ External backup heater
- ☐ Booster heater
- ☐ Remote user interface
- ☐ Ext. indoor thermistor
- ☐ Ext. outdoor thermistor
- ☐ Digital I/O PCB
- ☐ Demand PCB
- ☐ Smart grid
- ☐ WLAN cartridge
- ☐ Bypass kit
- ☐ LAN adapter

Main LWT:
- ☐ ON/OFF thermostat (wired)
- ☐ ON/OFF thermostat (wireless)
  - ☐ Ext. thermistor
- ☐ Heat pump convector

Add LWT:
- ☐ ON/OFF thermostat (wired)
- ☐ ON/OFF thermostat (wireless)
  - ☐ Ext. thermistor
- ☐ Heat pump convector

#### POSITION IN SWITCH BOX




#### LEGEND

| Part n° | | Description |
|---|---|---|
| A1P | | main PCB |
| A2P | * | ON/OFF thermostat (PC=power circuit) |
| A3P | * | heat pump convector |
| A4P | * | digital I/O PCB |
| A8P | * | demand PCB |
| A11P | | MMI main PCB |
| A13P | * | LAN adapter |
| A14P | * | user interface PCB |
| A15P | * | receiver PCB (wireless ON/OFF thermostat) |
| B1L | | flow sensor |
| B1PR | | refrigerant pressure sensor |
| B1PW | | water pressure sensor |
| CN* (A4P) | * | connector |
| DS1 (A8P) | * | dipswitch |
| E3H | | backup heater element (3 kW) |
| E5H | * | booster heater element (2,4 kW) |
| E6H | | PHE heater (50 W) |
| E9H | | expansion vessel heater (50 W) |
| E10H | | expansion vessel flex heater (15,6 W) |
| E11H, E12H | | PHE heater IN/OUT (33 W) |
| E*P (A9P) | | indication LED |
| F1B | # | overcurrent fuse backup heater |
| F1T | | thermal fuse backup heater |
| F2B | # | overcurrent fuse booster heater |
| F2T | | thermal fuse booster heater |
| F1U, F2U (A4P) | * | fuse 5 A 250 V for digital I/O PCB |
| FU1 (A1P) | | fuse T 5 A 250 V for PCB |
| K1A, K2A | * | high voltage smartgrid relay |
| K1M | | contactor backup heater |
| K3M | * | contactor booster heater |
| K*R (A1P-A4P) | | relay on PCB |
| M1P | | main supply pump |
| M2P | # | domestic hot water pump |
| M2S | # | 2 way valve for cooling mode |
| M3S | * | 3 way valve for floorheating/ domestic hot water |
| M4S | * | valve kit |
| P1M | | MMI display |

| Part n° | | Description |
|---|---|---|
| PC (A15P) | * | power circuit |
| PHC1 (A4P) | * | optocoupler input circuit |
| Q1L | | thermal protector backup heater |
| Q2L | * | thermal protector booster heater |
| Q4L | # | safety thermostat |
| Q*DI | # | earth leakage circuit breaker |
| R1H (A2P) | * | humidity sensor |
| R1T (A1P) | | outlet water heat exchanger thermistor |
| R1T (A2P) | * | ambient sensor ON/OFF thermostat |
| R1T (A14P) | * | ambient sensor user interface |
| R2T (A1P) | | internal BUH sensor |
| R2T (A2P) | * | external sensor (floor or ambient) |
| R3T | | refrigerant liquid side thermistor |
| R4T | | inlet water thermistor |
| R5T | * | domestic hot water thermistor |
| R6T | * | external indoor or outdoor ambient thermistor |
| S1L | * | flow switch |
| S1S | # | preferential kWh rate PS contact |
| S*T | | thermostat |
| S2S | # | electrical meter pulse input 1 |
| S3S | # | electrical meter pulse input 2 |
| S4S | # | smart grid feed-in |
| S6S-S9S | * | digital power limitation inputs |
| S10S-S11S | # | low voltage smartgrid contact |
| SS1 (A4P) | * | selector switch |
| SW1~2 (A11P) | | turn buttons |
| SW3~5 (A11P) | | push button |
| TR1 | | power supply transformer |
| X4M | * | booster heater power supply terminal strip |
| X6M, X8M | # | power supply terminal strip client |
| X9M | | backup heater power supply terminal strip |
| X10M | * | smartgrid power supply terminal strip |
| X*, X*A, X*Y | | connector |
| X*M | | terminal strip |

