

Chillers

Commercial and Technical Data

Air Cooled Multiple Scroll Chillers

- » **Multiple compressors per circuit**
- » **Reliable and efficient scroll with high EER values**
- » **Easy 'plug and play' installation**
- » **Safety valves in each circuit**
- » **Electronic expansion valve**
- » **True dual plate brazed plate heat exchanger**
- » **Separate switchbox for easy access**



ECDEN11-405

EWAQ-DAYN
EWYQ-DAYN
R-410A



Daikin Europe N.V.

About Daikin

Daikin has a worldwide reputation based on over 85 years' experience in the successful manufacture of high quality air conditioning equipment for industrial, commercial and residential use. Daikin's much envied quality quite simply stems from the close attention paid to design, production and testing, as well as aftersales support. To this end, every component is carefully selected and rigorously tested to verify its contribution to product quality and reliability.

Introduction

The Daikin Hydrocube multiple scroll chiller represents a combination of technological innovation and control strategy within a single chilled water package. The unit offers a comprehensive and energy efficient solution capable of adapting to meet the needs of the most exacting project requirements. The unit is reliable and efficient due to its multiple compressors and refrigerant circuits running on R-410A and features electronic expansion valves and a low noise level. Installation is easy by virtue of its integrated hydraulics. Furthermore, electronic control of the unit is considerably improved by the new control platform plus its connectivity to the Daikin Intelligent manager and I-touch controller.

Air cooled chillers

In the chilled water market, chillers of the air cooled type are most frequently used. Out of its wide range of chillers in cooling only or heat pump version, with or without integrated hydronic components, Daikin always offers you a chiller fitting your application needs.



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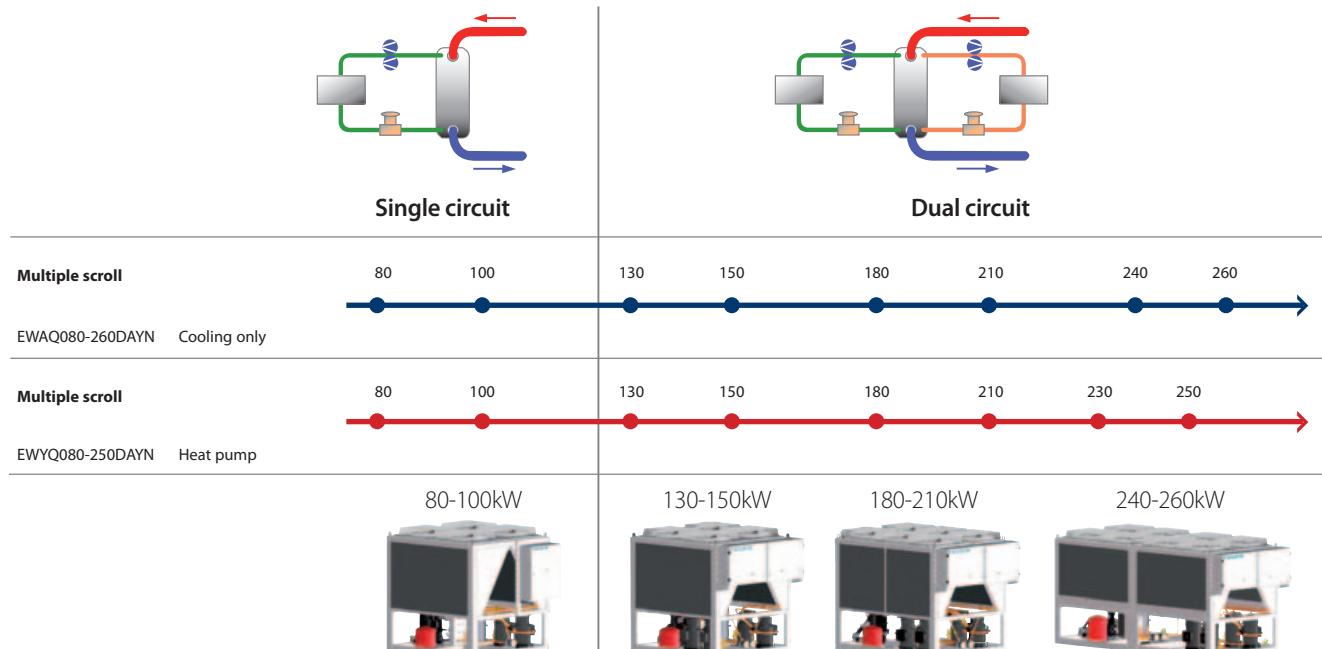
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Air Cooled Multiple Scroll Chillers

Wide application range

Cooling only versions and heat pump versions are available between 80 and 260 kW

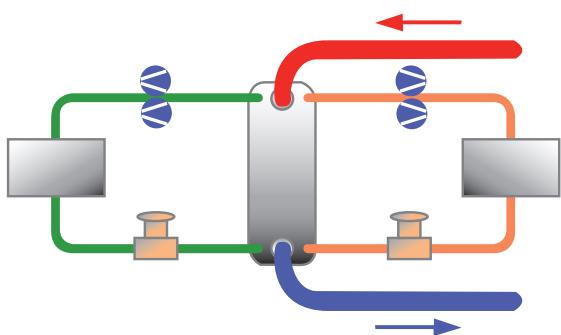


- EWAQ-DAYN **N** = Standard model
EWAQ-DAYN **P** = Standard model + single pump (OPSP)
EWAQ-DAYN **B** = Standard model + single pump (OPSP) + buffer tank (OPBT)

Increased reliability and efficiency via multiple refrigerant circuits and multiple compressors per circuit

Multiple scroll compressors

Multiple scroll compressors per unit increase reliability and improve partial load efficiency. A high partial load efficiency with an average ESEER of 4.16 is feasible over the whole range. The unit incorporates highly reliable and efficient scroll compressors (average EER = 2.8), for outstanding performance at a low sound level over a wide range of operating conditions.



Multiple refrigerant circuits

Tandem scroll compressors on fully independent refrigerant circuits ensure high reliability: if one refrigerant circuit breaks down, the remaining circuits keep operating. A dual circuit heat exchanger (from >100kW) provides excellent part load conditions.

Electronic expansion valves as standard

The advanced electronic expansion valve reacts quickly to changes in conditions within the unit's wide operating range. Direct control of the system superheat maximises usage of the evaporator at much lower condensing temperatures. This leads to optimised energy consumption at low ambient or partload operation.

Integrated hydronics

The multiple scroll chillers come with various associated hydronic component packages to suit customer requirements. Standard fitted hydronics – water filter, air purge and flow switch – are fully integrated within the chiller unit and additional space is available for further optional components. Unit layout is such that all hydronic components can be accessed easily from 3 sides for maintenance purposes.

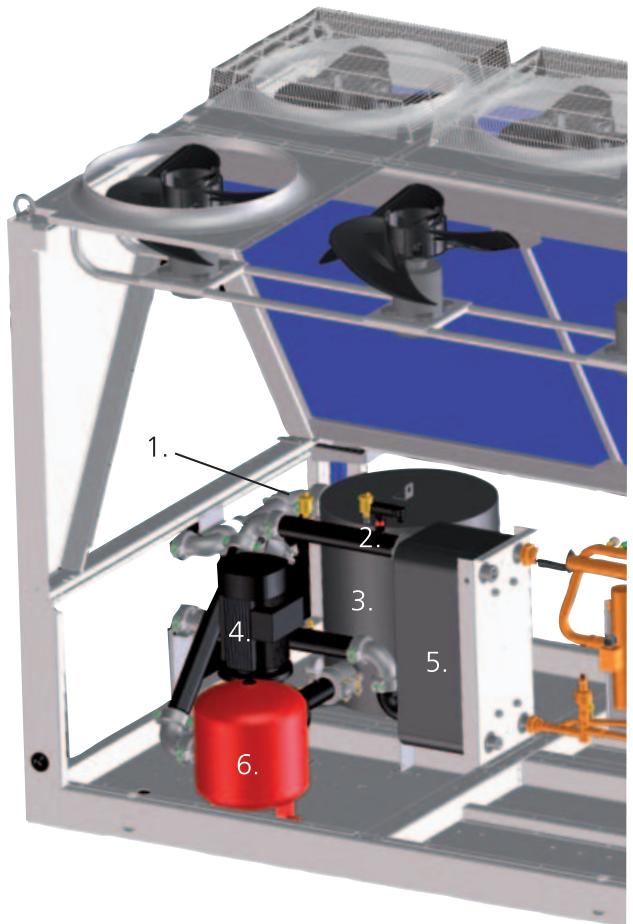
Integration of the optional components enables the chiller to be made operational in the shortest possible time without the need to add pumps, buffer tanks and expansion tanks etc.

Optional hydronics

Various pump options are available comprising different modular concepts providing flexibility in customer choice.

- > **Single pump** (OPSP) – available ESP at nominal flow rate of 120kPa, shut-off valves on the water side and water manometer. A 35 or 50 litre expansion tank is also included.
- > **High ESP pump** (OPHP) – available ESP at nominal flow rate of 200kPa.
- > **Twin pump** (OPTP) – twin pump motors with a single housing.
- > **Built-in buffer tank** (OPBT) – includes a 200 litre buffer tank and is based on the OPSP or higher specification. The choice of this option substantially reduces chiller installation time.
- > **Regulating valve** – included with pump options to enable the control of the water flow rate in the system.
- > **Low temperature options**
 - Low LWE down to -10°C (OPZL)
 - Evaporator heater tape for low ambient climates (OP10)

- | | |
|----------------|---------------------------------|
| 1. Air vent | 4. Pump |
| 2. Flow Switch | 5. Braised plate heat exchanger |
| 3. Buffer tank | 6. Expansion vessel |



Low operational sound level

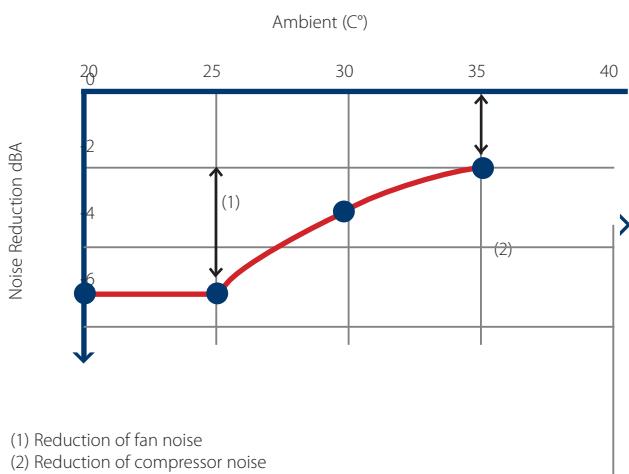
Sound suppression is given high priority by Daikin.

For those particularly sound sensitive applications where the standard average sound level of 89 dBA does not offer the desired sound level, OPLN (option low noise) further reduces the operational sound level by 5 dBA. Particular attention has been given to any component that can generate sound or vibration.

Option low noise consists of compressor jackets, insulated cabinet and inverter fans.

Inverter fans offer a linear sound reduction in function of the ambient.

Inverter fans (OPIF):



(1) Reduction of fan noise

(2) Reduction of compressor noise

In addition, the inverter fans offer stable condensing pressure at low ambient temperatures, allowing more efficient partload operation of the unit.

Easy installation and maintenance

All hydronics can be accessed simply from three sides, while the separate switchbox is also easily accessible from the side of the unit, facilitating the maintenance of the chiller.

The compactness of the unit allows it to be easily transported and manoeuvred into its final position. Due to the integrated hydronic components, the chiller can be easily connected to the system.

High corrosion resistance

The robust all-weather chassis can stand up to demanding urban and industrial environments. The high-quality Daikin plate work consists of a galvanized steel plate with a zinc phosphate coating, and is epoxy powder painted. Condensers are standard PE treated, increasing resistance to acid rain and saline corrosion.

R-410A refrigerant

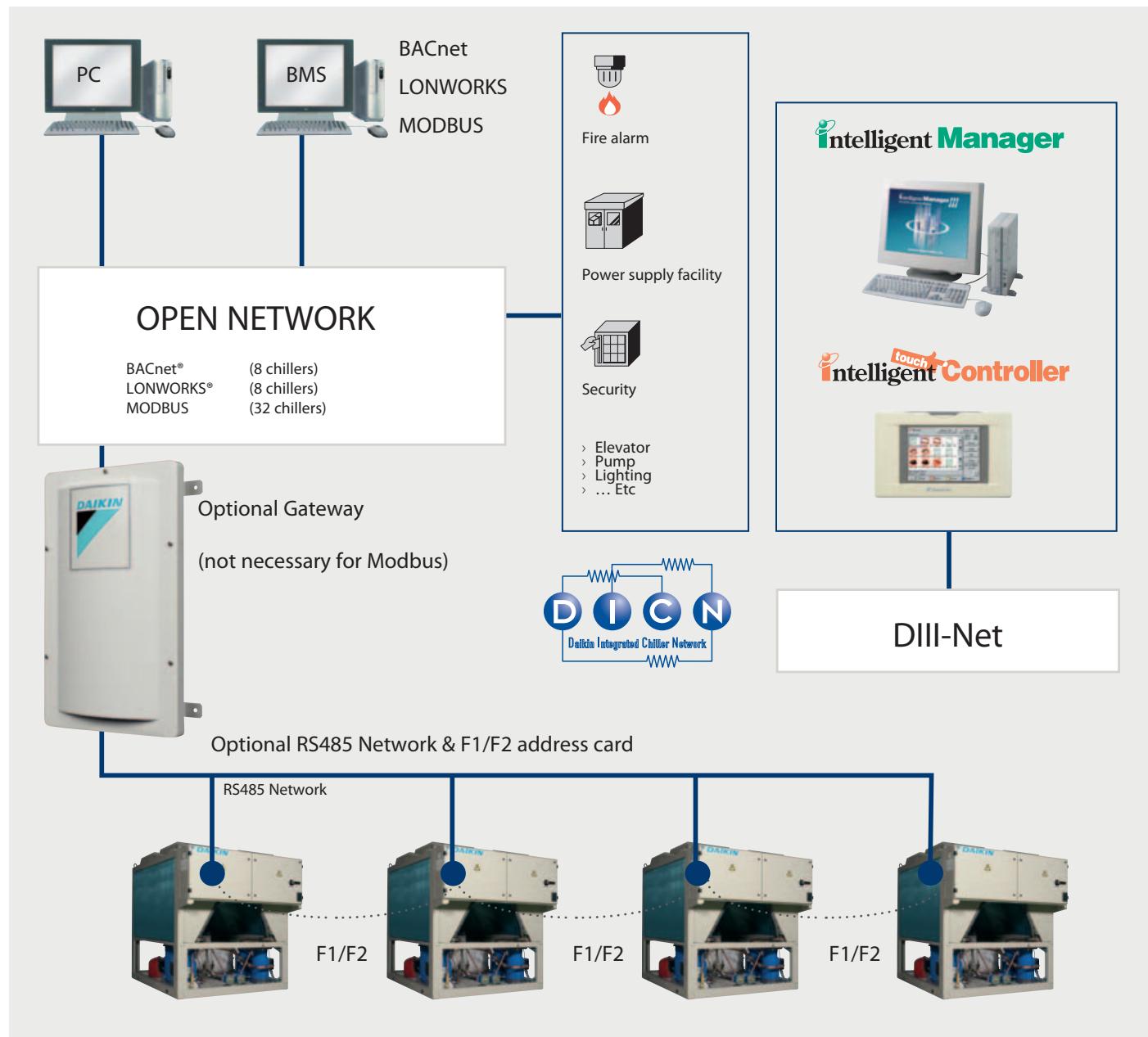
R-410A was the logical choice for the Daikin multiple scroll chiller because today it is one of the most promising refrigerants in terms of efficiency, stability and environmental impact.

R-410A offers a small swept volume, a good heat exchange capacity and leads to reduced component sizes of items such as heat exchangers and tubing. - Evaporator heater tape for low ambient climates (OP10)





Electronic Control





Integration in building management systems

The PCASO control platform can be integrated into various Building Management Systems. An RS485 supervisory network, more commonly known as MODBUS, can control up to 32 chillers. By using an optional gateway for either BACnet or LONWORKS, a maximum of 8 chillers per gateway can be controlled.

Protocols are:

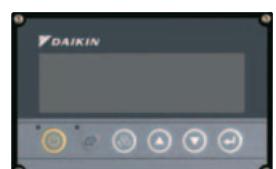
- BACnet
- LONWORKS
- MODBUS

Communication with other Daikin units (DIII-Net)

For easy integration with Daikin DX products, the chillers can communicate via the F1/F2 terminals on DIII-net. In addition communication to Daikin D-BACS devices such as Intelligent Manager and I-Touch controller is possible.

New control platform

The Multiple Scroll Chiller incorporates the latest Daikin controller (PCAS0) with a new powerful LCD interface, offering accurate control of all functional parameters in an extremely user-friendly way.



Daikin integrated chiller network (DICN)

The Daikin in-house developed hardware and software offers the possibility of DICN functionality, allowing simultaneous operation of up to 4 chillers. By using the optional address card EKACPG (one per integrated chiller), the DICN enables you to operate a 1.1 megaWatt chiller from a single controller.



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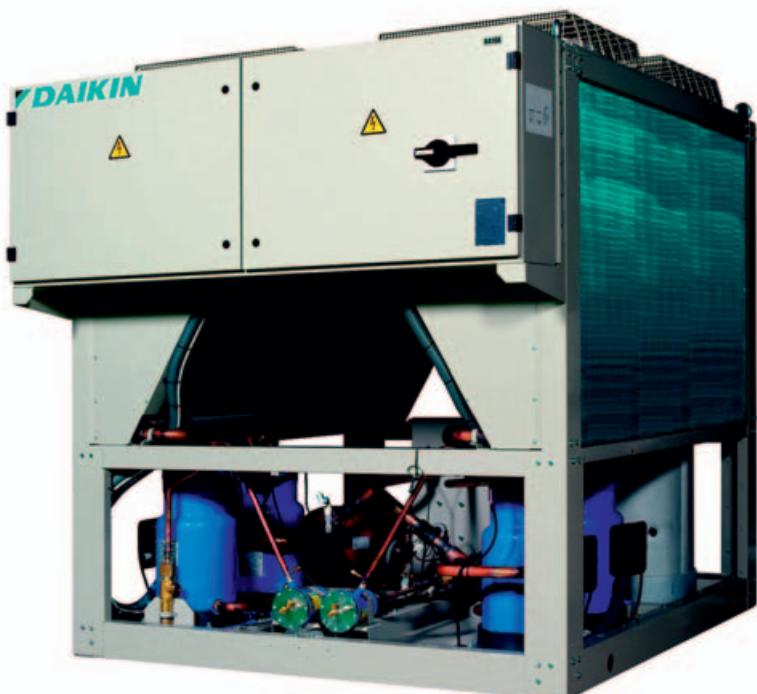
EWAQ-DAYN

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1 Features

- Wide capacity range: 80 to 260kW with 8 cooling only models
- Optimised for use with R-410A
- Multiple refrigerant circuits and multiple compressors per circuit
- Reliable and efficient scroll with high EER values
- Anti-corrosion treated aluminium coils
- Low operating sound level
- Easy 'plug and play' installation
- Unit dimensions allow easy transportation
- Fans protected against abnormal operation (4 to 8 fans depending on unit size)
- Safety valves in each circuit
- Electronic circuit breakers
- Electronic expansion valve
- True dual plate brazed plate heat exchanger
- Sight glass
- All hydronics can be accessed easily from 3 sides (no surrounding cabinet)
- Separate switchbox for easy access
- Compressors and controls at unit side
- Increased reliability via 2 independent refrigerant circuits
- Double circuit heat exchanger (from 100kW onwards)
- Non hermetic filter/dryer
- Daikin Pcaso controller with user friendly and powerful LCD interface

1
1



2 Specifications

1
2

| 2-1 Technical Specifications | | | | EWAQ080DAYN | EWAQ100DAYN | EWAQ130DAYN | EWAQ150DAYN | EWAQ180DAYN | EWAQ210DAYN | EWAQ240DAYN | EWAQ260DAYN | | | | |
|------------------------------|------------------------------------|-----------------------|----------------|--|----------------------------|----------------|-------------|------------------------------|--------------------|------------------------------|--------------------|--|--|--|--|
| Cooling capacity | Nom. | | kW | 80 (1) | 105 (1) | 131 (1) | 152 (1) | 182 (1) | 209 (1) | 236 (1) | 254 (1) | | | | |
| Capacity steps | | | % | 0-50-100 | | 0-25-50-75-100 | | 21/29-43/50/ 57-71/79-100 | 0-25-50- 75-100 | 22/28-40/50/ 56-72/78-100 | 0-25-50- 75-100 | | | | |
| Power input | Cooling | Nom. | kW | 26.4 (2) | 36.2 (2) | 46.6 (2) | 56.3 (2) | 64.5 (2) | 74.6 (2) | 82.8 (2) | 94.0 (2) | | | | |
| EER | | | | 3.03 | 2.90 | 2.81 | 2.70 | 2.82 | 2.80 | 2.85 | 2.70 | | | | |
| ESEER | | | | 4.12 | 4.00 | 4.34 | 4.22 | 4.36 | 4.32 | 4.20 | 4.00 | | | | |
| Casing | Material | | | Polyester painted galvanised steel plate | | | | | | | | | | | |
| Dimensions | Unit | Height | | mm | | | | | | | | | | | |
| | | Width | | mm | | | | | | | | | | | |
| | | Depth | | mm | | 2,566 | 2,631 | 3,081 | 4,850 | | | | | | |
| Weight | Unit | | kg | 1,350 | 1,400 | 1,500 | 1,550 | 1,800 | 1,850 | 3,150 | 3,250 | | | | |
| | Operation weight | | kg | 1,365 | 1,415 | 1,517 | 1,569 | 1,825 | 1,877 | 3,189 | 3,292 | | | | |
| | Packed unit | | kg | 1,400 | 1,450 | 1,550 | 1,600 | 1,850 | 1,900 | 3,200 | 3,300 | | | | |
| Water heat exchanger | Type | | | Brazed plate | | | | | | | | | | | |
| | Filter | Type | | Strainer galvanized | | | | | | | | | | | |
| | | Diameter perforations | | mm | | | | | | | | | | | |
| | Minimum water volume in the system | | | l | 358 (3) | 470 (3) | 295 (3) | 341 (3) | 408 (3) | 468 (3) | 529 (3) | | | | |
| | Water flow rate | Min. | | l/min | 115 | 151 | 188 | 218 | 261 | 300 | 339 | | | | |
| | | Max. | | l/min | 459 | 602 | 754 | 871 | 1,043 | 1,198 | 1,355 | | | | |
| | Nominal water flow | Cooling | | l/min | 229 | 301 | 377 | 436 | 522 | 599 | 677 | | | | |
| | Nominal water pressure drop | Cooling | Total | kPa | 59 | 58 | 52 | 49 | 52 | 53 | 51 | | | | |
| | Insulation material | | | | Foamed synthetic elastomer | | | | | | | | | | |
| Air heat exchanger | Model | Type | | PT120 | | DV47 | | DV58 | | | | | | | |
| | | Quantity | | 1 | | | | | | | | | | | |
| | Type | | | Cross fin coil/Hi-Xss tubes and poly ethylene coated waffle fins | | | | | | | | | | | |
| | Rows | Quantity | | 2 | | 3 | | | | | | | | | |
| | Stages | Quantity | | 56 | | 48 | 56 | 48 | | | | | | | |
| | Fin pitch | | mm | 1.8 | | | | | | | | | | | |
| | Face area | | m ² | 2.46 | | 2.11 | 2.46 | 3.02 | | 2.11 | | | | | |
| | Coils | Quantity | | 4 | | | | | | | | | | | |
| | Hydraulic components | | | 8 | | | | | | | | | | | |
| Hydraulic components | Unit water volume | | | l | 15 | 17 | 19 | 25 | 27 | 39 | 42 | | | | |
| | Nominal water pressure drop unit | Cooling | kPa | 66 | 67 | 64 | 63 | 72 | 79 | 83 | 85 | | | | |
| | Fan | Quantity | | | 4 | | | | 6 | 8 | | | | | |
| | | Air flow rate | Nom. | m ³ /min | 780 | 800 | 860 | 1,290 | | 1,600 | | | | | |
| | | Discharge direction | | | Vertical | | | | | | | | | | |
| | Speed | | rpm | 880 | | 900 | 970 | | 900 | | | | | | |
| | Fan motor | Output | | W | 500 | 600 | 700 | | 600 | | | | | | |
| | | Quantity | | | 4 | | 6 | | 8 | | | | | | |
| | | Drive | | | Direct drive | | | | | | | | | | |
| Sound power level | Cooling | Nom. | dBA | 86 | | 88 | 89 | 90 | | 91 | | | | | |
| Compressor | Type | | | Scroll compressor | | | | | | | | | | | |
| | Quantity | | | 2 | | 4 | | 2 | 4 | 2 | 4 | | | | |
| | Model | | | SJ180 | SJ240 | SJ161 | SJ180 | | SJ240 | | SJ300 | | | | |
| | Speed | | rpm | 2,900 | | | | | | | | | | | |
| | Oil | Charged volume | | l | 6.7 | | 3.3 | 6.7 | | | | | | | |
| Compressor 2 | Quantity | | | - | | | | 2 | - | 2 | - | | | | |
| | Model | | | - | | | | SJ240 | - | SJ300 | - | | | | |
| | Speed | | rpm | - | | | | 2,900 | - | 2,900 | - | | | | |
| | Oil | Charged volume | | l | - | | | | 6.7 | - | 6.7 | | | | |
| Operation range | Water side | Cooling | Min. | °CDB | | | | | | | | | | | |
| | | | Max. | °CDB | | | | | | | | | | | |
| | Air side | Cooling | Min. | °CDB | | | | | | | | | | | |
| | | | Max. | °CDB | | | | | | | | | | | |

2 Specifications

| 2-1 Technical Specifications | | | EWAQ080DAYN | EWAQ100DAYN | EWAQ130DAYN | EWAQ150DAYN | EWAQ180DAYN | EWAQ210DAYN | EWAQ240DAYN | EWAQ260DAYN | | | | | |
|------------------------------|-------------------------------------|----------------------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|--|--|
| Refrigerant | Type | R-410A | | | | | | | | | | | | | |
| | Charge kg | 33 | 19 | 25 | 29 | 28 | 39 | | | | | | | | |
| | Control | Electronic expansion valve | | | | | | | | | | | | | |
| | Circuits Quantity | 1 | 2 | | | | | | | | | | | | |
| Refrigerant oil | Type | FVC68D | | | | | | | | | | | | | |
| Piping connections | Water heat exchanger inlet / outlet | 3" OD | | | | | 3" | | | | | | | | |
| | Water heat exchanger drain | 1/2"G | | | | | | | | | | | | | |
| Safety devices | Item | 01 | High pressure switch | | | | | | | | | | | | |
| | | 02 | Pressure relief valve | | | | | | | | | | | | |
| | | 03 | Low pressure safety | | | | | | | | | | | | |
| | | 04 | Freeze up protection | | | | | | | | | | | | |
| | | 05 | Flowswitch | | | | | | | | | | | | |
| | | 06 | Discharge temperature protector | | | | | | | | | | | | |
| | | 07 | Reverse phase protector | | | | | | | | | | | | |
| | | 08 | Electronic protection module compressors (only for SJ180, SJ240) | | | | | | | | | | | | |
| | | 09 | Overcurrent relays for compressors and fans | | | | | | | | | | | | |

| 2-2 Electrical Specifications | | | EWAQ080DAYN | EWAQ100DAYN | EWAQ130DAYN | EWAQ150DAYN | EWAQ180DAYN | EWAQ210DAYN | EWAQ240DAYN | EWAQ260DAYN | | |
|-------------------------------|---|----------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----|--|
| Compressor | Starting current | A | 195 | 215 | 158 | 195 | 215 | 215 | 215 | 260 | | |
| | Nominal running current (RLA) | A | 25 | 31 | 19 | 25 | 31 | 31 | 31 | 40 | | |
| | Maximum running current | A | 39 | 51 | 35 | 39 | 51 | 51 | 51 | 65 | | |
| | Starting method | Direct on line | | | | | | | | | | |
| | Crankcase heater | W | 75 | 65 | 75 | 75 | 75 | 75 | 75 | 75 | | |
| Compressor 2 | Starting current | A | - | - | 215 | - | 260 | - | - | - | | |
| | Nominal running current (RLA) | A | - | - | 31 | - | 40 | - | - | - | | |
| | Maximum running current | A | - | - | 51 | - | 65 | - | - | - | | |
| | Starting method | Direct on line | | | | | | | | | | |
| | Crankcase heater | W | - | - | 75 | - | 75 | - | - | - | | |
| Power supply | Phase | 3~ | | | | | | | | | | |
| | Frequency | Hz | 50 | | | | | | | | | |
| | Voltage | V | 400 | | | | | | | | | |
| | Voltage range | Min. | % | -10 | | | | | | | | |
| | | Max. | % | 10 | | | | | | | | |
| Unit | Starting current | A | 201 | 221 | 161 | 199 | 221 | 221 | 266 | 266 | | |
| | Maximum starting current | A | 240 | 272 | 269 | 320 | 357 | 368 | 426 | 468 | | |
| | Current Zmax | List | No requirements | | | | | | | | | |
| | Nominal running current (RLA) | Cooling | A | 60 | 72 | 88 | 113 | 131 | 144 | 162 | 181 | |
| | Maximum running current | A | 96 | 120 | 160 | 177 | 209 | 233 | 262 | 290 | | |
| | Recommended fuses according to IEC standard 269-2 | 3 x 125gL | 3 x 160gL | 3 x 200gL | 3 x 250gL | 3 x 300gL | 3 x 355gL | | | | | |
| Fans | Starting method | Direct on line | | | | | | | | | | |
| | Maximum running current | A | 1.5 | 1.4 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | | |
| Control circuit | Phase | 1~ | | | | | | | | | | |
| | Frequency | Hz | 50 | | | | | | | | | |
| | Voltage | V | 230 (6) | | | | | | | | | |

Notes

- (1) Cooling: entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; ambient air temp. 35°C; standard: Eurovent
- (2) Cooling: entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; ambient air temp. 35°C; standard: Eurovent; Power input compressors + fans + electrical circuit
- (3) Minimum required water volume for standard thermostat settings and at nominal conditions.
- (4) Initial starting current = maximum running current 4 fans + starting current 1 compressor
- (5) Maximum starting current = maximum running current 4 fans + maximum running current 1 compressor + starting current 1 compressor
- (6) Supplied by factory installed transformers
- (7) See separate drawing for operation range
- (8) Maximum starting current = maximum running current 4 fans + maximum running current 3 compressors + starting current 1 compressor
- (9) Initial starting current = maximum running current 3 fans (1 circuit) + starting current 1 compressor
- (10) Maximum starting current = maximum running current 6 fans + maximum running current 3 compressors + starting current 1 compressor
- (11) Maximum starting current = maximum running current 8 fans + maximum running current 3 compressors + starting current 1 compressor

3 Options

3 - 1 Options

EWAQ080-100DAYN

| TECHNICAL SPECIFICATIONS OPTIONS | | | | | |
|----------------------------------|---------------------------------|-------------|----------------------------|-------------|----------|
| OPSP | | EWAQ080DAYN | | EWAQ100DAYN | |
| Weight | Additional machine weight | kg | 250 | | |
| | Additional operation weight | kg | 283 | | |
| | Additional gross weight | kg | 250 | | |
| Pump | Type | | Single stage in line pumps | | |
| | Quantity | | 1 | | |
| | Manufacturer | | Grundfos | | |
| | Model | | TP50-240/2 | | |
| | Efficiency | | 85.9% | | |
| | Efficiency level | | IE3 | | |
| | Rated speed | rpm | 2890-2910 | | |
| Hydraulic components | Nominal static height unit | kPa | 142 | 133 | |
| | Buffertank | l | - | | |
| | Additional unit water volume | l | 33 | | |
| | Expansion vessel | l | 35 | | |
| | Pre-charge pressure exp. vessel | bar | 1.5 | | |
| OPHP | Safety valve | bar | 3 | | |
| | Type | | Single stage in line pumps | | |
| | Quantity | | 1 | | |
| | Manufacturer | | Grundfos | | |
| | Model | | TP50-430/2 | | |
| | Efficiency | | 89.2% | | |
| | Efficiency level | | IE3 | | |
| OPTP | Rated speed | rpm | 2920-2940 | | |
| | Nominal static height unit | kPa | 337 | 322 | |
| | | | | | See OPSP |

