

## Heating

# Technical Data

Daikin Altherma low temperature monobloc



EEDEN13-725

EDHQ-BB6V3



# TABLE OF CONTENTS

## EDHQ-BB6V3

|    |                                          |    |
|----|------------------------------------------|----|
| 1  | Features .....                           | 2  |
| 2  | Specifications .....                     | 3  |
|    | Technical Specifications .....           | 3  |
|    | Electrical Specifications .....          | 4  |
| 3  | Options .....                            | 7  |
|    | Options .....                            | 7  |
| 4  | Capacity tables .....                    | 9  |
|    | Heating Capacity Tables .....            | 9  |
| 5  | Dimensional drawings .....               | 10 |
|    | Dimensional Drawings .....               | 10 |
| 6  | Piping diagrams .....                    | 11 |
|    | Piping Diagrams .....                    | 11 |
| 7  | Wiring diagrams .....                    | 12 |
|    | Wiring Diagrams - Single Phase .....     | 12 |
| 8  | External connection diagrams .....       | 14 |
|    | External Connection Diagrams .....       | 14 |
| 9  | Sound data .....                         | 15 |
|    | Sound Pressure Spectrum - Heating .....  | 15 |
|    | Sound Pressure Spectrum Quiet Mode ..... | 16 |
| 10 | Installation .....                       | 17 |
|    | Installation Method .....                | 17 |
| 11 | Operation range .....                    | 18 |
|    | Operation Range .....                    | 18 |
|    | Correction Factors .....                 | 19 |
| 12 | Hydraulic performance .....              | 20 |
|    | Static Pressure Drop Unit .....          | 20 |

# 1 Features

- Single phase heating only monobloc
- Energy efficient heating only system based on air to water heat pump technology
- Low energy bills and low CO2 emissions
- Eco-label certified
- H2O piping between outdoor unit and indoor heat emitters
- Inverter controlled scroll compressor
- Built-in electric back-up heater as additional heating during extremely cold outdoor temperature
- Possible to combine with domestic hot water



## 2 Specifications

| 2-1 Technical Specifications |                      |                  |        |          | EDHQ011BB6V3                          |  | EDHQ014BB6V3          |  | EDHQ016BB6V3          |  |
|------------------------------|----------------------|------------------|--------|----------|---------------------------------------|--|-----------------------|--|-----------------------|--|
| Heating capacity             | Nom.                 |                  |        | kW       | 11.20 (1) / 10.87 (2)                 |  | 14.00 (1) / 13.10 (2) |  | 16.00 (1) / 15.06 (2) |  |
| Capacity control             | Method               |                  |        |          | Inverter controlled                   |  |                       |  |                       |  |
| Power input                  | Heating              | Nom.             |        | kW       | 2.56 (1) / 3.31 (2)                   |  | 3.29 (1) / 4.01 (2)   |  | 3.88 (1) / 4.71 (2)   |  |
| COP                          |                      |                  |        |          | 4.38 (1) / 3.28 (2)                   |  | 4.25 (1) / 3.27 (2)   |  | 4.12 (1) / 3.20 (2)   |  |
| Casing                       | Colour               |                  |        |          | Ivory white                           |  |                       |  |                       |  |
|                              | Material             |                  |        |          | Painted galvanized steel plate        |  |                       |  |                       |  |
| Dimensions                   | Unit                 | Height           |        | mm       | 1,418                                 |  |                       |  |                       |  |
|                              |                      | Width            |        | mm       | 1,435                                 |  |                       |  |                       |  |
|                              |                      | Depth            |        | mm       | 382                                   |  |                       |  |                       |  |
|                              | Packed unit          | Height           |        | mm       | 1,557                                 |  |                       |  |                       |  |
|                              |                      | Width            |        | mm       | 1,500                                 |  |                       |  |                       |  |
|                              |                      | Depth            |        | mm       | 430                                   |  |                       |  |                       |  |
| Weight                       | Unit                 |                  |        | kg       | 180                                   |  |                       |  |                       |  |
|                              | Packed unit          |                  |        | kg       | 200                                   |  |                       |  |                       |  |
| Packing                      | Material             |                  |        |          | Wood / Carton / Plastic foil          |  |                       |  |                       |  |
|                              | Weight               |                  |        | kg       | 20                                    |  |                       |  |                       |  |
| Heat exchanger               | Length               |                  |        | mm       | 857                                   |  |                       |  |                       |  |
|                              | Rows                 | Quantity         |        |          | 2                                     |  |                       |  |                       |  |
|                              | Fin pitch            |                  |        | mm       | 1.4                                   |  |                       |  |                       |  |
|                              | Passes               | Quantity         |        |          | 5                                     |  |                       |  |                       |  |
|                              | Face area            |                  |        | m²       | 1.131                                 |  |                       |  |                       |  |
|                              | Stages               | Quantity         |        |          | 60                                    |  |                       |  |                       |  |
|                              | Empty tubeplate hole |                  |        | Quantity | 0                                     |  |                       |  |                       |  |
|                              | Tube type            |                  |        |          | ø8 Hi-XSS                             |  |                       |  |                       |  |
|                              | Fin                  | Type             |        |          | WF fin                                |  |                       |  |                       |  |
|                              |                      | Treatment        |        |          | Anti-corrosion treatment (PE)         |  |                       |  |                       |  |
| Pump                         | Type                 |                  |        |          | Water cooled                          |  |                       |  |                       |  |
|                              | Nr of speeds         |                  |        |          | 2                                     |  |                       |  |                       |  |
|                              | Nominal ESP unit     | Heating          | kPa    |          | 54.5 (4) / 55.7 (8)                   |  | 43.3 (4) / 47.1 (8)   |  | 34.0 (4) / 38.5 (8)   |  |
|                              | Power input          |                  |        | W        | 210                                   |  |                       |  |                       |  |
| Expansion vessel             | Volume               |                  |        | l        | 10                                    |  |                       |  |                       |  |
|                              | Max. water pressure  |                  |        | bar      | 3                                     |  |                       |  |                       |  |
|                              | Pre pressure         |                  |        | bar      | 1.0                                   |  |                       |  |                       |  |
| Fan                          | Type                 |                  |        |          | Propeller fan                         |  |                       |  |                       |  |
|                              | Quantity             |                  |        |          | 2                                     |  |                       |  |                       |  |
|                              | Discharge direction  |                  |        |          | Horizontal                            |  |                       |  |                       |  |
|                              | Air flow rate        | Heating          | High   | m³/min   | 90                                    |  |                       |  |                       |  |
| Fan motor                    | Quantity             |                  |        |          | 2                                     |  |                       |  |                       |  |
|                              | Model                |                  |        |          | Brushless DC motor                    |  |                       |  |                       |  |
|                              | Speed                | Steps            |        |          | 8                                     |  |                       |  |                       |  |
|                              |                      | Heating          | Nom.   | rpm      | 760                                   |  |                       |  |                       |  |
|                              | Output               |                  |        | W        | 70                                    |  |                       |  |                       |  |
|                              | Drive                |                  |        |          | Direct drive                          |  |                       |  |                       |  |
| Compressor                   | Quantity             |                  |        |          | 1                                     |  |                       |  |                       |  |
|                              | Model                |                  |        |          | JT100G-VD                             |  |                       |  |                       |  |
|                              | Type                 |                  |        |          | Hermetically sealed scroll compressor |  |                       |  |                       |  |
|                              | Output               |                  |        | W        | 2,200                                 |  |                       |  |                       |  |
|                              | Starting method      |                  |        |          | Inverter driven                       |  |                       |  |                       |  |
|                              | Motor                | Crankcase heater | Output | W        | 33                                    |  |                       |  |                       |  |
| Operation range              | Heating              | Ambient          | Min.   | °CWB     | -15                                   |  |                       |  |                       |  |
|                              |                      |                  | Max.   | °CWB     | 35                                    |  |                       |  |                       |  |
|                              |                      | Water side       | Min.   | °C       | 15 (5)                                |  |                       |  |                       |  |
|                              |                      |                  | Max.   | °C       | 55 (5)                                |  |                       |  |                       |  |
|                              | Domestic hot water   | Ambient          | Min.   | °CDB     | -15                                   |  |                       |  |                       |  |
|                              |                      |                  | Max.   | °CDB     | 43                                    |  |                       |  |                       |  |
|                              |                      | Water side       | Min.   | °C       | 25                                    |  |                       |  |                       |  |
|                              |                      |                  | Max.   | °C       | 80                                    |  |                       |  |                       |  |