* : optional #: field supply

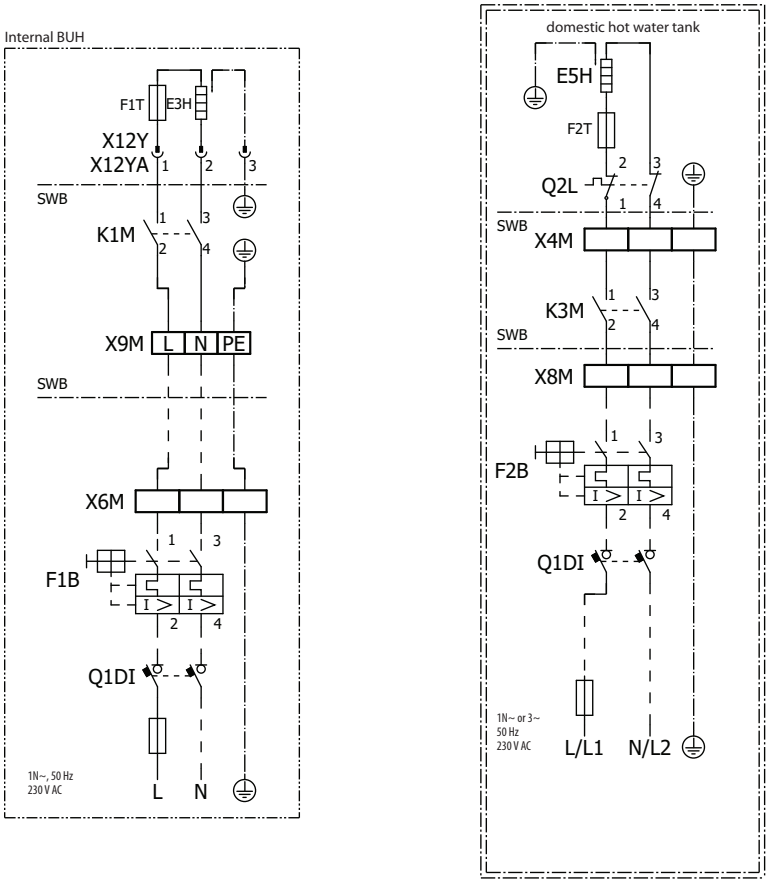
**4D139355B**

# 9 Wiring diagrams

## 9 - 4 Hydro Module - Power Supply, Back-up Heater



**EBLA04-08EV3**
**EDLA04-08EV3**
**EBLA04-08E3V3**
**EDLA04-08E3V3**



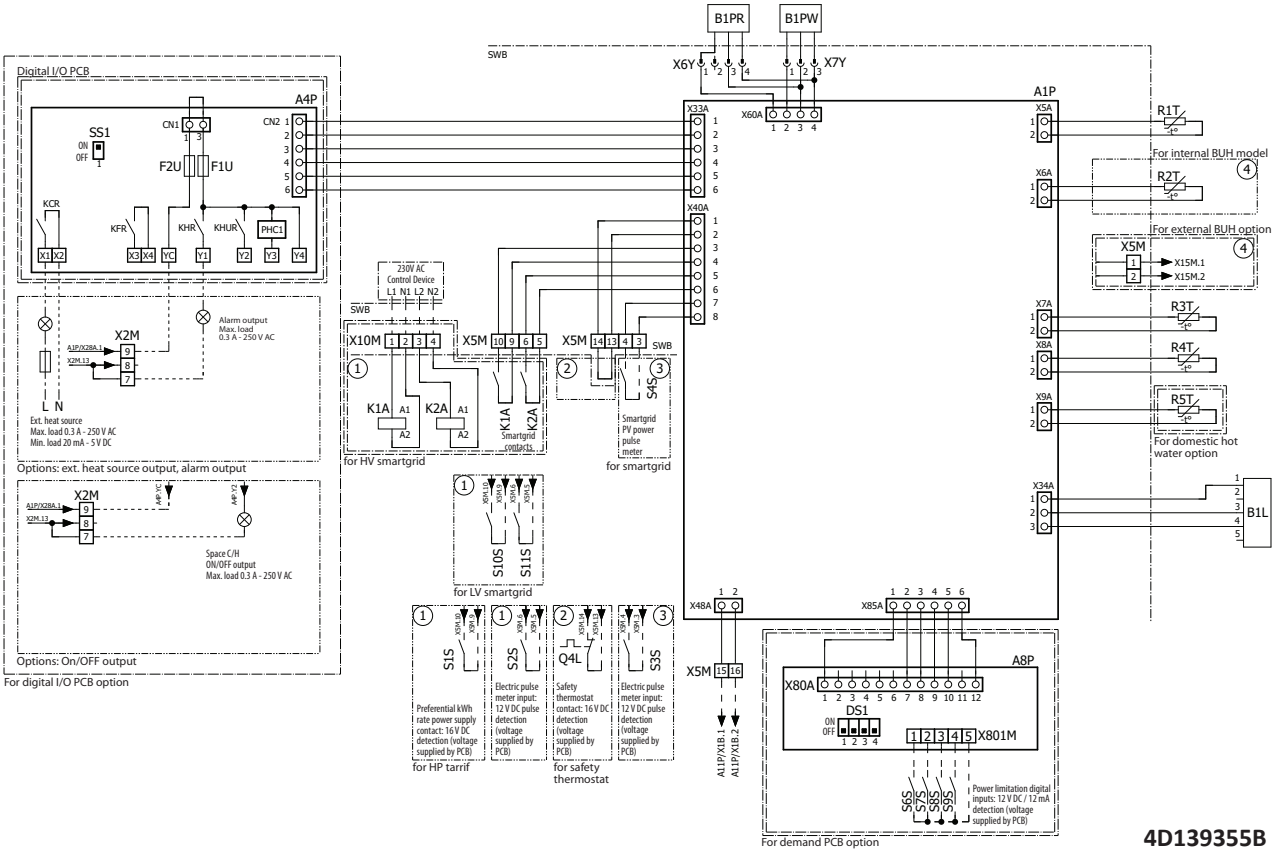

**4D139355B**

# 9 Wiring diagrams

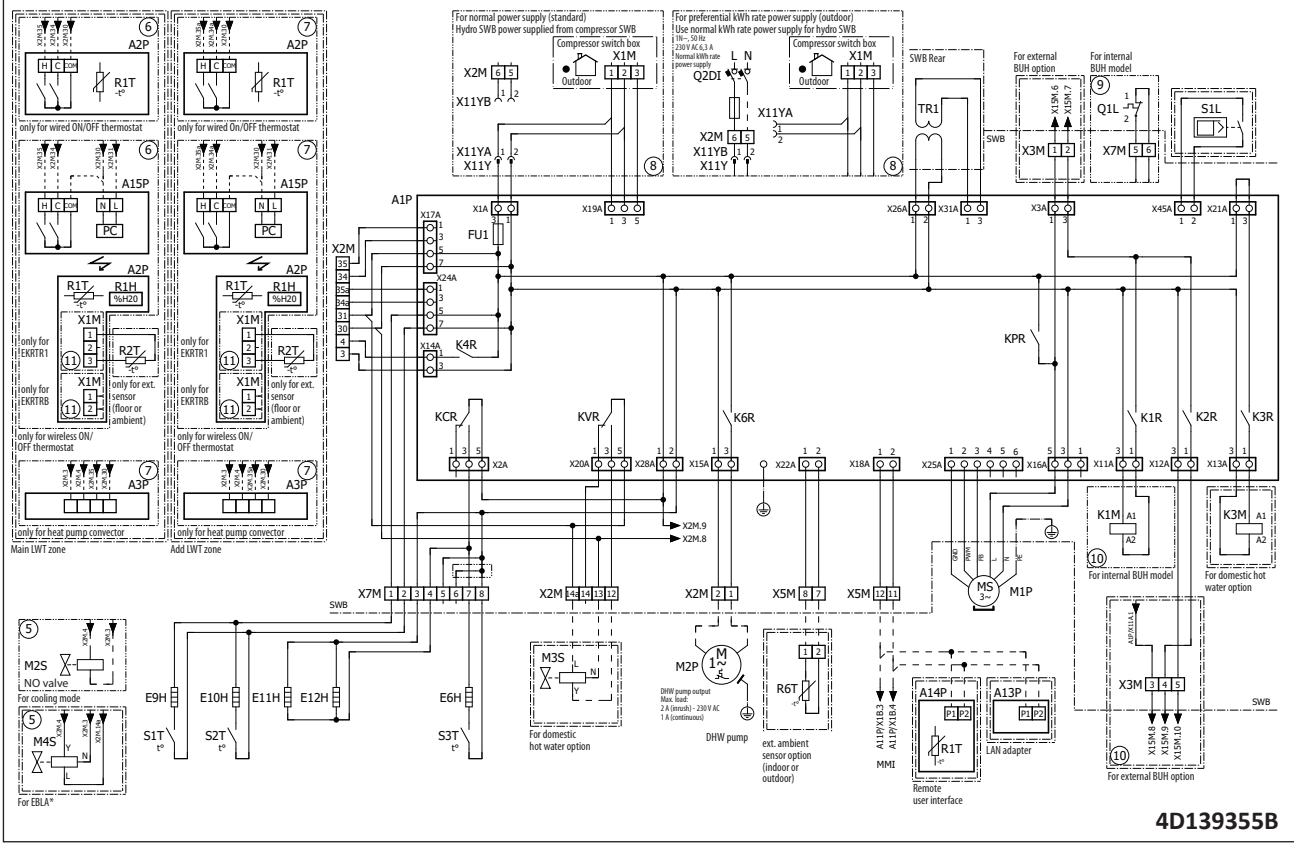
## 9 - 5 Hydro Module - Control Circuit



### EBLA04-08EV3 / EDLA04-08EV3 / EBLA04-08E3V3 / EDLA04-08E3V3



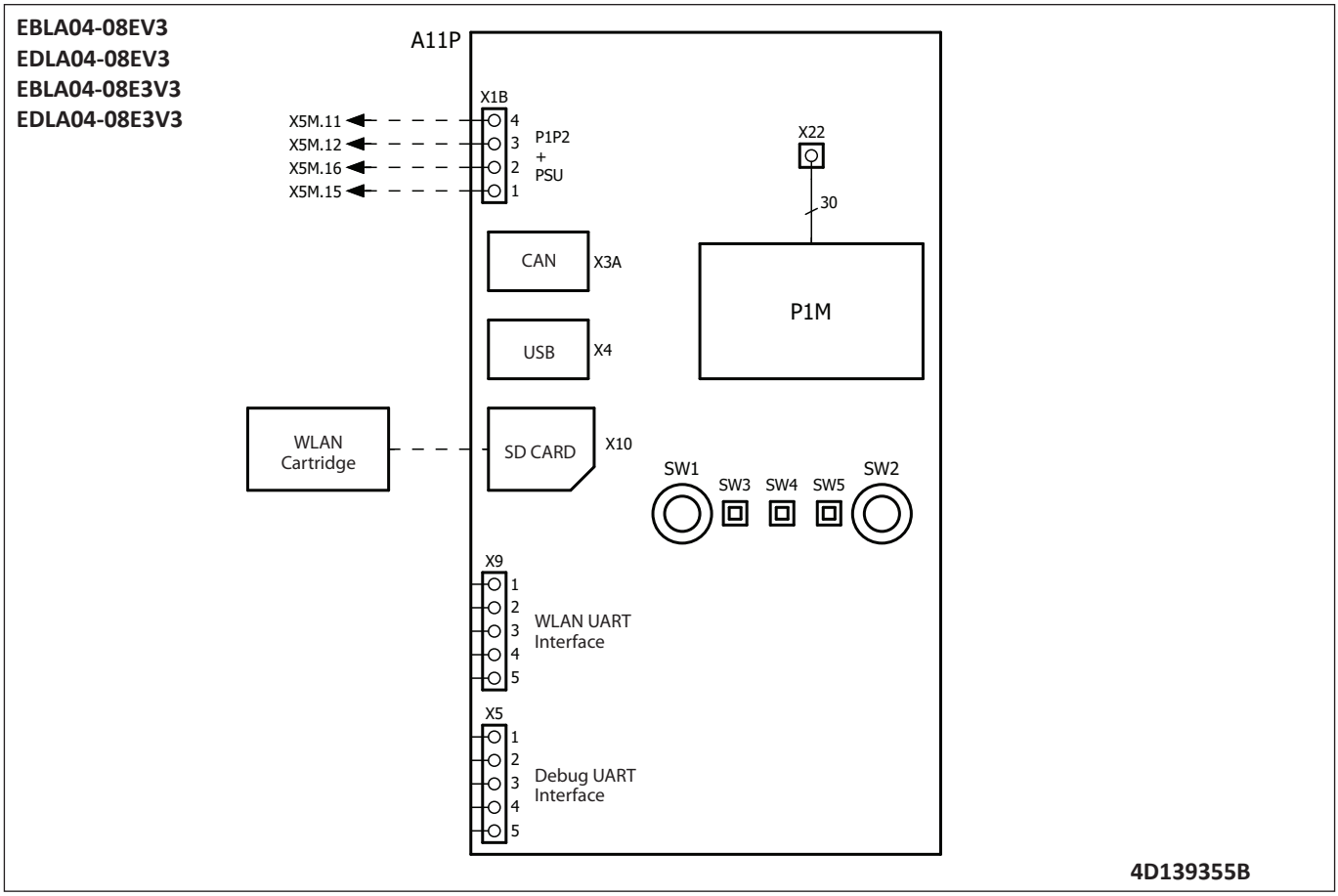

### EBLA04-08EV3 / EDLA04-08EV3 / EBLA04-08E3V3 / EDLA04-08E3V3



# 9 Wiring diagrams

## 9 - 5 Hydro Module - Control Circuit



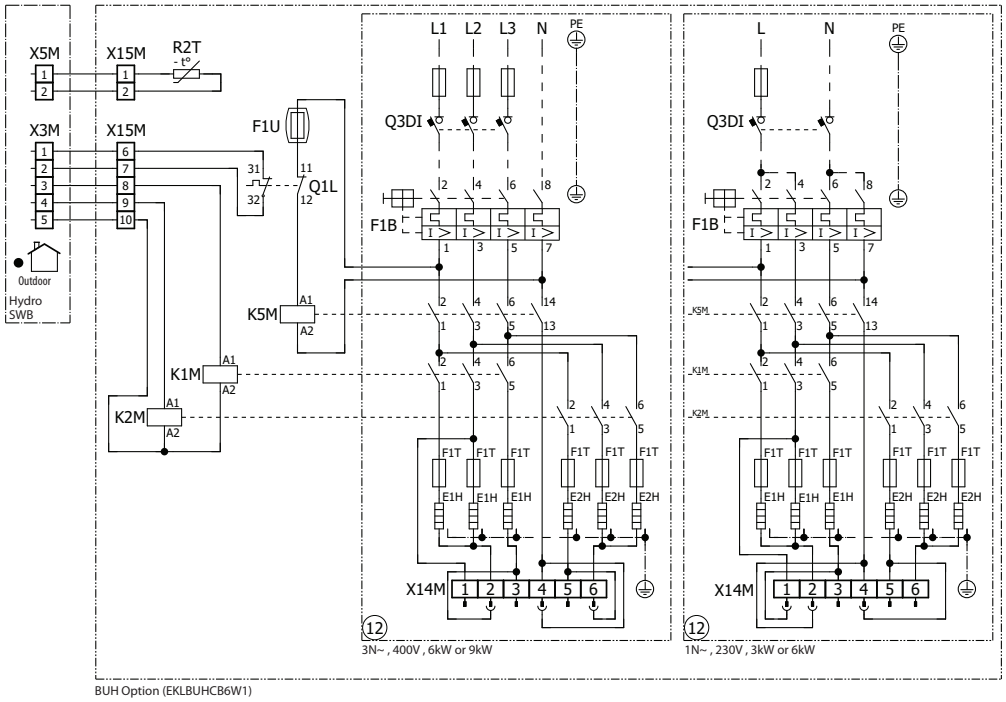