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3

3TW57571-1E

EWAQ080-100DAYN

| ELECTRICAL SPECIFICATIONS OPTIONS | | | | | |
|-----------------------------------|---------------|--------------------------------------|----|----------------|--|
| OPSP / OPTP | | EWAQ080DAYN | | EWAQ100DAYN | |
| Units | Std pump | Starting method | | Direct on-line | |
| | | Rated power output | kW | 2.2 | |
| | | Maximum running current | A | 4.5 | |
| | | Starting current | A | 42 | |
| OPHP | | EWAQ080DAYN | | EWAQ100DAYN | |
| Units | High ESP pump | Starting method | | Direct on-line | |
| | | Rated power output | kW | 5.5 | |
| | | Maximum running current | A | 11.2 | |
| | | Starting current | A | 131 | |
| OP10 | | EWAQ080DAYN | | EWAQ100DAYN | |
| Units | Heater tape | Supply voltage | V | 230+/-10% | |
| | | Recommended fuses | A | 2x10 | |
| | | Power standard model | W | 1x300 | |
| | | Power model with pump | W | 2x300 | |
| | | Power model with pump and buffertank | W | 2x300 + 1x150 | |

3TW57571-1E

3 Options

3 - 1 Options

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3

EWAQ130-150DAYN

| TECHNICAL SPECIFICATIONS OPTIONS | | | | | |
|----------------------------------|---------------------------------|-------------|----------------------------|-------------|--|
| OPSP | | EWAQ130DAYN | | EWAQ150DAYN | |
| Units | | | | | |
| Weight | Additional machine weight | kg | 250 | | |
| | Additional operation weight | kg | 286 | | |
| | Additional gross weight | kg | 250 | | |
| Pump | Type | | Single stage in line pumps | | |
| | Quantity | | 1 | | |
| | Manufacturer | | Grundfos | | |
| | Model | | TP65-230/2 | | |
| | Efficiency | | 87.1% | | |
| | Efficiency level | | IE3 | | |
| | Rated speed | rpm | 2900-2920 | | |
| | Nominal static height unit | kPa | 134 | 126 | |
| Hydraulic components | Buffertank | l | - | | |
| | Additional unit water volume | l | 36 | | |
| | Expansion vessel | l | 35 | | |
| | Pre-charge pressure exp. vessel | bar | 1.5 | | |
| | Safety valve | bar | 3 | | |
| OPHP | | | | | |
| Units | | EWAQ130DAYN | | EWAQ150DAYN | |
| Pump | Type | | Single stage in line pumps | | |
| | Quantity | | 1 | | |
| | Manufacturer | | Grundfos | | |
| | Model | | TP65-340/2 | | |
| | Efficiency | | 89.2% | | |
| | Efficiency level | | IE3 | | |
| | Rated speed | rpm | 2920-2940 | | |
| | Nominal static height unit | kPa | 253 | 248 | |
| OPTP | | | | | |
| EWAQ130DAYN | | EWAQ150DAYN | | | |
| | | | Single stage in line pumps | | |
| | | | 1 | | |
| | | | Grundfos | | |
| | | | TPD65-230/2 | | |
| | | | 87.1% | | |
| | | | IE3 | | |
| | | | 2900-2920 | | |
| | | | See OPSP | | |

3TW57591-1D

EWAQ130-150DAYN

| ELECTRICAL SPECIFICATIONS OPTIONS | | | | | |
|-----------------------------------|--------------------------------------|-------------|----------------|-------------|--|
| OPSP / OPTP | | EWAQ130DAYN | | EWAQ150DAYN | |
| Units | | | | | |
| Std pump | Starting method | | Direct on-line | | |
| | Rated power output | kW | 3 | | |
| | Maximum running current | A | 6.3 | | |
| | Starting current | A | 58 | | |
| OPHP | | | | | |
| Units | | EWAQ130DAYN | | EWAQ150DAYN | |
| High ESP pump | Starting method | | Direct on-line | | |
| | Rated power output | kW | 5.5 | | |
| | Maximum running current | A | 11.2 | | |
| | Starting current | A | 131 | | |
| OP10 | | | | | |
| Units | | EWAQ130DAYN | | EWAQ150DAYN | |
| Heater tape | Supply voltage | V | 230+/-10% | | |
| | Recommended fuses | A | 2x10 | | |
| | Power standard model | W | 1x300 | | |
| | Power model with pump | W | 2x300 | | |
| | Power model with pump and buffertank | W | 2x300 + 1x150 | | |

3TW57591-1D

3 Options

3 - 1 Options

EWAQ180-210DAYN

| TECHNICAL SPECIFICATIONS OPTIONS | | | | | |
|----------------------------------|---------------------------------|----------------------------|-----------|-------------|--|
| OPSP | | EWAQ180DAYN | | EWAQ210DAYN | |
| Weight | Additional machine weight | kg | 250 | | |
| | Additional operation weight | kg | 286 | | |
| | Additional gross weight | kg | 250 | | |
| Pump | Type | Single stage in line pumps | | | |
| | Quantity | 1 | | | |
| | Manufacturer | Grundfos | | | |
| | Model | TP65-260/2 | | | |
| | Efficiency | 88.1% | | | |
| | Efficiency level | IE3 | | | |
| | Rated speed | rpm | 2920-2940 | | |
| Hydraulic components | Nominal static height unit | kPa | 142 | 120 | |
| | Buffertank | l | - | | |
| | Additional unit water volume | l | 36 | | |
| | Expansion vessel | l | 35 | | |
| | Pre-charge pressure exp. vessel | bar | 1.5 | | |
| OPHP | Safety valve | bar | 3 | | |
| | Type | Single stage in line pumps | | | |
| | Quantity | 1 | | | |
| | Manufacturer | Grundfos | | | |
| | Model | TP65-410/2 | | | |
| | Efficiency | 90.4% | | | |
| | Efficiency level | IE3 | | | |
| OPTP | Rated speed | rpm | 2910-2920 | | |
| | Nominal static height unit | kPa | 296 | 278 | |
| | See OPSP | | | | |
| | Single stage in line pumps | | | | |
| | 1 | | | | |

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3TW57611-1D

EWAQ180-210DAYN

| ELECTRICAL SPECIFICATIONS OPTIONS | | | | | |
|-----------------------------------|--------------------------------------|----------------|---------------|-------------|--|
| OPSP / OPTP | | EWAQ180DAYN | | EWAQ210DAYN | |
| Std pump | Starting method | Direct on-line | | | |
| | Rated power output | kW | 4 | | |
| | Maximum running current | A | 8 | | |
| | Starting current | A | 98 | | |
| OPHP | Starting method | Direct on-line | | | |
| | Rated power output | kW | 7.5 | | |
| | Maximum running current | A | 15.2 | | |
| | Starting current | A | 169 | | |
| OP10 | Supply voltage | V | 230+/-10% | | |
| | Recommended fuses | A | 2x10 | | |
| | Power standard model | W | 1x300 | | |
| | Power model with pump | W | 2x300 | | |
| | Power model with pump and buffertank | W | 2x300 + 1x150 | | |

3TW57611-1D

3 Options

3 - 1 Options

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EWAQ240-260DAYN

| TECHNICAL SPECIFICATIONS OPTIONS | | | | | |
|----------------------------------|---------------------------------|-------------|----------------------------|----------------------------|-------------|
| OPSP | | EWAQ240DAYN | | EWAQ260DAYN | |
| Units | | | | | |
| Weight | Additional machine weight | kg | 250 | OPSP + OPBT | EWAQ240DAYN |
| | Additional operation weight | kg | 271 | | 300 |
| | Additional gross weight | kg | 250 | | 511 |
| Pump | Type | | Single stage in line pumps | Single stage in line pumps | |
| | Quantity | | 1 | 1 | |
| | Manufacturer | | Grundfos | Grundfos | |
| | Model | | TP65-260/2 | TP65-260/2 | |
| | Efficiency | | 88.1% | 88.1% | |
| | Efficiency level | | IE3 | IE3 | |
| | Rated speed | rpm | 2920-2940 | 2920-2940 | |
| | Nominal static height unit | kPa | 126 | 126 | |
| | | | | 117 | |
| Hydraulic components | Buffertank | l | - | 190 | |
| | Additional unit water volume | l | 21 | 211 | |
| | Expansion vessel | l | 50 | 50 | |
| | Pre-charge pressure exp. vessel | bar | 1.5 | 1.5 | |
| | Safety valve | bar | 3 | 3 | |
| OPHP | | | | | |
| Units | | EWAQ240DAYN | | EWAQ260DAYN | |
| Pump | Type | | Single stage in line pumps | Single stage in line pumps | |
| | Quantity | | 1 | 1 | |
| | Manufacturer | | Grundfos | Grundfos | |
| | Model | | TP65-410/2 | TPD65-260/2 | |
| | Efficiency | | 90.4% | 88.1% | |
| | Efficiency level | | IE3 | IE3 | |
| | Rated speed | rpm | 2910-2920 | 2920-2940 | |
| | Nominal static height unit | kPa | 288 | 280 | |
| | | | | See OPSP | |
| OPTP | | | | | |
| EWAQ240DAYN | | EWAQ260DAYN | | | |

3TW57631-1C

EWAQ240-260DAYN

| ELECTRICAL SPECIFICATIONS OPTIONS | | | | | |
|-----------------------------------|--------------------------------------|-------------|---------------|----------------|--|
| OPSP / OPTP | | EWAQ240DAYN | | EWAQ260DAYN | |
| Units | | | | | |
| Std pump | Starting method | | | Direct on-line | |
| | Rated power output | kW | 4 | 4 | |
| | Maximum running current | A | 8 | 8 | |
| | Starting current | A | 98 | 98 | |
| OPHP | | | | | |
| Units | | EWAQ240DAYN | | EWAQ260DAYN | |
| High ESP pump | Starting method | | | Direct on-line | |
| | Rated power output | kW | 7.5 | 7.5 | |
| | Maximum running current | A | 15.2 | 15.2 | |
| | Starting current | A | 169 | 169 | |
| OP10 | | | | | |
| Units | | EWAQ240DAYN | | EWAQ260DAYN | |
| Heater tape | Supply voltage | V | 230+/-10% | 230+/-10% | |
| | Recommended fuses | A | 2x10 | 2x10 | |
| | Power standard model | W | 1x300 | 1x300 | |
| | Power model with pump | W | 2x300 | 2x300 | |
| | Power model with pump and buffertank | W | 2x300 + 1x150 | 2x300 + 1x150 | |

3TW57631-1C

3 Options

3 - 1 Options

| Optional equipment for EWAQ-DAYN | | | | | | | | | |
|----------------------------------|---|-----------|--------|--------|--------|--------|--------|--------|-----------------|
| Option number | Option description | Unit size | | | | | | | Availability |
| | | 080 | 100 | 130 | 150 | 180 | 210 | 240 | |
| | Standard unit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| OPSC | Single pump contactor | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OPTC | Twin pump contactor | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OPSP | Single pump | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OPTP | Twin pump (1 pump house, dual motor) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OPHP | High ESP pump (single pump only) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OPBT | Buffer tank | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OPIF | Inverter fans for low ambient (-15 °C) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OPZL | Glycol 0°C/-10°C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OP03 | Dual pressure relief valve | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OP10 | Evaporator heater tape | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OP12 | option valves (discharge-, liquid line- and suction stop valve) | 0 (\$) | 0 (\$) | 0 (\$) | 0 (\$) | 0 (\$) | 0 (\$) | 0 (\$) | Factory mounted |
| OP57 | A-meter, V-meter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OPLN | Low noise = OPIF + compressorhousing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OPCG | Condenser protection grilles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| Available kits | | | | | | | | | |
| EKLONPG | Gateway for LON* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Kit |
| EKBNPG | Gateway for BACNET* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Kit |
| EKACPG | Address card including | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Kit |
| | Daikin Integrated Chiller Network (DIN) | | | | | | | | |
| | Serial Communication (Modbus) | | | | | | | | |
| EKRUPG | Remote user interface | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Kit |
| EKNGN210 | Waterpipe kit | 0 | 0 | 0 | 0 | 0 | - | - | Kit |
| EKNGN260 | Waterpipe kit | - | - | - | - | - | - | 0 | Kit |

Notes

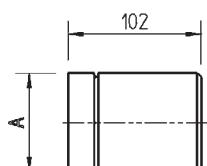
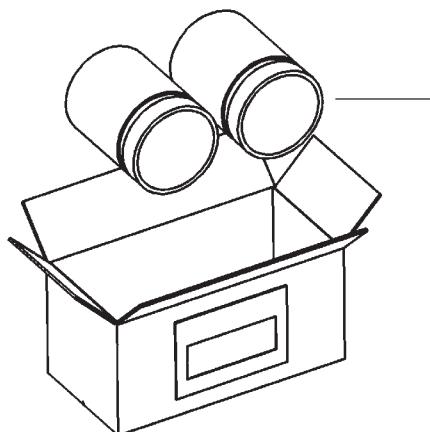
- Available
- Not available
- (S) option required for Swedish national law SNFS1992:16

* To install EKLONPG & EKBNPG => EKACPG needs to be installed on the unit.
For the EKLONPG & EKBNPG design guide, please contact your local dealer.

3 Options

3 - 1 Options

Content : 2 countpipes for welding onto fieldpiping



| Weight | |
|---------|--------|
| EKGN210 | 2.0 kg |
| EKGN260 | 2.5 kg |

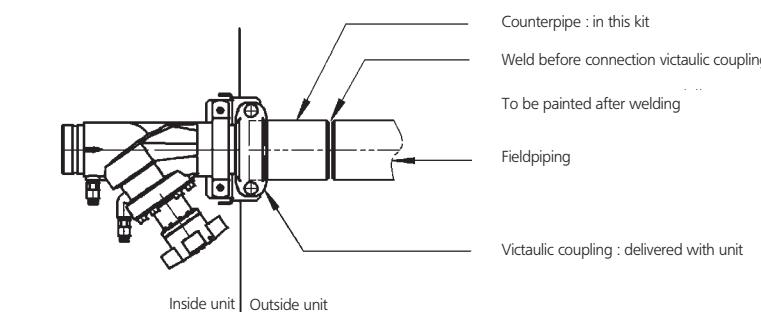
Box : 200 x 100 x 100

* Material : Blank steel
* Ps = 10 bar

| | Ø | A |
|---------|----------|----------|
| EKGN210 | 3" OD | 76.1 |
| EKGN260 | 3" | 88.9 |

| | |
|----------------|-------|
| EWA/YQ080DAYN* | 3" OD |
| EWA/YQ100DAYN* | |
| EWA/YQ130DAYN* | |
| EWA/YQ150DAYN* | |
| EWA/YQ180DAYN* | |
| EWA/YQ210DAYN* | |
| EWAQ240DAYN* | 3" OD |
| EWAQ260DAYN* | |
| EWYQ230DAYN* | |
| EWYQ250DAYN* | |

Mounting instructions :



4TW58009-1

4 Capacity tables

4 - 1 Cooling Capacity Tables

EWAQ-DAYN

| STANDARD | | | | | | | | | | | | | |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| Tamb (°C) | | 20 | | 25 | | 30 | | 35 | | 40 | | 43 | |
| LWE | Size | CC | PI |
| 4 | 080 | 83.6 | 20.3 | 79.9 | 22.0 | 76.2 | 23.9 | 72.2 | 26.1 | 67.9 | 28.5 | 65.2 | 30.2 |
| | 100 | 110 | 27.0 | 105 | 29.5 | 100 | 32.3 | 94.9 | 35.5 | 89.0 | 39.0 | 85.2 | 41.4 |
| | 130 | 138 | 34.8 | 132 | 38.0 | 126 | 41.5 | 119 | 45.5 | 111 | 49.9 | 106 | 52.9 |
| | 150 | 164 | 42.2 | 156 | 46.1 | 147 | 50.5 | 138 | 55.4 | 128 | 60.9 | 122 | 64.5 |
| | 180 | 191 | 48.5 | 183 | 52.9 | 174 | 57.9 | 164 | 63.4 | 154 | 69.7 | 148 | 73.8 |
| | 210 | 225 | 56.8 | 214 | 61.4 | 203 | 66.6 | 191 | 73.1 | 178 | 80.4 | 169 | 85.2 |
| | 240 | 252 | 62.4 | 240 | 68.0 | 228 | 74.3 | 215 | 81.3 | 201 | 89.1 | 191 | 94.3 |
| 7 | 260 | 267 | 71.3 | 256 | 77.6 | 244 | 84.6 | 230 | 92.3 | 215 | 101 | 206 | 107 |
| | 080 | 92.3 | 20.6 | 88.4 | 22.3 | 84.4 | 24.3 | 80.0 | 26.4 | 75.3 | 28.9 | 72.3 | 30.5 |
| | 100 | 122 | 27.7 | 117 | 30.2 | 111 | 33.0 | 105 | 36.2 | 98.4 | 39.7 | 94.2 | 42.1 |
| | 130 | 153 | 35.8 | 146 | 39.1 | 139 | 42.6 | 131 | 46.6 | 123 | 51.0 | 117 | 54.0 |
| | 150 | 180 | 43.2 | 171 | 47.1 | 162 | 51.5 | 152 | 56.3 | 141 | 62.0 | 134 | 65.6 |
| | 180 | 211 | 49.5 | 202 | 54.0 | 192 | 58.9 | 182 | 64.5 | 171 | 70.8 | 163 | 74.9 |
| | 210 | 246 | 58.2 | 234 | 62.8 | 222 | 68.0 | 209 | 74.6 | 195 | 81.9 | 186 | 86.7 |
| 10 | 240 | 276 | 63.7 | 264 | 69.4 | 251 | 75.7 | 236 | 82.8 | 220 | 90.7 | 210 | 95.9 |
| | 260 | 295 | 72.7 | 282 | 79.1 | 269 | 86.2 | 254 | 94.0 | 237 | 103 | 227 | 108 |
| | 080 | 102 | 20.9 | 97.6 | 22.7 | 93.2 | 24.6 | 88.4 | 26.8 | 83.3 | 29.3 | 80.0 | 30.9 |
| | 100 | 134 | 28.5 | 128 | 31.0 | 122 | 33.8 | 116 | 36.9 | 108 | 40.5 | 104 | 42.8 |
| | 130 | 168 | 36.9 | 161 | 40.2 | 153 | 43.8 | 144 | 47.8 | 135 | 52.2 | 129 | 55.2 |
| | 150 | 198 | 44.3 | 188 | 48.3 | 178 | 52.7 | 167 | 57.7 | 155 | 63.3 | 147 | 66.9 |
| | 180 | 233 | 50.7 | 223 | 55.1 | 212 | 60.1 | 201 | 65.7 | 188 | 72.0 | 180 | 76.1 |
| 13 | 210 | 269 | 59.8 | 256 | 64.4 | 243 | 69.6 | 228 | 76.2 | 213 | 83.5 | 203 | 88.3 |
| | 240 | 303 | 65.3 | 289 | 71.0 | 275 | 77.3 | 259 | 84.5 | 241 | 92.4 | 230 | 97.6 |
| | 260 | 325 | 74.3 | 311 | 80.8 | 296 | 87.9 | 279 | 95.9 | 261 | 105 | 249 | 110 |
| | 080 | 112 | 21.3 | 108 | 23.1 | 103 | 25.1 | 97.5 | 27.3 | 91.8 | 29.7 | 88.2 | 31.3 |
| | 100 | 147 | 29.4 | 141 | 31.8 | 134 | 34.6 | 127 | 37.8 | 119 | 41.3 | 114 | 43.6 |
| | 130 | 185 | 38.1 | 177 | 41.5 | 168 | 45.1 | 158 | 49.0 | 148 | 53.5 | 141 | 56.5 |
| | 150 | 216 | 45.4 | 206 | 49.5 | 194 | 54.1 | 182 | 59.1 | 169 | 64.7 | 161 | 68.4 |
| 16 | 180 | 256 | 52.0 | 245 | 56.4 | 233 | 61.4 | 221 | 67.0 | 207 | 73.3 | 198 | 77.5 |
| | 210 | 293 | 61.7 | 279 | 66.2 | 265 | 71.4 | 249 | 77.9 | 232 | 85.3 | 221 | 90.1 |
| | 240 | 331 | 67.0 | 317 | 72.7 | 300 | 79.1 | 283 | 86.3 | 264 | 94.2 | 252 | 99.4 |
| | 260 | 356 | 76.1 | 341 | 82.6 | 325 | 89.8 | 306 | 97.8 | 286 | 107 | 273 | 112 |
| | 080 | 123 | 21.7 | 118 | 23.5 | 113 | 25.5 | 107 | 27.7 | 101 | 30.2 | 96.9 | 31.8 |
| | 100 | 161 | 30.4 | 154 | 32.8 | 147 | 35.5 | 139 | 38.7 | 130 | 42.2 | 125 | 44.5 |
| | 130 | 203 | 39.4 | 193 | 42.7 | 184 | 46.4 | 173 | 50.4 | 161 | 54.9 | 154 | 57.9 |
| 20 | 150 | 235 | 46.7 | 224 | 50.9 | 211 | 55.5 | 198 | 60.6 | 184 | 66.3 | 96 | 32.4 |
| | 180 | 281 | 53.4 | 269 | 57.9 | 256 | 62.9 | 242 | 68.5 | 227 | 74.8 | 217 | 79.0 |
| | 210 | 318 | 63.7 | 304 | 68.2 | 288 | 73.3 | 271 | 79.9 | 252 | 87.2 | 241 | 92.0 |
| | 240 | 362 | 68.9 | 345 | 74.7 | 328 | 81.1 | 309 | 88.3 | 288 | 96.2 | 275 | 101.4 |
| | 260 | 390 | 78.0 | 373 | 84.6 | 355 | 91.9 | 335 | 99.9 | 313 | 109 | 299 | 115 |
| | 080 | 139 | 22.4 | 133 | 24.2 | 127 | 26.2 | 121 | 28.5 | 114 | 30.9 | 59.8 | 15.1 |
| | 100 | 180 | 31.8 | 173 | 34.2 | 164 | 36.9 | 155 | 40.0 | 146 | 43.5 | 76.5 | 21.3 |
| 20 | 130 | 227 | 41.1 | 217 | 44.5 | 206 | 48.3 | 193 | 52.3 | 180 | 56.9 | 94.2 | 27.8 |
| | 150 | 262 | 48.6 | 249 | 52.9 | 235 | 57.7 | 220 | 62.9 | 204 | 68.6 | 106 | 33.5 |
| | 180 | 315 | 55.6 | 302 | 60.1 | 287 | 65.1 | 271 | 70.7 | 254 | 77.1 | 133 | 37.7 |
| | 210 | 354 | 66.7 | 338 | 71.2 | 320 | 76.2 | 301 | 82.8 | 281 | 90.1 | 147 | 44.0 |
| | 240 | 405 | 71.8 | 386 | 77.6 | 366 | 84.0 | 345 | 91.2 | 322 | 99.2 | 168 | 48.5 |
| | 260 | 438 | 80.8 | 419 | 87.5 | 398 | 94.9 | 375 | 103 | 350 | 112 | 183 | 54.7 |

SYMBOLS

- CC : Cooling capacity (kW)
 PI : Power input (kW)
 LWE : Leaving Water Evaporator temperature (°C)
 Tamb : Ambient temperature (°C)

NOTES

1. Cooling capacity (kW)
 Capacity is according to Eurovent rating standard 6/C/003-2006 and valid for chilled water range $Dt = 3 - 8^\circ\text{C}$
2. Power input (kW)
 Power input is total input according to Eurovent rating standard 6/C/003-2006: Compressor + fans + control circuit
3. For units with integrated heat pump
 Values for CC are to be multiplied by 0.99 in order to compensate heat input of the pump
4. Additional ESP can be added to the fans discharge
 The following impact on the performance has to be considered

| ESP | CC | PI |
|------|----|-----|
| (Pa) | % | % |
| 25 | 99 | 101 |
| 50 | 98 | 103 |
| 75 | 96 | 105 |

Where

ESP = External static pressure applied at nominal unit airflow.

4 Capacity tables

4 - 1 Cooling Capacity Tables

1
4

EWAQ-DAYN

| OPZL | | | | | | | | | | | | |
|-----------|------|------|------|------|------|------|------|------|------|------|------|-----------|
| Tamb (°C) | 20 | | 25 | | 30 | | 35 | | 40 | | 43 | |
| LWE | Size | CC | PI | CC |
| -10 | 080 | 52.8 | 19.2 | 49.7 | 21.0 | 46.7 | 23.0 | 43.8 | 25.2 | 40.7 | 27.8 | |
| | 100 | 67.7 | 24.8 | 64.3 | 27.3 | 60.9 | 30.0 | 57.3 | 33.0 | 53.6 | 36.4 | |
| | 130 | 88.1 | 31.0 | 83.8 | 34.1 | 79.4 | 37.6 | 74.6 | 41.6 | 69.5 | 46.1 | |
| | 150 | 100 | 38.7 | 93.6 | 42.6 | 87.7 | 46.9 | 81.8 | 51.8 | 75.6 | 57.4 | |
| | 180 | 117 | 45.2 | 111 | 49.6 | 105 | 54.4 | 98.2 | 59.9 | 91.6 | 66.1 | |
| | 210 | 143 | 51.9 | 136 | 56.5 | 128 | 61.5 | 120 | 67.7 | 111 | 74.7 | |
| | 240 | 163 | 57.7 | 155 | 63.0 | 146 | 69.0 | 137 | 75.7 | 127 | 83.2 | |
| -7 | 260 | 170 | 66.1 | 162 | 72.0 | 153 | 78.6 | 144 | 86.0 | 134 | 94 | |
| | 080 | 58.0 | 19.4 | 54.9 | 21.2 | 51.9 | 23.1 | 48.8 | 25.3 | 45.6 | 27.8 | |
| | 100 | 75.2 | 25.2 | 71.6 | 27.7 | 67.9 | 30.4 | 64.0 | 33.5 | 59.9 | 36.9 | |
| | 130 | 96.7 | 31.6 | 92.2 | 34.8 | 87.5 | 38.3 | 82.4 | 42.2 | 76.9 | 46.8 | |
| | 150 | 111 | 39.3 | 105 | 43.1 | 99.0 | 47.4 | 92.5 | 52.3 | 85.8 | 57.8 | |
| | 180 | 130 | 45.7 | 123 | 50.1 | 117 | 55.0 | 110 | 60.5 | 103 | 66.7 | |
| | 210 | 158 | 52.7 | 150 | 57.3 | 142 | 62.4 | 133 | 68.8 | 124 | 75.8 | |
| -5 | 240 | 179 | 58.5 | 170 | 63.9 | 161 | 70.0 | 151 | 76.8 | 141 | 84.4 | |
| | 260 | 187 | 67.1 | 178 | 73.0 | 169 | 79.7 | 160 | 87.2 | 149 | 96 | |
| | 080 | 61.9 | 19.5 | 58.8 | 21.3 | 55.7 | 23.2 | 52.5 | 25.4 | 49.1 | 27.9 | 47.0 29.5 |
| | 100 | 80.6 | 25.4 | 76.8 | 27.9 | 73.0 | 30.7 | 68.9 | 33.8 | 64.5 | 37.3 | 61.7 39.6 |
| | 130 | 103 | 32.1 | 98.3 | 35.3 | 93.4 | 38.8 | 88.1 | 42.7 | 82.3 | 47.2 | 78.5 50.3 |
| | 150 | 133 | 39.7 | 113 | 43.5 | 107 | 47.8 | 100 | 52.7 | 92.9 | 58.2 | 88.3 61.8 |
| | 180 | 140 | 46.1 | 133 | 50.5 | 126 | 55.4 | 119 | 60.9 | 111 | 67.1 | 106 71.2 |
| -2 | 210 | 169 | 53.3 | 161 | 58.0 | 152 | 63.1 | 142 | 69.5 | 132 | 76.6 | 126 81.3 |
| | 240 | 190 | 59.1 | 181 | 64.6 | 172 | 70.7 | 161 | 77.5 | 150 | 85.2 | 143 90.2 |
| | 260 | 199 | 67.7 | 190 | 73.7 | 181 | 80.5 | 171 | 88.0 | 159 | 96 | 152 102 |
| | 080 | 68.4 | 19.7 | 65.1 | 21.5 | 61.8 | 23.4 | 58.4 | 25.6 | 54.8 | 28.1 | 52.6 29.7 |
| | 100 | 89.6 | 25.9 | 85.5 | 28.4 | 81.3 | 31.2 | 76.8 | 34.3 | 72.0 | 37.8 | 68.9 40.1 |
| | 130 | 113 | 32.9 | 108 | 36.1 | 103 | 39.6 | 97.3 | 43.5 | 91.0 | 48.0 | 86.9 51.0 |
| | 150 | 133 | 40.4 | 127 | 44.3 | 119 | 48.5 | 112 | 53.4 | 104 | 58.9 | 99.0 62.5 |
| 2 | 180 | 155 | 46.8 | 148 | 51.2 | 140 | 56.1 | 133 | 61.7 | 124 | 67.9 | 119 72.0 |
| | 210 | 186 | 54.3 | 177 | 59.0 | 167 | 64.1 | 157 | 70.6 | 146 | 77.8 | 140 82.5 |
| | 240 | 209 | 60.0 | 199 | 65.6 | 189 | 71.8 | 178 | 78.7 | 166 | 86.4 | 158 91.5 |
| | 260 | 219 | 68.8 | 210 | 74.9 | 200 | 81.7 | 189 | 89.3 | 176 | 98 | 168 103 |
| | 080 | 78.1 | 20.1 | 74.7 | 21.8 | 71.1 | 23.8 | 67.3 | 25.9 | 63.3 | 28.4 | 60.8 30.0 |
| | 100 | 103 | 26.6 | 98.4 | 29.1 | 93.6 | 31.9 | 88.5 | 35.1 | 83.0 | 38.6 | 79.5 40.9 |
| | 130 | 129 | 34.1 | 124 | 37.3 | 118 | 40.8 | 111 | 44.8 | 104 | 49.2 | 99.3 52.2 |
| 1 | 150 | 153 | 41.5 | 145 | 45.4 | 138 | 49.7 | 129 | 54.5 | 120 | 60.0 | 114 63.7 |
| | 180 | 178 | 47.9 | 170 | 52.3 | 162 | 57.2 | 153 | 62.8 | 144 | 69.0 | 137 73.1 |
| | 210 | 211 | 55.9 | 201 | 60.5 | 190 | 65.7 | 179 | 72.2 | 167 | 79.5 | 159 84.3 |
| | 240 | 236 | 61.5 | 226 | 67.1 | 214 | 73.4 | 202 | 80.4 | 188 | 88.2 | 180 93.3 |
| | 260 | 250 | 70.4 | 240 | 76.6 | 228 | 83.5 | 216 | 91.3 | 202 | 100 | 192 106 |

SYMBOLS

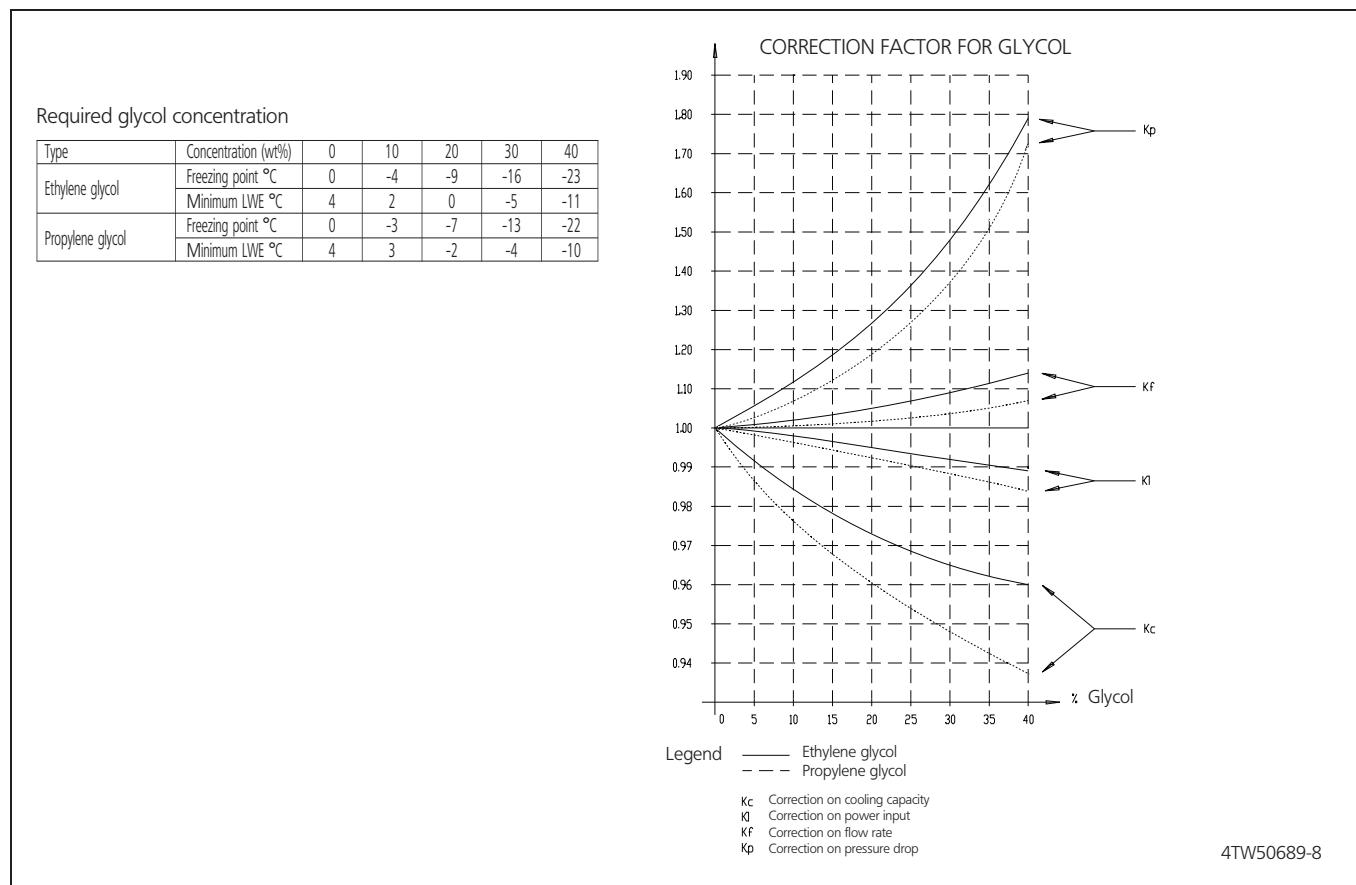
- CC : Cooling capacity (kW)
- PI : Power input (kW)
- LWE : Leaving Water Evaporator temperature (°C)
- Tamb : Ambient temperature (°C)