## 2 Specifications

| 2-1 Technical Specifications |                                    |          |      |                                               | EDHQ011BB6V3                      | EDHQ014BB6V3        | EDHQ016BB6V3        |
|------------------------------|------------------------------------|----------|------|-----------------------------------------------|-----------------------------------|---------------------|---------------------|
| Water side Heat exchanger    | Type                               |          |      |                                               | Brazed plate                      |                     |                     |
|                              | Quantity                           |          |      |                                               | 1                                 |                     |                     |
|                              | Water volume                       |          |      | l                                             | 1.01                              |                     |                     |
|                              | Water flow rate                    | Heating  | Nom. | l/min                                         | 32.1 (4) / 31.2 (8)               | 40.1 (4) / 37.6 (8) | 45.9 (4) / 43.2 (8) |
|                              |                                    | Min.     |      | l/min                                         | 16                                |                     |                     |
|                              |                                    | Max.     |      | l/min                                         | 58                                |                     |                     |
| Insulation material          |                                    |          |      | Foamed polyurethane                           |                                   |                     |                     |
| Refrigerant                  | Type                               |          |      |                                               | R-410A                            |                     |                     |
|                              | Charge                             |          |      | kg                                            | 2.95                              |                     |                     |
|                              | Control                            |          |      |                                               | Expansion valve (electronic type) |                     |                     |
|                              | Circuits                           | Quantity |      |                                               | 1                                 |                     |                     |
| Refrigerant oil              | Type                               |          |      |                                               | Daphne FVC68D                     |                     |                     |
|                              | Charged volume                     |          |      | l                                             | 1.0                               |                     |                     |
| Sound power level            | Heating                            | Nom.     | dBA  | 64                                            | 65                                | 66                  |                     |
| Sound pressure level         | Heating                            | Nom.     | dBA  | 51 (3)                                        |                                   | 52 (3)              |                     |
|                              | Night quiet mode                   | Heating  | dBA  | 42                                            |                                   | 43                  |                     |
| Defrost method               |                                    |          |      | Reversed cycle                                |                                   |                     |                     |
| Defrost control              |                                    |          |      | Sensor for outdoor heat exchanger temperature |                                   |                     |                     |
| Water filter                 | Diameter perforations              |          |      | mm                                            | 1                                 |                     |                     |
|                              | Material                           |          |      | Brass                                         |                                   |                     |                     |
| Water circuit                | Piping connections diameter        |          |      | inch                                          | G 5/4" (female)                   |                     |                     |
|                              | Piping                             |          |      | inch                                          | 5/4"                              |                     |                     |
|                              | Safety valve                       |          |      | bar                                           | 3                                 |                     |                     |
|                              | Manometer                          |          |      | Yes                                           |                                   |                     |                     |
|                              | Drain valve / fill valve           |          |      | Yes                                           |                                   |                     |                     |
|                              | Shut off valve                     |          |      | Yes                                           |                                   |                     |                     |
|                              | Air purge valve                    |          |      | Yes                                           |                                   |                     |                     |
|                              | Total water volume                 |          |      | l                                             | 5.5 (6)                           |                     |                     |
|                              | Minimum water volume in the system |          |      | l                                             | 20 (7.0)                          |                     |                     |
| Safety devices               | Item                               | 01       |      | High pressure switch                          |                                   |                     |                     |
|                              |                                    | 02       |      | Fan motor thermal protection                  |                                   |                     |                     |
|                              |                                    | 03       |      | Fuse                                          |                                   |                     |                     |

| 2-2 Electrical Specifications          |                        |                   |                                     |     | EDHQ011BB6V3                                                                                                                                      | EDHQ014BB6V3 | EDHQ016BB6V3 |
|----------------------------------------|------------------------|-------------------|-------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| Optional domestic hot water tank + Q2L | Wiring connections     | Quantity          |                                     |     | 3G                                                                                                                                                |              |              |
|                                        |                        | Type of wires     |                                     |     | For more details on voltage range and current refer to installation manual / Select diameter and type according to national and local regulations |              |              |
| Hydraulic component                    | Back-up heater current | Type              |                                     |     | 6V3                                                                                                                                               |              |              |
|                                        |                        | Power supply      | Phase                               |     | 1~                                                                                                                                                |              |              |
|                                        |                        |                   | Frequency                           | Hz  | 50                                                                                                                                                |              |              |
|                                        |                        |                   | Voltage                             | V   | 230                                                                                                                                               |              |              |
|                                        |                        | Running current   | Back-up heater                      |     | 26                                                                                                                                                |              |              |
|                                        |                        |                   | Back-up heater + booster heater *V3 |     | 39 (26+13)                                                                                                                                        |              |              |
|                                        |                        |                   |                                     |     |                                                                                                                                                   |              |              |
|                                        |                        | Zmax              | Back-up heater                      |     | 0.29                                                                                                                                              |              |              |
|                                        |                        |                   | Back-up heater + booster heater     |     | 0.17                                                                                                                                              |              |              |
|                                        |                        | Minimum Ssc value | +EK®V3                              | kVa | Equipment complying with EN/IEC 61000-3-12                                                                                                        |              |              |
|                                        | Voltage range          | Min.              |                                     | %   | -10                                                                                                                                               |              |              |
|                                        |                        | Max.              |                                     | %   | 10                                                                                                                                                |              |              |
|                                        | Wiring connections     | Quantity          |                                     |     | 3G                                                                                                                                                |              |              |
|                                        |                        | Type of wires     |                                     |     | Select diameter and type according to national and local regulations                                                                              |              |              |

## 2 Specifications

| 2-2 Electrical Specifications |                    |                         |         |    | EDHQ011BB6V3                                                                                                                                                             | EDHQ014BB6V3 | EDHQ016BB6V3 |
|-------------------------------|--------------------|-------------------------|---------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| Compressor component          | Main power supply  | Name                    |         |    | V3                                                                                                                                                                       |              |              |
|                               |                    | Phase                   |         |    | 1~                                                                                                                                                                       |              |              |
|                               |                    | Frequency               |         | Hz | 50                                                                                                                                                                       |              |              |
|                               |                    | Voltage                 |         | V  | 230                                                                                                                                                                      |              |              |
|                               | Voltage range      | Min.                    |         | %  | -10                                                                                                                                                                      |              |              |
|                               |                    | Max.                    |         | %  | 10                                                                                                                                                                       |              |              |
|                               | Current            | Maximum running current | Heating | A  | 26.5                                                                                                                                                                     |              |              |
|                               |                    | Recommended fuses       |         |    | A                                                                                                                                                                        | 32           |              |
| Wiring connections            |                    | For power supply        |         |    | See installation manual                                                                                                                                                  |              |              |
| A3P                           | Wiring connections | Quantity                |         |    | Depends on thermostat type, refer to installation manual                                                                                                                 |              |              |
|                               |                    | Type of wires           |         |    | Select diameter and type according to national and local regulations / Voltage 230V / Maximum current: 100mA / Minimum: 0.75mm²                                          |              |              |
| M2S                           | Wiring connections | Quantity                |         |    | 3G                                                                                                                                                                       |              |              |
|                               |                    | Type of wires           |         |    | Select diameter and type according to national and local regulations / Voltage 230V / Maximum current: 100mA / Minimum: 0.75mm²                                          |              |              |
| M3S                           | Wiring connections | Quantity                |         |    | 3G or 4G                                                                                                                                                                 |              |              |
|                               |                    | Type of wires           |         |    | Select diameter and type according to national and local regulations / Voltage 230V / Maximum current: 100mA / Minimum: 0.75mm²                                          |              |              |
| R5T                           | Wiring connections | Quantity                |         |    | Wire included in option EKHWS*/EKHTS*                                                                                                                                    |              |              |
|                               |                    | Type of wires           |         |    | Wire included in option EKHWS*/EKHTS*                                                                                                                                    |              |              |
| Notes                         |                    |                         |         |    | The installer can reduce the capacity of the heater from 6 to 3kW. The current is then reduced from 26 to 13A. Please refer to the installation manual for instructions. |              |              |

### Notes

- (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) 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.
- (4) Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C)
- (5) 15°C-25°C: BUH only, no heat pump operation = during commissioning
- (6) Including piping + PHE + back-up heater; excluding expansion vessel
- (7) Excluding water volume in the unit. In most applications this minimum water volume will have a satisfying result. In critical processes or in rooms with a high heat load though, extra water volume might be required. Refer to operation range for more info.
- (8) Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C)
- (9) PED: assembly = category I : excluded from scope of PED due to article 1, item 3.6 of 97/23/EC
- (10) Power supply compressor compartment is for compressor, fan, pump and controller
- (11) Power supply hydraulic compartment is for the electric heater. The optional domestic hot water tank has a separate power supply.
- (12) 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 (system impedance) ≤ Zmax
- (13) 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 ≤ 75A
- (14) Minimum Ssc value: Equipment complying with 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 >16A and ≤ 75A per phase
- (15) The installer can reduce the capacity of the heater from 6 to 3kW. The current is then reduced from 26 to 13A. Please refer to the installation manual for instructions.

## 3 Options

### 3 - 1 Options

#### EDHQ011-016BB6V3

##### Bivalent system

Space heating with an auxiliary boiler (alternating operation)

Space heating application by either the Daikin indoor unit or by an auxiliary boiler connected in the system. The decision whether either the E(D/B)\* unit or the boiler will operate can be achieved by an auxiliary contact or an E(D/B)\* indoor controlled contact.

This auxiliary contact can e.g. be an outdoor temperature thermostat, an electricity tariff contact, a manually operated contact, etc.

The E(D/B)\* unit controlled contact (also called 'permission signal for the auxiliary boiler') is determined by the outdoor temperature (thermistor located at the unit).

Bivalent operation is only possible for space heating operation, not for domestic water heating operation.