# 9 Wiring diagrams

## 9 - 6 External back-up heater - Option Circuit

**EBLA04-08EV3**
**EDLA04-08EV3**
**EBLA04-08E3V3**
**EDLA04-08E3V3**

(1) Connection diagram




**4D139355B**

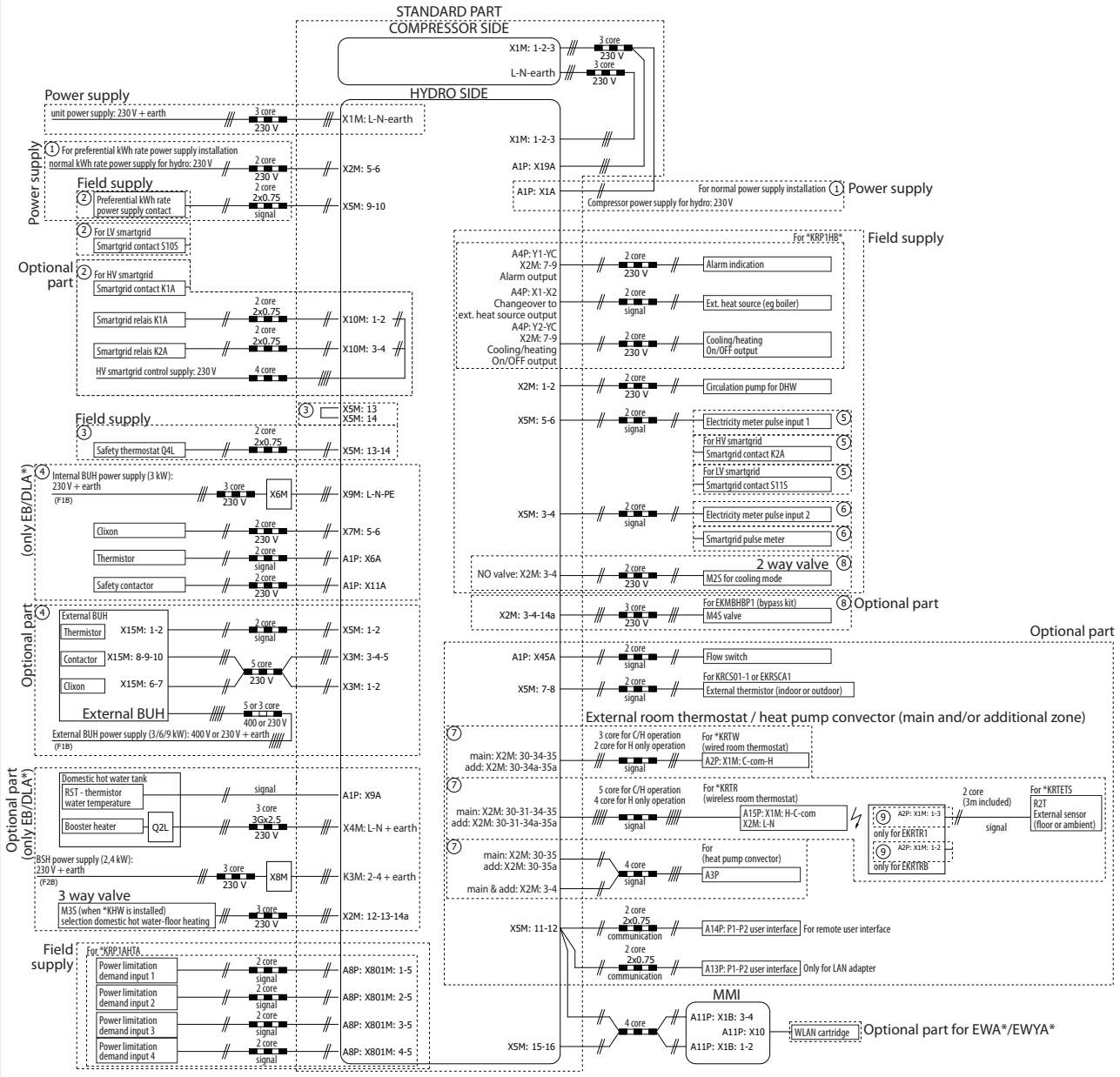
# 10 External connection diagrams

## 10 - 1 External Connection Diagrams



**EBLA04-08EV3**
**EDLA04-08EV3**
**EBLA04-08E3V3**
**EDLA04-08E3V3**

### Electrical connection diagram Daikin Monobloc/Minichiller BML




**NOTE**

- In case of signal cable: keep minimum distance to power cables > 5 cm

For more details please check unit wiring

**4D139354A**

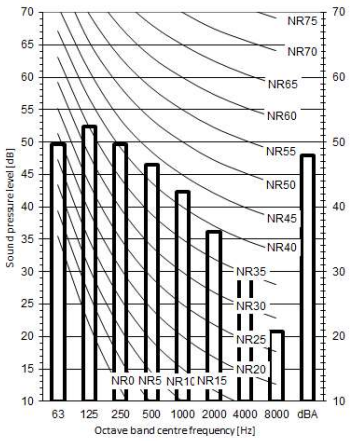