NOTES

1. Cooling capacity (kW)
Capacity is according to Eurovent rating standard 6/C/003-2006 and valid for chilled water range Dt = 3 - 8°C
2. Power input (kW)
Power input is total input according to Eurovent rating standard 6/C/003-2006: Compressor + fans + control circuit
3. For units with integrated heat pump
Values for CC are to be multiplied by 0.99 in order to compensate heat input of the pump
4. Usage of glycol and other anti-freeze
Correction factors for CC and PI are applicable according type and concentration of the used anti-freeze

4 Capacity tables

4 - 2 Capacity Correction Factor



5 Dimensional drawings

5 - 1 Dimensional Drawings

EWAQ080-100DAYN(P-B)

| | |
|--|--------------------------------------|
| 01 Evaporator | 20 Main isolator switch |
| 02 Condensor | 21 Transport beam |
| 03 Compressor | 22 Flowswitch |
| 04 Expansion valve + sight glass | 23 Fan |
| 05 Discharge stopvalve (Optional) | 24 Safety valve |
| 06 Suction stopvalve (Optional) | 25 High pressure sensor |
| 07 Liquid stopvalve (Optional) | 26 Low pressure sensor |
| 08 Chilled water IN (Vitaculic coupling) | 27 High pressure switch |
| 09 Chilled water OUT (Vitaculic coupling) | 28 Oil sight glass |
| 10 Water drain evaporator | 29 Pump (optional) |
| 11 Air purge | 30 Buffertank (optional) |
| 12 Leaving water temperature sensor | 31 Expansion vessel (optional) |
| 13 Entering water temperature sensor | 32 Waterfilter |
| 14 Ambient temperature sensor | 33 Water stopvalve (optional) |
| 15 Drier + charge valve | 34 Frame |
| 16 Power supply intake | 35 Buffertank drain valve (optional) |
| 17 Switchbox | 36 Regulating valve (optional) |
| 18 Digital display controller (Inside switchbox) | 37 Water safety valve (optional) |
| 19 Field wiring intake | 38 Pressure gauge (optional) |

Only for unit without OPBT

AIR ↑ AIR ↑

AIR ↑ AIR ↑

AIR ↑ AIR ↑

AIR ↑ AIR ↑

Legend

- Required space around the unit for service and air intake
- Center of gravity

3TW57574-1A

EWAQ080-100DAYN(N)

| | |
|---|--|
| 01 Evaporator | 16 Power supply intake |
| 02 Condensor | 17 Switchbox |
| 03 Compressor | 18 Digital display controller (Inside switchbox) |
| 04 Expansion valve + sight glass | 19 Field wiring intake |
| 05 Discharge valve (Optional) | 20 Main isolator switch |
| 06 Suction stopvalve (Optional) | 21 Transport beam |
| 07 Liquid stopvalve (Optional) | 22 Flowswitch |
| 08 Chilled water IN (Vitaculic coupling) | 23 Fan |
| 09 Chilled water OUT (Vitaculic coupling) | 24 Safety valve |
| 10 Water drain evaporator | 25 High pressure sensor |
| 11 Air purge | 26 Low pressure sensor |
| 12 Leaving water temperature sensor | 27 High pressure switch |
| 13 Entering water temperature sensor | 28 Oil sight glass |
| 14 Ambient temperature sensor | 29 Waterfilter |
| 15 Drier + charge valve | 30 Frame |

Only for unit without OPBT

AIR ↑ AIR ↑

AIR ↑ AIR ↑

AIR ↑ AIR ↑

AIR ↑ AIR ↑

Legend

- Required space around the unit for service and air intake
- Center of gravity

3TW57574-2A

5 Dimensional drawings

5 - 1 Dimensional Drawings

1
5

EWAQ130-150DAYN(P-B)

| | | | |
|----|---|----|-----------------------------------|
| 01 | Evaporator | 21 | Transport beam |
| 02 | Condensor | 22 | Flowswitch |
| 03 | Compressor | 23 | Fan |
| 04 | Expansion valve + sight glass | 24 | Safety valve |
| 05 | Discharge stopvalve (Optional) | 25 | High pressure sensor |
| 06 | Suction stopvalve (Optional) | 26 | Low pressure sensor |
| 07 | Liquid stopvalve (Optional) | 27 | High pressure switch |
| 08 | Chilled water IN (Vicatonic coupling) | 28 | Oil sight glass |
| 09 | Chilled water OUT (Vicatonic coupling) | 29 | Pump (Optional) |
| 10 | Water drain evaporator | 30 | Buffertank (Optional) |
| 11 | Air purge | 31 | Expansion vessel (Optional) |
| 12 | Leaving water temperature sensor | 32 | Waterfilter |
| 13 | Entering water temperature sensor | 33 | Water stopvalve (Optional) |
| 14 | Ambient temperature sensor | 34 | Frame |
| 15 | Drier + charge valve | 35 | Buffertank drain valve (Optional) |
| 16 | Power supply intake | 36 | Regulating valve (Optional) |
| 17 | Switchbox | 37 | Water safety valve (Optional) |
| 18 | Digital display controller (Inside switchbox) | 38 | Pressure gauge (Optional) |
| 19 | Field wiring intake | | |
| 20 | Main isolator switch | | |

3TW57594-1B

3TW57594-2A

DAIKIN • Hydronic Systems • Single Unit

25

5 Dimensional drawings

5 - 1 Dimensional Drawings

EWAQ180-210DAYN(P-B)

| | |
|--|--------------------------------------|
| 01 Evaporator | 21 Transport beam |
| 02 Condensor | 22 Flowswitch |
| 03 Compressor | 23 Fan |
| 04 Expansion valve + sight glass | 24 Safety valve |
| 05 Discharge stopvalve (Optional) | 25 High pressure sensor |
| 06 Suction stopvalve (Optional) | 26 Low pressure sensor |
| 07 Liquid stopvalve (Optional) | 27 High pressure switch |
| 08 Chilled water IN (Victaulic coupling) | 28 Oil sight glass |
| 09 Chilled water OUT (Victaulic coupling) | 29 Pump (Optional) |
| 10 Water drain evaporator | 30 Buffertank (Optional) |
| 11 Air purge | 31 Expansion vessel (Optional) |
| 12 Leaving water temperature sensor | 32 Waterfilter |
| 13 Entering water temperature sensor | 33 Water stopvalve (Optional) |
| 14 Ambient temperature sensor | 34 Frame |
| 15 Drier + charge valve | 35 Buffertank drain valve (Optional) |
| 16 Power supply intake | 36 Regulating valve (Optional) |
| 17 Switchbox | 37 Water safety valve (Optional) |
| 18 Digital display controller (Inside switchbox) | 38 Pressure gauge (Optional) |
| 19 Field wiring intake | |
| 20 Main isolator switch | |

ONLY FOR UNIT WITHOUT OPBT

Legend

- Required space around the unit for service and air intake
- Center of gravity

3TW57614-1B

EWAQ180-210DAYN(N)

| | |
|---|--|
| 01 Evaporator | 16 Power supply intake |
| 02 Condensor | 17 Switchbox |
| 03 Compressor | 18 Digital display controller (Inside switchbox) |
| 04 Expansion valve + sight glass | 19 Field wiring intake |
| 05 Discharge stopvalve (Optional) | 20 Main isolator switch |
| 06 Suction stopvalve (Optional) | 21 Transport beam |
| 07 Liquid stopvalve (Optional) | 22 Flowswitch |
| 08 Chilled water IN (Victaulic coupling) | 23 Fan |
| 09 Chilled water OUT (Victaulic coupling) | 24 Safety valve |
| 10 Water drain evaporator | 25 High pressure sensor |
| 11 Air purge | 26 Low pressure sensor |
| 12 Leaving water temperature sensor | 27 High pressure switch |
| 13 Entering water temperature sensor | 28 Oil sight glass |
| 14 Ambient temperature sensor | 29 Waterfilter |
| 15 Drier + charge valve | 30 Frame |

ONLY FOR UNIT WITHOUT OPBT

Legend

- Required space around the unit for service and air intake
- Center of gravity

3TW57614-2A

5 Dimensional drawings

5 - 1 Dimensional Drawings

EWAQ240-260DAYN(P-B)
1
5

Legend

- Required space around the unit for service and air intake
- Center of gravity

Front view diagram of EWAQ240-260DAYN(P-B) showing component locations and dimensions. The diagram includes a legend for required space around the unit for service and air intake, and the center of gravity.

Component List:

- 01 Evaporator
- 02 Condenser
- 03 Compressor
- 04 Expansion valve + sight glass
- 05 Discharge stopvalve (Optional)
- 06 Suction stopvalve (Optional)
- 07 Liquid stopvalve (Optional)
- 08 Chilled water IN (Vicatronic coupling)
- 09 Chilled water OUT (Vicatronic coupling)
- 10 Water drain evaporator
- 11 Air purge
- 12 Leaving water temperature sensor
- 13 Entering water temperature sensor
- 14 Ambient sensor
- 15 Drier + charge valve
- 16 Power supply intake
- 17 Switchbox
- 18 Digital display controller (Inside switchbox)
- 19 Field wiring intake
- 20 Main isolator switch
- 21 Transport beam
- 22 Flowswitch
- 23 Fan
- 24 Safety valve
- 25 High pressure sensor
- 26 Low pressure sensor
- 27 High pressure switch
- 28 Oil sight glass
- 29 Waterfilter
- 30 Frame
- 31 Pump (optional)
- 32 Buffertank (optional)
- 33 Expansion vessel (optional)
- 34 Water stopvalve (optional)
- 35 Buffertank drain valve (optional)
- 36 Regulating valve (optional)
- 37 Water safety valve (optional)
- 38 Pressure gauge (optional)

Side view diagram of EWAQ240-260DAYN(P-B) showing component locations and dimensions. The diagram includes a legend for required space around the unit for service and air intake, and the center of gravity.

Component List:

- 01 Evaporator
- 02 Condenser
- 03 Compressor
- 04 Expansion valve + sight glass
- 05 Discharge stopvalve (Optional)
- 06 Suction stopvalve (Optional)
- 07 Liquid stopvalve (Optional)
- 08 Chilled water IN (Vicatronic coupling)
- 09 Chilled water OUT (Vicatronic coupling)
- 10 Water drain evaporator
- 11 Air purge
- 12 Leaving water temperature sensor
- 13 Entering water temperature sensor
- 14 Ambient sensor
- 15 Drier + charge valve
- 16 Power supply intake
- 17 Switchbox
- 18 Digital display controller (Inside switchbox)
- 19 Field wiring intake
- 20 Main isolator switch
- 21 Transport beam
- 22 Flowswitch
- 23 Fan
- 24 Safety valve
- 25 High pressure sensor
- 26 Low pressure sensor
- 27 High pressure switch
- 28 Oil sight glass
- 29 Waterfilter
- 30 Frame
- 31 Pump (optional)
- 32 Buffertank (optional)
- 33 Expansion vessel (optional)
- 34 Water stopvalve (optional)
- 35 Buffertank drain valve (optional)
- 36 Regulating valve (optional)
- 37 Water safety valve (optional)
- 38 Pressure gauge (optional)

Front view diagram of EWAQ240-260DAYN(N) showing component locations and dimensions. The diagram includes a legend for required space around the unit for service and air intake, and the center of gravity.

Component List:

- 01 Evaporator
- 02 Condenser
- 03 Compressor
- 04 Expansion valve + sight glass
- 05 Discharge stopvalve (Optional)
- 06 Suction stopvalve (Optional)
- 07 Liquid stopvalve (Optional)
- 08 Chilled water IN (Vicatronic coupling)
- 09 Chilled water OUT (Vicatronic coupling)
- 10 Water drain evaporator
- 11 Air purge
- 12 Leaving water temperature sensor
- 13 Entering water temperature sensor
- 14 Ambient sensor
- 15 Drier + charge valve
- 16 Power supply intake
- 17 Switchbox
- 18 Digital display controller (Inside switchbox)
- 19 Field wiring intake
- 20 Main isolator switch
- 21 Transport beam
- 22 Flowswitch
- 23 Fan
- 24 Safety valve
- 25 High pressure sensor
- 26 Low pressure sensor
- 27 High pressure switch
- 28 Oil sight glass
- 29 Waterfilter
- 30 Frame

Side view diagram of EWAQ240-260DAYN(N) showing component locations and dimensions. The diagram includes a legend for required space around the unit for service and air intake, and the center of gravity.

Component List:

- 01 Evaporator
- 02 Condenser
- 03 Compressor
- 04 Expansion valve + sight glass
- 05 Discharge stopvalve (Optional)
- 06 Suction stopvalve (Optional)
- 07 Liquid stopvalve (Optional)
- 08 Chilled water IN (Vicatronic coupling)
- 09 Chilled water OUT (Vicatronic coupling)
- 10 Water drain evaporator
- 11 Air purge
- 12 Leaving water temperature sensor
- 13 Entering water temperature sensor
- 14 Ambient sensor
- 15 Drier + charge valve
- 16 Power supply intake
- 17 Switchbox
- 18 Digital display controller (Inside switchbox)
- 19 Field wiring intake
- 20 Main isolator switch
- 21 Transport beam
- 22 Flowswitch
- 23 Fan
- 24 Safety valve
- 25 High pressure sensor
- 26 Low pressure sensor
- 27 High pressure switch
- 28 Oil sight glass
- 29 Waterfilter
- 30 Frame

Front view diagram of EWAQ240-260DAYN(N) showing component locations and dimensions. The diagram includes a legend for required space around the unit for service and air intake, and the center of gravity.

Component List:

- 01 Evaporator
- 02 Condenser
- 03 Compressor
- 04 Expansion valve + sight glass
- 05 Discharge stopvalve (Optional)
- 06 Suction stopvalve (Optional)
- 07 Liquid stopvalve (Optional)
- 08 Chilled water IN (Vicatronic coupling)
- 09 Chilled water OUT (Vicatronic coupling)
- 10 Water drain evaporator
- 11 Air purge
- 12 Leaving water temperature sensor
- 13 Entering water temperature sensor
- 14 Ambient sensor
- 15 Drier + charge valve
- 16 Power supply intake
- 17 Switchbox
- 18 Digital display controller (Inside switchbox)
- 19 Field wiring intake
- 20 Main isolator switch
- 21 Transport beam
- 22 Flowswitch
- 23 Fan
- 24 Safety valve
- 25 High pressure sensor
- 26 Low pressure sensor
- 27 High pressure switch
- 28 Oil sight glass
- 29 Waterfilter
- 30 Frame

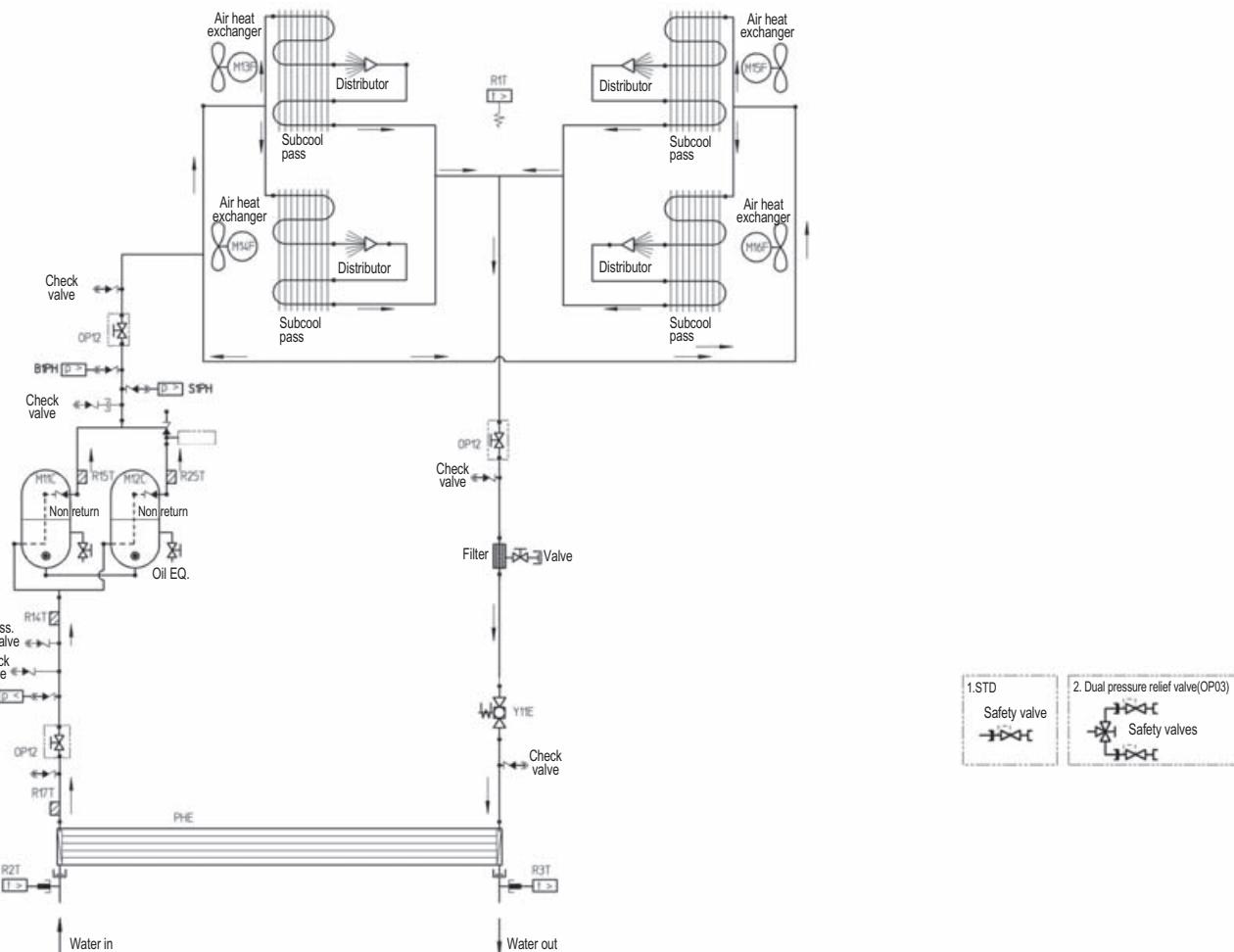
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3TW57634-2

6 Piping diagrams

6 - 1 Piping Diagrams

EWAQ080-100DAYN(N-P-B) (piping diagram)

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| BRAND | DESIGNATION | | |
|------------|---------------------------------------|------|--|
| M11-12C | Compressor motors | B1PH | High pressure sensor |
| M13-16F | Fan motors | B1PL | Low pressure sensor |
| R14T | Suction temperature sensor | Y11E | Electronic expansion valve cooling |
| R17T | Refrigerant piping temperature sensor | R1T | Ambient temperature sensor |
| S1PH | High pressure switch | R2T | Evaporator inlet water temperature sensor |
| R15T, R25T | Discharge temperature sensor | R3T | Evaporator outlet water temperature sensor |

↔ : Check valve

→ : Flare Conn.

— : Screw conn.

— : Flange conn.

× : Pinched pipe

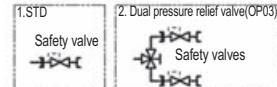
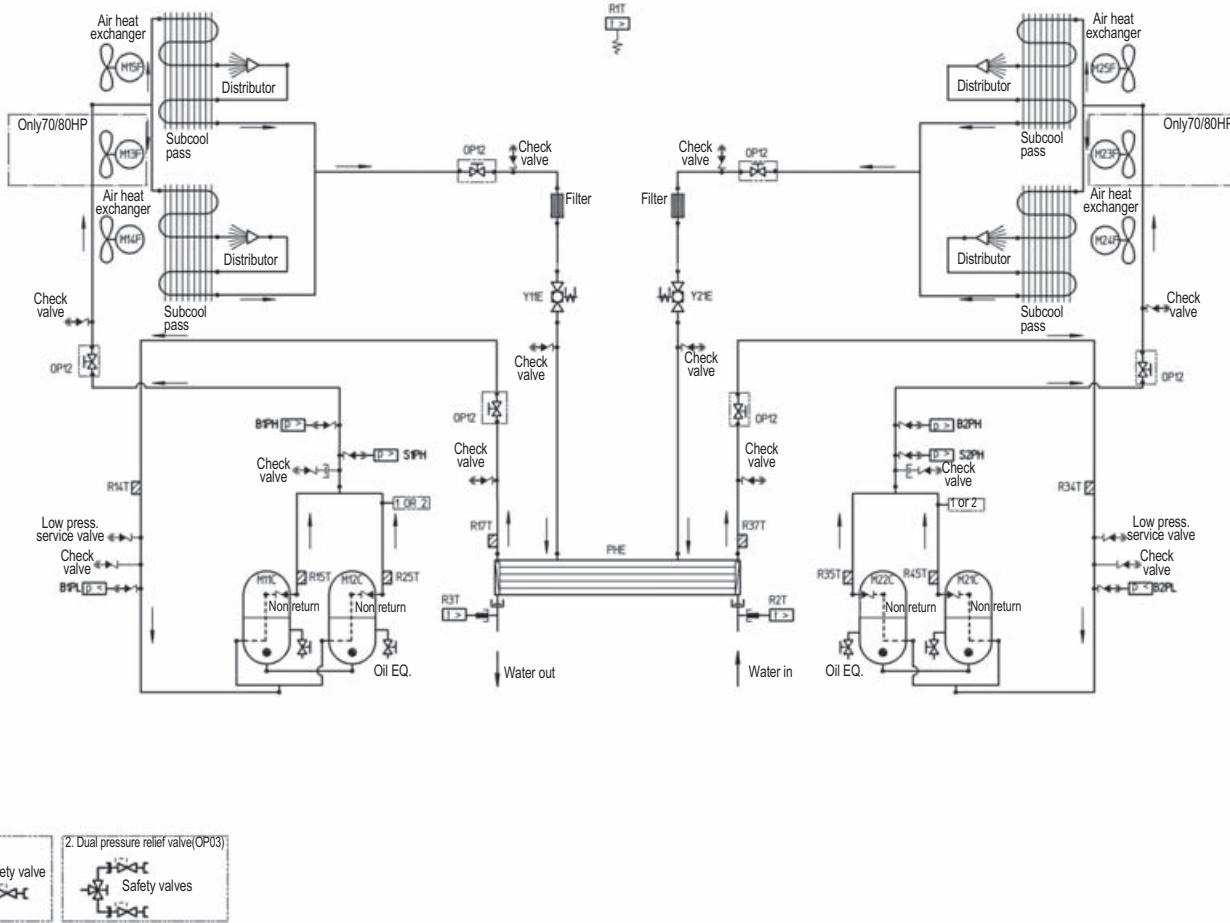
→ : Spinned pipe

3TW57575-1

6 Piping diagrams

6 - 1 Piping Diagrams

EWAQ130-210DAYN(N-P-B)(piping diagram)

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| BRAND | DESIGNATION | M23-25F | Fan motors circuit 2 |
|------------|---|------------|---|
| M11-12C | Compressor motors circuit 1 | R34T | Suction temperature sensor circuit 2 |
| M13-15F | Fan motors circuit 1 | R37T | Refrigerant piping temperature sensor circuit 2 |
| R14T | Suction temperature sensor circuit 1 | S2PH | High pressure switch circuit 2 |
| R17T | Refrigerant piping temperature sensor circuit 1 | R35T, R35T | Discharge temperature sensor circuit 2 |
| S1PH | High pressure switch circuit 1 | B2PH | High pressure sensor circuit 2 |
| R15T, R25T | Discharge temperature sensor circuit 1 | B2PL | Low pressure sensor circuit 2 |
| B1PH | High pressure sensor circuit 1 | Y21E | Electronic expansion valve cooling circuit 2 |
| B1PL | Low pressure sensor circuit 1 | R1T | Ambient temperature sensor |
| Y11E | Electronic expansion valve cooling circuit 1 | R2T | Evaporator inlet water temperature sensor |
| M21-22C | Compressor motors circuit 2 | R3T | Evaporator outlet water temperature sensor |

↔ : Check valve
 → : Flare Conn.
 ┌─┐ : Pinched pipe
 ┌─┐ : Screw conn.

└─┘ : Flange conn.
 X : Pinched pipe
 → : Spinned pipe

2TW57595-1

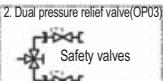
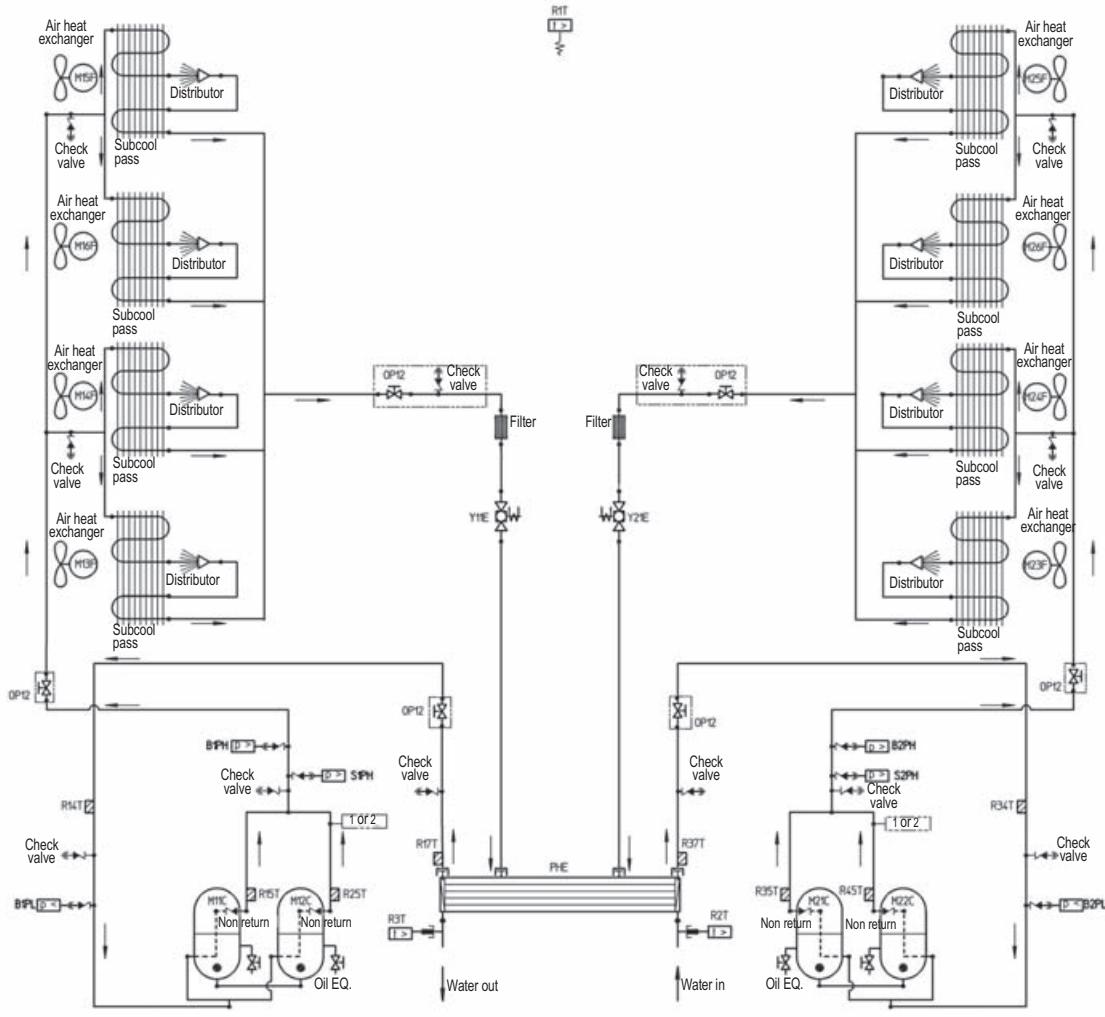
6 Piping diagrams

6 - 1 Piping Diagrams

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EWAQ240-260DAYN(N-P-B)(piping diagram)



| BRAND | DESIGNATION | M23-26F | Fan motors circuit 2 |
|------------|---|------------|---|
| M11-12C | Compressor motors circuit 1 | R34T | Suction temperature sensor circuit 2 |
| M13-16F | Fan motors circuit 1 | R37T | Refrigerant piping temperature sensor circuit 2 |
| R14T | Suction temperature sensor circuit 1 | S2PH | High pressure switch circuit 2 |
| R17T | Refrigerant piping temperature sensor circuit 1 | R35T, R35T | Discharge temperature sensor circuit 2 |
| S1PH | High pressure switch circuit 1 | B2PH | High pressure sensor circuit 2 |
| R15T, R25T | Discharge temperature sensor circuit 1 | B2PL | Low pressure sensor circuit 2 |
| B1PH | High pressure sensor circuit 1 | Y21E | Electronic expansion valve cooling circuit 2 |
| B1PL | Low pressure sensor circuit 1 | R1T | Ambient temperature sensor |
| Y11E | Electronic expansion valve cooling circuit 1 | R2T | Evaporator inlet water temperature sensor |
| M21-22C | Compressor motors circuit 2 | R3T | Evaporator outlet water temperature sensor |

↔ : Check valve

— : Flange conn.

← : Flare Conn.