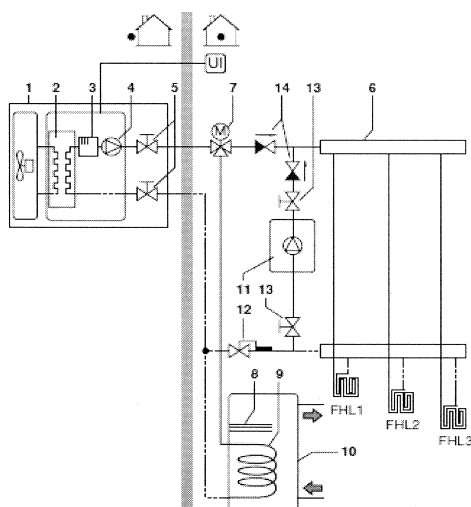
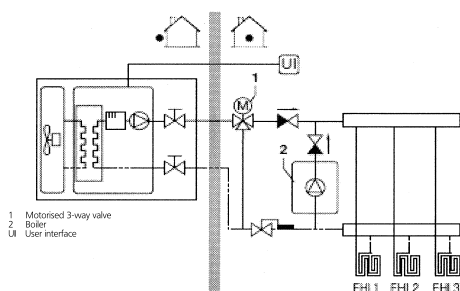
Domestic hot water in such an application is always provided by the domestic hot water tank which is connected to the Daikin unit.

The auxiliary boiler can be integrated in the pipework and in the field wiring according to the illustrations below.

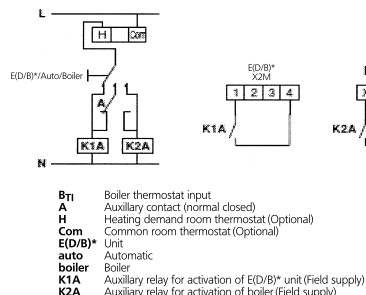


##### CAUTION

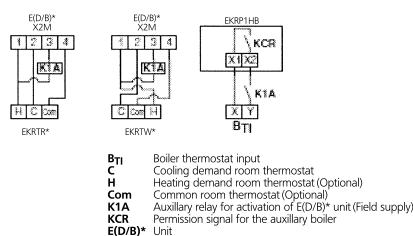
- Be sure that the boiler and the integration of the boiler in the system is in accordance with the applicable legislation.
- Always install a 3-way valve, even if no domestic hot water tank is installed. This to ensure that the freeze protection function can operate when the boiler is active.



##### Field wiring configuration A



##### Field wiring configuration B



##### Operation

- Configuration A**  
When the room thermostat requests heating, either the E(D/B)\* unit or the boiler starts operating, depending on the position of the auxiliary contact (A).
- Configuration B**  
When the room thermostat requests heating, either the E(D/B)\* unit or the boiler starts operating, depending on the outdoor temperature (status of 'permission signal for auxiliary boiler').  
When the permission is given towards the boiler, the space heating operation by the E(D/B)\* unit will be automatically switched off.  
For more details see field setting [C-02-C-04]



##### Notice

- Configuration A**  
Make sure that auxiliary contact (A) has sufficient differential or time delay so as to avoid frequent changeover between the E(D/B)\* unit and the boiler. If the auxiliary contact (A) is an outdoor temperature thermostat, make sure to install the thermostat in the shade, so that it is not influenced or turned ON/OFF by the sun.
- Configuration B**  
Make sure that the bivalent hysteresis [C-04] has sufficient differential to avoid frequent changeover between the E(D/B)\* unit and the boiler. As the outdoor temperature is measured via the unit's air thermistor, make sure to install the unit in the shade, so that it is not influenced by the sun. Frequent switching may cause corrosion of the boiler in an early stage. Contact the manufacturer of the boiler.
- During heating operation of the E(D/B)\* unit, the unit will operate so as to achieve the target leaving water temperature as set on the user interface. When weather dependent operation is active, the water temperature is determined automatically depending on the outdoor temperature. During heating operation of the boiler, the boiler will operate so as to achieve the target leaving water temperature as set on the boiler controller. Never set the target leaving water temperature setpoint on the boiler controller above 55°C.
- Make sure to only have 1 expansion vessel in the water circuit. An expansion vessel is already pre-mounted in the Daikin unit.



##### Notice

Make sure to configure the DIP switch SS2-3 on the PCB of the E(D/B)\* switch box correctly. For configuration B: Make sure to configure the field setting [C-02, C-03 and C-04] correctly.



##### Notice

Make sure return water to the E(D/B)\* heat exchanger never exceeds 55°C.  
For this reason, never put the target leaving water temperature set point on the boiler controller above 55°C and install an aquastat<sup>a</sup> valve in the return water flow of the E(D/B)\* unit.  
Make sure that the non-return valves (field supply) are correctly installed in the system.  
Make sure that the room thermostat EKTR or EKRTW are not frequently turned ON/OFF.  
Daikin shall not be held liable for any damage resulting from failure to observe this rule.

<sup>a</sup> The aquastat valve must be set for 55°C and must operate to close the return water flow to the unit when the measured temperature exceeds 55°C. When the temperature drops to a lower level, the aquastat valve must operate to open the return water flow to E(D/B)\* unit again.



##### Information

Manual permission towards the E(D/B)\* unit on the boiler. In case only the E(D/B)\* unit should operate in space heating mode, disable the bivalent operation via setting [C-02].  
In case only the boiler should operate in space heating mode, increase the bivalent ON temperature [C-03] to 25°C.

3TW60699



## 3 Options

### 3 - 1 Options

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#### EDHQ011-016BB6V3

##### Kit availability

| Reference     | Description                                                 | Altherma Monobloc / Low temperature |      |      |              |      |      |              |      |      |              |      |      |
|---------------|-------------------------------------------------------------|-------------------------------------|------|------|--------------|------|------|--------------|------|------|--------------|------|------|
|               |                                                             | 1-Phase                             |      |      |              |      |      | 3-Phase      |      |      |              |      |      |
|               |                                                             | Zone 2                              |      |      | Zone 3       |      |      | Zone 2       |      |      | Zone 3       |      |      |
|               |                                                             | EDLQ***BB6V3                        |      |      | EDHQ***BB6V3 |      |      | EDLQ***BB6V1 |      |      | EDHQ***BB6V1 |      |      |
|               |                                                             | EBLQ***BB6V3                        |      |      | EBHQ***BB6V3 |      |      | EBLQ***BB6V1 |      |      | EBHQ***BB6V1 |      |      |
|               |                                                             | 011                                 | 014  | 016  | 011          | 014  | 016  | 011          | 014  | 016  | 011          | 014  | 016  |
| *KRP1HB*      | Digital I/O PCB (1)                                         | 0                                   | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    |
| *KBPTH16A     | Bottom plate heater                                         | -                                   | -    | -    | O(2)         | O(2) | O(2) | -            | -    | -    | O(2)         | O(2) | O(2) |
| *KDK04        | drain plug kit                                              | -                                   | -    | -    | O(2)         | O(2) | O(2) | -            | -    | -    | O(2)         | O(2) | O(2) |
| *KHWS150*3V3  | Stainless domestic hot water tank 150L 1~230V               | 0                                   | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    |
| *KHWS200*3V3  | Stainless domestic hot water tank 200L 1~230V               | 0                                   | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    |
| *KHWS300*3V3  | Stainless domestic hot water tank 300L 1~230V               | 0                                   | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    |
| *KHWSU150*3V3 | Stainless domestic hot water tank 150L 1~230V (only for UK) | 0                                   | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    |
| *KHWSU200*3V3 | Stainless domestic hot water tank 200L 1~230V (only for UK) | 0                                   | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    |
| *KHWSU300*3V3 | Stainless domestic hot water tank 300L 1~230V (only for UK) | 0                                   | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    |
| *KHWS200*3Z2  | Stainless domestic hot water tank 200L 2~400V               | 0                                   | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    |
| *KHWS300*3Z2  | Stainless domestic hot water tank 300L 2~400V               | 0                                   | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    |
| *KHWE150*3V3  | Enamel domestic hot water tank 150L 1~230V                  | 0                                   | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    |
| *KHWE200*3V3  | Enamel domestic hot water tank 200L 1~230V                  | 0                                   | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    |
| *KHWE300*3V3  | Enamel domestic hot water tank 300L 1~230V                  | 0                                   | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    |
| *KHWE200*3Z2  | Enamel domestic hot water tank 200L 2~400V                  | 0                                   | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    |
| *KHWE300*3Z2  | Enamel domestic hot water tank 300L 2~400V                  | 0                                   | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    |
| *KHWE150*3V3  | Wallmounted enamel domestic hot water tank 150L 1~230V      | 0                                   | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    |
| *KHTS200AC*   | Stainless steel domestic hot water tank 200L                | O(4)                                | O(4) | O(4) | O(4)         | O(4) | O(4) | O(4)         | O(4) | O(4) | O(4)         | O(4) | O(4) |
| *KHTS260AC*   | Stainless steel domestic hot water tank 260L                | O(4)                                | O(4) | O(4) | O(4)         | O(4) | O(4) | O(4)         | O(4) | O(4) | O(4)         | O(4) | O(4) |
| *KHTSU200AC*  | Stainless steel domestic hot water tank 200L (only for UK)  | O(4)                                | O(4) | O(4) | O(4)         | O(4) | O(4) | O(4)         | O(4) | O(4) | O(4)         | O(4) | O(4) |
| *KHTSU260AC*  | Stainless steel domestic hot water tank 260L (only for UK)  | O(4)                                | O(4) | O(4) | O(4)         | O(4) | O(4) | O(4)         | O(4) | O(4) | O(4)         | O(4) | O(4) |
| *KRTW*        | Wired room thermostat option kit                            | 0                                   | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    |
| *KRTR*        | Wireless room thermostat option kit (incl. receiver)        | 0                                   | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    |
| *KRTES*       | External temperature sensor option kit (3)                  | 0                                   | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    | 0            | 0    | 0    |

Remark: Other combinations are not guaranteed

- (1) Input/Output PCB that provides two additional output connections (remote alarm and remote ON/OFF signalisation). In \*KSOLHWAV1, the same digital I/O PCB as for \*KRP1HB is already included  
 (2) It is not allowed to combine bottom plate heater and drain plug kit.  
 (3) \*KRTES can only be used in combination with \*KRTR.  
 (4) A connection kit \*KFMALTA is required.