# 11 Sound data

## 11 - 1 Sound Pressure Spectrum - Cooling

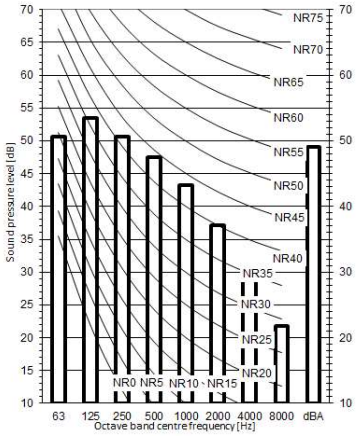
**EBLA04-08EV3**
**EBLA04-08E3V3**

**Cooling**

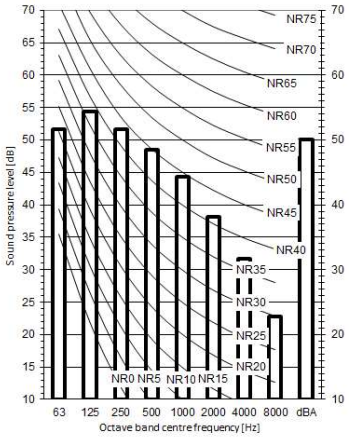
EBLA04E*
EW(Y/A)A004D*



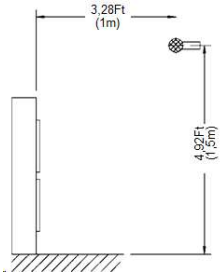

EBLA06E*
EW(Y/A)A006D*




EBLA08E*
EW(Y/A)A008D*




Notes
1.Data is valid at free field condition.
Measured in a semi-anechoic chamber
2.Data is valid at nominal operation condition.
3.dBA = A-weighted sound pressure level (A scale according to IEC).
4.Reference acoustic pressure 0 dB = 20 μPa
5.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)