× : Pinched pipe

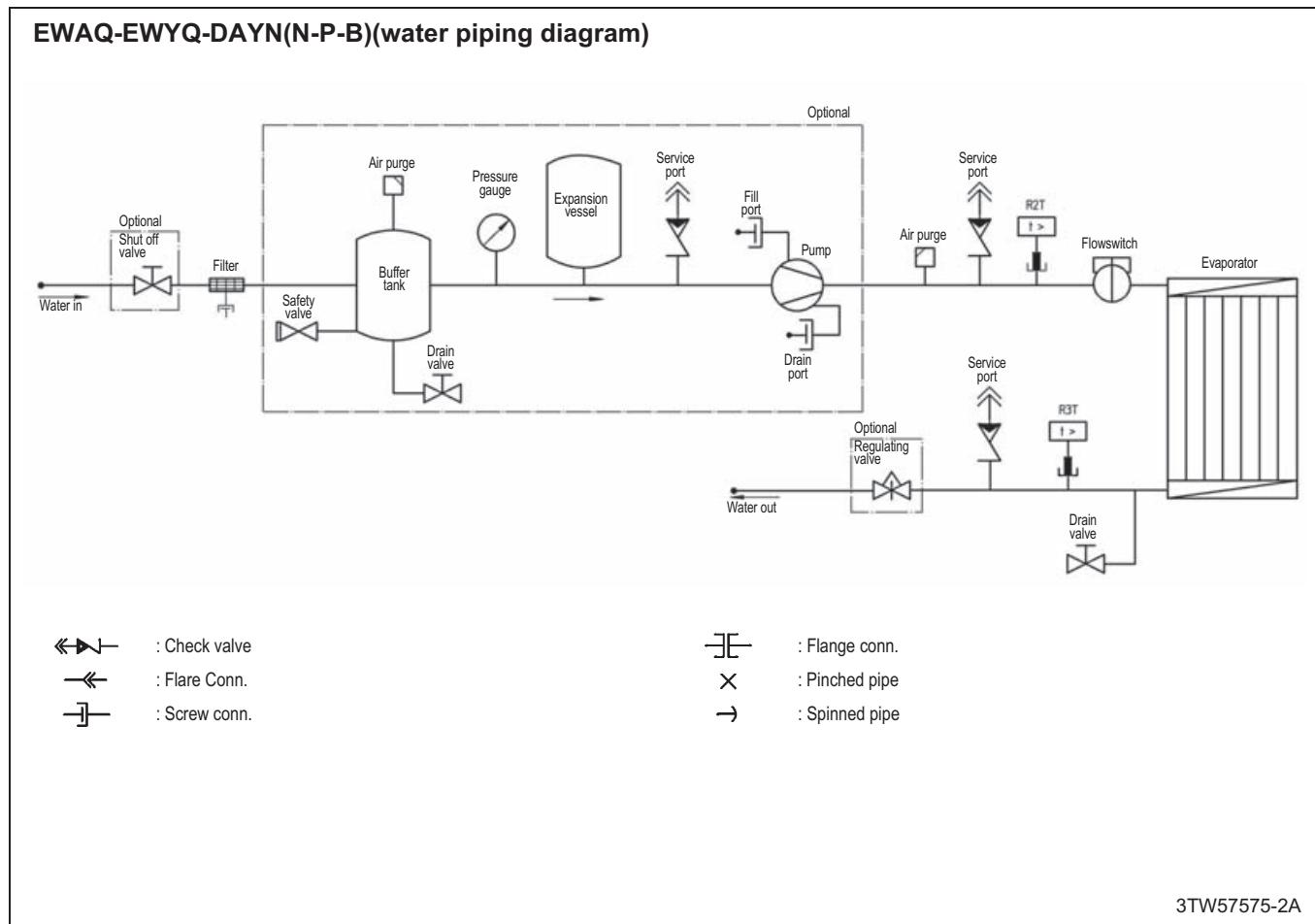
— : Screw conn.

→ : Spinned pipe

2TW57635-1

6 Piping diagrams

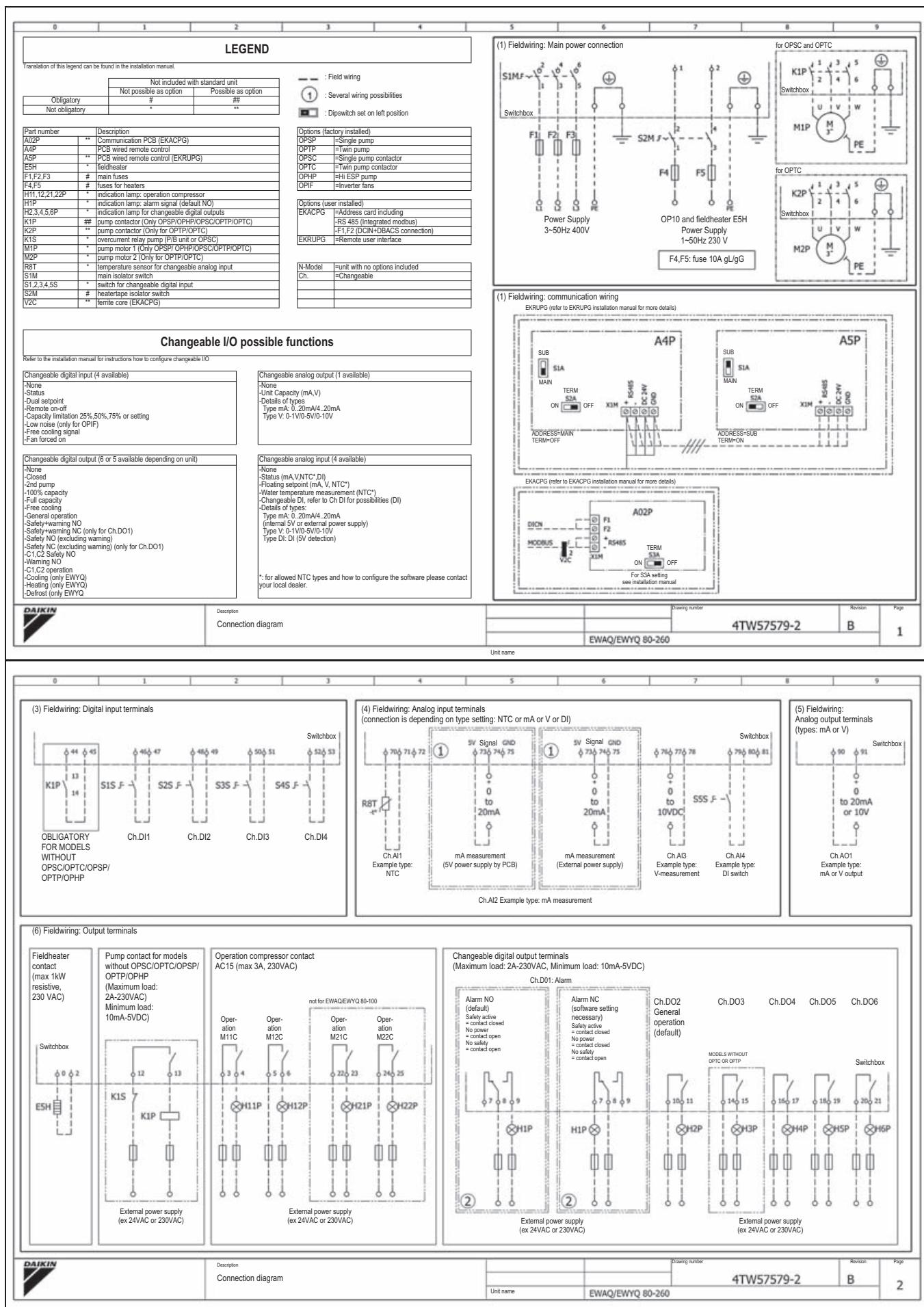
6 - 1 Piping Diagrams



7 External connection diagrams

7 - 1 External Connection Diagrams

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8 Sound data

8 - 1 Sound Power Spectrum

EWAQ-EWYQ-DAYN(N-P-B)

| STD - Units LWE= 7°C / Tamb = 35°C | Sound power Lw per Octave band (dBA) | | | | | | | | Total (dBA) LwA |
|---------------------------------------|--------------------------------------|-----|-----|-----|------|------|------|------|--------------------|
| | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| EW(A/Y)Q080DAYN* | 64 | 69 | 72 | 82 | 81 | 77 | 71 | 62 | 86 |
| EW(A/Y)Q100DAYN* | 62 | 66 | 71 | 79 | 82 | 80 | 74 | 64 | 86 |
| EW(A/Y)Q130DAYN* | 64 | 70 | 73 | 81 | 85 | 80 | 72 | 61 | 88 |
| EW(A/Y)Q150DAYN* | 65 | 74 | 75 | 85 | 84 | 80 | 74 | 65 | 89 |
| EW(A/Y)Q180DAYN* | 70 | 75 | 79 | 85 | 86 | 82 | 75 | 64 | 90 |
| EW(A/Y)Q210DAYN* | 67 | 74 | 79 | 85 | 86 | 83 | 76 | 64 | 90 |
| EW(A/Y)Q(230/240)DAYN* | 71 | 72 | 77 | 87 | 86 | 83 | 77 | 67 | 91 |
| EW(A/Y)Q(250/260)DAYN* | 71 | 72 | 77 | 87 | 86 | 83 | 77 | 67 | 91 |

| OPLN - Units LWE= 7°C / Tamb = 35°C | Sound power Lw per Octave band (dBA) | | | | | | | | Total (dBA) LwA |
|--|--------------------------------------|-----|-----|-----|------|------|------|------|--------------------|
| | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| EW(A/Y)Q080DAYN* | 62 | 67 | 70 | 80 | 79 | 75 | 69 | 60 | 84 |
| EW(A/Y)Q100DAYN* | 60 | 64 | 69 | 77 | 80 | 78 | 72 | 62 | 84 |
| EW(A/Y)Q130DAYN* | 61 | 67 | 70 | 78 | 82 | 77 | 69 | 58 | 85 |
| EW(A/Y)Q150DAYN* | 62 | 71 | 72 | 82 | 81 | 77 | 71 | 62 | 86 |
| EW(A/Y)Q180DAYN* | 68 | 73 | 77 | 83 | 84 | 80 | 73 | 62 | 88 |
| EW(A/Y)Q210DAYN* | 65 | 72 | 77 | 83 | 84 | 81 | 74 | 62 | 88 |
| EW(A/Y)Q(230/240)DAYN* | 68 | 69 | 74 | 84 | 83 | 80 | 74 | 64 | 88 |
| EW(A/Y)Q(250/260)DAYN* | 68 | 69 | 74 | 84 | 83 | 80 | 74 | 64 | 88 |

| OPLN - Units LWE= 7°C / Tamb = 25°C | Sound power Lw per Octave band (dBA) | | | | | | | | Total (dBA) LwA |
|--|--------------------------------------|-----|-----|-----|------|------|------|------|--------------------|
| | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| EW(A/Y)Q080DAYN* | 61 | 66 | 69 | 79 | 78 | 74 | 68 | 59 | 83 |
| EW(A/Y)Q100DAYN* | 59 | 63 | 68 | 76 | 79 | 77 | 71 | 61 | 83 |
| EW(A/Y)Q130DAYN* | 60 | 66 | 69 | 77 | 81 | 76 | 68 | 57 | 84 |
| EW(A/Y)Q150DAYN* | 60 | 69 | 70 | 80 | 79 | 75 | 69 | 90 | 84 |
| EW(A/Y)Q180DAYN* | 66 | 71 | 75 | 81 | 82 | 79 | 72 | 60 | 86 |
| EW(A/Y)Q210DAYN* | 63 | 70 | 75 | 81 | 82 | 79 | 72 | 60 | 86 |
| EW(A/Y)Q(230/240)DAYN* | 67 | 68 | 73 | 83 | 82 | 79 | 73 | 63 | 87 |
| EW(A/Y)Q(250/260)DAYN* | 67 | 68 | 73 | 83 | 82 | 79 | 73 | 63 | 87 |

NOTES

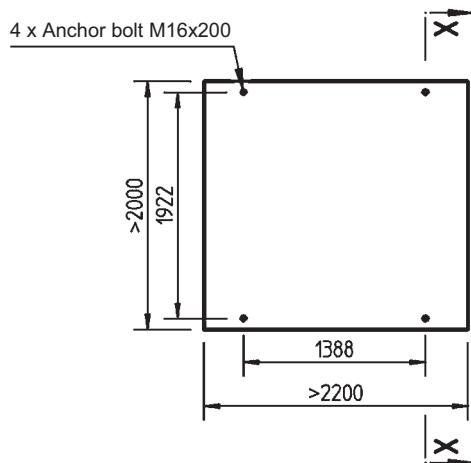
- 1 Values of Sound power according to ISO9614-2
- 2 LWE= Leaving Water Evaporator temperature (°C)
Tamb= Ambient temperature

9 Installation

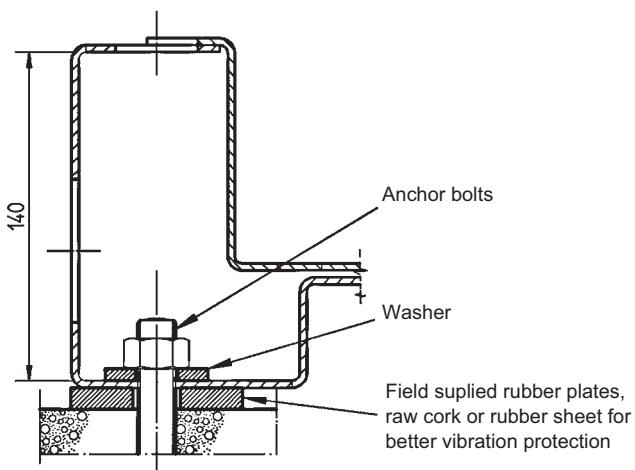
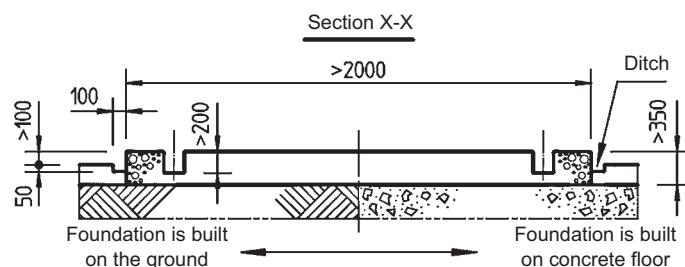
9 - 1 Fixation and Foundation of Units

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EWAQ-EWYQ080-150DAYN(N-P-B)



Fix anchor bolts into the concrete foundation. The concrete foundation should be higher than the floor level by approximately 100 mm for ease of plumbing work and better drain. Further, strength of the floor should be sufficient to support the weights of concrete foundation and unit. Be certain that foundation surface is even and flat.



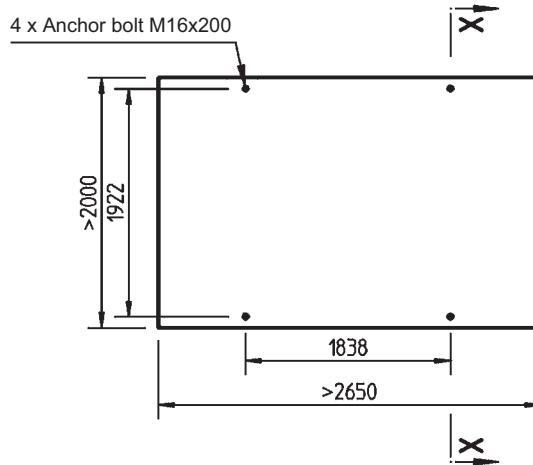
NOTES

- 1 The measurement tabulated is based on the fact the base is made in the ground or on a concrete floor. In case the base is made on a concrete floor. In case the base is made on a rigid concrete floor, it is possible to include thickness of concrete floor, in that of the base.
- 2 In case a base is made on concrete floor, be sure to provide a ditch as shown. It is important to extract drainage regardless of whether a base is made in the ground or on the concrete floor. (Ditch → Sewerage).
- 3 Ingredient ratio of the concrete is cement: 1, sand: 2, gravel: 3, which is standard and insert iron bars of Ø10 at every interval of 300mm. The edge of the concrete base should be planed.

9 Installation

9 - 1 Fixation and Foundation of Units

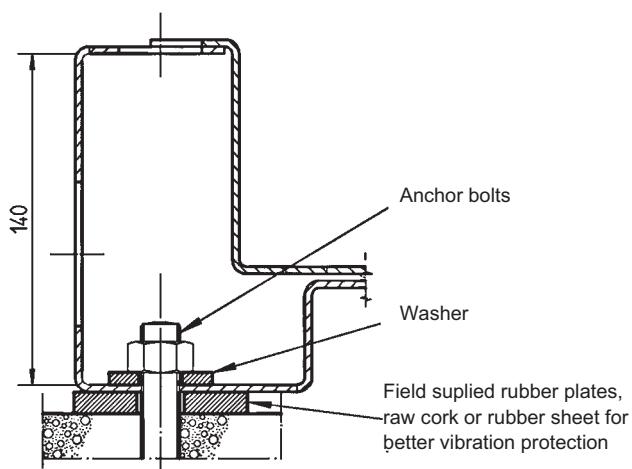
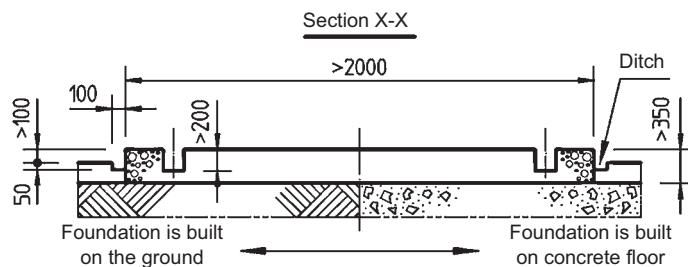
EWAQ-EWYQ180-210DAYN(N-P-B)

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Fix anchor bolts into the concrete foundation.

The concrete foundation should be higher than the floor level by approximately 100 mm for ease of plumbing work and better drain. Further, strength of the floor should be sufficient to support the weights of concrete foundation and unit.

Be certain that foundation surface is even and flat.



NOTES

- 1 The measurement tabulated is based on the fact the base is made in the ground or on a concrete floor. In case the base is made on a concrete floor. In case the base is made on a rigid concrete floor, it is possible to include thickness of concrete floor, in that of the base.
- 2 In case a base is made on concrete floor, be sure to provide a ditch as shown. It is important to extract drainage regardless of whether a base is made in the ground or on the concrete floor. (Ditch → Sewerage).
- 3 Ingredient ratio of the concrete is cement: 1, sand: 2, gravel: 3, which is standard and insert iron bars of Ø10 at every interval of 300mm. The edge of the concrete base should be planed.

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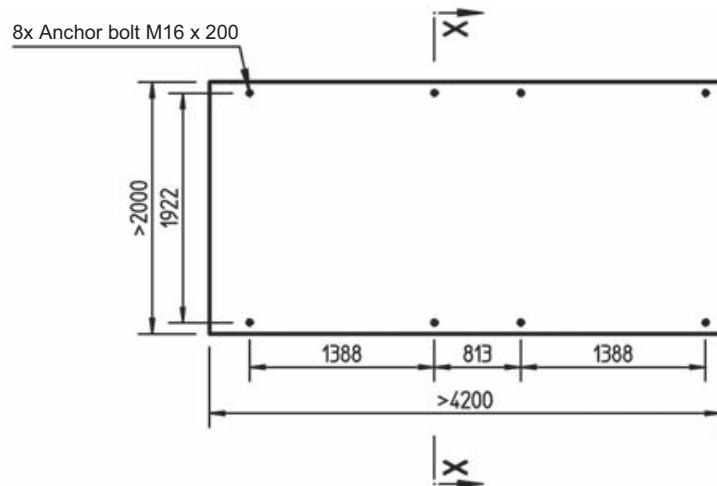
9 Installation

9 - 1 Fixation and Foundation of Units

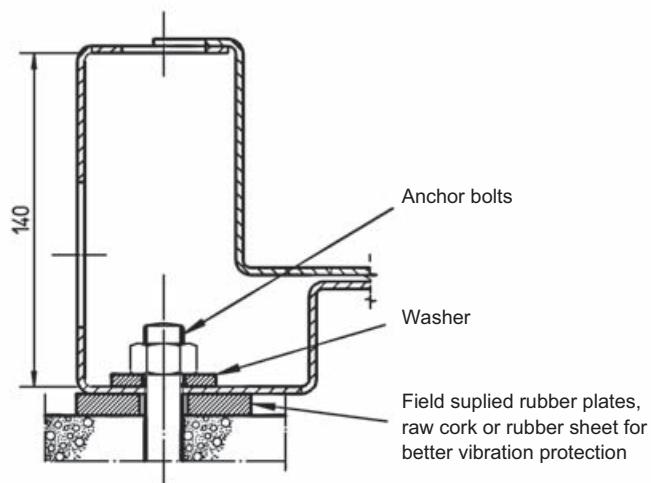
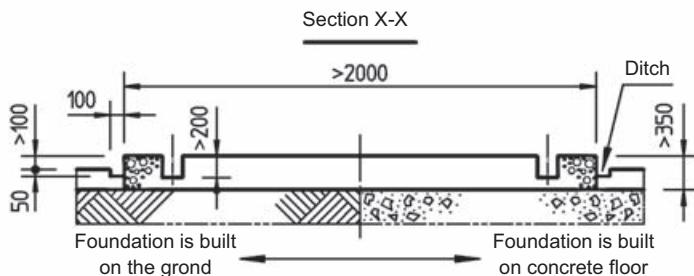
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9

EWAQ240-260DAYN(N-P-B)_EWYQ230-250DAYN(N-P-B)



Fix anchor bolts into the concrete foundation. The concrete foundation should be higher than the floor level by approximately 100 mm for ease of plumbing work and better drain. Further, strength of the floor should be sufficient to support the weights of concrete foundation and unit. Be certain that foundation surface is even and flat.



NOTES

- 1 The measurement tabulated is based on the fact the base is made in the ground or on a concrete floor. In case the base is made on a rigid concrete floor, it is possible to include thickness of concrete floor in that of the base.
- 2 In case a base is made on concrete floor, be sure to provide a ditch as shown. It is important to extract drainage regardless of whether a base is made in the ground or on the concrete floor. (Ditch → Sewerage).
- 3 Ingredient ratio of the concrete is cement: 1, sand:2, gravel:3, which is standard and insert iron bars of Ø10 at every interval of 300mm. The edge of the concrete base should be planed.

9 Installation

9 - 2 Water Charge, Flow and Quality

| ITEMS (1) (5) | Cooling water (3) | | Cooled water | | Heated water (2) | | Tendency if out of criteria |
|-------------------------|---|-------------------------|-------------------------|--------------------------------|-------------------------|---------------------------------|--------------------------------|
| | Circulating system | Once flow | Supply water (4) | Circulating water [Below 20°C] | Supply water (4) | Circulating water [60°C ~ 80°C] | |
| pH | at 25°C | 65~82 | 60~80 | 68~80 | 68~80 | 70~80 | 70~80 |
| Electrical conductivity | [$\mu\text{S}/\text{m}$] at 25°C [$\mu\text{S}/\text{cm}$] at 25°C (1) | Below 80 (Below 800) | Below 30 (Below 300) | Below 40 (Below 400) | Below 30 (Below 300) | Below 30 (Below 300) | Below 30 (Below 300) |
| Chloride ion | [mgCl] ¹ | Below 200 | Below 50 | Below 50 | Below 50 | Below 50 | Below 30 Corrosion + scale |
| Sulfate ion | [mgSO ₄ ²⁻] ¹ | Below 200 | Below 50 | Below 50 | Below 50 | Below 50 | Below 30 Corrosion + scale |
| M-alkalinity (pH4.8) | [mgCaCO ₃] ¹ | Below 100 | Below 50 | Below 50 | Below 50 | Below 50 | Below 30 Corrosion + scale |
| Total hardness | [mgCaCO ₃] ¹ | Below 200 | Below 70 | Below 70 | Below 70 | Below 70 | Below 70 Scale |
| Calcium hardness | [mgCaCO ₃] ¹ | Below 150 | Below 50 | Below 50 | Below 50 | Below 50 | Below 50 Scale |
| Silica ion | [mgSiO ₂] ¹ | Below 50 | Below 30 | Below 30 | Below 30 | Below 30 | Below 30 Scale |
| Iron | [mgFe] ¹ | Below 1.0 | Below 0.3 | Below 1.0 | Below 0.3 | Below 1.0 | Below 0.3 Corrosion + scale |
| Copper | [mgCu] ¹ | Below 0.3 | Below 0.1 | Below 1.0 | Below 1.0 | Below 1.0 | Below 0.1 Corrosion |
| Sulfite ion | [mgS ²⁻] ¹ | Not detectable | Not detectable | Not detectable | Not detectable | Not detectable | Not detectable Corrosion |
| Ammonium ion | [mgNH ₄ ⁺] ¹ | Below 1.0 | Below 0.1 | Below 1.0 | Below 0.1 | Below 0.1 | Below 0.1 Corrosion |
| Remaining chloride | [mgCl] ¹ | Below 0.3 | Below 0.3 | Below 0.3 | Below 0.25 | Below 0.3 | Below 0.1 Corrosion |
| Free carbide | [mgCO ₂] ¹ | Below 4.0 | Below 4.0 | Below 4.0 | Below 0.4 | Below 0.4 | Below 0.4 Corrosion |
| Stability index | 60~7.0 | --- | --- | --- | --- | --- | --- |

3TW50179-1

1 Names, definitions and units are according to JIS K 0101. Units and figures between brackets are old units published as reference only.

2 In case of using heated water (more than 40°C), corrosion is generally noticeable.

Especially when the iron material is in direct contact with water without any protection shields, it is desirable to give the valid measures for corrosion e.g. chemical measure.

3 In the cooling water using hermetic cooling tower, closed circuit water is according to heated water standard, and scattered water is according to cooling water standard.

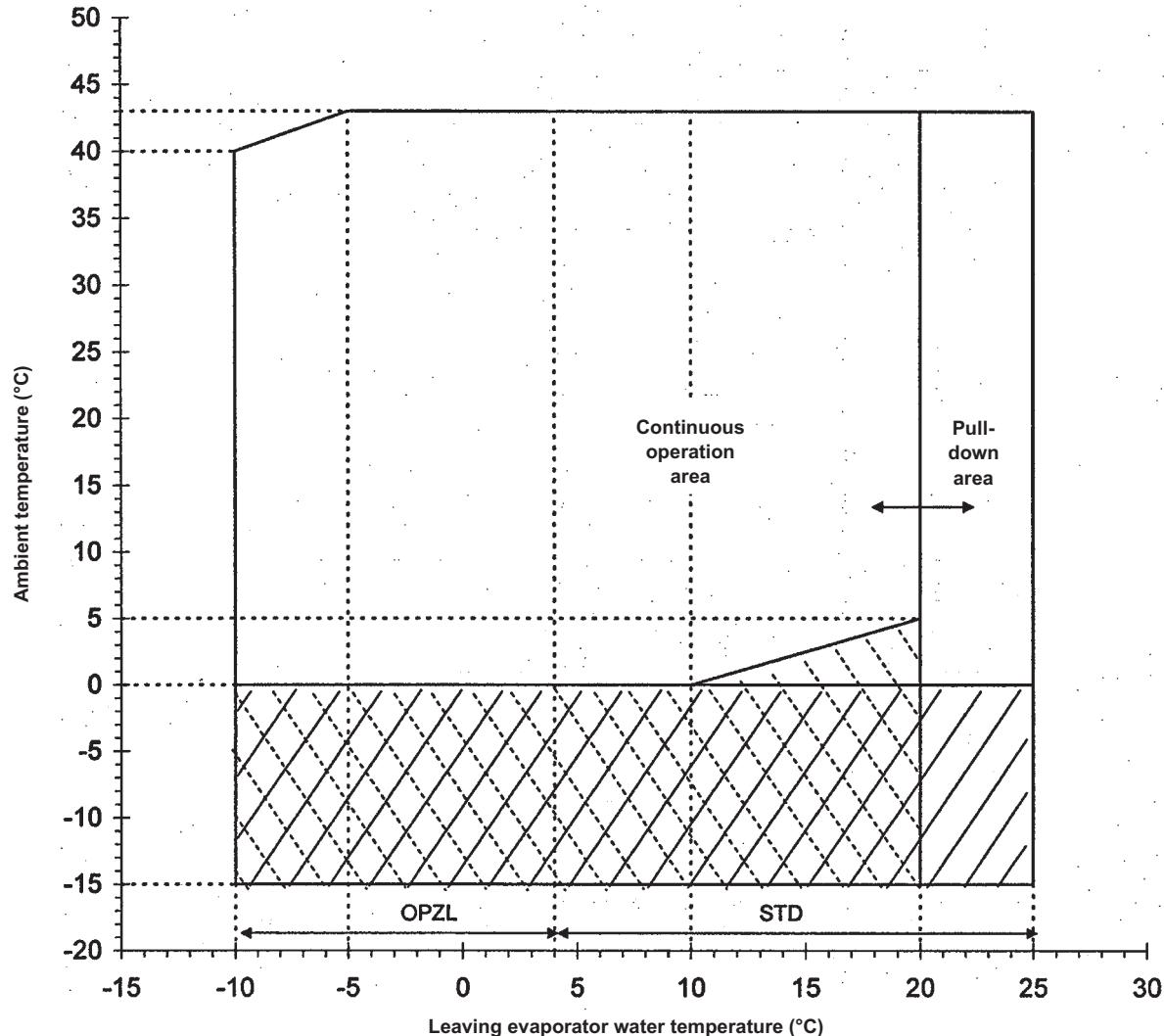
4 Supply water is considered drink water, industrial water and ground water except for genuine water, neutral water and soft water.