Note:  
 E(B/D)L units include special equipment (insulation, heater sheet, ...) to ensure good operation in areas where low ambient temperature can occur together with high humidity conditions. In such conditions the E(B/D)L models may experience problems with severe ice build up on the aircooled coil. In case such conditions are expected, the E(B/D)L must be installed instead.

##### Kit availability for \*KHW\*

| Reference  | Description                                   | #    |      |      |          |          |          |      |      |      |      |      |      |
|------------|-----------------------------------------------|------|------|------|----------|----------|----------|------|------|------|------|------|------|
|            |                                               | 150A | 200A | 300A | 150(A/B) | 200(A/B) | 300(A/B) | 150A | 200A | 300A | 150B | 200B | 300B |
|            | *KHVE(T)#3(V3/Z2)                             |      |      |      |          |          |          |      |      |      |      |      |      |
|            | *KHWS#3(V3/Z2)                                |      |      |      | 150(A/B) | 200(A/B) | 300(A/B) |      |      |      |      |      |      |
|            | *KHWSU#3V3                                    |      |      |      |          |          |          | 150A | 200A | 300A | 150B | 200B | 300B |
| *KUHWA     | Option kit for UK *KHWSU 150~300*3V3          | -    | -    | -    | -        | -        | -        | 0    | 0    | 0    | 0    | 0    | 0    |
| *KUHWB     | Option kit 1 for UK *KHWSU 150~300*3V3 (4)    | -    | -    | -    | -        | -        | -        | O(2) | O(2) | O(2) | 0    | 0    | 0    |
| *KUHW2WB   | Option kit 2 for UK *KHWSU 150~300 3V3 (4)    | -    | -    | -    | -        | -        | -        | O(2) | O(2) | O(2) | O(3) | O(3) | O(3) |
| *KSOLHWAV1 | Solarkit (1)                                  | O(5) | O(5) | O(5) | O(5)     | O(5)     | O(5)     | O(5) | O(5) | O(5) | O(5) | O(5) | O(5) |
| *KSR3PA    | Control panel                                 | O(5) | O(5) | O(5) | O(5)     | O(5)     | O(5)     | O(5) | O(5) | O(5) | O(5) | O(5) | O(5) |
| *KSRDS1A   | Pump station                                  | O(5) | O(5) | O(5) | O(5)     | O(5)     | O(5)     | O(5) | O(5) | O(5) | O(5) | O(5) | O(5) |
| *KWBSWW150 | Wall bracket for *KHWSU150*3V3 or *KSWW150V3* | -    | -    | -    | 0        | -        | -        | 0    | -    | -    | 0    | -    | -    |

Remark: Other combinations are not guaranteed

- (1) Kit to be mounted on domestic hot water tank that provides connection to solar panels for additional water heating.  
 (2) If installation on tank A version both kits are required  
 (3) Kit is only necessary when installing \*KSOLHWAV1 on a UK tank B-series (\*KHWSU(150/200/300)B3V3)  
 (4) \*KUHWB = \*KUHWA - (2 way valve and 2 way valve accessories)  
 (5) \*KUHW2WB = 2 way valve and 2 way valve accessories  
 A digital I/O PCB which is required when connecting the solar kit, is supplied with the solar kit

##### Kit availability for \*KHTS\*

| Reference | Description                     | #   |     |     |     |
|-----------|---------------------------------|-----|-----|-----|-----|
|           |                                 | 200 | 260 | 200 | 260 |
|           | EKHTS*                          |     |     |     |     |
|           | EKHTSU*                         |     |     |     |     |
| *KFMALTA  | Option kit for *KHTS200~260 (1) | 0   | 0   | 0   | 0   |
| *KUHWHTA  | Option kit for *KHTSU200~260    | -   | -   | 0   | 0   |

- (1) This option kit is necessary to connect \*KHTS\* to \*(B/D)(H/L)Q\*BB\*

3TW59259-1A

## 4 Capacity tables

### 4 - 1 Heating Capacity Tables

#### EDHQ-BB6V3

##### Maximum heating capacity - Peak values

| LWC [°C]            |         | 30      |         | 35      |         | 40      |         | 45      |         | 50      |         | 55      |         |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Tamb [°C]           |         | HC [kW] | PI [kW] | HC [kW] | PI [kW] | HC [kW] | PI [kW] | HC [kW] | PI [kW] | HC [kW] | PI [kW] | HC [kW] | PI [kW] |
| E(D/B)(H/L)Q011*6V3 | -20 (a) | 5,86    | 2,26    | 5,51    | 2,46    |         |         |         |         |         |         |         |         |
|                     | -15     | 6,63    | 2,30    | 6,23    | 2,51    | 6,09    | 2,76    |         |         |         |         |         |         |
|                     | -7      | 8,13    | 2,33    | 7,66    | 2,56    | 7,51    | 2,81    | 7,32    | 3,27    |         |         |         |         |
|                     | -2      | 9,28    | 2,34    | 8,76    | 2,57    | 8,61    | 2,83    | 8,41    | 3,30    | 8,11    | 3,66    |         |         |
|                     | 2       | 10,32   | 2,34    | 9,77    | 2,57    | 9,62    | 2,84    | 9,42    | 3,31    | 9,10    | 3,68    | 8,51    | 4,09    |
|                     | 7       | 11,80   | 2,32    | 11,20   | 2,56    | 11,06   | 2,84    | 10,87   | 3,31    | 10,53   | 3,69    | 9,88    | 4,11    |
|                     | 12      | 12,80   | 2,25    | 12,18   | 2,49    | 12,07   | 2,77    | 11,89   | 3,25    | 11,57   | 3,63    | 10,89   | 4,05    |
|                     | 15      | 13,84   | 2,22    | 13,20   | 2,47    | 13,10   | 2,76    | 12,93   | 3,24    | 12,60   | 3,62    | 11,89   | 4,04    |
|                     | 20      | 15,73   | 2,17    | 15,04   | 2,42    | 14,97   | 2,71    | 14,82   | 3,20    | 14,07   | 3,59    | 13,32   | 4,01    |
| E(D/B)(H/L)Q014*6V3 | -20 (a) | 7,42    | 2,87    | 7,20    | 3,12    |         |         |         |         |         |         |         |         |
|                     | -15     | 8,29    | 2,93    | 8,00    | 3,19    | 7,72    | 3,49    |         |         |         |         |         |         |
|                     | -7      | 10,07   | 3,00    | 9,67    | 3,27    | 9,28    | 3,58    | 9,08    | 3,89    |         |         |         |         |
|                     | -2      | 11,46   | 3,03    | 11,00   | 3,30    | 10,54   | 3,63    | 10,29   | 3,94    | 10,13   | 4,35    |         |         |
|                     | 2       | 12,75   | 3,04    | 12,23   | 3,32    | 11,72   | 3,65    | 11,43   | 3,97    | 11,25   | 4,39    | 10,73   | 4,84    |
|                     | 7       | 14,59   | 3,04    | 14,00   | 3,29    | 13,42   | 3,67    | 13,10   | 4,00    | 12,89   | 4,42    | 12,30   | 4,88    |
|                     | 12      | 15,44   | 2,95    | 14,84   | 3,24    | 14,23   | 3,57    | 13,91   | 3,89    | 13,70   | 4,31    | 13,07   | 4,77    |
|                     | 15      | 16,73   | 2,93    | 16,09   | 3,23    | 15,45   | 3,57    | 15,10   | 3,90    | 14,88   | 4,31    | 14,21   | 4,77    |
|                     | 20      | 19,09   | 2,90    | 18,38   | 3,20    | 17,67   | 3,55    | 17,30   | 3,88    | 16,58   | 4,31    | 15,85   | 4,78    |
| E(D/B)(H/L)Q016*6V3 | -20 (a) | 8,47    | 3,36    | 8,34    | 3,65    |         |         |         |         |         |         |         |         |
|                     | -15     | 9,44    | 3,43    | 9,21    | 3,73    | 8,99    | 4,08    |         |         |         |         |         |         |
|                     | -7      | 11,44   | 3,52    | 11,08   | 3,83    | 10,73   | 4,20    | 10,53   | 4,56    |         |         |         |         |
|                     | -2      | 13,01   | 3,56    | 12,58   | 3,88    | 12,14   | 4,26    | 11,89   | 4,63    | 11,45   | 5,10    |         |         |
|                     | 2       | 14,48   | 3,58    | 13,98   | 3,91    | 13,48   | 4,29    | 13,18   | 4,67    | 12,67   | 5,15    | 12,17   | 5,68    |
|                     | 7       | 16,58   | 3,60    | 16,00   | 3,88    | 15,42   | 4,33    | 15,06   | 4,71    | 14,47   | 5,20    | 13,88   | 5,73    |
|                     | 12      | 17,29   | 3,50    | 16,69   | 3,84    | 16,08   | 4,22    | 15,71   | 4,60    | 15,09   | 5,07    | 14,47   | 5,60    |
|                     | 15      | 18,75   | 3,50    | 18,10   | 3,84    | 17,45   | 4,22    | 17,05   | 4,61    | 16,38   | 5,09    | 15,71   | 5,62    |
|                     | 20      | 21,42   | 3,49    | 20,70   | 3,83    | 19,98   | 4,22    | 19,53   | 4,61    | 18,77   | 5,10    | 18,01   | 5,63    |