**3D140608**

# 11 Sound data

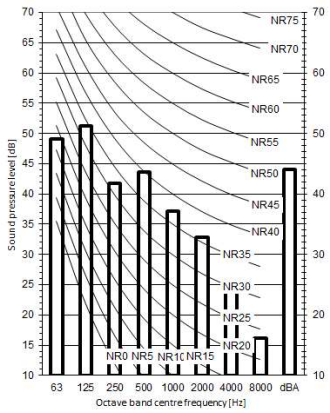
## 11 - 2 Sound Pressure Spectrum - Heating

11

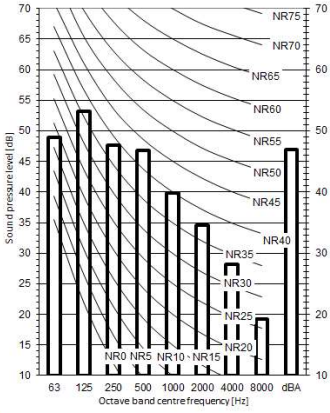
**EBLA04-08EV3**
**EDLA04-08EV3**
**EBLA04-08E3V3**
**EDLA04-08E3V3**

**Heating**

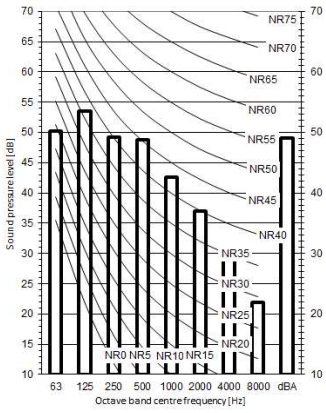
E(B/D)LA04E*
EWYA004D*



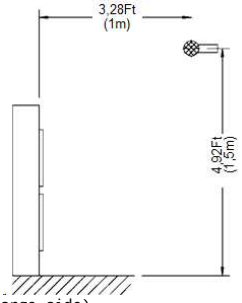

E(B/D)LA06E*
EWYA006D*




E(B/D)LA08E*
EWYA008D*




Notes
1. Data is valid at free field condition.
   Measured in a semi-anechoic chamber
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Reference acoustic pressure 0 dB = 20 μPa
5. 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)

**3D140605**

# 11 Sound data

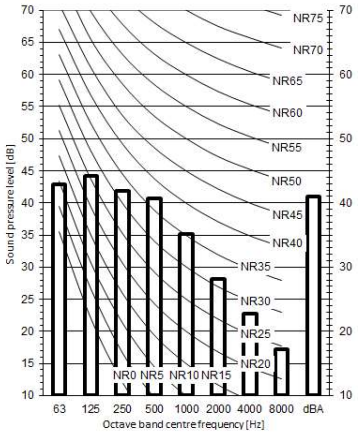
## 11 - 3 Sound Pressure Spectrum Quiet Mode



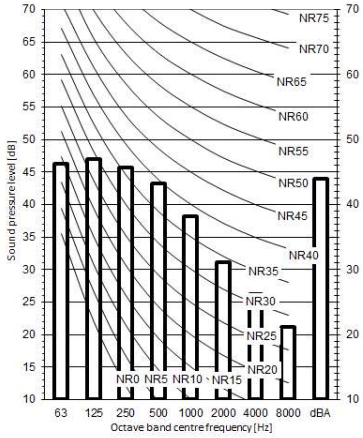
**EBLA04-08EV3**
**EDLA04-08EV3**
**EBLA04-08E3V3**
**EDLA04-08E3V3**

**Heating more quiet mode**

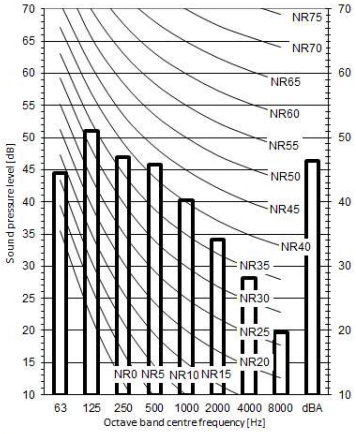
E(B/D)LA04E*
EWYA004D*



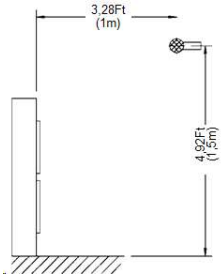

E(B/D)LA06E*
EWYA006D*




E(B/D)LA08E*
EWYA008D*




Notes
1.Data is valid at free field condition.
Measured in a semi-anechoic chamber
2.Data is valid at nominal operation condition.
3.dBA = A-weighted sound pressure level (A scale according to IEC).
4.Reference acoustic pressure 0 dB = 20 μPa
5.If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.



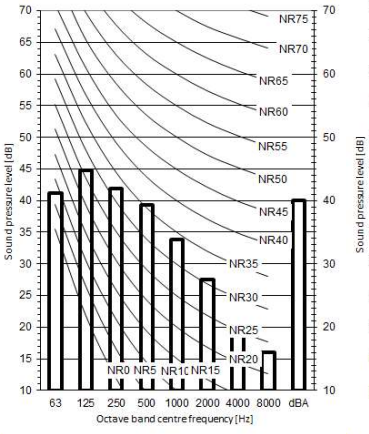

Measuring location (discharge side)

**3D140606**

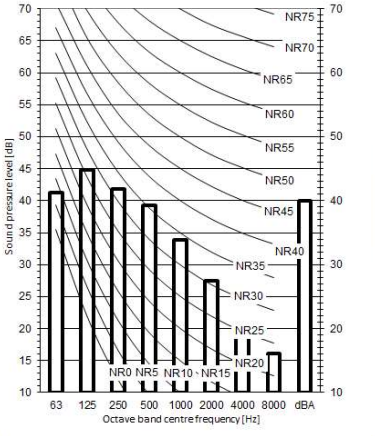
**EBLA04-08EV3**
**EDLA04-08EV3**
**EBLA04-08E3V3**
**EDLA04-08E3V3**

**Heating most quiet mode**

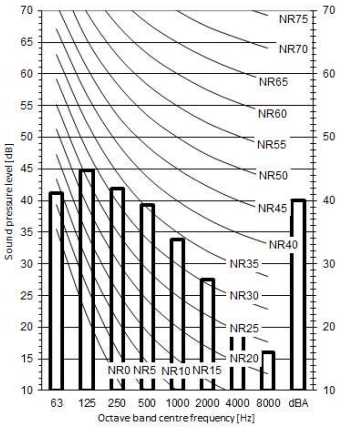
E(B/D)LA04E*
EWYA004D*



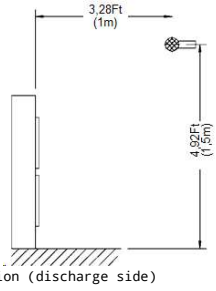

E(B/D)LA06E*
EWYA006D*




E(B/D)LA08E*
EWYA008D*




Notes
1.Data is valid at free field condition.
Measured in a semi-anechoic chamber
2.Data is valid at nominal operation condition.
3.dBA = A-weighted sound pressure level (A scale according to IEC).
4.Reference acoustic pressure 0 dB = 20 μPa
5.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)