5 The above mentioned items are representable items in corrosion and scale cases.

10 Operation range

10 - 1 Operation Range

EWAQ080-100-180-210-240-260DAYN(N-P-B)



STD: Standard unit

OPZL: Leaving water evaporator from -10 to 4°C by use of glycol



Protect the water circuit against freezing by:

- * OR OP10: heater tape
- * Or filling up the system with a glycol solution



OPIF Option Inverter Fans EWAQ080-100-180-210-240-260

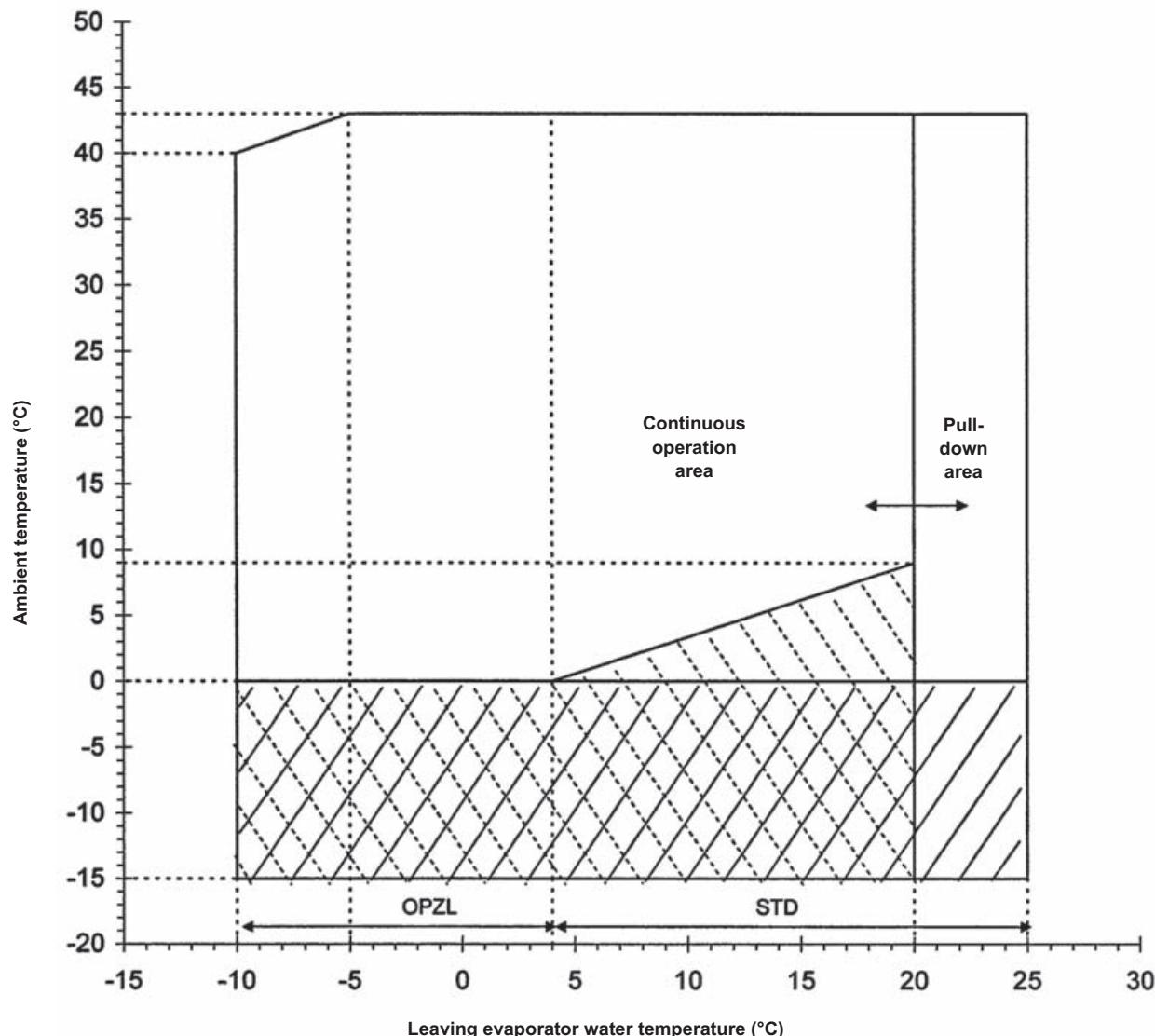
10 Operation range

10 - 1 Operation Range

EWAQ130-150DAYN(N-P-B)

1

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STD: Standard unit

OPZL: Leaving water evaporator from -10 to 4°C by use of glycol



Protect the water circuit against freezing by:
 * OR OP10: heater tape
 * Or filling up the system with a glycol solution



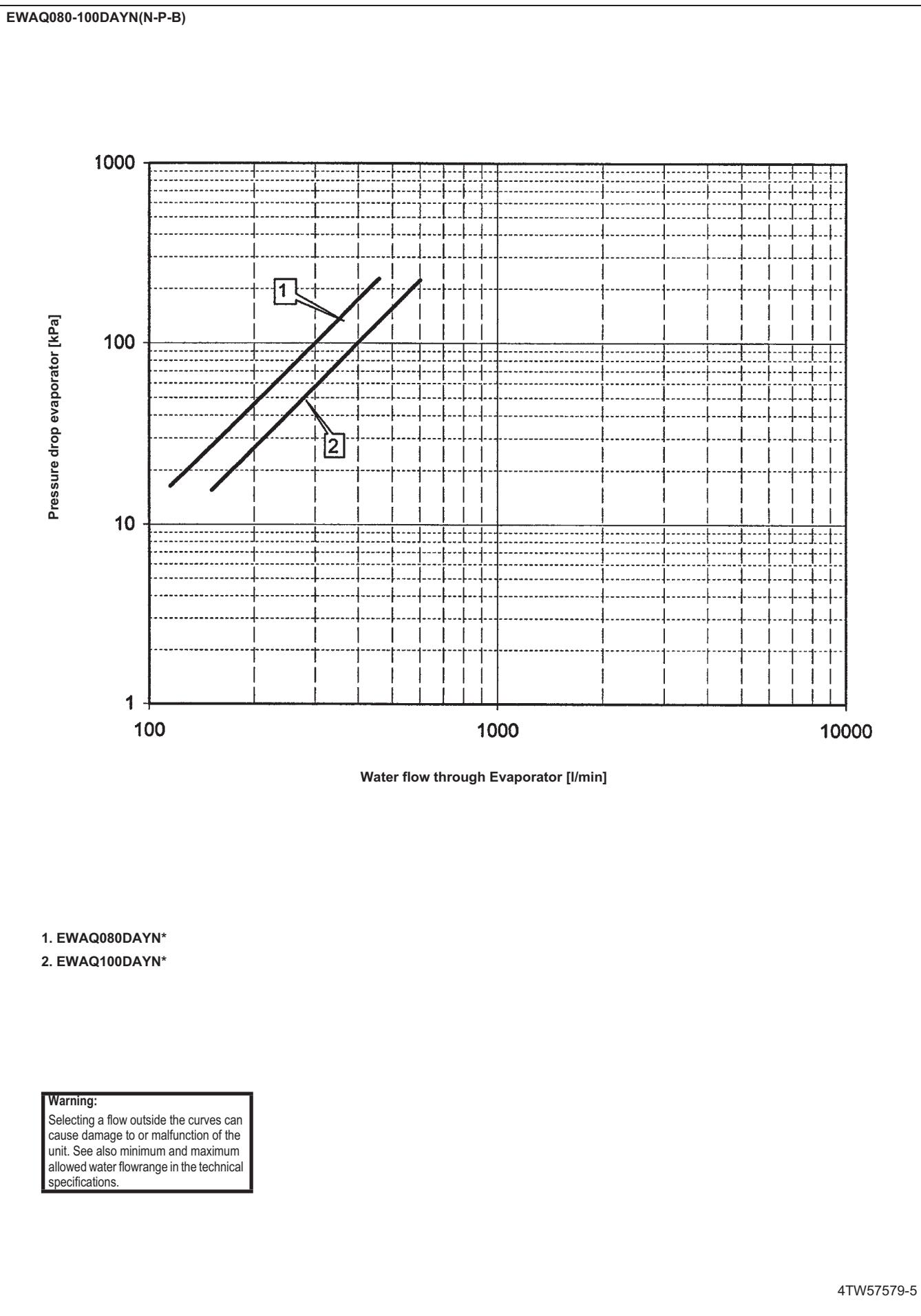
OPIF Option Inverter Fans EWAQ130-150

4TW57603-1A

11 Hydraulic performance

11 - 1 Water Pressure Drop Curve Evaporator

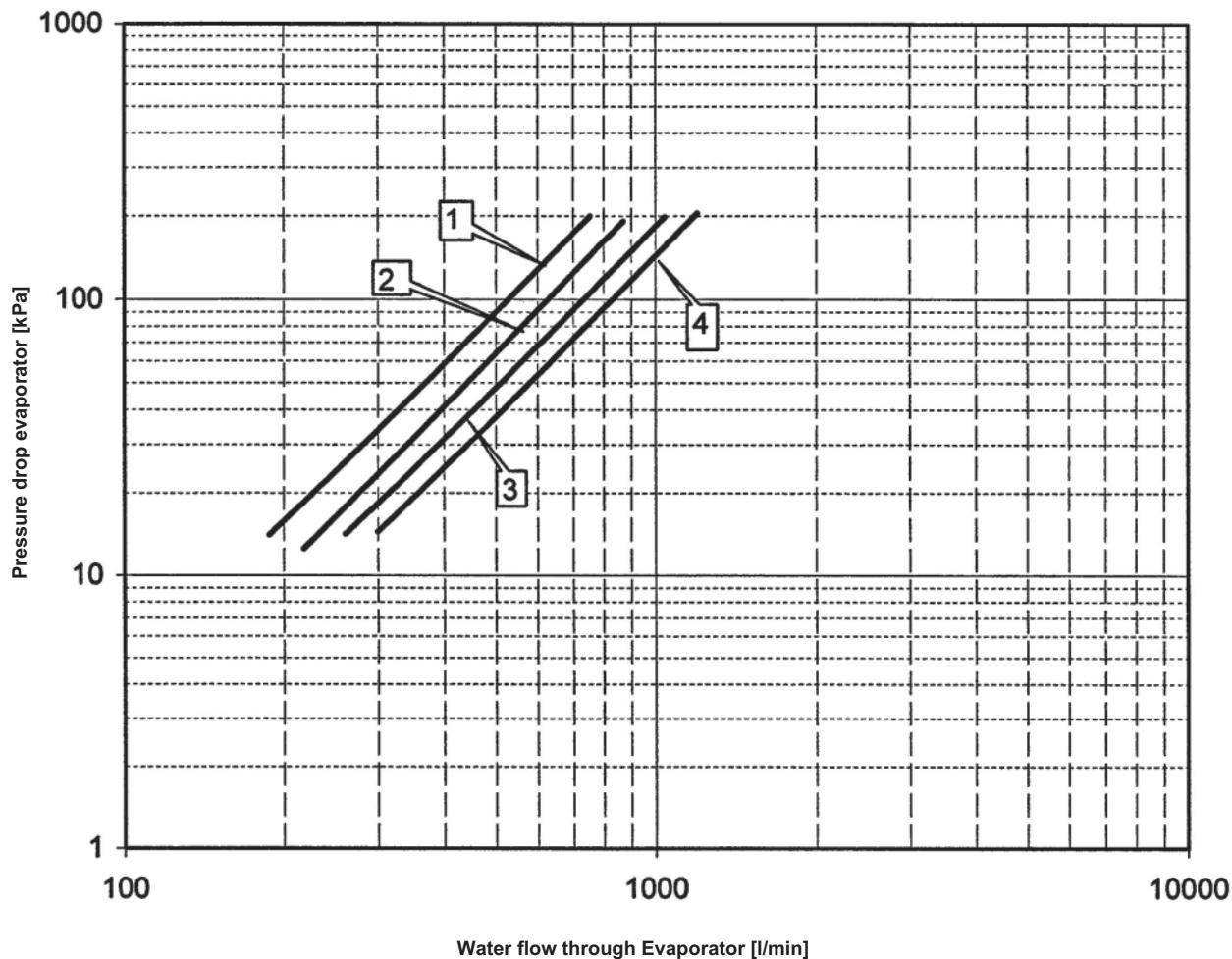
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11 Hydraulic performance

11 - 1 Water Pressure Drop Curve Evaporator

EWAQ130-210DAYN(N-P-B)

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1. EWAQ130DAYN*
2. EWAQ150DAYN*
3. EWAQ180DAYN*
4. EWAQ210DAYN*

Warning:

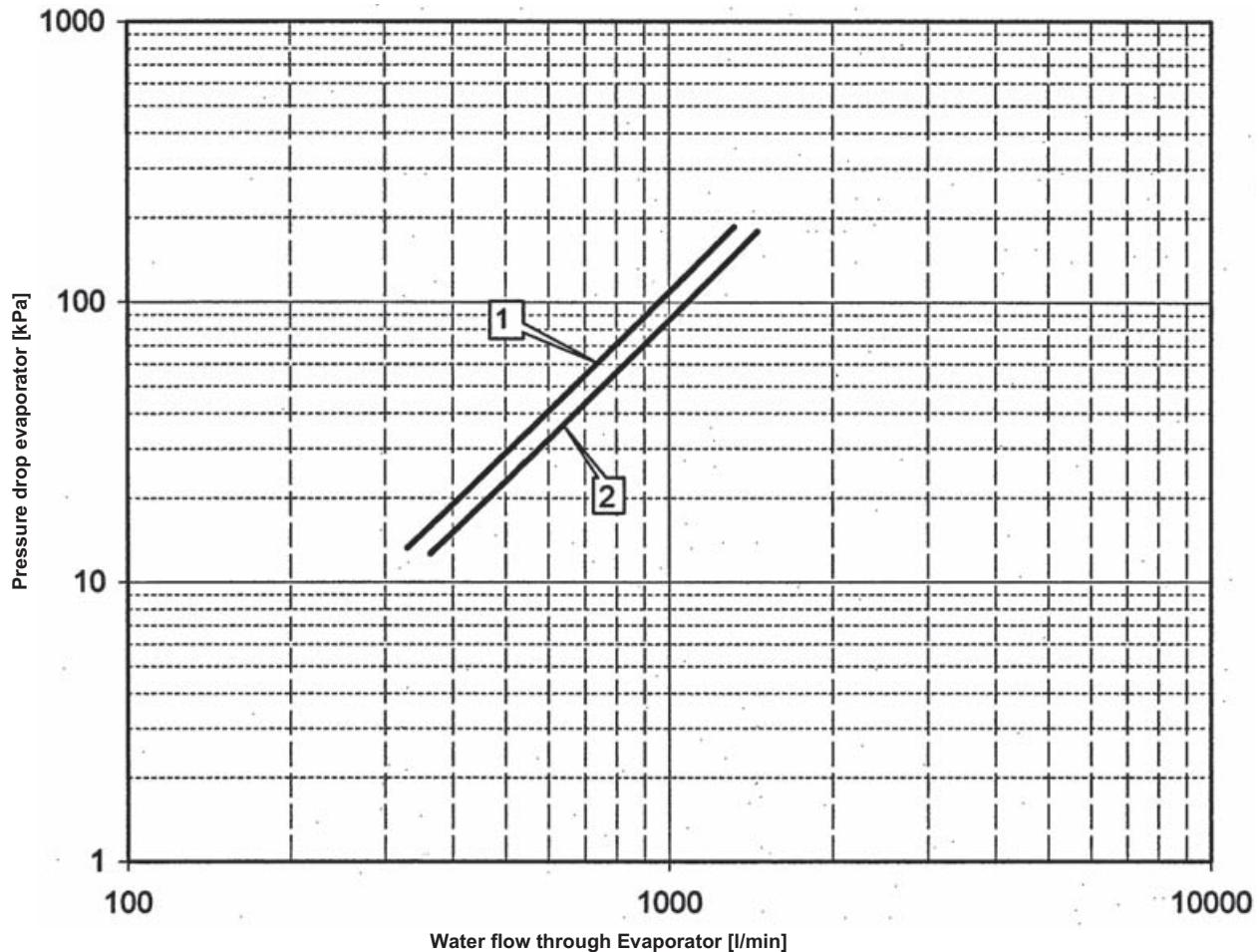
Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.

4TW57599-5

11 Hydraulic performance

11 - 1 Water Pressure Drop Curve Evaporator

EWAQ240-260DAYN(N-P-B)



1. EWAQ240DAYN*

2. EWAQ260DAYN*

Warning:

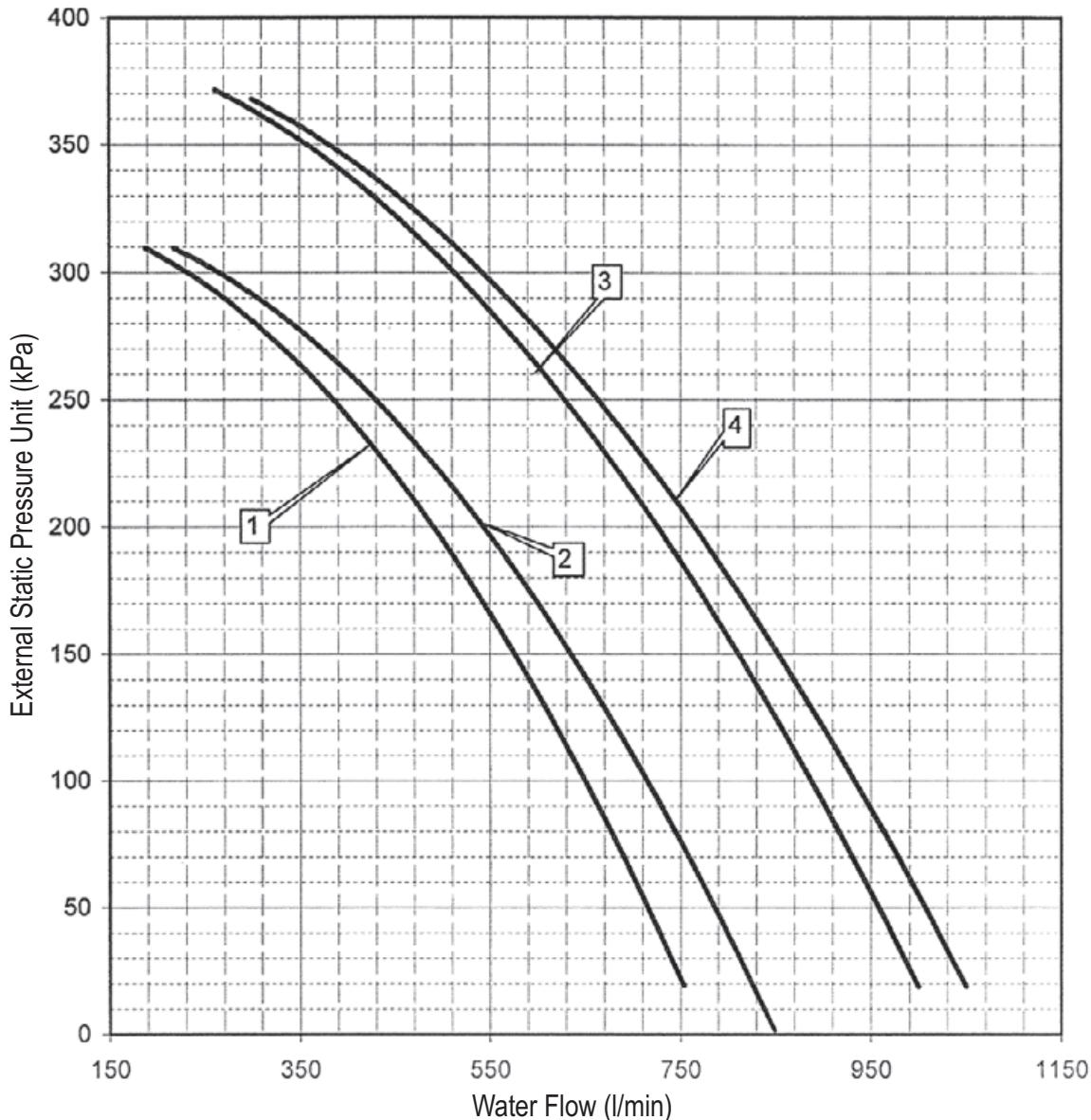
Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.

4TW57639-5

11 Hydraulic performance

11 - 2 Static Pressure Drop Unit

EWAQ-DAYN



4TW57599-9

NOTES

1. EWAQ130DAYN* + OPHP
2. EWAQ150DAYN* + OPHP
3. EWAQ180DAYN* + OPHP
4. EWAQ210DAYN* + OPHP

WARNING

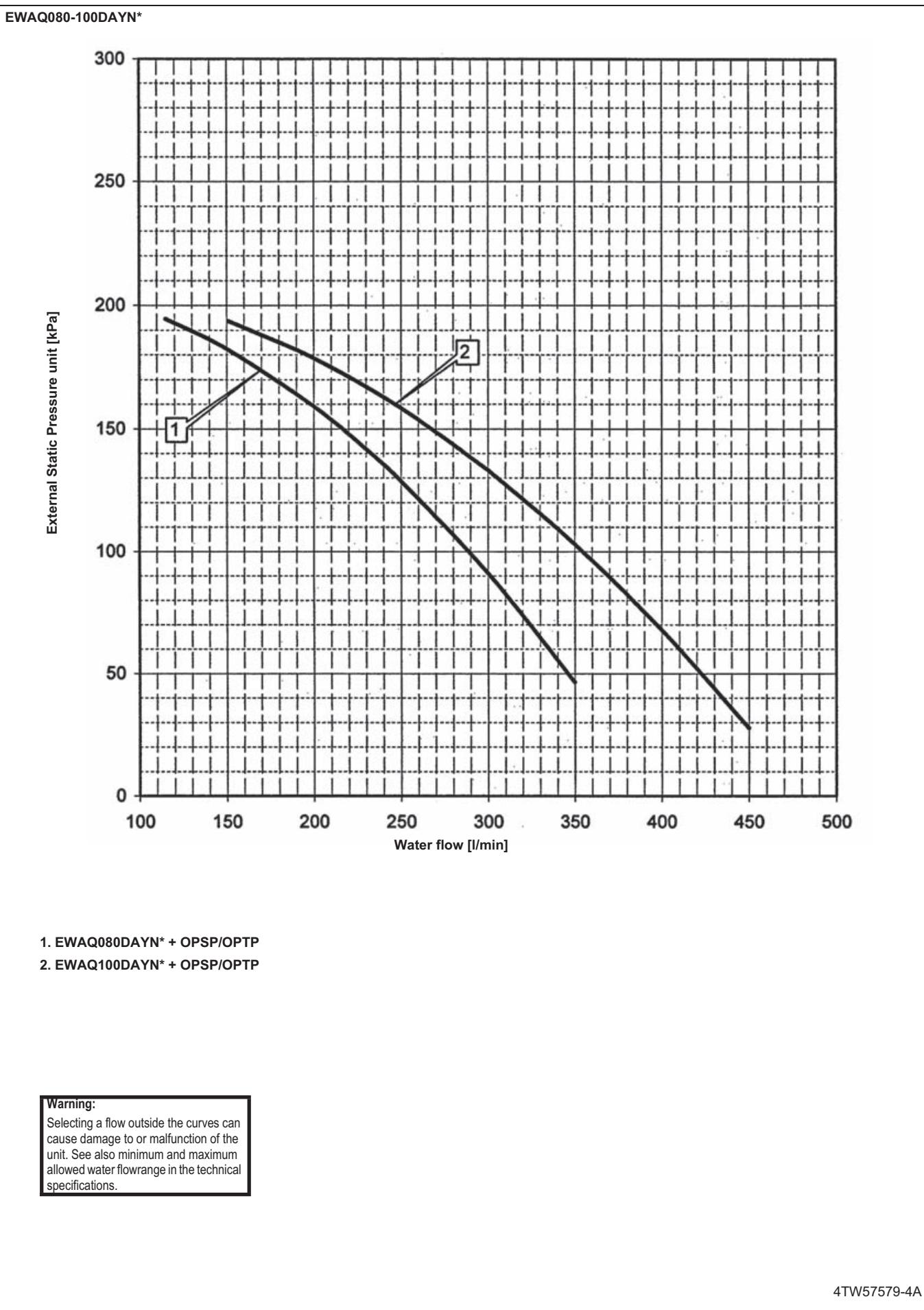
Selecting a flow outside the curves can cause damage to or malfunction of the unit.
See also minimum and maximum allowed water flowrange in the technical specifications.

11 Hydraulic performance

11 - 2 Static Pressure Drop Unit

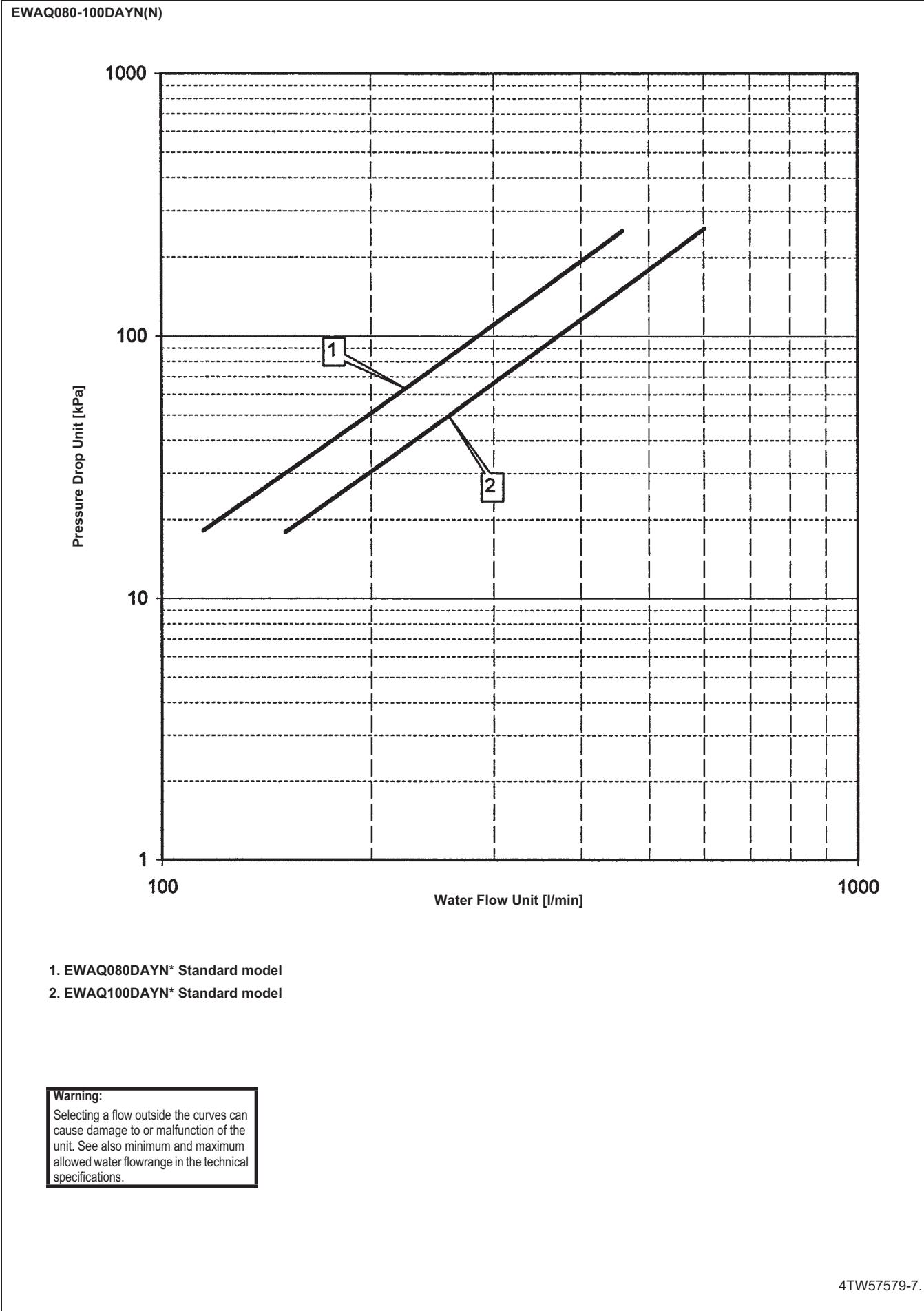
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11 Hydraulic performance

11 - 2 Static Pressure Drop Unit

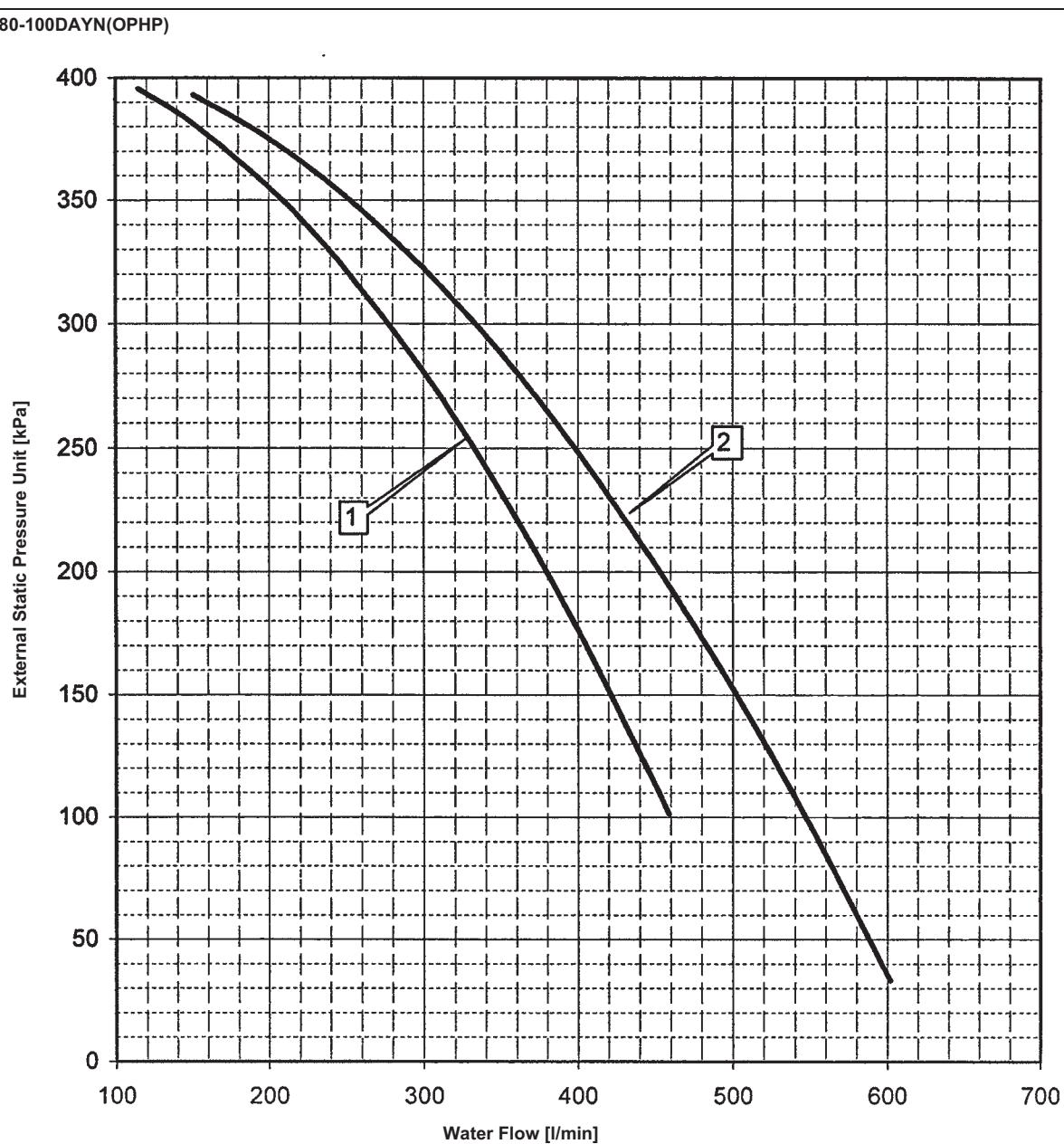


11 Hydraulic performance

11 - 2 Static Pressure Drop Unit

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**Warning:**

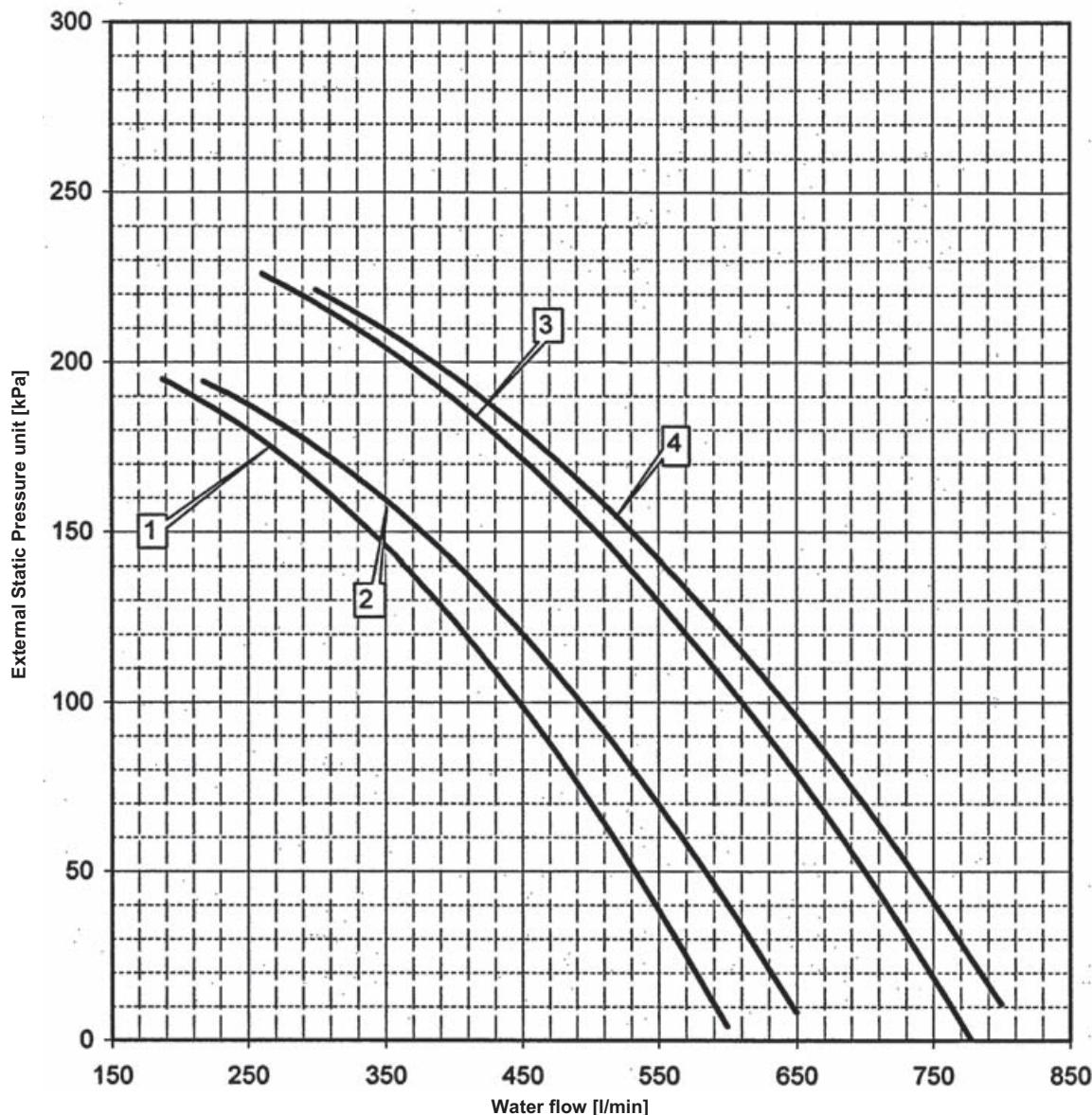
Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.

4TW57579-9.

11 Hydraulic performance

11 - 2 Static Pressure Drop Unit

EWAQ130-210DAYN*



1. EWAQ130DAYN* + OPSP/OPTP
2. EWAQ150DAYN* + OPSP/OPTP
3. EWAQ180DAYN* + OPSP/OPTP
4. EWAQ210DAYN* + OPSP/OPTP

Warning:

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.