##### Maximum heating capacity - Integrated value

| LWC [°C]            |         | 30      |         | 35      |         | 40      |         | 45      |         | 50      |         | 55      |         |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Tamb [°C]           |         | HC [kW] | PI [kW] | HC [kW] | PI [kW] | HC [kW] | PI [kW] | HC [kW] | PI [kW] | HC [kW] | PI [kW] | HC [kW] | PI [kW] |
| E(D/B)(H/L)Q011*6V3 | -20 (a) | 4,96    | 2,22    | 4,67    | 2,41    |         |         |         |         |         |         |         |         |
|                     | -15     | 5,61    | 2,25    | 5,27    | 2,46    | 5,16    | 2,70    |         |         |         |         |         |         |
|                     | -7      | 6,88    | 2,29    | 6,49    | 2,50    | 6,36    | 2,76    | 6,19    | 3,21    |         |         |         |         |
|                     | -2      | 7,70    | 2,25    | 7,27    | 2,47    | 7,15    | 2,72    | 6,98    | 3,17    | 6,73    | 3,52    |         |         |
|                     | 2       | 8,57    | 2,25    | 8,11    | 2,47    | 7,99    | 2,73    | 7,82    | 3,18    | 7,56    | 3,54    | 7,06    | 3,93    |
|                     | 7       | 11,80   | 2,32    | 11,20   | 2,56    | 11,06   | 2,84    | 10,87   | 3,31    | 10,53   | 3,69    | 9,88    | 4,11    |
|                     | 12      | 12,80   | 2,25    | 12,18   | 2,49    | 12,07   | 2,77    | 11,89   | 3,25    | 11,57   | 3,63    | 10,89   | 4,05    |
|                     | 15      | 13,84   | 2,22    | 13,20   | 2,47    | 13,10   | 2,76    | 12,93   | 3,24    | 12,60   | 3,62    | 11,89   | 4,04    |
|                     | 20      | 15,73   | 2,17    | 15,04   | 2,42    | 14,97   | 2,71    | 14,82   | 3,20    | 14,07   | 3,59    | 13,32   | 4,01    |
| E(D/B)(H/L)Q014*6V3 | -20 (a) | 6,31    | 2,78    | 6,13    | 3,02    |         |         |         |         |         |         |         |         |
|                     | -15     | 7,05    | 2,84    | 6,80    | 3,09    | 6,57    | 3,38    |         |         |         |         |         |         |
|                     | -7      | 8,57    | 2,91    | 8,23    | 3,17    | 7,89    | 3,47    | 7,72    | 3,77    |         |         |         |         |
|                     | -2      | 9,11    | 2,75    | 8,74    | 3,00    | 8,38    | 3,29    | 8,18    | 3,58    | 8,05    | 3,95    |         |         |
|                     | 2       | 10,13   | 2,76    | 9,72    | 3,02    | 9,31    | 3,31    | 9,09    | 3,61    | 8,95    | 3,98    | 8,53    | 4,39    |
|                     | 7       | 14,59   | 3,04    | 14,00   | 3,29    | 13,42   | 3,67    | 13,10   | 4,00    | 12,89   | 4,42    | 12,30   | 4,88    |
|                     | 12      | 15,44   | 2,95    | 14,84   | 3,24    | 14,23   | 3,57    | 13,91   | 3,89    | 13,70   | 4,31    | 13,07   | 4,77    |
|                     | 15      | 16,73   | 2,93    | 16,09   | 3,23    | 15,45   | 3,57    | 15,10   | 3,90    | 14,88   | 4,31    | 14,21   | 4,77    |
|                     | 20      | 19,09   | 2,90    | 18,38   | 3,20    | 17,67   | 3,55    | 17,30   | 3,88    | 16,58   | 4,31    | 15,85   | 4,78    |
| E(D/B)(H/L)Q016*6V3 | -20 (a) | 7,00    | 3,26    | 6,89    | 3,54    |         |         |         |         |         |         |         |         |
|                     | -15     | 7,80    | 3,33    | 7,61    | 3,62    | 7,43    | 3,96    |         |         |         |         |         |         |
|                     | -7      | 9,45    | 3,42    | 9,15    | 3,72    | 8,86    | 4,08    |         |         |         |         |         |         |
|                     | -2      | 9,96    | 3,18    | 9,62    | 3,47    | 9,29    | 3,80    | 9,09    | 4,13    | 8,76    | 4,55    |         |         |
|                     | 2       | 11,08   | 3,20    | 10,69   | 3,44    | 10,31   | 3,83    | 10,08   | 4,17    | 9,69    | 4,59    | 9,31    | 5,07    |
|                     | 7       | 16,58   | 3,60    | 16,00   | 3,88    | 15,42   | 4,33    | 15,06   | 4,71    | 14,47   | 5,20    | 13,88   | 5,73    |
|                     | 12      | 17,29   | 3,50    | 16,69   | 3,84    | 16,08   | 4,22    | 15,71   | 4,60    | 15,09   | 5,07    | 14,47   | 5,60    |
|                     | 15      | 18,75   | 3,50    | 18,10   | 3,84    | 17,45   | 4,22    | 17,05   | 4,61    | 16,38   | 5,09    | 15,71   | 5,62    |
|                     | 20      | 21,42   | 3,49    | 20,70   | 3,83    | 19,98   | 4,22    | 19,53   | 4,61    | 18,77   | 5,10    | 18,01   | 5,63    |

##### SYMBOLS:

HC Heating capacity at maximum operating frequency, measured acc. EN14511  
 PI Power input, measured acc. EN14511  
 LWC Leaving Water Condensor temperature  
 Tamb Ambient temperature; RH = 85%

##### NOTES:

- For the model with heatertape (\*D/B/LQ): when ambient temperature becomes lower than 'X':  
 bottomplate heater power input to be added = 95W  
 1) For AA models: 'X' = 4°C  
 2) For BA models: 'X' = [F-02] = BPH ON temp (default = 3°C); for more details see  
 installation manual of indoor unit