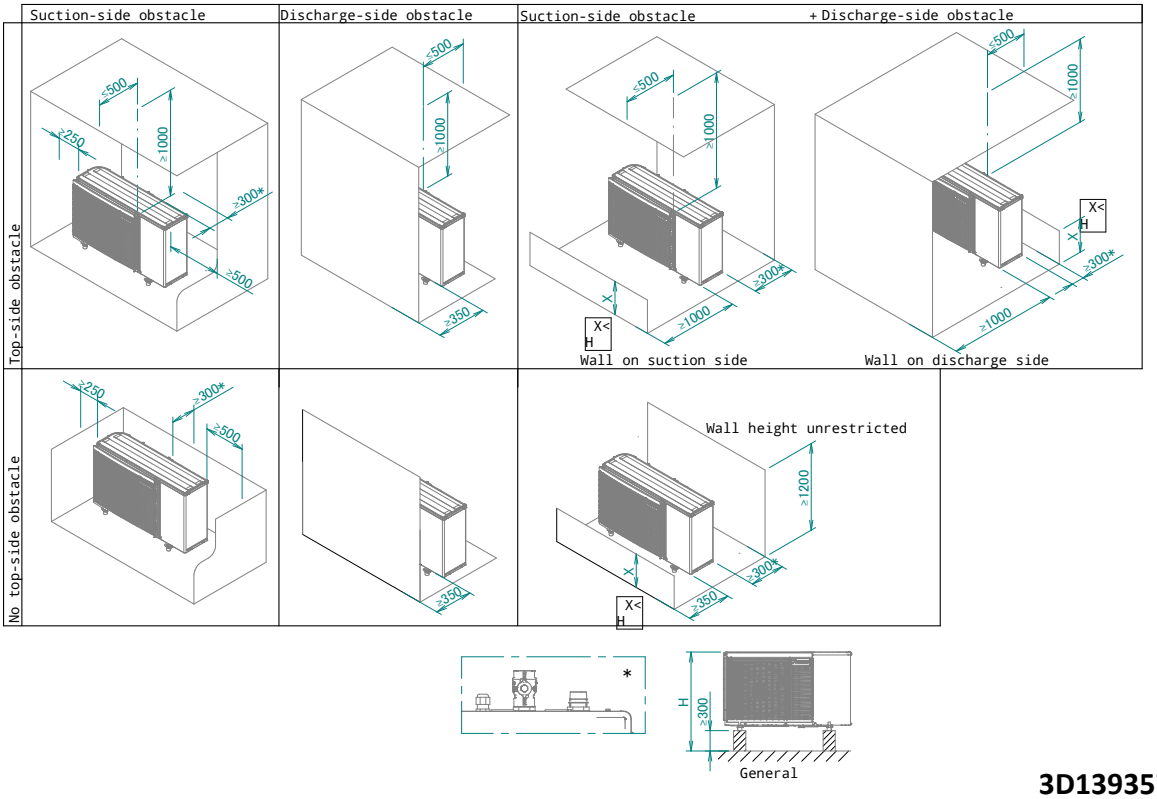
**3D140607**

# 12 Installation

## 12 - 1 Installation Method



**EBLA04-08EV3 / EDLA04-08EV3 / EBLA04-08E3V3 / EDLA04-08E3V3**



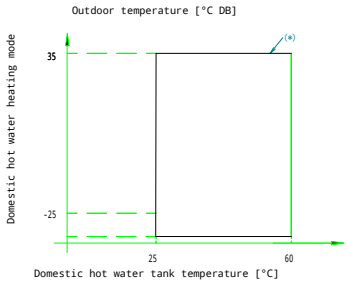

**3D139357**

# 13 Operation range

## 13 - 1 Operation Range

**EBLA04-08EV3 / EDLA04-08EV3 / EBLA04-08E3V3 / EDLA04-08E3V3**

EKHWS*150*
EKHWS*180* + Third-party with identical specifications as ·EKHWS*150*·




Legend

(*) System operation: the system consists of an outdoor unit and indoor unit, and depending on the system, a booster heater and/or a backup heater.

Remark

If the outdoor temperature ·<-20·°C, then outdoor unit operation is possible, but with a possible capacity reduction.

If the outdoor temperature < -25°C, the outdoor unit will stop.

Indoor unit and backup heater operation will continue.

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

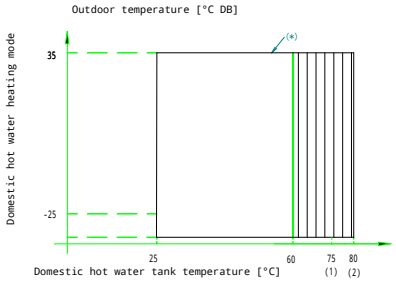
   Tank thermistor and booster heater above heat pump coil.
3. If negative ambient temperatures are expected, both in operation or at standstill, take adequate countermeasures against freezing.

   For more information, refer to the installation manual.
4. 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.

EKHWP* + EKHWS*200*
EKHWS*250*
EKHWS*300* + Third-party with identical specifications as ·EKHWS*200*·




Legend

Booster heater only operation (if a booster heater is part of the system)
(1) Combination of EKHWS*
(2) Combination of EKHWP*

(*) System operation: the system consists of an outdoor unit and indoor unit, and depending on the system, a booster heater and/or a backup heater.

Remark

If the outdoor temperature ·<-20·°C, then outdoor unit operation is possible, but with a possible capacity reduction.

If the outdoor temperature < -25°C, the outdoor unit will stop.

Indoor unit and backup heater operation will continue.