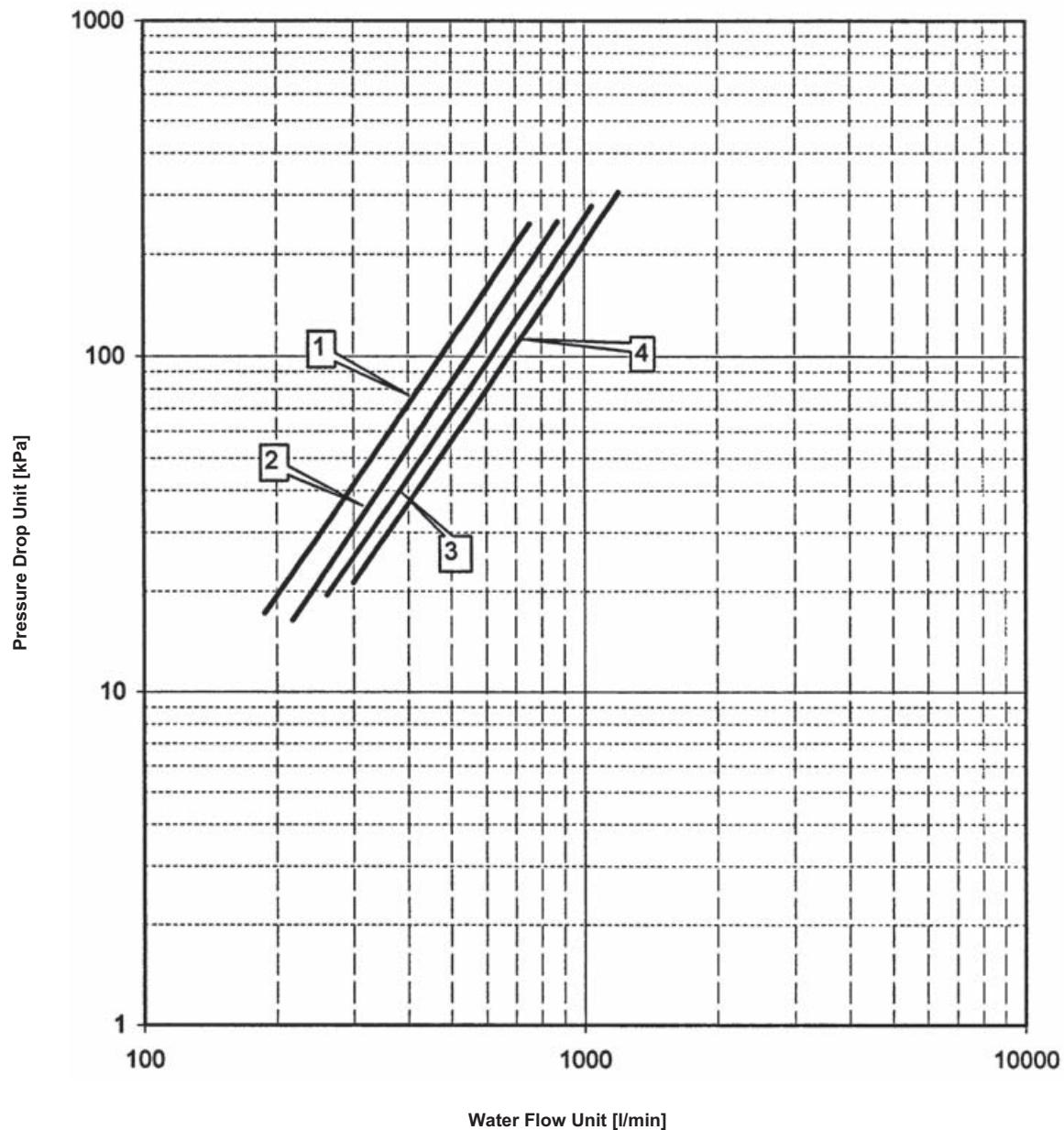
11 Hydraulic performance

11 - 2 Static Pressure Drop Unit

1

11

EWAQ130-210DAYN(N)



1. EWAQ130DAYN* Standard model
2. EWAQ150DAYN* Standard model
3. EWAQ180DAYN* Standard model
4. EWAQ210DAYN* Standard model

Warning:

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.

4TW57599-7

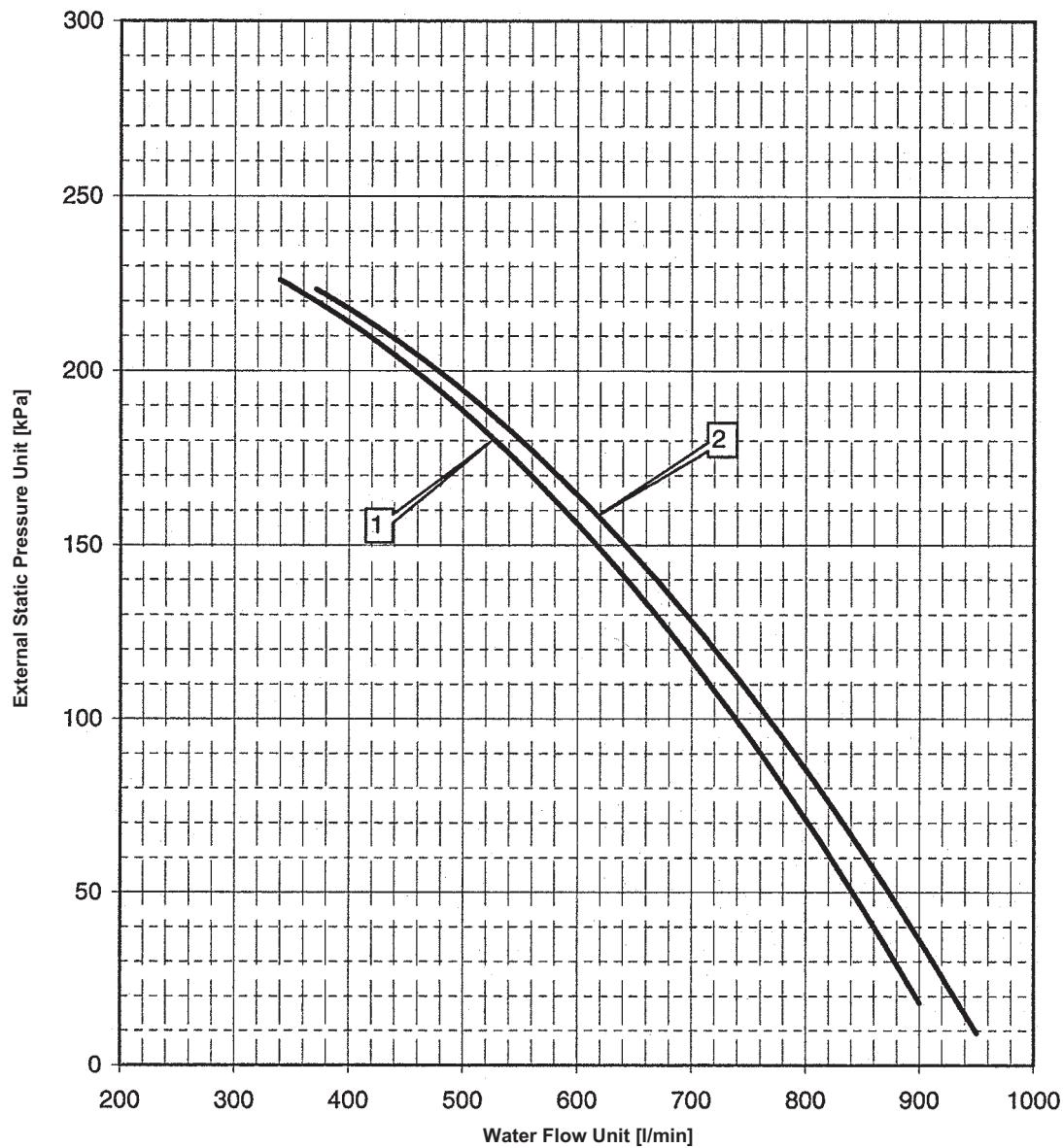
11 Hydraulic performance

11 - 2 Static Pressure Drop Unit

EWAQ240-260DAYN*

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1. EWAQ240DAYN* + OPSP/OPTP
2. EWAQ260DAYN* + OPSP/OPTP

Warning:

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.

4TW57639-4B

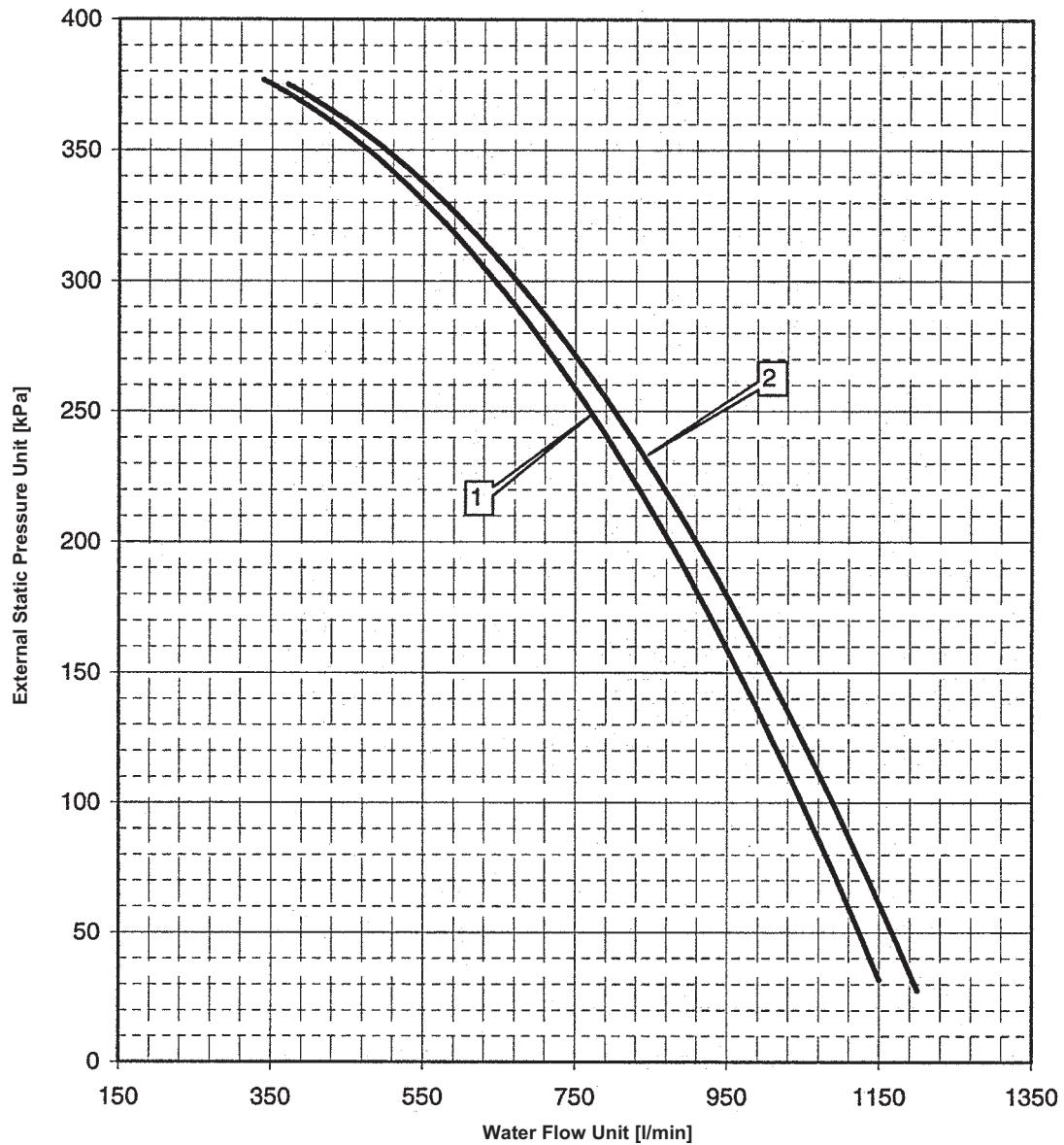
11 Hydraulic performance

11 - 2 Static Pressure Drop Unit

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EWAQ240-260DAYN(OPHP)



1. EWAQ240DAYN* + OPHP

2. EWAQ260DAYN* + OPHP

Warning:

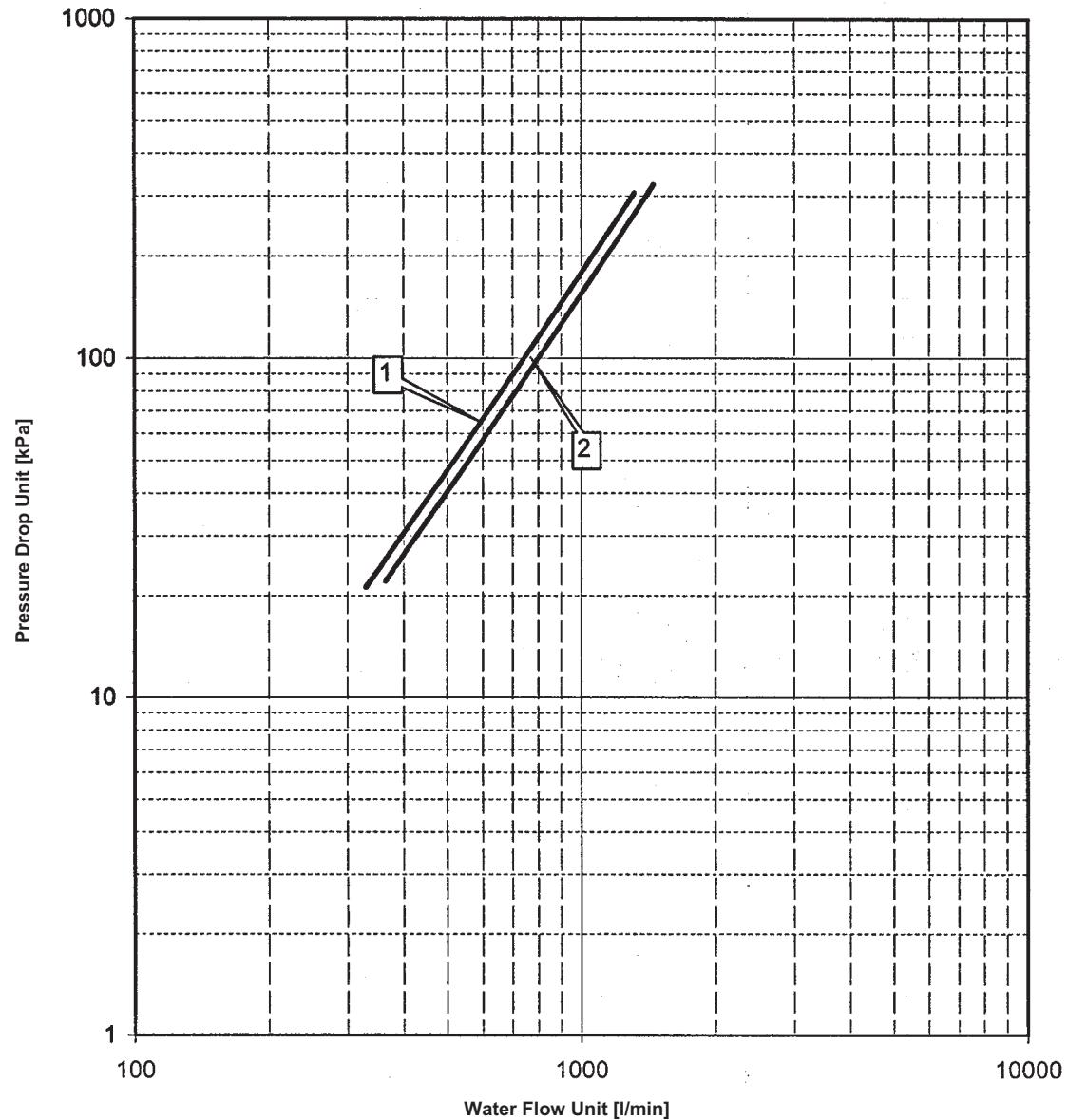
Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.

4TW57639-9A

11 Hydraulic performance

11 - 2 Static Pressure Drop Unit

EWAQ240-260DAYN(N)



1. EWAQ240DAYN* Standard model
2. EWAQ260DAYN* Standard model

Warning:

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.

4TW57639-7

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EWFQ-DAYN

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1 Features

- Wide capacity range: 80 to 250kW with 8 heat pump models
- Optimised for use with R-410A
- Multiple refrigerant circuits and multiple compressors per circuit
- Reliable and efficient scroll with high EER values
- Anti-corrosion treated aluminium coils
- Low operating sound level
- Easy 'plug and play' installation
- Unit dimensions allow easy transportation
- Fans protected against abnormal operation (4 to 8 fans depending on unit size)
- Safety valves in each circuit
- Electronic circuit breakers
- Electronic expansion valve
- True dual plate brazed plate heat exchanger
- Sight glass
- All hydraulics can be accessed easily from 3 sides (no surrounding cabinet)
- Separate switchbox for easy access
- Compressors and controls at unit side
- Increased reliability via 2 independent refrigerant circuits
- Non hermetic filter/dryer
- Daikin Pcaso controller with user friendly and powerful LCD interface

2
1



2 Specifications

| 2-1 Technical Specifications | | | EWYQ080DAYN | EWYQ100DAYN | EWYQ130DAYN | EWYQ150DAYN | EWYQ180DAYN | EWYQ210DAYN | EWYQ230DAYN | EWYQ250DAYN | | |
|------------------------------|------------------------------------|-----------------------|---------------------|--|-------------|----------------|-------------|------------------------------|--------------------|------------------------------|--------------------|--|
| Cooling capacity | Nom. | | kW | 77 (1) | 100 (1) | 136 (1) | 145 (1) | 183 (1) | 211 (1) | 231 (1) | 252 (1) | |
| Heating capacity | Nom. | | kW | 87.7 (4) | 114 (4) | 149 (4) | 165 (4) | 199 (4) | 225.00 (4) | 258 (4) | 281 (4) | |
| Capacity steps | | | % | 0-50-100 | | 0-25-50-75-100 | | 21/29-43/50/ 57-71/79-100 | 0-25-50- 75-100 | 22/28-44/50/ 56-72/78-100 | 0-25-50- 75-100 | |
| Power input | Cooling | Nom. | kW | 26.5 (2) | 36.2 (2) | 47.6 (2) | 55.7 (2) | 63.8 (2) | 75.3 (2) | 82.2 (2) | 93.5 (2) | |
| | Heating | Nom. | kW | 30.0 (5) | 38.1 (5) | 49.6 (5) | 58.8 (5) | 68.0 (5) | 77.0 (5) | 84.2 (5) | 96.6 (5) | |
| EER | | | | 2.91 | 2.76 | 2.86 | 2.60 | 2.87 | 2.80 | 2.81 | 2.70 | |
| ESEER | | | | 4.00 | 3.81 | 4.31 | 4.07 | 4.33 | 4.23 | 4.20 | 4.00 | |
| COP | | | | 2.92 | 2.99 | 3.00 | 2.81 | 2.93 | 2.92 | 3.06 | 2.91 | |
| Casing | Material | | | Polyester painted galvanised steel plate | | | | | | | | |
| Dimensions | Unit | Height | mm | 2,311 | | | | | | | | |
| | | Width | mm | 2,000 | | | | | | | | |
| | | Depth | mm | 2,566 | | 2,631 | | 3,081 | | 4,850 | | |
| Weight | Unit | | kg | 1,400 | 1,450 | 1,550 | 1,600 | 1,850 | 1,900 | 3,200 | 3,300 | |
| | Operation weight | | kg | 1,415 | 1,465 | 1,567 | 1,619 | 1,875 | 1,927 | 3,239 | 3,342 | |
| | Packed unit | | kg | 1,450 | 1,500 | 1,600 | 1,650 | 1,900 | 1,950 | 3,250 | 3,350 | |
| Water heat exchanger | Type | | | Brazed plate, one per unit | | | | | | | | |
| | Filter | Type | | Strainer galvanized | | | | | | | | |
| | | Diameter perforations | | 1 | | | | | | | | |
| | Minimum water volume in the system | | l | 393 (3) | 511 (3) | 334 (3) | 370 (3) | 446 (3) | 504 (3) | 578 (3) | 629 (3) | |
| | Water flow rate | Min. | l/min | 110 | 143 | 195 | 208 | 262 | 302 | 331 | 361 | |
| | | Max. | l/min | 503 | 654 | 854 | 946 | 1,141 | 1,290 | 1,479 | 1,611 | |
| | Nominal water flow | Cooling | l/min | 221 | 287 | 390 | 416 | 525 | 605 | 662 | 722 | |
| | | Heating | l/min | 251 | 327 | 427 | 473 | 570 | 645 | 740 | 806 | |
| | Nominal water pressure drop | Cooling | kPa | 36 | | 43 | 38 | 41 | 44 | 39 | 38 | |
| | | Heating | kPa | 47 | 46 | 51 | 49 | 48 | 50 | 48 | 46 | |
| | Insulation material | | | Foamed synthetic elastomer | | | | | | | | |
| | Model | Type | | PT120 | | DV47HP | | DV58HP | | | | |
| | | Quantity | | 1 | | | | | | | | |
| Air heat exchanger | Type | | | Cross fin coil/Hi-Xss tubes and poly ethylene coated waffle fins | | | | | | | | |
| | Rows | Quantity | | 2 | | 3 | | | | | | |
| | Stages | Quantity | | 56 | | 48 | 56 | | 48 | | | |
| | Fin pitch | | mm | 1.8 | | | | | | | | |
| | Face area | | m ² | 2.46 | | 2.11 | 2.46 | 3.02 | | 2.11 | | |
| | Coils | Quantity | | 4 | | | | | | | | |
| Hydraulic components | Unit water volume | | l | 15 | | 17 | 19 | 25 | 27 | 39 | 42 | |
| | Nominal water pressure drop unit | Cooling | kPa | 42 | 43 | 55 | 51 | 61 | 70 | | 73 | |
| | | Heating | kPa | 53 | 56 | 65 | 66 | 72 | 79 | 86 | 91 | |
| Fan | Quantity | | | 4 | | | | 6 | | 8 | | |
| | Air flow rate | Nom. | m ³ /min | 780 | | 800 | 860 | 1,290 | | 1,600 | | |
| | Discharge direction | | | Vertical | | | | | | | | |
| | Speed | | rpm | 880 | | 900 | 970 | | 900 | | | |
| Fan motor | Output | | W | 500 | | 600 | 700 | | 600 | | | |
| | Quantity | | | 4 | | | | 6 | | 8 | | |
| | Drive | | | Direct drive | | | | | | | | |
| Sound power level | Cooling | Nom. | dBA | 86 | | 88 | 89 | 90 | | 91 | | |
| Compressor | Type | | | Scroll compressor | | | | | | | | |
| | Quantity | | | 2 | | 4 | | 2 | 4 | 2 | 4 | |
| | Model | | | SJ180 | SJ240 | SJ161 | SJ180 | | SJ240 | | SJ300 | |
| | Speed | | rpm | 2,900 | | | | | | | | |
| | Oil | Charged volume | l | 6.7 | | 3.3 | 6.7 | | 6.7 | | | |
| Compressor 2 | Quantity | | | - | | | | 2 | - | 2 | - | |
| | Model | | | - | | | | SJ240 | - | SJ300 | - | |
| | Speed | | rpm | - | | | | 2,900 | - | 2,900 | - | |
| | Oil | Charged volume | l | - | | | | 6.7 | - | 6.7 | - | |

2 Specifications

| 2-1 Technical Specifications | | | | EWYQ080DAYN | EWYQ100DAYN | EWYQ130DAYN | EWYQ150DAYN | EWYQ180DAYN | EWYQ210DAYN | EWYQ230DAYN | EWYQ250DAYN | | | | | | | |
|------------------------------|-------------------------------------|----------------------------|---|-------------|--|--|-------------|--|-------------|-------------|-------------|--|--|--|--|--|--|--|
| Operation range | Water side | Cooling | Min. | °CDB | -10 | | | | | | | | | | | | | |
| | | | Max. | °CDB | 25 | | | | | | | | | | | | | |
| | | Heating | Min. | °CDB | 25 | | | | | | | | | | | | | |
| | | | Max. | °CDB | 50 | | | | | | | | | | | | | |
| | Air side | Cooling | Min. | °CDB | -15 | | | | | | | | | | | | | |
| | | | Max. | °CDB | 43 | | | | | | | | | | | | | |
| | | Heating | Min. | °CDB | -10 | | | | | | | | | | | | | |
| | | | Max. | °CDB | 21 | | | | | | | | | | | | | |
| Refrigerant | Type | R-410A | | | | | | | | | | | | | | | | |
| | Control | Electronic expansion valve | | | | | | | | | | | | | | | | |
| | Circuits | Quantity | 1 | | 2 | | | | | | | | | | | | | |
| Refrigerant circuit | Charge | kg | 33 | 37 | 22 | 32 | 39 | | | | | | | | | | | |
| Refrigerant circuit 2 | Charge | kg | - | | 22 | 32 | 39 | | | | | | | | | | | |
| Refrigerant oil | Type | FVC68D | | | | | | | | | | | | | | | | |
| Piping connections | Water heat exchanger inlet / outlet | 3" OD | | | | | | 3" | | | | | | | | | | |
| | Water heat exchanger drain | 1/2"G | | | | | | | | | | | | | | | | |
| Safety devices | Item | 01 | Flowswitch | | Overspeed relays for compressors and fans | High pressure switch | | | | | | | | | | | | |
| | | 02 | Reverse phase protector | | High pressure switch | Pressure relief valve | | | | | | | | | | | | |
| | | 03 | High pressure switch | | Pressure relief valve | Low pressure protection | | Low pressure safety | | | | | | | | | | |
| | | 04 | Pressure relief valve | | Low pressure safety | Freeze up protection | | | | | | | | | | | | |
| | | 05 | Low pressure safety | | Freeze up protection | Flowswitch | | | | | | | | | | | | |
| | | 06 | Freeze up protection | | Flowswitch | Discharge temperature protector | | | | | | | | | | | | |
| | | 07 | Electronic protection module compressors | | Discharge temperature protector | Reverse phase protector | | | | | | | | | | | | |
| | | 08 | Overcurrent relays for compressors and fans | | Reverse phase protector | Electronic protection module compressors (only for SJ180, SJ240) | | Electronic protection module compressors | | | | | | | | | | |
| | | 09 | Discharge temperature protector | | Electronic protection module compressors (only for SJ180, SJ240) | Overcurrent relays for compressors and fans | | | | | | | | | | | | |

2 Specifications

2

| 2-2 Electrical Specifications | | | EWYQ080DAYN | EWYQ100DAYN | EWYQ130DAYN | EWYQ150DAYN | EWYQ180DAYN | EWYQ210DAYN | EWYQ230DAYN | EWYQ250DAYN | | |
|-------------------------------|---|----------------|-------------|-----------------|------------------|-------------|-------------|----------------|-------------|-------------|-----|--|
| Compressor | Starting current | A | 195 | 215 | 158 | 195 | 215 | 215 | 215 | 260 | | |
| | Nominal running current (RLA) | A | 25 | 31 | 19 | 25 | 31 | 31 | 31 | 40 | | |
| | Maximum running current | A | 39 | 51 | 35 | 39 | 51 | 51 | 51 | 65 | | |
| | Starting method | | | | Direct on line | | | | | | | |
| | Crankcase heater | W | 75 | 65 | 75 | 75 | 75 | 75 | 75 | 75 | | |
| Compressor 2 | Starting current | A | - | - | - | 215 | - | 260 | - | - | | |
| | Nominal running current (RLA) | A | - | - | - | 31 | - | 40 | - | - | | |
| | Maximum running current | A | - | - | - | 51 | - | 65 | - | - | | |
| | Starting method | | | | - Direct on line | | - | Direct on line | - | - | | |
| | Crankcase heater | W | - | - | - | 75 | - | 75 | - | - | | |
| Power supply | Phase | 3~ | | | | | | | | | | |
| | Frequency | Hz | 50 | | | | | | | | | |
| | Voltage | V | 400 | | | | | | | | | |
| | Voltage range | Min. | % | -10 | | | | | | | | |
| Unit | Starting current | A | 201 | 221 | 161 | 199 | 221 | 221 | 266 | 266 | | |
| | Maximum starting current | A | 240 | 272 | 269 | 320 | 357 | 368 | 440 | 468 | | |
| | Current | Zmax | List | No requirements | | | | | | | | |
| | Nominal running current (RLA) | Cooling | A | 60 | 72 | 88 | 113 | 131 | 144 | 162.0 | 181 | |
| | Maximum running current | A | 96 | 120 | 160 | 177 | 209 | 233 | 262 | 290 | | |
| | Recommended fuses according to IEC standard 269-2 | | | 3 x 125gL | 3 x 160gL | 3 x 200gL | 3 x 250gL | 3 x 300gL | 3 x 355gL | | | |
| Fans | Starting method | Direct on line | | | | | | | | | | |
| | Maximum running current | A | 1.5 | 1.4 | 1.4 | 2.1 | 2.1 | 2.1 | 2.1 | 1.6 | | |
| Control circuit | Phase | 1~ | | | | | | | | | | |
| | Frequency | Hz | 50 | | | | | | | | | |
| | Voltage | V | 230 (6) | | | | | | | | | |
| | Crankcase heater (E1/2HC) | W | 2x75 | | 4x65 | 4x75 | | | | | | |

Notes

- (1) Cooling: entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; ambient air temp. 35°C; standard: Eurovent
- (2) Cooling: entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; ambient air temp. 35°C; standard: Eurovent; Power input compressors + fans + electrical circuit
- (3) Minimum required water volume for standard thermostat settings and at nominal conditions.
- (4) Heating: entering condenser water temp. 40°C; leaving condenser water temp. 45°C; ambient air temp. 7°CDB, 6°CWB; standard: Eurovent
- (5) Heating: entering condenser water temp. 40°C; leaving condenser water temp. 45°C; ambient air temp. 7°CDB, 6°CWB (= power input compressors + fans + electrical circuit); standard: Eurovent
- (6) Supplied by factory installed transformers
- (7) Initial starting current = maximum running current 4 fans (1 circuit) + starting current 1 compressor
- (8) Maximum starting current = maximum running current 4 fans + maximum running current 3 compressors + starting current 1 compressor
- (9) See separate drawing for operation range
- (10) Control circuit voltage: AC (supplied by factory installed transformers)
- (11) Initial starting current = maximum running current 3 fans (1 circuit) + starting current 1 compressor
- (12) Maximum starting current = maximum running current 6 fans + maximum running current 3 compressors + starting current 1 compressor
- (13) Control circuit voltage: 24AC (supplied by factory installed transformers)
- (14) Maximum starting current = maximum running current 8 fans + maximum running current 3 compressors + starting current 1 compressor

3 Options

3 - 1 Options

2

3

EWYQ080-100DAYN

| TECHNICAL SPECIFICATIONS OPTIONS | | | | | |
|----------------------------------|----------------------------------|-------------|----------------------------|-------------|--|
| OPSP | | EWYQ080DAYN | | EWYQ100DAYN | |
| Units | | | | | |
| Weight | Additional machine weight | kg | 250 | | |
| | Additional operation weight | kg | 268 | | |
| | Additional gross weight | kg | 250 | | |
| Pump | Type | | Single stage in line pumps | | |
| | Quantity | | 1 | | |
| | Manufacturer | | Grundfos | | |
| | Model | | TP50-240/2 | | |
| | Efficiency | | 85.9% | | |
| | Efficiency level | | IE3 | | |
| | Rated speed | rpm | 2890-2910 | | |
| | Nominal static head unit cooling | kPa | 173 | 154 | |
| Hydraulic components | Buffertank | l | - | | |
| | Additional unit water volume | l | 18 | | |
| | Expansion vessel | l | 35 | | |
| | Pre-charge pressure exp. vessel | bar | 1.5 | | |
| | Safety valve | bar | 3 | | |
| OPHP | EWYQ080DAYN | | EWYQ100DAYN | | |
| Units | | | | | |
| Pump | Type | | Single stage in line pumps | | |
| | Quantity | | 1 | | |
| | Manufacturer | | Grundfos | | |
| | Model | | TPD50-240/2 | | |
| | Efficiency | | 89.2% | | |
| | Efficiency level | | IE3 | | |
| | Rated speed | rpm | 2920-2940 | | |
| | Nominal static head unit cooling | kPa | 365 | 348 | |
| OPTP | EWYQ080DAYN | | EWYQ100DAYN | | |
| Units | | | | | |
| Pump | Type | | Single stage in line pumps | | |
| | Quantity | | 1 | | |
| | Manufacturer | | Grundfos | | |
| | Model | | TPD50-240/2 | | |
| | Efficiency | | 85.9% | | |
| | Efficiency level | | IE3 | | |
| | Rated speed | rpm | 2890-2910 | | |
| | Nominal static head unit cooling | kPa | See OPSP | | |

3TW57651-1C

EWYQ080-100DAYN

| ELECTRICAL SPECIFICATIONS OPTIONS | | | | | |
|-----------------------------------|--------------------------------------|-------------|----------------|-------------|--|
| OPSP / OPTP | | EWYQ080DAYN | | EWYQ100DAYN | |
| Units | | | | | |
| Std pump | Starting method | | Direct on-line | | |
| | Rated power output | kW | 2.2 | | |
| | Maximum running current | A | 4.45 | | |
| | Starting current | A | 42 | | |
| OPHP | EWYQ080DAYN | | EWYQ100DAYN | | |
| Units | | | | | |
| High ESP pump | Starting method | | Direct on-line | | |
| | Rated power output | kW | 5.5 | | |
| | Maximum running current | A | 11.2 | | |
| | Starting current | A | 131 | | |
| OP10 | EWYQ080DAYN | | EWYQ100DAYN | | |
| Units | | | | | |
| Heater tape | Supply voltage | V | 230+/-10% | | |
| | Recommended fuses | A | 2x10 | | |
| | Power standard model | W | 1x300 | | |
| | Power model with pump | W | 2x300 | | |
| | Power model with pump and buffertank | W | 2x300 + 1x150 | | |