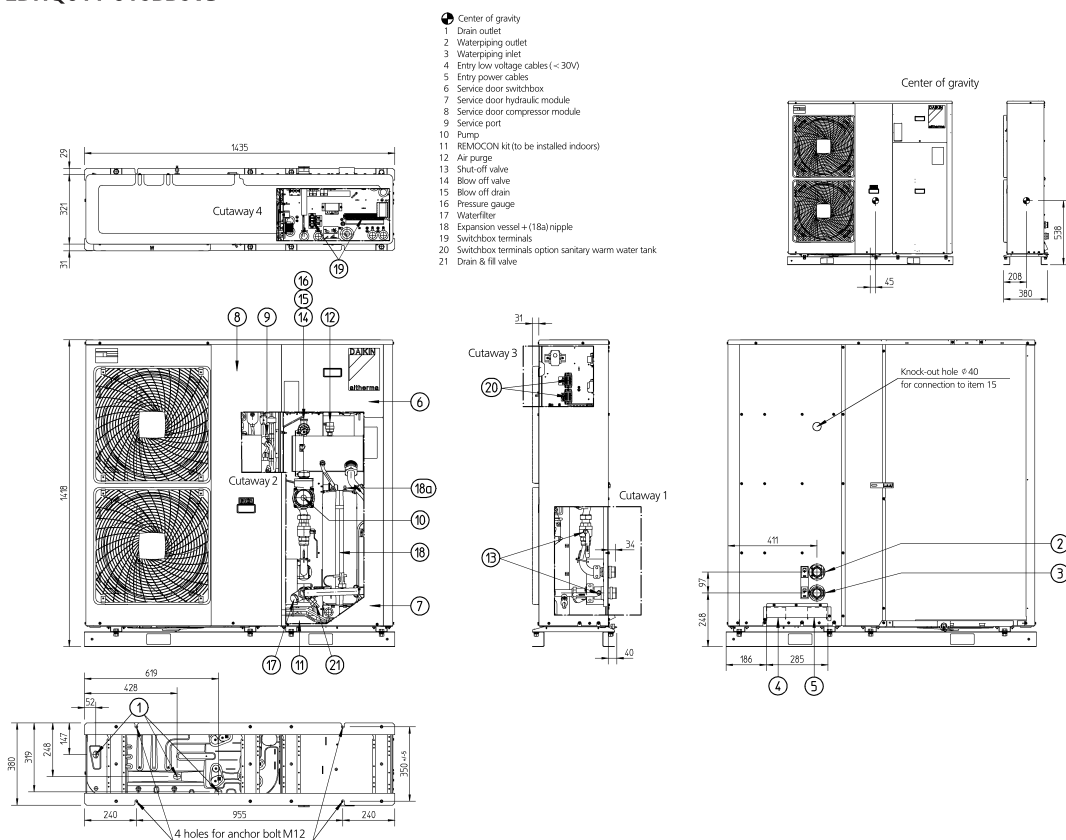
##### NOTES

(a) only E(D/B)L\*

## 5 Dimensional drawings

### 5 - 1 Dimensional Drawings

EDHQ011-016BB6V3

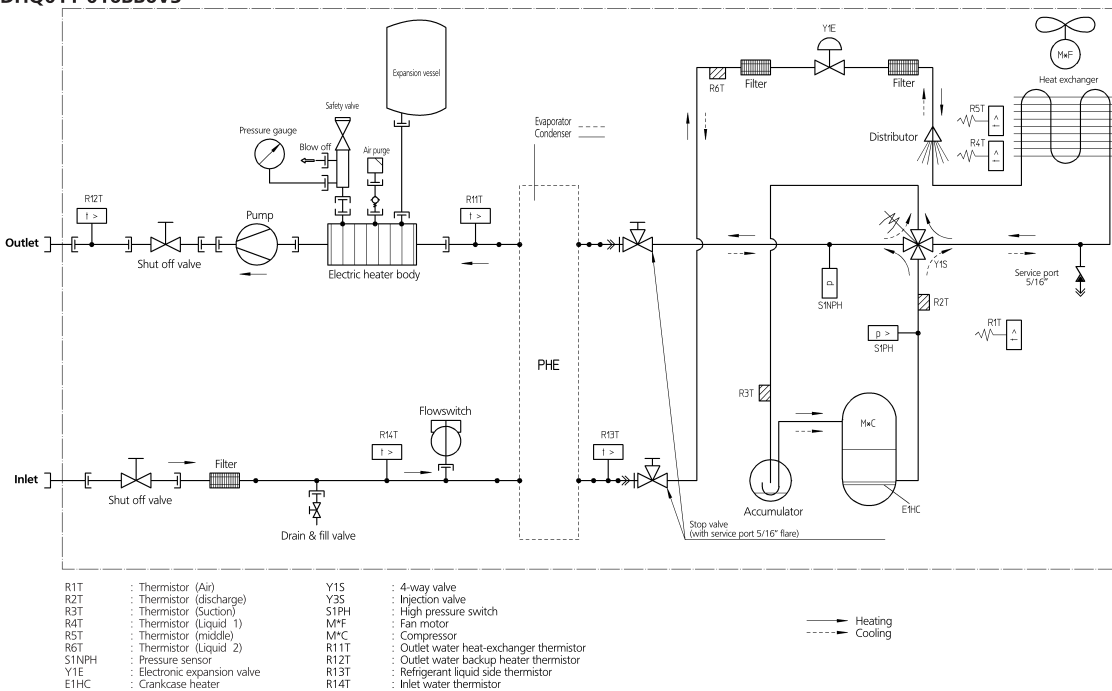


3TW59254-1A

## 6 Piping diagrams

### 6 - 1 Piping Diagrams

EDHQ011-016BB6V3

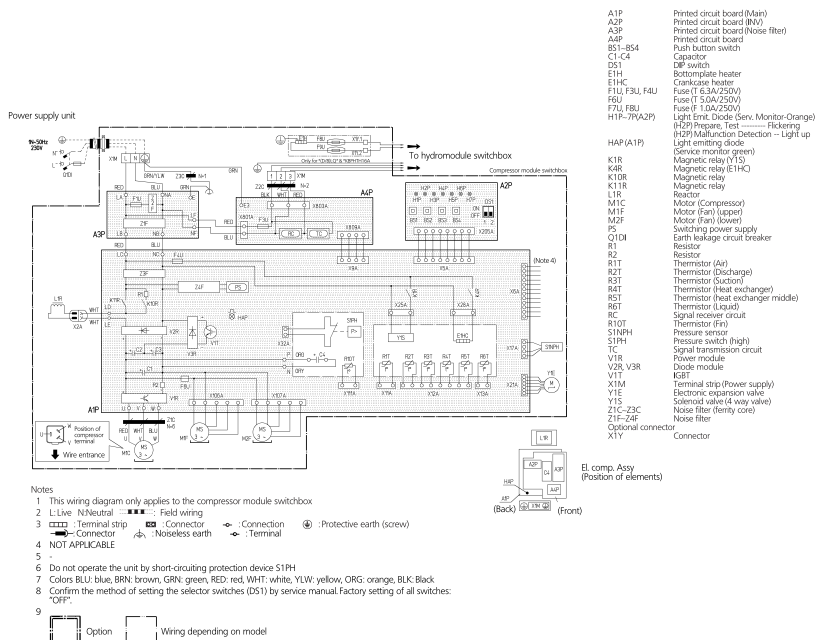


3TW59255-1

## 7 Wiring diagrams

## 7 - 1 Wiring Diagrams - Single Phase

EDHQ011-016BB6V3

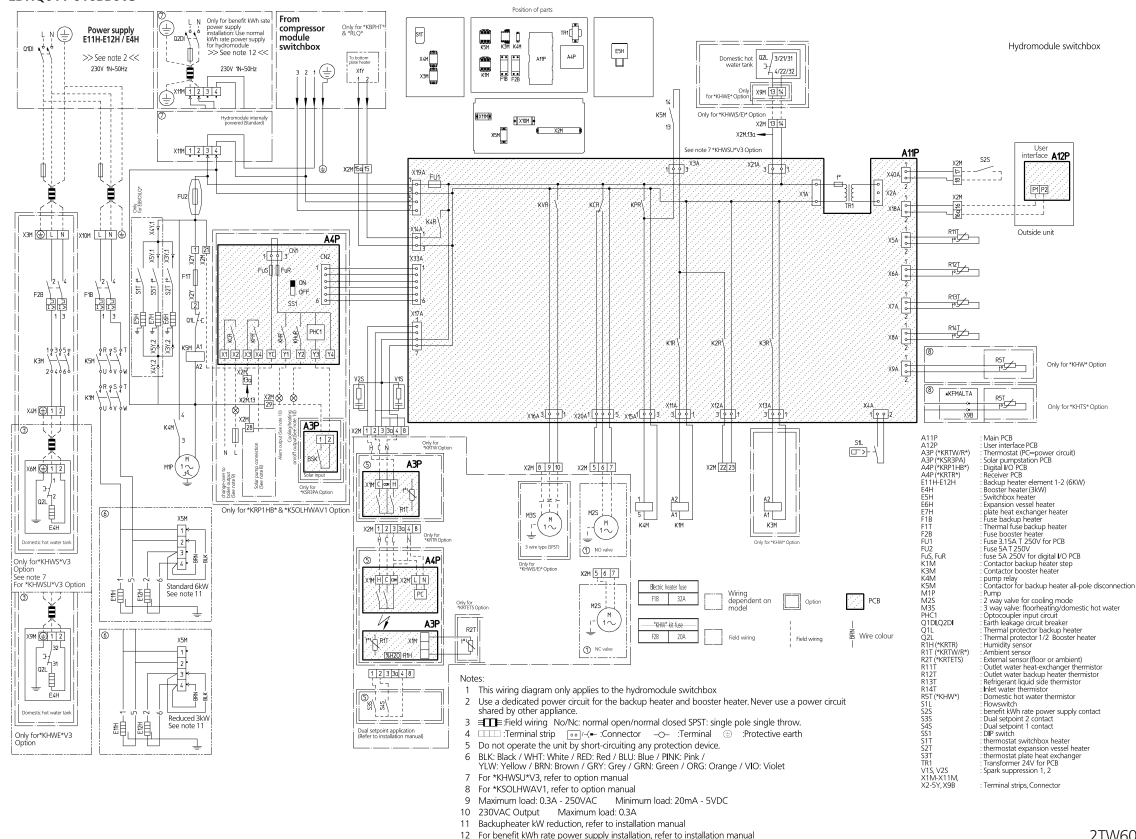


2TW59256-1

# 7 Wiring diagrams

## 7 - 1 Wiring Diagrams - Single Phase

EDHQ11-016BB6V3



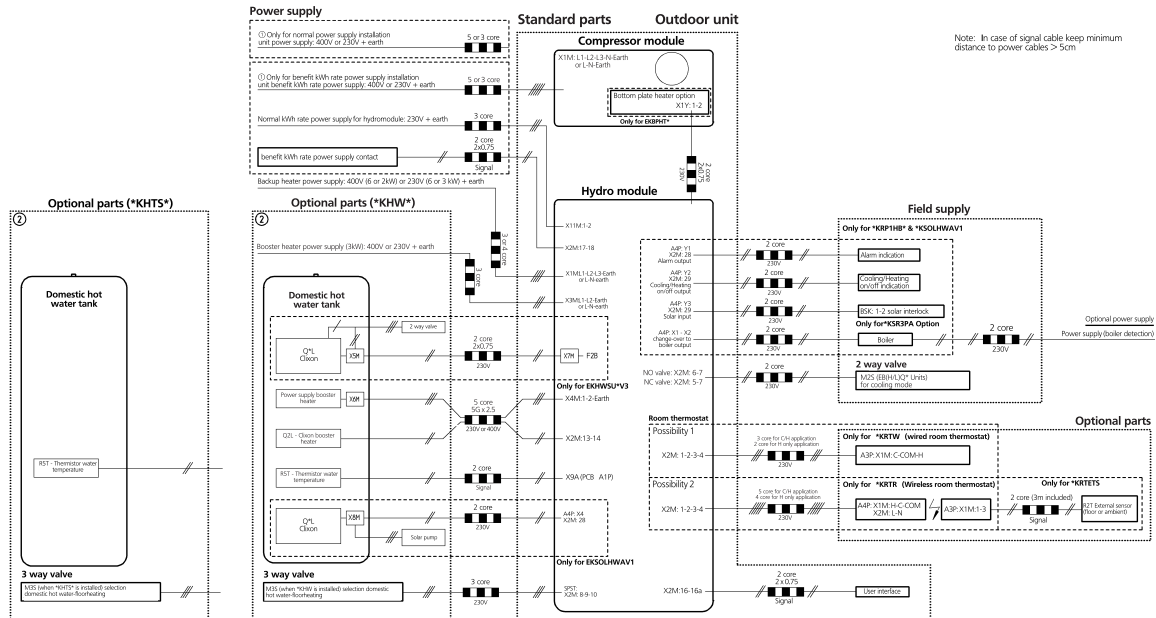
## 8 External connection diagrams

### 8 - 1 External Connection Diagrams

EDHQ011-016BB6V3

Electrical connection diagram Altherma

For more details please check unit wiring diagram

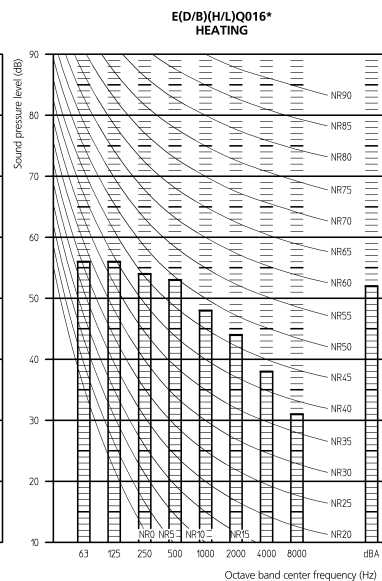
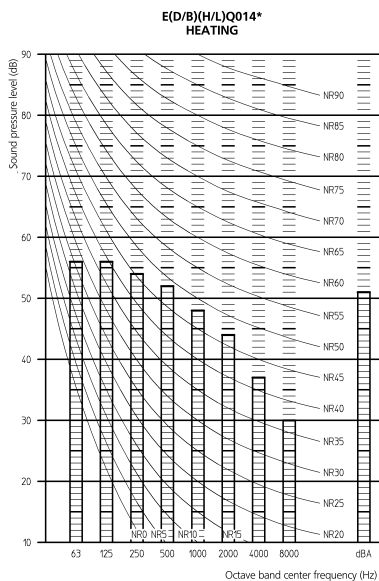
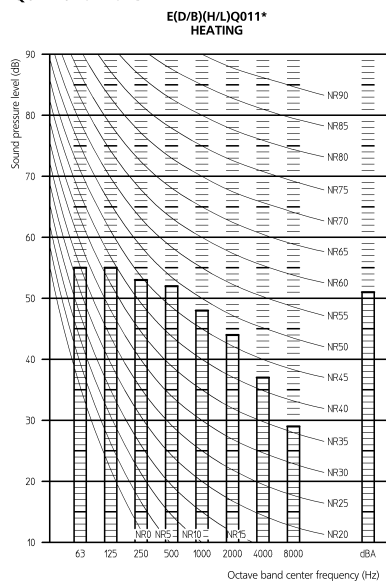


2TW60696-3

## 9 Sound data

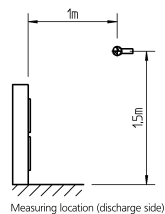
### 9 - 1 Sound Pressure Spectrum - Heating

EDHQ011-016BB6V3



#### Notes:

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



3TW58017-2

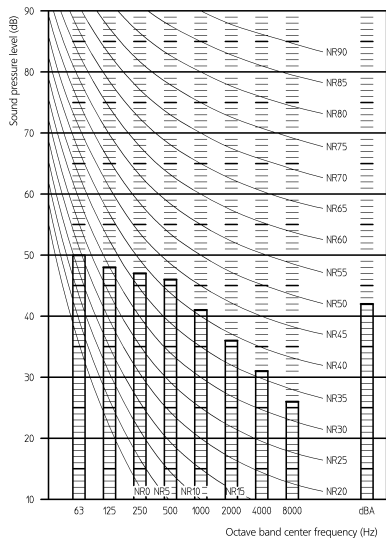


9 Sound data

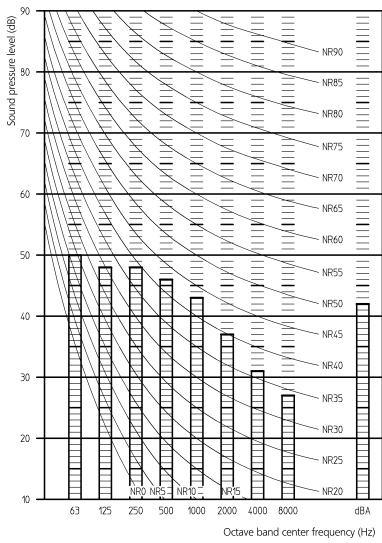