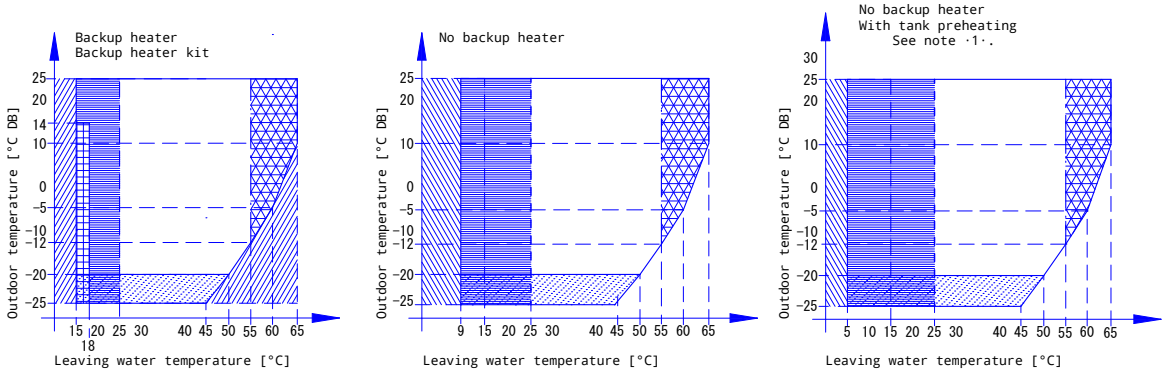
Notes

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. If negative ambient temperatures are expected, both in operation or at standstill, take adequate countermeasures against freezing.

   For more information, refer to the installation manual.
4. 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.

3D139360

**EBLA04-08EV3 / EDLA04-08EV3 / EBLA04-08E3V3 / EDLA04-08E3V3**




**Legend**

- Backup heater only operation
  No outdoor unit operation
- Heat pump + backup heater operation
  Pull-up area
- Outdoor unit operation if controller setpoint is regulated to minimal leaving water temperature request.
  See dashed lines
- Operation of outdoor unit possible, but with possible capacity reduction.
- Circulation pump operation only
- Outdoor unit operation if setpoint >·55·°C and ΔT = ·10·°C (ΔT = outlet temperature – inlet temperature)

**Notes**

1. Tank preheating
   For details, see the installer reference guide.
2. If negative ambient temperatures are expected, both in operation or at standstill, take adequate countermeasures against freezing.

   For more information, refer to the installation manual.
3. In restricted power supply mode, the outdoor unit and backup heater can only operate separately.

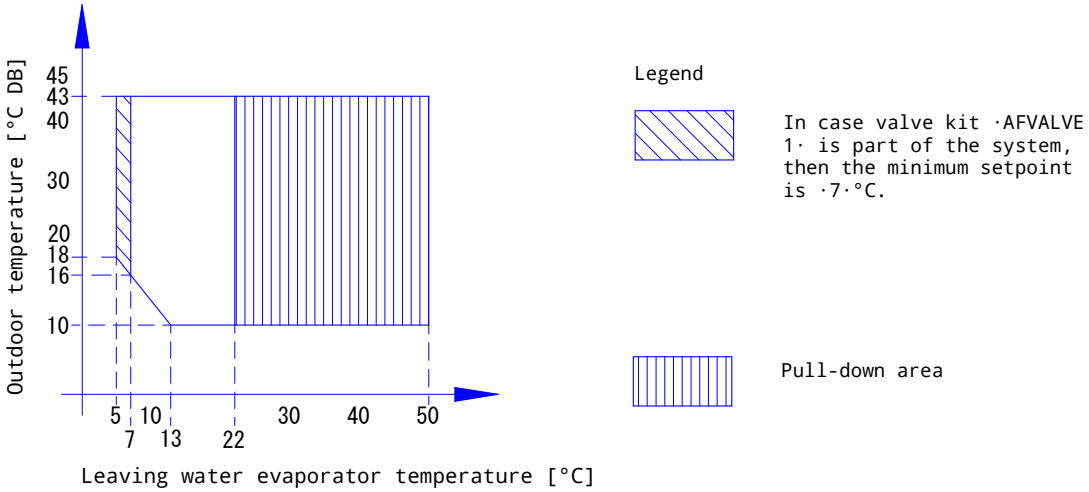
**3D139428**

# 13 Operation range

## 13 - 1 Operation Range



**EBLA04-08EV3**
**EBLA04-08E3V3**




Notes
1.If negative ambient temperatures are expected, both in operation or at standstill, take adequate countermeasures against freezing.

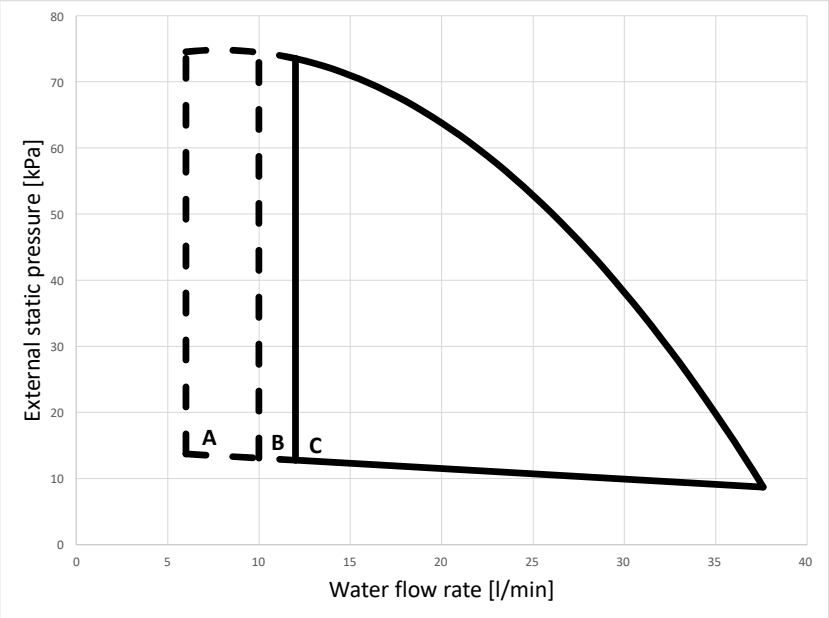
For more information, refer to the installation manual.

**3D139430**

# 14 Hydraulic performance

## 14 - 1 Static Pressure Drop Unit

**EBLA04-08E3V3**
**EDLA04-08E3V3**




A = Minimum water flow rate during normal operation
B = Minimum water flow rate during Cooling operation
C = Minimum water flow rate during Defrost and Backup heater operation

Notes

1. Selecting a flow outside the operating area can damage the unit or cause the unit to malfunction. See also the minimum and maximum allowed water flow range in the technical specifications.
2. Water quality must be according to EU directive 2020/2184