3TW57651-1C

3 Options

3 - 1 Options

EWYQ130-150DAYN

| TECHNICAL SPECIFICATIONS OPTIONS | | | | | |
|----------------------------------|------------------------------------|----------------------------|----------------------------|----------------------------|--|
| OPSP | | EWYQ130DAYN | | EWYQ150DAYN | |
| Weight | Additional machine weight | kg | 250 | | |
| | Additional operation weight | kg | 286 | | |
| | Additional gross weight | kg | 250 | | |
| Pump | Type | | Single stage in line pumps | | |
| | Quantity | | 1 | | |
| | Manufacturer | | Grundfos | | |
| | Model | | TP65-230/2 | | |
| | Efficiency | | 87.1% | | |
| | Efficiency level | | IE3 | | |
| | Rated speed | rpm | 2900-2920 | | |
| Hydraulic components | Nominal static height unit cooling | kPa | 141 | | |
| | Buffertank | l | - | | |
| | Additional unit water volume | l | 36 | | |
| | Expansion vessel | l | 35 | | |
| | Pre-charge pressure exp. vessel | bar | 1.5 | | |
| OPHP | Safety valve | bar | 3 | | |
| | | | | | |
| OPSP + OPBT | | OPSP + OPBT | | OPSP + OPBT | |
| EWYQ130DAYN | | EWYQ150DAYN | | EWYQ150DAYN | |
| 300 | | 300 | | 300 | |
| 526 | | 526 | | 526 | |
| 300 | | 300 | | 300 | |
| Single stage in line pumps | | Single stage in line pumps | | Single stage in line pumps | |
| 1 | | 1 | | 1 | |
| Grundfos | | Grundfos | | Grundfos | |
| TP65-230/2 | | TP65-230/2 | | TP65-230/2 | |
| 87.1% | | 87.1% | | 87.1% | |
| IE3 | | IE3 | | IE3 | |
| 2900-2920 | | 2900-2920 | | 2900-2920 | |
| 141 | | 141 | | 141 | |
| 190 | | 190 | | 190 | |
| 226 | | 226 | | 226 | |
| 35 | | 35 | | 35 | |
| 1.5 | | 1.5 | | 1.5 | |
| 3 | | 3 | | 3 | |
| OPTP | | OPTP | | OPTP | |
| EWYQ130DAYN | | EWYQ150DAYN | | EWYQ150DAYN | |
| Single stage in line pumps | | Single stage in line pumps | | Single stage in line pumps | |
| 1 | | 1 | | 1 | |
| Grundfos | | Grundfos | | Grundfos | |
| TPD65-230/2 | | TPD65-230/2 | | TPD65-230/2 | |
| 87.1% | | 87.1% | | 87.1% | |
| IE3 | | IE3 | | IE3 | |
| 2900-2920 | | 2900-2920 | | 2900-2920 | |
| See OPSP | | See OPSP | | See OPSP | |

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3TW57671-1D

EWYQ130-150DAYN

| ELECTRICAL SPECIFICATIONS OPTIONS | | | | | |
|-----------------------------------|--------------------------------------|-------------|----------------|-------------|--|
| OPSP / OPTP | | EWYQ130DAYN | | EWYQ150DAYN | |
| Units | Starting method | | Direct on-line | | |
| | Rated power output | kW | 3 | | |
| | Maximum running current | A | 6.3 | | |
| | Starting current | A | 58 | | |
| OPHP | Starting method | | Direct on-line | | |
| | Rated power output | kW | 5.5 | | |
| | Maximum running current | A | 11.2 | | |
| | Starting current | A | 131 | | |
| OP10 | Supply voltage | V | 230+/-10% | | |
| | Recommended fuses | A | 2x10 | | |
| | Power standard model | W | 1x300 | | |
| | Power model with pump | W | 2x300 | | |
| | Power model with pump and buffertank | W | 2x300 + 1x150 | | |

3TW57671-1D

3 Options

3 - 1 Options

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EWYQ180-210DAYN

| TECHNICAL SPECIFICATIONS OPTIONS | | | | | |
|----------------------------------|----------------------------------|-------------|----------------------------|----------------------------|-----|
| OPSP | | EWYQ180DAYN | | EWYQ210DAYN | |
| Units | | | | | |
| Weight | Additional machine weight | kg | 250 | OPSP + OPBT | 300 |
| | Additional operation weight | kg | 286 | | 526 |
| | Additional gross weight | kg | 250 | | 300 |
| Pump | Type | | Single stage in line pumps | Single stage in line pumps | |
| | Quantity | | 1 | 1 | |
| | Manufacturer | | Grundfos | Grundfos | |
| | Model | | TP65-260/2 | TP65-260/2 | |
| | Efficiency | | 88.1% | 88.1% | |
| | Efficiency level | | IE3 | IE3 | |
| | Rated speed | rpm | 2920-2940 | 2920-2940 | |
| | Nominal static head unit cooling | kPa | 152 | 128 | |
| Hydraulic components | Buffertank | l | - | 152 | |
| | Additional unit water volume | l | 36 | 190 | |
| | Expansion vessel | l | 35 | 226 | |
| | Pre-charge pressure exp. vessel | bar | 1.5 | 35 | |
| | Safety valve | bar | 3 | 1.5 | |
| OPHP | | | | | |
| Units | | EWYQ180DAYN | | EWYQ210DAYN | |
| Pump | Type | | Single stage in line pumps | Single stage in line pumps | |
| | Quantity | | 1 | 1 | |
| | Manufacturer | | Grundfos | Grundfos | |
| | Model | | TP65-410/2 | TPD65-260/2 | |
| | Efficiency | | 90.4% | 88.1% | |
| | Efficiency level | | IE3 | IE3 | |
| | Rated speed | rpm | 2910-2920 | 2920-2940 | |
| | Nominal static head unit cooling | kPa | 306 | 286 | |
| OPTP | | | | | |
| Units | | EWYQ180DAYN | | EWYQ210DAYN | |
| See OPSP | | | | | |

3TW57691-1D

EWYQ180-210DAYN

| ELECTRICAL SPECIFICATIONS OPTIONS | | | | | | |
|-----------------------------------|--------------------------------------|-------------|----------------|-------------|--|--|
| OPSP / OPTP | | EWYQ180DAYN | | EWYQ210DAYN | | |
| Units | | | | | | |
| Std pump | Starting method | | Direct on-line | | | |
| | Rated power output | kW | 4 | | | |
| | Maximum running current | A | 8 | | | |
| | Starting current | A | 98 | | | |
| OPHP | | | | | | |
| Units | | EWYQ180DAYN | | EWYQ210DAYN | | |
| High ESP pump | Starting method | | Direct on-line | | | |
| | Rated power output | kW | 7.5 | | | |
| | Maximum running current | A | 15.2 | | | |
| | Starting current | A | 169 | | | |
| OP10 | | | | | | |
| Units | | EWYQ180DAYN | | EWYQ210DAYN | | |
| Heater tape | Supply voltage | V | 230+/-10% | | | |
| | Recommended fuses | A | 2x10 | | | |
| | Power standard model | W | 1x300 | | | |
| | Power model with pump | W | 2x300 | | | |
| | Power model with pump and buffertank | W | 2x300 + 1x150 | | | |

3TW57691-1D

3 Options

3 - 1 Options

EWYQ230-250DAYN

| TECHNICAL SPECIFICATIONS OPTIONS | | | | | |
|----------------------------------|------------------------------------|-------------|----------------------------|-------------|----------|
| OPSP | | EWYQ230DAYN | | EWYQ250DAYN | |
| Weight | Additional machine weight | kg | 250 | | |
| | Additional operation weight | kg | 271 | | |
| | Additional gross weight | kg | 250 | | |
| Pump | Type | | Single stage in line pumps | | |
| | Quantity | | 1 | | |
| | Manufacturer | | Grundfos | | |
| | Model | | TP65-260/2 | | |
| | Efficiency | | 88.1% | | |
| | Efficiency level | | IE3 | | |
| | Rated speed | rpm | 2920-2940 | | |
| Hydraulic components | Nominal static height unit cooling | kPa | 143 | 127 | |
| | Buffertank | l | - | | |
| | Additional unit water volume | l | 21 | | |
| | Expansion vessel | l | 50 | | |
| | Pre-charge pressure exp. vessel | bar | 1.5 | | |
| OPHP | Safety valve | bar | 3 | | |
| | Type | | Single stage in line pumps | | |
| | Quantity | | 1 | | |
| | Manufacturer | | Grundfos | | |
| | Model | | TPD65-410/2 | | |
| | Efficiency | | 90.4% | | |
| | Efficiency level | | IE3 | | |
| OPTP | Rated speed | rpm | 2910-2920 | | |
| | Nominal static height unit cooling | kPa | 303 | 290 | |
| | | | | | See OPSP |

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3TW57711-1D

EWYQ230-250DAYN

| ELECTRICAL SPECIFICATIONS OPTIONS | | | | | |
|-----------------------------------|--------------------------------------|-------------|---------------|----------------|--|
| OPSP / OPTP | | EWYQ230DAYN | | EWYQ250DAYN | |
| Std pump | Starting method | | | Direct on-line | |
| | Rated power output | kW | 4 | | |
| | Maximum running current | A | 8 | | |
| | Starting current | A | 98 | | |
| OPHP | Starting method | | | Direct on-line | |
| | Rated power output | kW | 7.5 | | |
| | Maximum running current | A | 15.2 | | |
| | Starting current | A | 169 | | |
| OP10 | Supply voltage | V | 230+/-10% | | |
| | Recommended fuses | A | 2x10 | | |
| | Power standard model | W | 1x300 | | |
| | Power model with pump | W | 2x300 | | |
| | Power model with pump and buffertank | W | 2x300 + 1x150 | | |

3TW57711-1D

3 Options

3 - 1 Options

| Optional equipment for EWYQ-DAYN | | | | | | | | | |
|----------------------------------|---|-----------|-------|-------|-------|-------|-------|-------|-----------------|
| Option number | Option description | Unit size | | | | | | | Availability |
| | | 080 | 100 | 130 | 150 | 180 | 210 | 230 | |
| | Standard unit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| OPSC | Single pump contactor | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OPTC | Twin pump contactor | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OPSP | Single pump | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OPTP | Twin pump (1 pump house, dual motor) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OPHP | high ESP pump (single pump only) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OPBT | Buffer tank | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OPIF | Inverter fans for low ambient (-15 °C) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OPZL | Glycol 0°C/-10°C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OP03 | Dual pressure relief valve | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OP10 | evaporator heater tape | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OP12 | option valves (discharge-, liquid line- and suction stop valve) | 0 (S) | 0 (S) | 0 (S) | 0 (S) | 0 (S) | 0 (S) | 0 (S) | Factory mounted |
| OP57 | A-meter, V-meter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OPLN | Low noise = OPIF + compressorhousing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| OPCG | Condenser protection grilles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Factory mounted |
| Available kits | | | | | | | | | |
| EKLONPG | Gateway for LON* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Kit |
| EKNBPG | Gateway for BACNET* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Kit |
| EKACPG | Adress card including | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Kit |
| | Daikin Integrated Chiller Network (DICN) | | | | | | | | |
| | Serial Communication (Modbus) | | | | | | | | |
| EKRUPG | Remote user interface | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Kit |
| EKNGN210 | Waterpipe kit | 0 | 0 | 0 | 0 | 0 | - | - | Kit |
| EKNGN260 | Waterpipe kit | - | - | - | - | - | - | 0 | Kit |

Notes

- Available
- Not available
- (S) option required for swedish national law SNFS1992:16

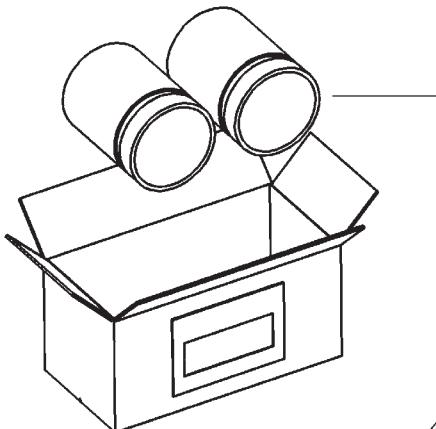
* To install EKLONPG & EKNBPG => EKACPG needs to be installed on the unit.
For the EKLONPG & EKNBPG design guide, please contact your local dealer.

3TW57659-8B

3 Options

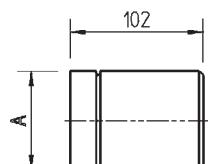
3 - 1 Options

Content : 2 counterpipes for welding onto fieldpiping



| Weight | |
|---------|--------|
| EKGN210 | 2.0 kg |
| EKGN260 | 2.5 kg |

Box : 200 x 100 x 100

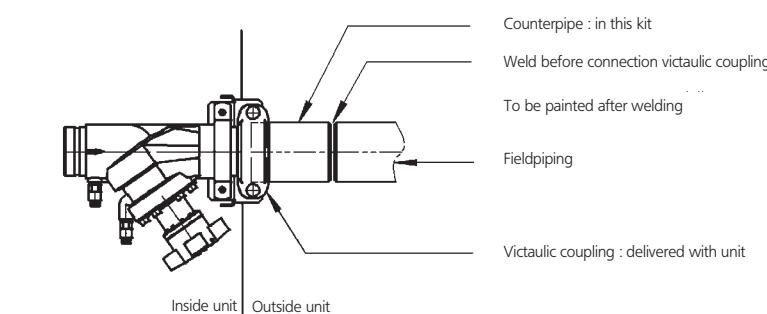


* Material : Blank steel
* Ps = 10 bar

| | Ø | A |
|---------|-------|------|
| EKGN210 | 3" OD | 76.1 |
| EKGN260 | 3" | 88.9 |

| | |
|----------------|-------|
| EWA/YQ080DAYN* | 3" OD |
| EWA/YQ100DAYN* | |
| EWA/YQ130DAYN* | |
| EWA/YQ150DAYN* | |
| EWA/YQ180DAYN* | |
| EWA/YQ210DAYN* | |
| EWAQ240DAYN* | |
| EWAQ260DAYN* | |
| EWYQ230DAYN* | |
| EWYQ250DAYN* | |

Mounting instructions :



4TW58009-1

4 Capacity tables

4 - 1 Cooling Capacity Tables

EWYQ-DAYN

| COOLING | | | | | | | | | | | | | |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Tamb (°C) | 20 | | 25 | | 30 | | 35 | | 40 | | 43 | | |
| LWE | Size | CC | PI |
| 5 | 080 | 83.1 | 20.4 | 79.5 | 22.1 | 75.7 | 24.1 | 71.7 | 26.2 | 64.8 | 28.7 | 59.5 | 30.3 |
| | 100 | 109 | 26.8 | 104 | 29.4 | 99.2 | 32.4 | 93.6 | 35.8 | 84.0 | 39.5 | 76.9 | 42.0 |
| | 130 | 148 | 35.6 | 142 | 39.0 | 135 | 42.7 | 127 | 46.8 | 117 | 51.5 | 109 | 54.6 |
| | 150 | 161 | 42.0 | 154 | 45.9 | 146 | 50.2 | 137 | 55.2 | 125 | 60.7 | 117 | 64.4 |
| | 180 | 199 | 48.3 | 190 | 52.7 | 181 | 57.6 | 171 | 63.1 | 159 | 70.0 | 151 | 74.9 |
| | 210 | 234 | 56.6 | 223 | 61.8 | 211 | 67.7 | 198 | 74.3 | 183 | 82.5 | 173 | 88.3 |
| | 230 | 252 | 63.0 | 241 | 68.4 | 230 | 74.5 | 217 | 81.3 | 195 | 89.0 | 179 | 94.0 |
| 7 | 250 | 277 | 71.6 | 265 | 77.8 | 252 | 84.7 | 237 | 92.5 | 213 | 101 | 194 | 107 |
| | 080 | 89.1 | 20.5 | 85.2 | 22.3 | 81.2 | 24.3 | 77.0 | 26.5 | 69.5 | 28.9 | 63.9 | 30.5 |
| | 100 | 117 | 27.2 | 112 | 29.9 | 106 | 32.9 | 100 | 36.2 | 89.8 | 40.0 | 82.3 | 42.5 |
| | 130 | 159 | 36.3 | 152 | 39.8 | 144 | 43.5 | 136 | 47.6 | 124 | 52.3 | 116 | 55.4 |
| | 150 | 170 | 42.5 | 162 | 46.4 | 154 | 50.8 | 145 | 55.7 | 132 | 61.3 | 124 | 65.0 |
| | 180 | 213 | 49.0 | 203 | 53.4 | 194 | 58.3 | 183 | 63.8 | 170 | 70.7 | 161 | 75.6 |
| | 210 | 248 | 57.6 | 236 | 62.8 | 224 | 68.7 | 211 | 75.3 | 195 | 83.5 | 184 | 89.4 |
| 10 | 230 | 268 | 63.9 | 256 | 69.3 | 244 | 75.4 | 231 | 82.2 | 208 | 89.9 | 190 | 94.9 |
| | 250 | 294 | 72.5 | 281 | 78.8 | 267 | 85.8 | 252 | 93.5 | 226 | 102 | 207 | 108 |
| | 080 | 98.6 | 20.9 | 94.5 | 22.6 | 90.1 | 24.6 | 85.4 | 26.8 | 77.1 | 29.3 | 70.9 | 30.9 |
| | 100 | 129 | 28.0 | 123 | 30.6 | 117 | 33.6 | 110 | 37.0 | 99.0 | 40.8 | 90.7 | 43.2 |
| | 130 | 175 | 37.5 | 167 | 40.9 | 159 | 44.7 | 150 | 48.9 | 137 | 53.5 | 128 | 56.7 |
| | 150 | 185 | 43.3 | 177 | 47.3 | 168 | 51.8 | 158 | 56.8 | 144 | 62.4 | 135 | 66.1 |
| | 180 | 235 | 50.2 | 224 | 54.5 | 214 | 59.5 | 202 | 65.0 | 188 | 71.9 | 178 | 76.8 |
| 13 | 210 | 271 | 59.2 | 258 | 64.4 | 245 | 70.3 | 231 | 76.9 | 213 | 85.2 | 201 | 91.1 |
| | 230 | 292 | 65.3 | 280 | 70.7 | 267 | 76.8 | 252 | 83.7 | 227 | 91.3 | 208 | 96.4 |
| | 250 | 321 | 74.0 | 307 | 80.4 | 292 | 87.4 | 275 | 95.3 | 247 | 104 | 226 | 110 |
| | 080 | 109 | 21.2 | 104 | 23.0 | 100 | 25.0 | 94.4 | 27.2 | 85.2 | 29.7 | 78.4 | 31.3 |
| | 100 | 142 | 28.8 | 135 | 31.4 | 128 | 34.4 | 121 | 37.8 | 109 | 41.6 | 100 | 44.1 |
| | 130 | 192 | 38.7 | 184 | 42.2 | 174 | 46.0 | 164 | 50.2 | 150 | 54.9 | 140 | 58.0 |
| | 150 | 203 | 44.4 | 193 | 48.5 | 184 | 53.0 | 173 | 58.1 | 158 | 63.7 | 147 | 67.4 |
| 16 | 180 | 258 | 51.4 | 247 | 55.8 | 235 | 60.8 | 222 | 66.3 | 206 | 73.3 | 195 | 78.2 |
| | 210 | 296 | 61.0 | 282 | 66.2 | 267 | 72.1 | 251 | 78.7 | 232 | 87.0 | 219 | 92.9 |
| | 230 | 319 | 66.8 | 305 | 72.3 | 291 | 78.4 | 275 | 85.3 | 248 | 92.9 | 227 | 97.9 |
| | 250 | 350 | 75.6 | 334 | 82.1 | 318 | 89.2 | 300 | 97.1 | 269 | 106 | 246 | 112 |
| | 080 | 120 | 21.5 | 115 | 23.4 | 110 | 25.4 | 104 | 27.7 | 93.8 | 30.2 | 86.3 | 31.8 |
| | 100 | 155 | 29.7 | 148 | 32.3 | 141 | 35.3 | 133 | 38.7 | 119 | 42.5 | 109 | 45.0 |
| | 130 | 210 | 40.0 | 201 | 43.5 | 191 | 47.4 | 179 | 51.6 | 164 | 56.3 | 153 | 59.4 |
| 20 | 150 | 222 | 45.7 | 212 | 49.8 | 201 | 54.4 | 189 | 59.6 | 173 | 65.2 | 88 | 32.0 |
| | 180 | 283 | 52.9 | 270 | 57.3 | 257 | 62.2 | 243 | 67.8 | 226 | 74.8 | 214 | 79.7 |
| | 210 | 321 | 63.0 | 306 | 68.2 | 290 | 74.0 | 273 | 80.6 | 252 | 89.0 | 238 | 94.9 |
| | 230 | 346 | 68.5 | 332 | 74.0 | 316 | 80.1 | 299 | 87.0 | 269 | 94.6 | 247 | 100 |
| | 250 | 380 | 77.4 | 363 | 83.9 | 345 | 91.1 | 326 | 99.1 | 292 | 108 | 267 | 114 |
| | 080 | 136 | 22.1 | 130 | 24.0 | 124 | 26.0 | 118 | 28.3 | 106 | 30.9 | 53.4 | 15.1 |
| | 100 | 174 | 31.1 | 166 | 33.7 | 158 | 36.7 | 149 | 40.0 | 133 | 43.8 | 66.8 | 21.5 |
| 20 | 130 | 236 | 41.8 | 225 | 45.4 | 213 | 49.3 | 201 | 53.6 | 183 | 58.4 | 93.6 | 28.5 |
| | 150 | 252 | 47.6 | 240 | 51.9 | 227 | 56.7 | 213 | 61.9 | 194 | 67.7 | 99.2 | 33.2 |
| | 180 | 317 | 55.0 | 304 | 59.4 | 289 | 64.4 | 273 | 70.0 | 253 | 77.0 | 131 | 38.1 |
| | 210 | 357 | 66.0 | 341 | 71.1 | 323 | 77.0 | 304 | 83.6 | 280 | 91.9 | 145 | 45.4 |
| | 230 | 385 | 71.1 | 369 | 76.5 | 352 | 82.6 | 333 | 89.5 | 300 | 97.1 | 151 | 47.4 |
| | 250 | 423 | 79.9 | 404 | 86.5 | 384 | 93.8 | 362 | 102 | 325 | 111 | 163 | 54.1 |

SYMBOLS

- CC : Cooling capacity (kW)
 PI : Power input (kW)
 LWE : Leaving Water Evaporator temperature (°C)
 Tamb : Ambient temperature (°C)

NOTES

1. Cooling capacity (CAP)
 Capacity is according to Eurovent rating standard 6/C/003-2006 and valid for chilled water range Dt = 3 - 8°C
2. Power input (kW)
 Power input is total input according to Eurovent rating standard 6/C/003-2006: Compressor + fans + control circuit
3. For units with integrated heat pump
 Values for CC are to be multiplied by 0.99 in order to compensate heat input of the pump

4 Capacity tables

4 - 1 Cooling Capacity Tables

EWFQ-DAYN

| COOLING - OPZL | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Tamb (°C) | | 20 | | 25 | | 30 | | 35 | | 40 | | 43 | |
| LWE | Size | CC | PI |
| -10 | 080 | 50.1 | 19.4 | 47.1 | 21.2 | 44.2 | 23.2 | 41.4 | 25.4 | 37.0 | 27.9 | | |
| | 100 | 65 | 24.5 | 61 | 27.1 | 58.1 | 29.9 | 54.6 | 33.1 | 48.9 | 36.7 | | |
| | 130 | 91 | 31.3 | 87 | 34.7 | 82 | 38.3 | 77 | 42.4 | 71 | 47.2 | | |
| | 150 | 110 | 39.3 | 103 | 43.1 | 96 | 47.4 | 90 | 52.2 | 81 | 57.8 | | |
| | 180 | 118 | 44.7 | 112 | 49.0 | 105 | 53.9 | 99 | 59.3 | 91 | 66.0 | | |
| | 210 | 145 | 51.3 | 137 | 56.4 | 129 | 62.1 | 121 | 68.4 | 111 | 76.2 | | |
| | 230 | 155 | 57.9 | 148 | 63.2 | 140 | 69.1 | 132 | 75.7 | 118 | 83.0 | | |
| -7 | 250 | 171 | 65.9 | 163 | 71.7 | 154 | 78.2 | 145 | 85.5 | 129 | 94 | | |
| | 080 | 55.1 | 19.5 | 52.1 | 21.3 | 49.1 | 23.3 | 46.2 | 25.5 | 41.5 | 28.0 | | |
| | 100 | 72 | 24.8 | 68 | 27.5 | 65 | 30.3 | 61 | 33.6 | 54.7 | 37.2 | | |
| | 130 | 100 | 32.0 | 96 | 35.4 | 91 | 39.0 | 85 | 43.1 | 78 | 47.8 | | |
| | 150 | 119 | 39.7 | 112 | 43.5 | 105 | 47.8 | 98 | 52.7 | 89 | 58.2 | | |
| | 180 | 131 | 45.2 | 124 | 49.6 | 118 | 54.4 | 111 | 59.8 | 102 | 66.6 | | |
| | 210 | 160 | 52.1 | 152 | 57.3 | 143 | 63.0 | 134 | 69.4 | 124 | 77.3 | | |
| -5 | 230 | 172 | 58.8 | 164 | 64.1 | 155 | 70.1 | 146 | 76.7 | 131 | 84.1 | | |
| | 250 | 189 | 66.9 | 180 | 72.8 | 171 | 79.4 | 161 | 86.8 | 144 | 95 | | |
| | 080 | 58.9 | 19.6 | 55.8 | 21.4 | 52.8 | 23.4 | 49.7 | 25.5 | 44.7 | 28.0 | 41.0 | 29.7 |
| | 100 | 77 | 25.1 | 73 | 27.7 | 70 | 30.6 | 66 | 33.9 | 58.9 | 37.5 | 53.9 | 39.9 |
| | 130 | 107 | 32.5 | 102 | 35.9 | 97 | 39.5 | 91 | 43.6 | 84 | 48.3 | 78 | 51.5 |
| | 150 | 125 | 40.0 | 119 | 43.9 | 112 | 48.1 | 104 | 53.0 | 95 | 58.5 | 88 | 62.2 |
| | 180 | 140 | 45.6 | 134 | 50.0 | 127 | 54.8 | 119 | 60.3 | 111 | 67.1 | 105 | 71.9 |
| -2 | 210 | 171 | 52.7 | 162 | 57.9 | 153 | 63.7 | 144 | 70.1 | 132 | 78.1 | 125 | 83.8 |
| | 230 | 184 | 59.4 | 175 | 64.7 | 166 | 70.7 | 157 | 77.4 | 141 | 84.9 | 129 | 89.8 |
| | 250 | 202 | 67.5 | 193 | 73.5 | 183 | 80.2 | 172 | 87.6 | 154 | 96 | 141 | 101 |
| | 080 | 65 | 19.8 | 62 | 21.6 | 59 | 23.5 | 55.6 | 25.7 | 50.1 | 28.2 | 46.0 | 29.8 |
| | 100 | 86 | 25.5 | 82 | 28.2 | 78 | 31.1 | 73 | 34.4 | 66 | 38.1 | 60 | 40.5 |
| | 130 | 118 | 33.4 | 113 | 36.7 | 107 | 40.4 | 101 | 44.5 | 92 | 49.2 | 86 | 52.3 |
| | 150 | 135 | 40.5 | 128 | 44.4 | 121 | 48.7 | 114 | 53.5 | 103 | 59.0 | 96 | 62.7 |
| 2 | 180 | 156 | 46.3 | 149 | 50.7 | 141 | 55.5 | 133 | 61.0 | 124 | 67.8 | 117 | 72.7 |
| | 210 | 188 | 53.7 | 179 | 58.9 | 169 | 64.7 | 159 | 71.2 | 146 | 79.3 | 138 | 85.1 |
| | 230 | 202 | 60.3 | 193 | 65.7 | 184 | 71.8 | 174 | 78.5 | 156 | 86.0 | 143 | 91.0 |
| | 250 | 222 | 68.7 | 213 | 74.7 | 202 | 81.5 | 190 | 89.0 | 170 | 97 | 156 | 103 |
| | 080 | 75 | 20.1 | 71 | 21.9 | 68 | 23.8 | 64 | 26.0 | 58.1 | 28.4 | 53.4 | 30.0 |
| | 100 | 99 | 26.2 | 94 | 28.8 | 89 | 31.8 | 84 | 35.1 | 76 | 38.9 | 69 | 41.3 |
| | 130 | 134 | 34.6 | 129 | 38.0 | 122 | 41.6 | 115 | 45.7 | 106 | 50.4 | 99 | 53.6 |
| 2 | 150 | 149 | 41.3 | 142 | 45.2 | 135 | 49.5 | 126 | 54.4 | 115 | 59.9 | 108 | 63.6 |
| | 180 | 179 | 47.4 | 171 | 51.8 | 163 | 56.6 | 154 | 62.1 | 143 | 69.0 | 136 | 73.8 |
| | 210 | 213 | 55.3 | 203 | 60.5 | 192 | 66.3 | 181 | 72.9 | 167 | 81.1 | 157 | 86.9 |
| | 230 | 230 | 61.8 | 220 | 67.2 | 209 | 73.3 | 198 | 80.1 | 178 | 87.7 | 163 | 93 |
| | 250 | 252 | 70.3 | 241 | 76.4 | 229 | 83.3 | 216 | 90.9 | 194 | 99 | 177 | 105 |

SYMBOLS

- CC : Cooling capacity (kW)
 PI : Power input (kW)
 LWE : Leaving Water Evaporator temperature (°C)
 Tamb : Ambient temperature (°C)

NOTES

1. Cooling capacity (kW)
 Capacity is according to Eurovent rating standard 6/C/003-2006 and valid for chilled water range $Dt = 3 - 8^{\circ}\text{C}$
2. Power input (kW)
 Power input is total input according to Eurovent rating standard 6/C/003-2006: Compressor + fans + control circuit
3. For units with integrated heat pump
 Values for CC are to be multiplied by 0.99 in order to compensate heat input of the pump
4. Usage of glycol and other anti-freeze
 Correction factors for CC and PI are applicable according type and concentration of the used anti-freeze