9 - 2 Sound Pressure Spectrum Quiet Mode

EDHQ011-016BB6V3

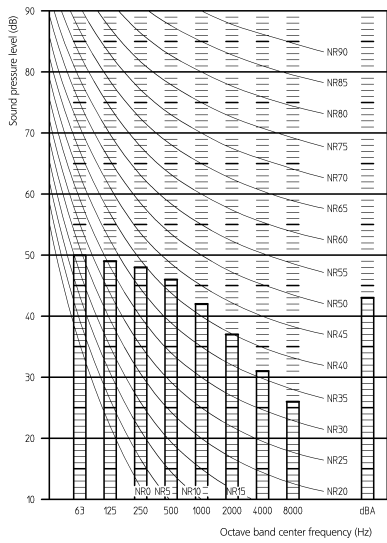
E(D/B)(H/L)Q011\*  
HEATING



E(D/B)(H/L)Q014\*  
HEATING

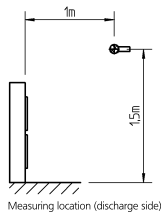


E(D/B)(H/L)Q016\*  
HEATING



Notes:

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



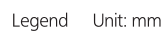
3TW58017-4

## 10 - 1 Installation Method

## 10 - 1 Installation Method

### A. Non stacked installation

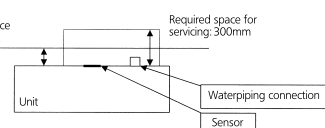
### A. Non stacked installation



side obstacle  This situation is not allowed

- ↖ Suction side obstacle
- ↗ Discharge side obstacle
- ↖ Left side obstacle
- ↗ Right side obstacle
- ↖ Top side obstacle
- ✓ Obstacle is present

**Note:**  
100mm is min. space  
required for correct  
operation



- 1 In these cases, close the bottom of the installation frame to prevent discharged air from being bypassed.

2 In these cases, only 2 units can be installed.

## B. Stacked installation

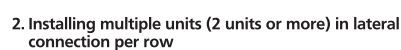
### 1. Obstacles exist in front of the outlet side



About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.  
Get the portion A sealed so that air from the outlet does not bypass.