**4D139365**

# 15 Certification drawing

## EBLA04-08EV3 / EDLA04-08EV3 / EBLA04-08E3V3 / EDLA04-08E3V3

Rated data for certification programmes - heating mode

| | | | E(B/D)LA04E2(3)V3 | | E(B/D)LA06E2(3)V3 | | E(B/D)LA08E2(3)V3 | |
|---|---|---|---|---|---|---|---|---|
| Tamb [°C] | EWC [°C] | LWC [°C] | HC [kW] | COP | HC [kW] | COP | HC [kW] | COP |
| 10/8 | 30 | 35 | 5,17 | 5,42 | 6,17 | 5,12 | 7,72 | 4,72 |
| 7/6 | 30 | 35 | 4,30 | 5,10 | 6,00 | 4,85 | 7,50 | 4,60 |
| 2/1 | 30 | 35 | 3,50 | 4,10 | 4,80 | 3,75 | 5,60 | 3,65 |
| -7/-8 | 30 | 35 | 4,50 | 3,10 | 5,50 | 2,90 | 6,00 | 2,70 |
| 7/6 | 40 | 45 | 4,60 | 3,65 | 5,90 | 3,50 | 7,80 | 3,50 |
| 2/1 | 40 | 45 | 4,20 | 2,80 | 5,00 | 2,80 | 6,00 | 2,75 |
| -7/-8 | 40 | 45 | 4,35 | 2,40 | 5,00 | 2,35 | 6,10 | 2,21 |
| 7/6 | 47 | 55 | 4,90 | 2,65 | 5,80 | 2,70 | 7,50 | 2,70 |
| -7/-8 | 47 | 55 | 4,20 | 1,60 | 5,00 | 1,65 | 5,50 | 1,70 |

Rated data for certification programmes - cooling mode

| | | | EBLA04E2(3)V3 | | EBLA06E2(3)V3 | | EBLA08E2(3)V3 | |
|---|---|---|---|---|---|---|---|---|
| Tamb [°C] | EWE [°C] | LWE [°C] | CC [kW] | EER | CC [kW] | EER | CC [kW] | EER |
| 35 | 23 | 18 | 4,86 | 5,91 | 5,83 | 5,4 | 6,18 | 5,19 |
| 35 | 12 | 7 | 4,52 | 3,32 | 5,09 | 3,28 | 5,44 | 3,14 |

Seasonal data - cooling

Low temperature Application

LWE 7°C

| | | EBLA04E2(3)V3 | EBLA06E2(3)V3 | EBLA08E2(3)V3 |
|---|---|---|---|---|
| SEER | [-] | 5,25 | 5,31 | 5,36 |
| Pdes | [kW] | 4,5 | 5,1 | 5,4 |
| $\eta_{s,c}$ | [-] | 210% | 212% | 215% |
| $Q_{CE}$ | [kWh/annum] | 518 | 576 | 609 |

Rated data for sound GET database

| Standard sound model | | E(B/D)LA04E2(3)V3 | E(B/D)LA06E2(3)V3 | E(B/D)LA08E2(3)V3 |
|---|---|---|---|---|
| Maximum sound day | Sound power [dBA] | 60 | 62 | 65 |
| Maximum sound night | Sound power [dBA] | 54 | 54 | 54 |

| Low sound model | | E(B/D)LA04E2(3)V3 | E(B/D)LA06E2(3)V3 | E(B/D)LA08E2(3)V3 |
|---|---|---|---|---|
| Maximum sound day | Sound power [dBA] | 59 | 61 | 63 |
| Maximum sound night | Sound power [dBA] | 52 | 52 | 52 |

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 condensor temperature [°C] |
| EWE | Entering water evaporator temperature [°C] |
| LWE | Leaving water evaporator temperature [°C] |
| Tamb | Ambient temperature [°C DB/WB] |
| Pdes | Nominal capacity value at design temperature [kW] |
| $\eta_{s,c}$ | Seasonal space cooling energy efficiency according to -EN14825- |
| SEER | Seasonal energy efficiency ratio according to -EN14825- |
| $Q_{CE}$ | Annual energy consumption for cooling according to -EN14825- |

Rated data for certification programmes - domestic hot water performance

| Outdoor unit | | E(B/D)LA(04/06/08)E2(3)V3 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Domestic hot water tank** | | **EKHWS150D3V3** | **EKHWS180D3V3** | **EKHWS200D3V3** | **EKHWS250D3V3** | **EKHWS300D3V3** | **EKHWSU150D3V3** | **EKHWSU180D3V3** | **EKHWSU200D3V3** | **EKHWSU250D3V3** | **EKHWSU300D3V3** | **EKHWP300B** | **EKHWP500B** | **EKHWP300PB** | **EKHWP500PB** |
| **Tapping pattern** | | **L** | **L** | **L** | **XL** | **XL** | **L** | **L** | **L** | **XL** | **XL** | **L** | **XL** | **L** | **XL** |
| **Application** | | Average climate (design temperature: -7-°C ) | | | | | | | | | | | | | |
| **$COP_{DHW}$** | **[]** | 2,02 | 2,65 | 2,91 | 2,77 | 2,77 | 2,02 | 2,65 | 2,91 | 2,77 | 2,77 | 2,28 | 2,60 | 2,28 | 2,63 |
| **$\eta_{wh}$** | **[%]** | 84,1% | 110,3% | 121,1% | 117,1% | 114,3% | 84,1% | 110,3% | 121,1% | 117,1% | 114,3% | 94,7% | 107,4% | 94,7% | 108,7% |
| **AEC** | **[kWh]** | 1217 | 928 | 845 | 1430 | 1466 | 1217 | 928 | 845 | 1430 | 1466 | 1081 | 1560 | 1081 | 1541 |
| **Application** | | Colder climate (design temperature: -2-°C ) | | | | | | | | | | | | | |
| **$COP_{DHW}$** | **[]** | 1,66 | 2,16 | 2,36 | 2,34 | 2,33 | 1,66 | 2,16 | 2,36 | 2,34 | 2,33 | 2,02 | 2,12 | 2,02 | 2,15 |
| **$\eta_{wh}$** | **[%]** | 68,8% | 89,6% | 98,3% | 98,9% | 96,2% | 68,8% | 89,6% | 98,3% | 98,9% | 96,2% | 83,7% | 87,3% | 83,7% | 88,3% |
| **AEC** | **[kWh]** | 1487 | 1142 | 1042 | 1694 | 1742 | 1487 | 1142 | 1042 | 1694 | 1742 | 1223 | 1918 | 1223 | 1896 |
| **Application** | | Warmer climate (design temperature: -14-°C ) | | | | | | | | | | | | | |
| **$COP_{DHW}$** | **[]** | 2,38 | 3,01 | 3,31 | 3,22 | 3,23 | 2,38 | 3,01 | 3,31 | 3,22 | 3,23 | 2,50 | 3,18 | 2,50 | 3,21 |
| **$\eta_{wh}$** | **[%]** | 99,8% | 126,2% | 138,6% | 136,7% | 133,3% | 99,8% | 126,2% | 138,6% | 136,7% | 133,3% | 103,9% | 132,0% | 103,9% | 133,4% |
| **AEC** | **[kWh]** | 1025 | 811 | 738 | 1225 | 1256 | 1025 | 811 | 738 | 1225 | 1256 | 985 | 1269 | 985 | 1256 |

Symbols

| | |
|---|---|
| $COP_{DHW}$ | Domestic hot water COP<br>According to EN16147. |
| $\eta_{wh}$ | Πwh (Water heating energy efficiency) |
| AEC | Annual energy consumption [kWh] |

**3D139368**

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EEDEN22 05/2022

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