### C. Multiple-row installation

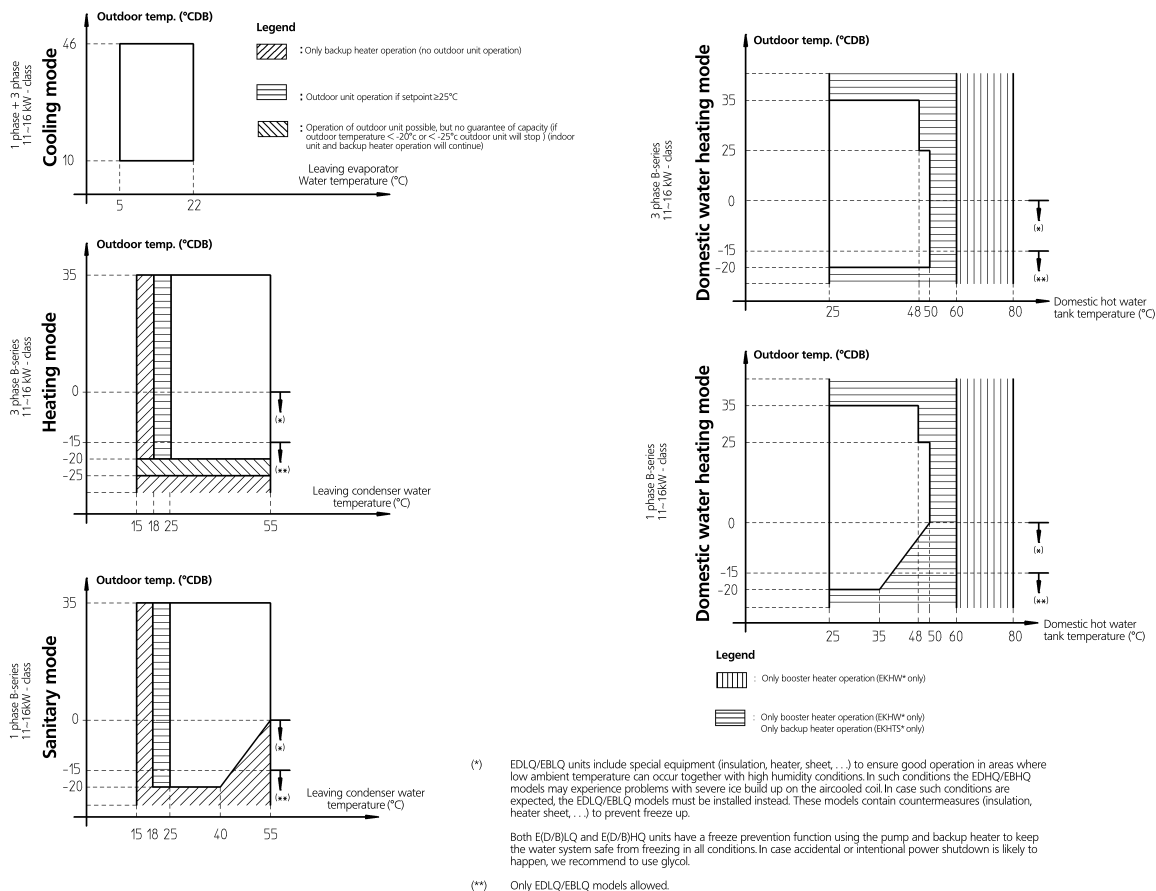
### 1. Installation of one unit per row

3TW58019-6B

# 11 Operation range

## 11 - 1 Operation Range

### EDHQ011-016BB6V3



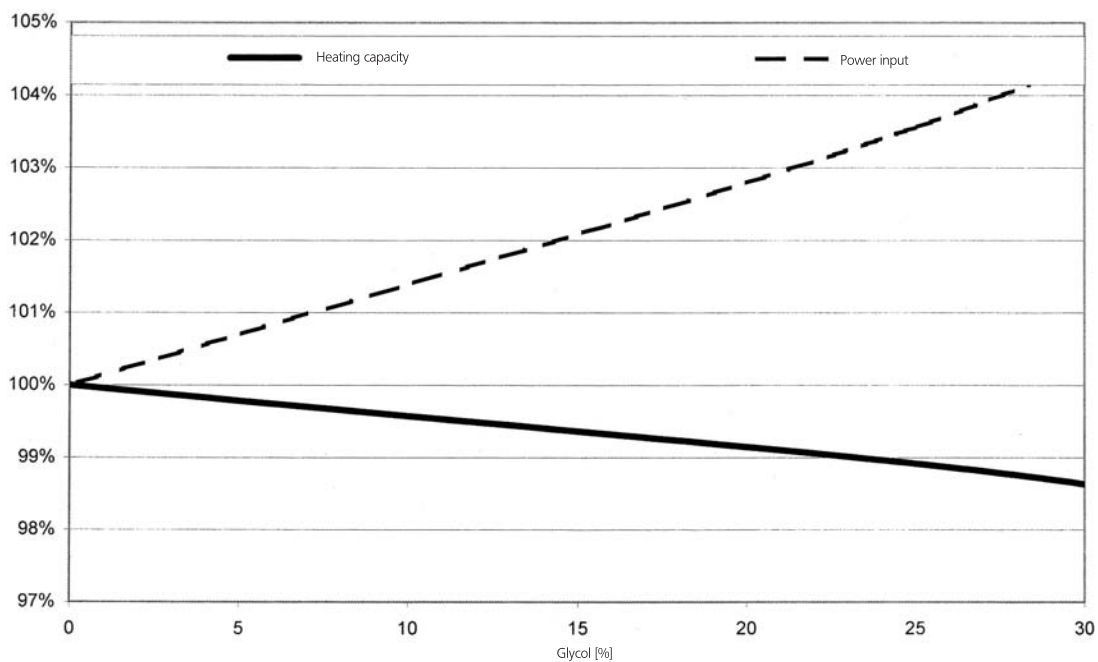
3TW60693-1

# 11 Operation range

## 11 - 2 Correction Factors

EDHQ011-016BB6V3

Performance heating

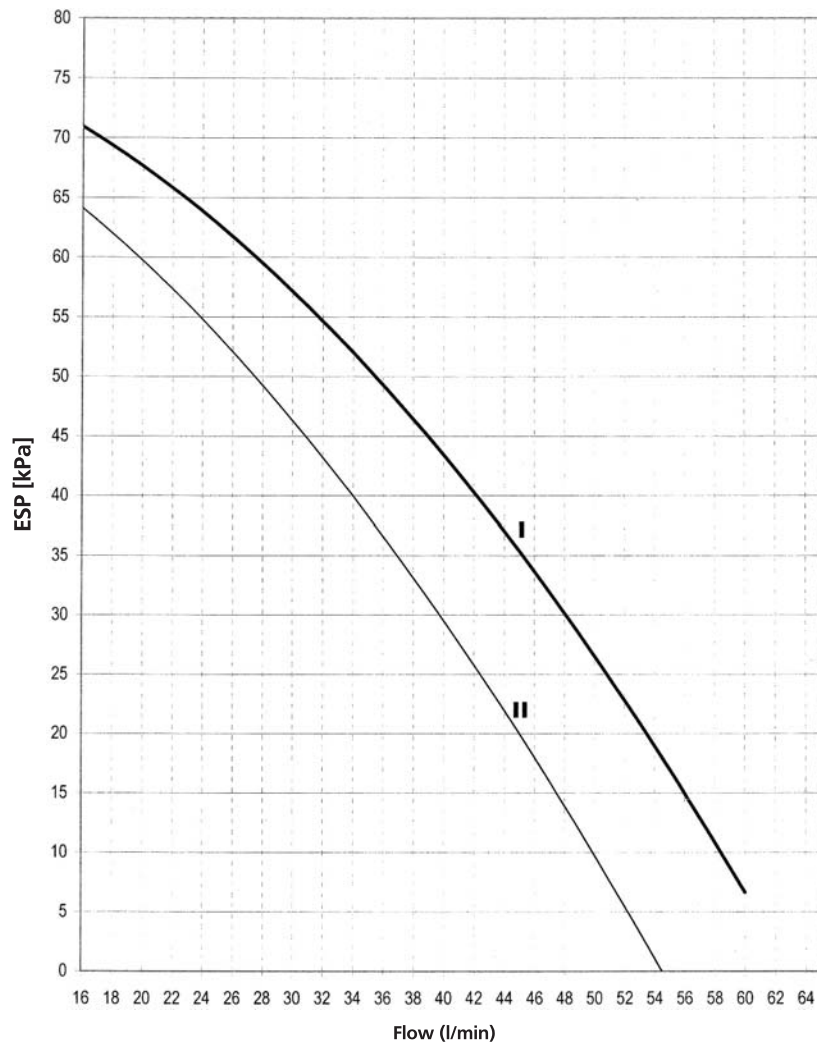


4TW59252-2

## 12 Hydraulic performance

### 12 - 1 Static Pressure Drop Unit

EDHQ011-016BB6V3



I: High speed  
II: medium speed

ESP: External static pressure  
Flow: waterflow through the unit

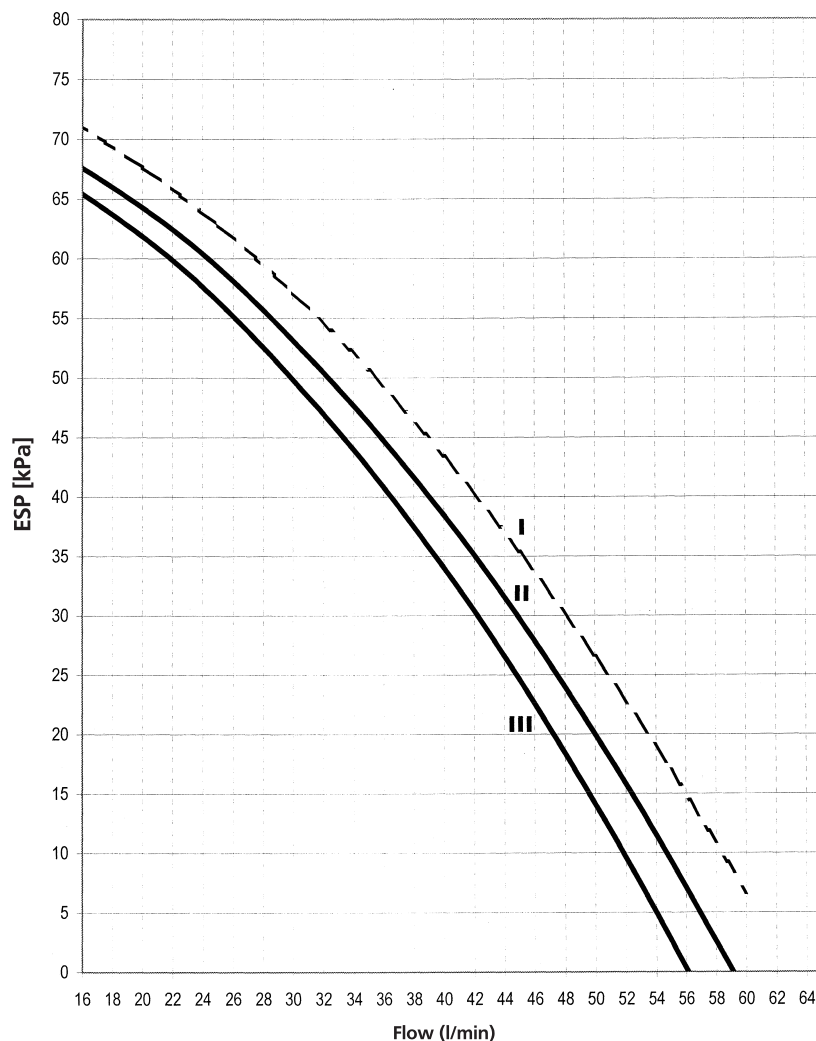
Caution:  
Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.

4TW59259-2

## 12 Hydraulic performance

### 12 - 1 Static Pressure Drop Unit

EDHQ011-016BB6V3



Values only valid for high speed setting

- I: Water
- II: Water / Propylene glycol (25%) at 20°C
- III: Water / Propylene glycol (25%) at 5°C

ESP: External static pressure  
Flow: waterflow through the unit

Caution:  
Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.

4TW59259-4



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