4 Capacity tables

4 - 2 Heating Capacity Tables

EWYQ-DAYN

| HEATING | | | | | | | | | | | | |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|
| Tamb (°C) | -10 | -7 | -4 | 0 | 4 | 7 | 10 | 15 | 21 | HC | PI | HC |
| LWC | Size | HC | PI | HC |
| 25 | 080 | 58.4 | 19.8 | 64.5 | 20.0 | 70.5 | 20.1 | 78.0 | 20.3 | 86.0 | 20.6 | 92.4 |
| | 100 | 74.1 | 23.9 | 82.3 | 24.2 | 90.3 | 24.4 | 100 | 24.8 | 111 | 25.2 | 119 |
| | 130 | 97 | 31.7 | 108 | 32.2 | 118 | 32.7 | 131 | 33.4 | 145 | 34.1 | 156 |
| | 150 | 107 | 40.0 | 118 | 40.0 | 129 | 40.1 | 143 | 40.2 | 157 | 40.5 | 168 |
| | 180 | 129 | 44.1 | 144 | 44.5 | 158 | 44.9 | 176 | 45.5 | 194 | 46.2 | 208 |
| | 210 | 141 | 50.7 | 158 | 51.0 | 174 | 51.3 | 193 | 51.6 | 214 | 52.0 | 229 |
| | 230 | 160 | 54.3 | 179 | 54.9 | 198 | 55.5 | 222 | 56.2 | 248 | 57.1 | 269 |
| 30 | 250 | 175 | 62.1 | 195 | 62.9 | 216 | 63.8 | 242 | 64.9 | 270 | 66.1 | 293 |
| | 080 | 57.4 | 21.8 | 63.3 | 21.9 | 69.8 | 22.0 | 77.2 | 22.2 | 85.0 | 22.5 | 91.2 |
| | 100 | 73.2 | 26.4 | 81.2 | 26.7 | 89.8 | 27.0 | 99.5 | 27.4 | 110 | 27.8 | 118 |
| | 130 | 96 | 34.8 | 106 | 35.3 | 117 | 35.8 | 130 | 36.5 | 144 | 37.2 | 154 |
| | 150 | 106 | 44.1 | 117 | 44.0 | 129 | 44.0 | 142 | 44.1 | 156 | 44.3 | 167 |
| | 180 | 127 | 48.5 | 142 | 48.9 | 157 | 49.3 | 174 | 49.9 | 192 | 50.6 | 206 |
| | 210 | 140 | 55.8 | 157 | 56.2 | 174 | 56.5 | 193 | 56.8 | 213 | 57.2 | 228 |
| 35 | 230 | 158 | 59.5 | 177 | 60.2 | 197 | 60.8 | 221 | 61.7 | 246 | 62.5 | 267 |
| | 250 | 173 | 67.8 | 193 | 68.7 | 215 | 69.7 | 241 | 70.9 | 268 | 72.2 | 290 |
| | 080 | 56.6 | 24.0 | 62.4 | 24.1 | 68.7 | 24.2 | 76.5 | 24.4 | 84.1 | 24.7 | 90.0 |
| | 100 | 72.5 | 29.1 | 80.4 | 29.5 | 88.7 | 29.8 | 99.0 | 30.3 | 109 | 30.7 | 116 |
| | 130 | 95 | 38.4 | 105 | 38.8 | 116 | 39.3 | 129 | 39.9 | 142 | 40.7 | 153 |
| | 150 | 105 | 48.6 | 116 | 48.5 | 127 | 48.4 | 142 | 48.4 | 155 | 48.5 | 166 |
| | 180 | 126 | 53.3 | 140 | 53.7 | 155 | 54.2 | 173 | 54.9 | 190 | 55.6 | 204 |
| 40 | 210 | 140 | 61.5 | 156 | 61.9 | 173 | 62.2 | 193 | 62.6 | 212 | 63.0 | 227 |
| | 230 | 157 | 65.4 | 175 | 66.1 | 195 | 66.8 | 219 | 67.8 | 244 | 68.7 | 264 |
| | 250 | 172 | 74.2 | 192 | 75.3 | 213 | 76.3 | 240 | 77.7 | 266 | 79.0 | 287 |
| | 080 | 56.2 | 26.5 | 61.7 | 26.5 | 67.7 | 26.6 | 75.9 | 26.8 | 83.2 | 27.1 | 88.9 |
| | 100 | 72.1 | 32.2 | 79.7 | 32.6 | 87.7 | 33.0 | 98.5 | 33.5 | 108 | 34.0 | 115 |
| | 130 | 94 | 42.5 | 104 | 42.8 | 115 | 43.2 | 129 | 43.9 | 141 | 44.6 | 151 |
| | 150 | 105 | 53.7 | 116 | 53.5 | 127 | 53.3 | 142 | 53.3 | 155 | 53.3 | 165 |
| 45 | 180 | 125 | 58.8 | 139 | 59.2 | 153 | 59.7 | 172 | 60.4 | 189 | 61.1 | 201 |
| | 210 | 140 | 67.7 | 156 | 68.2 | 172 | 68.6 | 193 | 69.1 | 212 | 69.5 | 226 |
| | 230 | 156 | 71.9 | 174 | 72.7 | 193 | 73.5 | 218 | 74.6 | 242 | 75.6 | 261 |
| | 250 | 171 | 81.5 | 190 | 82.7 | 211 | 83.8 | 239 | 85.2 | 264 | 86.7 | 284 |
| | 080 | | | | | 66.9 | 29.4 | 74.7 | 29.5 | 82.3 | 29.8 | 87.7 |
| | 100 | | | | | 86.8 | 36.6 | 97.1 | 37.2 | 107 | 37.7 | 114 |
| | 130 | | | | | 113 | 47.9 | 127 | 48.4 | 140 | 49.1 | 149 |
| 50 | 150 | | | | | 127 | 58.9 | 141 | 58.7 | 155 | 58.7 | 165 |
| | 180 | | | | | 151 | 65.9 | 169 | 66.6 | 187 | 67.4 | 199 |
| | 210 | | | | | 171 | 75.8 | 192 | 76.3 | 212 | 76.8 | 225 |
| | 230 | | | | | 191 | 81.1 | 215 | 82.3 | 240 | 83.4 | 258 |
| | 250 | | | | | 209 | 92.2 | 235 | 93.8 | 262 | 95.4 | 281 |
| | 080 | | | | | 73.4 | 32.6 | 81.4 | 32.9 | 86.4 | 33.1 | 91.7 |
| | 100 | | | | | 95.7 | 41.3 | 106 | 41.9 | 113 | 42.3 | 120 |
| 50 | 130 | | | | | 125 | 53.7 | 138 | 54.3 | 147 | 54.8 | 156 |
| | 150 | | | | | 140 | 64.9 | 155 | 64.8 | 165 | 64.9 | 175 |
| | 180 | | | | | 167 | 73.7 | 185 | 74.4 | 196 | 75.1 | 208 |
| | 210 | | | | | 191 | 84.5 | 212 | 85.0 | 225 | 85.3 | 238 |
| | 230 | | | | | 212 | 90.9 | 237 | 92.1 | 254 | 93.0 | 272 |
| | 250 | | | | | 232 | 103 | 259 | 105 | 277 | 106 | 295 |
| | 080 | | | | | 295 | 108 | 329 | 110 | 373 | 113 | 373 |

NOTES

- Heating capacity (CAP)
Capacity is according to Eurovent rating standard 6/C/003-2006 and valid for heated water range $D_t = 3 - 8^\circ\text{C}$
- Power input (kW)
Power input is total input according to Eurovent rating standard 6/C/003-2006: Compressor + fans + control circuit
- HC tabulated does not include capacity drop during frosting period and defrost.
The integrated Heating Capacity takes into consideration the capacity drop during frosting period and defrosting operation.

$$(HC_{\text{integrated}} = (HC) * (\text{Integrated correction factor during frosting period}))$$

Integrated heating capacity means the heating capacity during one cycle (between defrosting period and defrosting period), which is integrated and converted to heating capacity per hour.

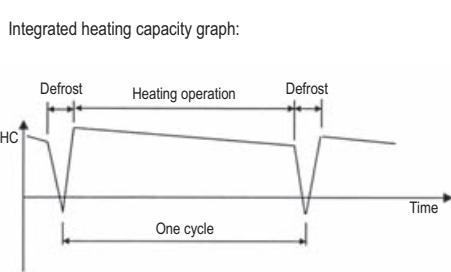
Integrated correction factor

| Tamb (°C) RH 85% | -10 | -7 | -4 | 0 | 4 | 7 |
|-------------------|------|------|------|------|------|------|
| Correction factor | 0.96 | 0.95 | 0.92 | 0.87 | 0.90 | 1.00 |

- In case the surface of the heat exchanger is covered with snow, heating capacity drops temporarily although it differs with outdoor temperature ($^{\circ}\text{CDB}$), relative humidity (RH) and frosting volume.

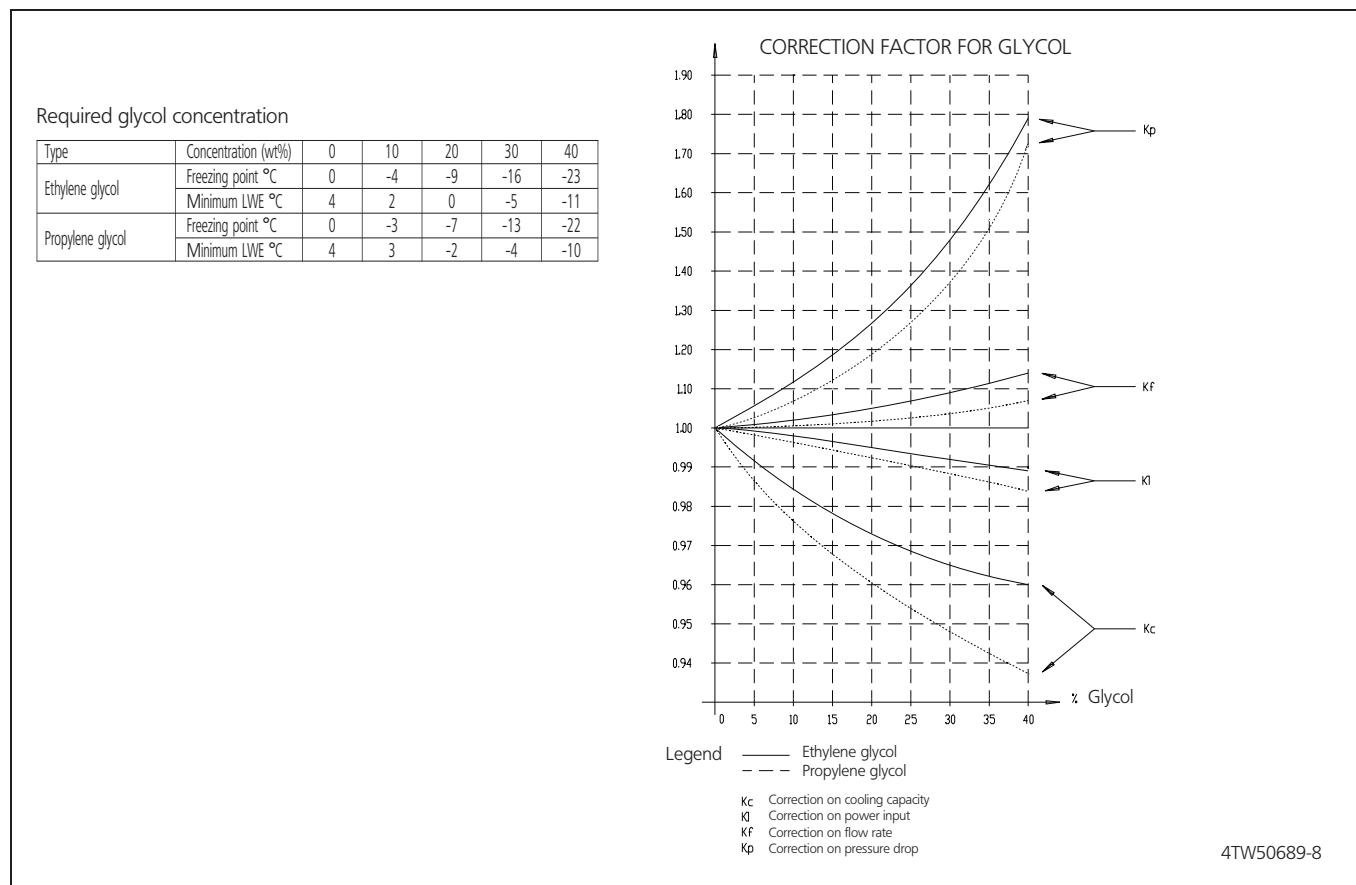
SYMBOLS

- HC : Heating capacity (kW)
PI : Power input (kW)
LWE : Leaving Water Condenser temperature ($^{\circ}\text{C}$)
Tamb : Ambient temperature ($^{\circ}\text{C}$)



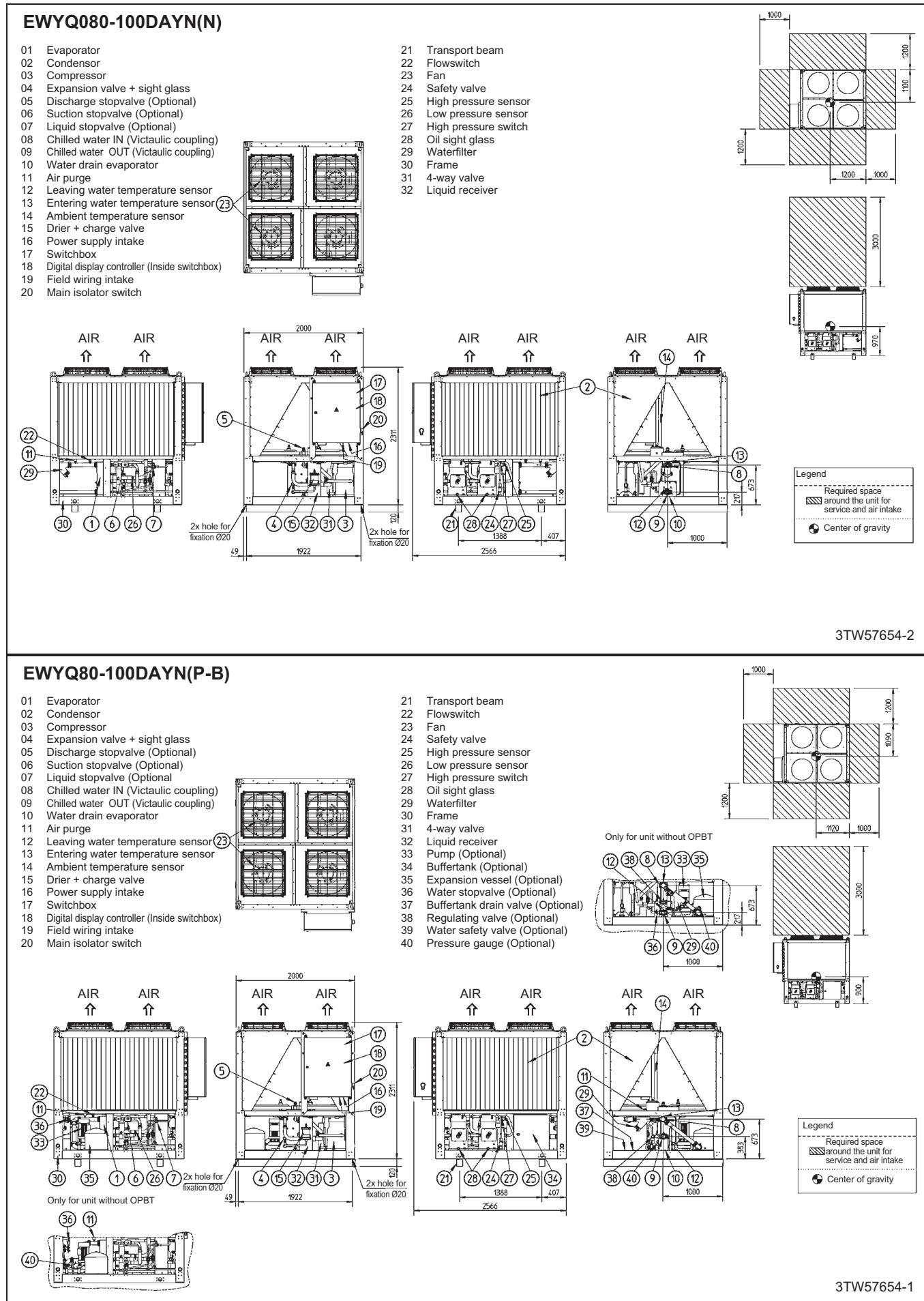
4 Capacity tables

4 - 3 Capacity Correction Factor



5 Dimensional drawings

5 - 1 Dimensional Drawings



5 Dimensional drawings

5 - 1 Dimensional Drawings

2
5

EWYQ130-150DAYN(N)

| | | | |
|----|---|----|----------------------|
| 01 | Evaporator | 21 | Transport beam |
| 02 | Condensor | 22 | Flowswitch |
| 03 | Compressor | 23 | Fan |
| 04 | Expansion valve + sight glass | 24 | Safety valve |
| 05 | Discharge stopvalve (Optional) | 25 | High pressure sensor |
| 06 | Suction stopvalve (Optional) | 26 | Low pressure sensor |
| 07 | Liquid stopvalve (Optional) | 27 | High pressure switch |
| 08 | Chilled water IN (Vitaulic coupling) | 28 | Oil sight glass |
| 09 | Chilled water OUT (Vitaulic coupling) | 29 | Waterfilter |
| 10 | Water drain evaporator | 30 | Frame |
| 11 | Air purge | 31 | 4-way valve |
| 12 | Leaving water temperature sensor | 32 | Liquid receiver |
| 13 | Entering water temperature sensor | | |
| 14 | Ambient temperature sensor | | |
| 15 | Drier + charge valve | | |
| 16 | Power supply intake | | |
| 17 | Switchbox | | |
| 18 | Digital display controller (Inside switchbox) | | |
| 19 | Field wiring intake | | |
| 20 | Main isolator switch | | |

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EWYQ130-150DAYN(P-B)

| | | | |
|----|---|----|-----------------------------------|
| 01 | Evaporator | 21 | Transport beam |
| 02 | Condensor | 22 | Flowswitch |
| 03 | Compressor | 23 | Fan |
| 04 | Expansion valve + sight glass | 24 | Safety valve |
| 05 | Discharge stopvalve (Optional) | 25 | High pressure sensor |
| 06 | Suction stopvalve (Optional) | 26 | Low pressure sensor |
| 07 | Liquid stopvalve (Optional) | 27 | High pressure switch |
| 08 | Chilled water IN (Vitaulic coupling) | 28 | Oil sight glass |
| 09 | Chilled water OUT (Vitaulic coupling) | 29 | Waterfilter |
| 10 | Water drain evaporator | 30 | Frame |
| 11 | Air purge | 31 | 4-way valve |
| 12 | Leaving water temperature sensor | 32 | Liquid receiver |
| 13 | Entering water temperature sensor | 33 | Pump (Optional) |
| 14 | Ambient temperature sensor | 34 | Buffertank (Optional) |
| 15 | Drier + charge valve | 35 | Expansion vessel (Optional) |
| 16 | Power supply intake | 36 | Water stopvalve (Optional) |
| 17 | Switchbox | 37 | Buffertank drain valve (Optional) |
| 18 | Digital display controller (Inside switchbox) | 38 | Regulating valve (Optional) |
| 19 | Field wiring intake | 39 | Water safety valve (Optional) |
| 20 | Main isolator switch | 40 | Pressure gauge (Optional) |

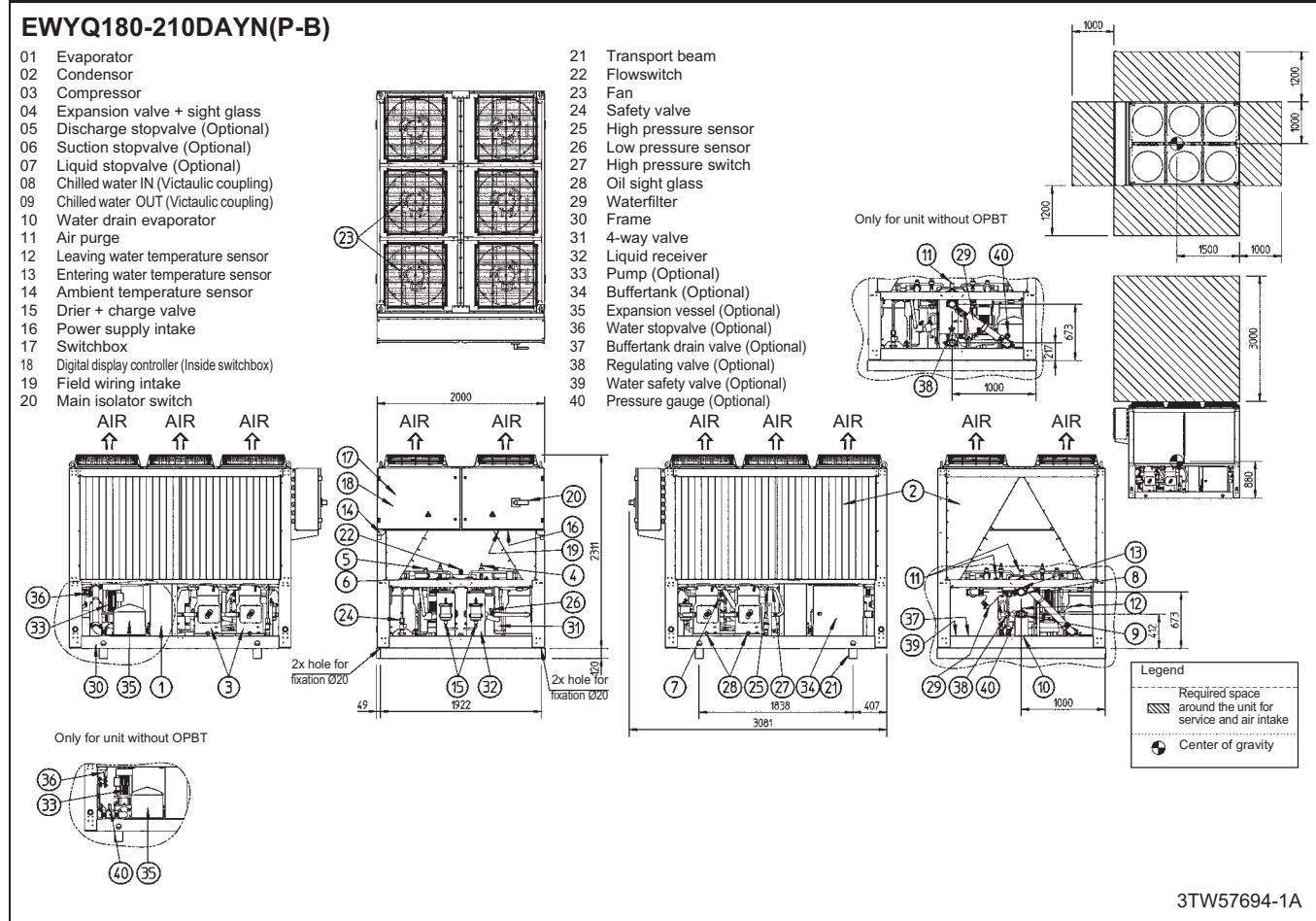
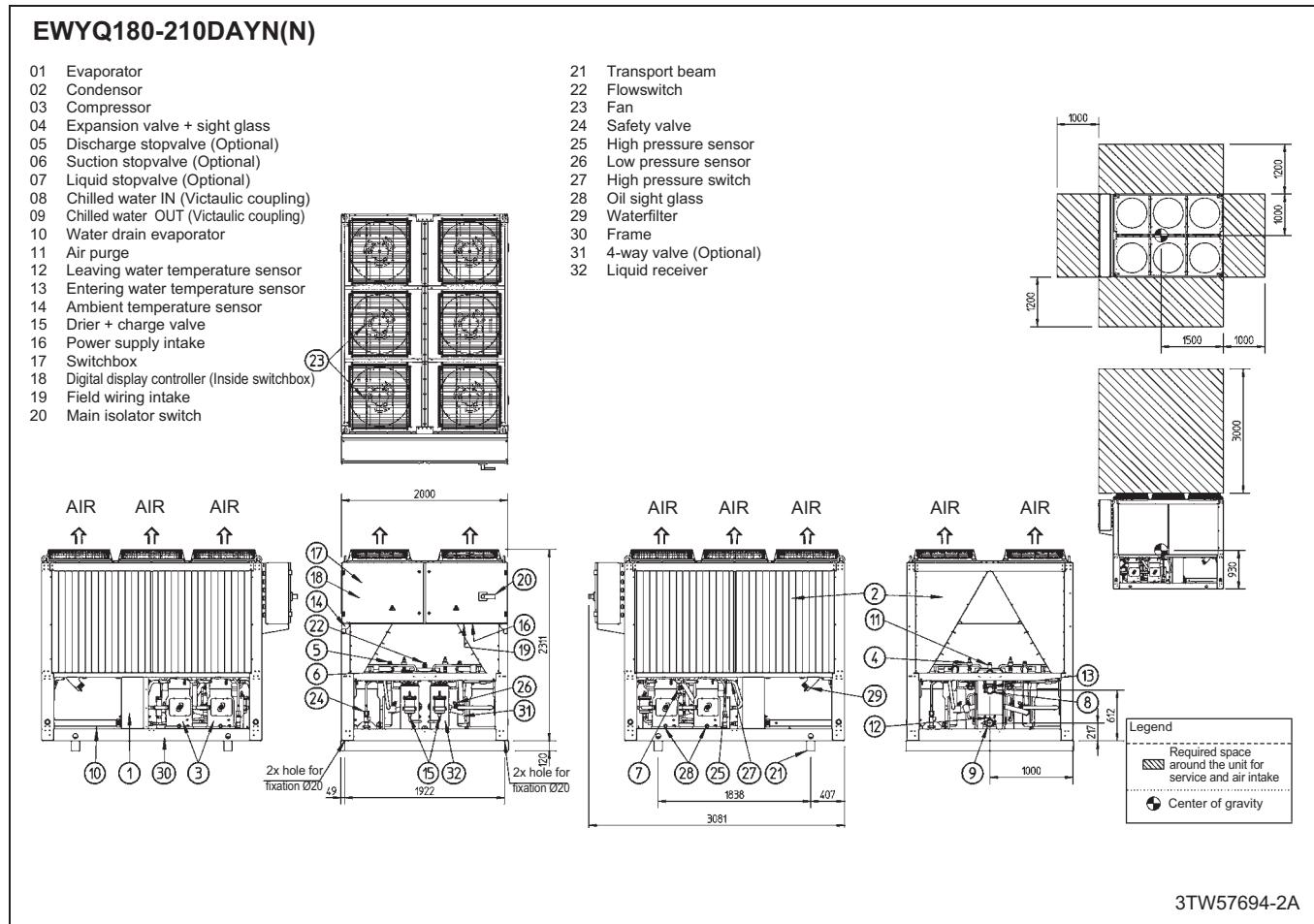
3TW57674-1A

DAIKIN • Hydronic Systems • Single Unit

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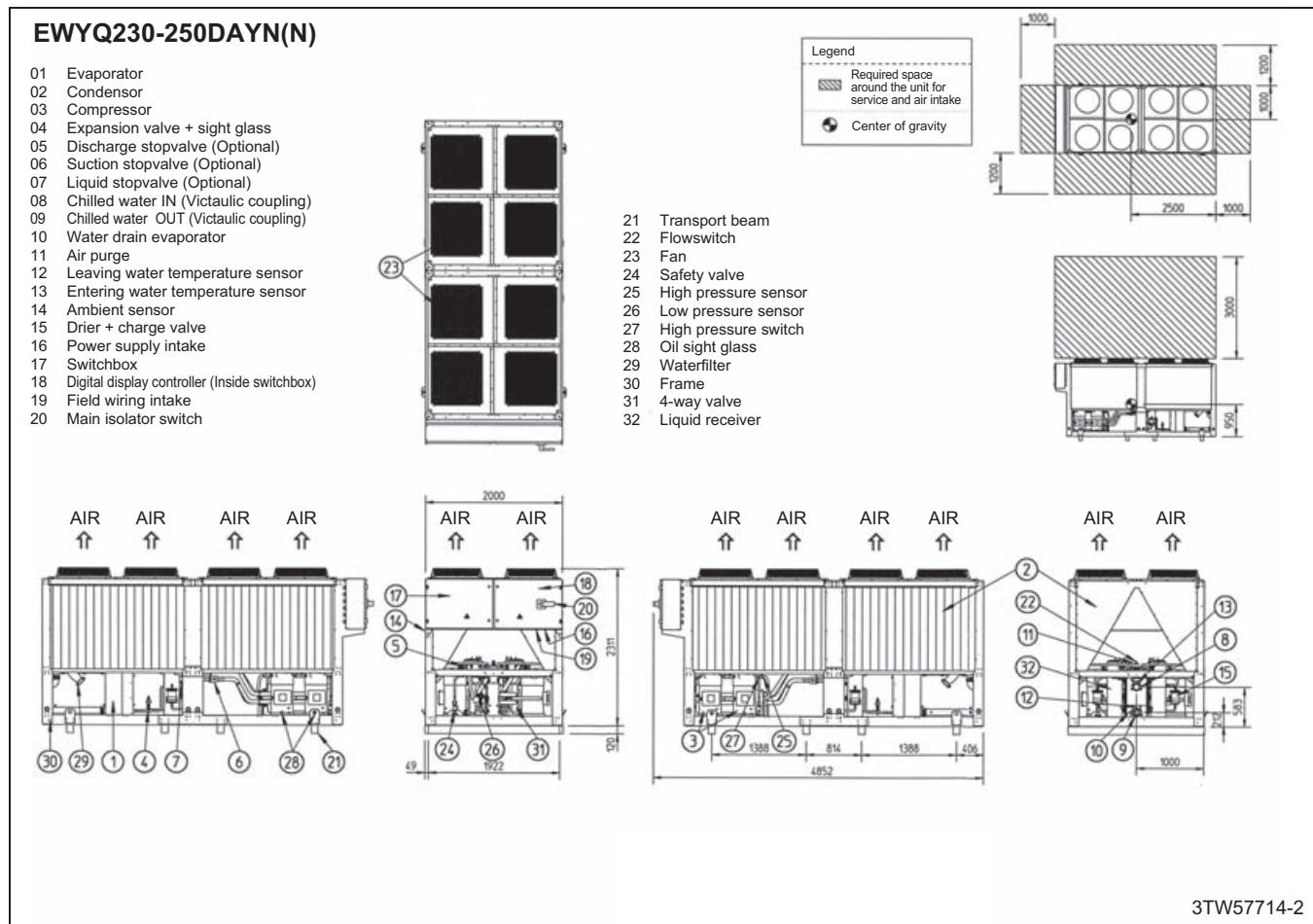
5 Dimensional drawings

5 - 1 Dimensional Drawings



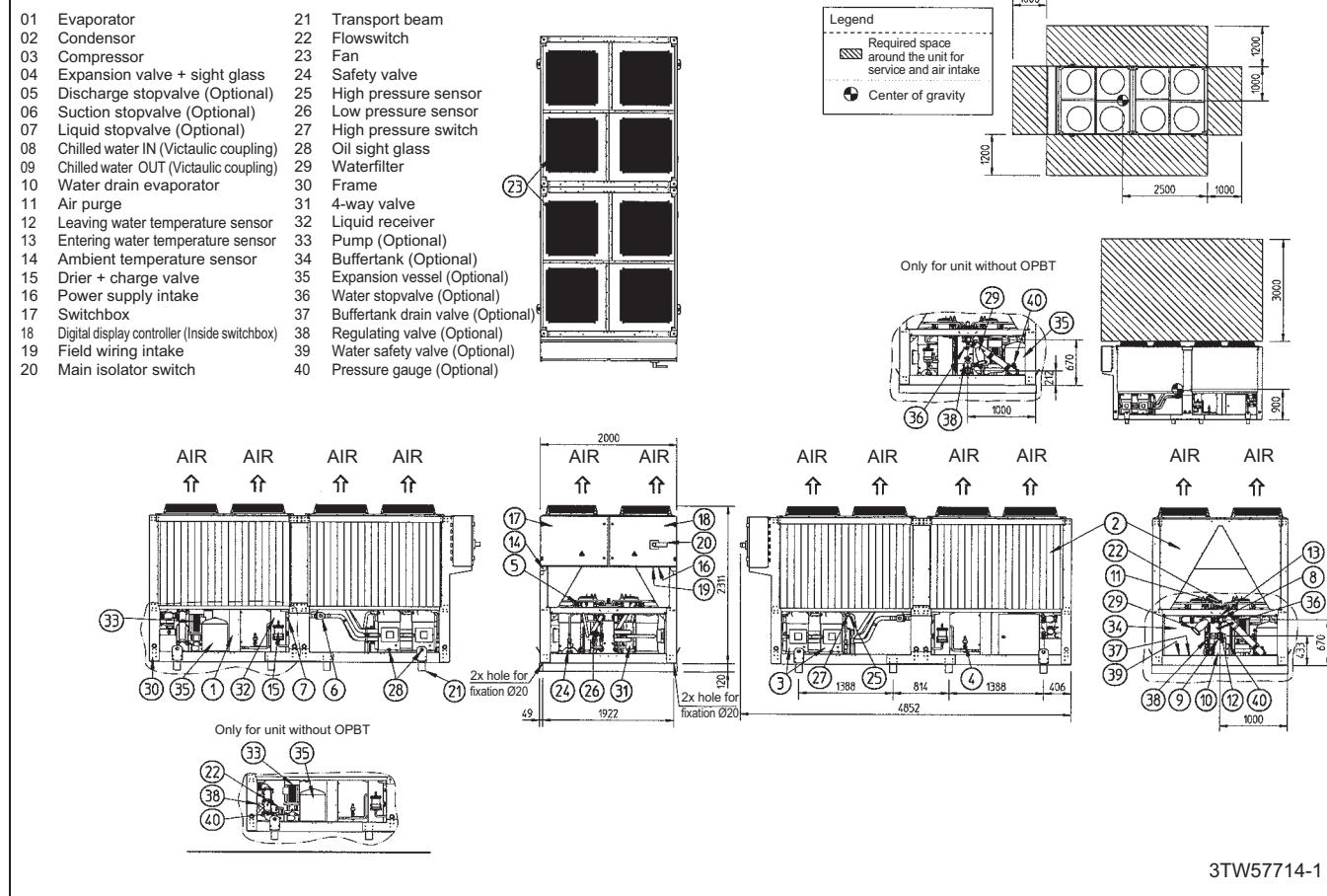
5 Dimensional drawings

5 - 1 Dimensional Drawings



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EWYQ230-250DAYN(P-B)

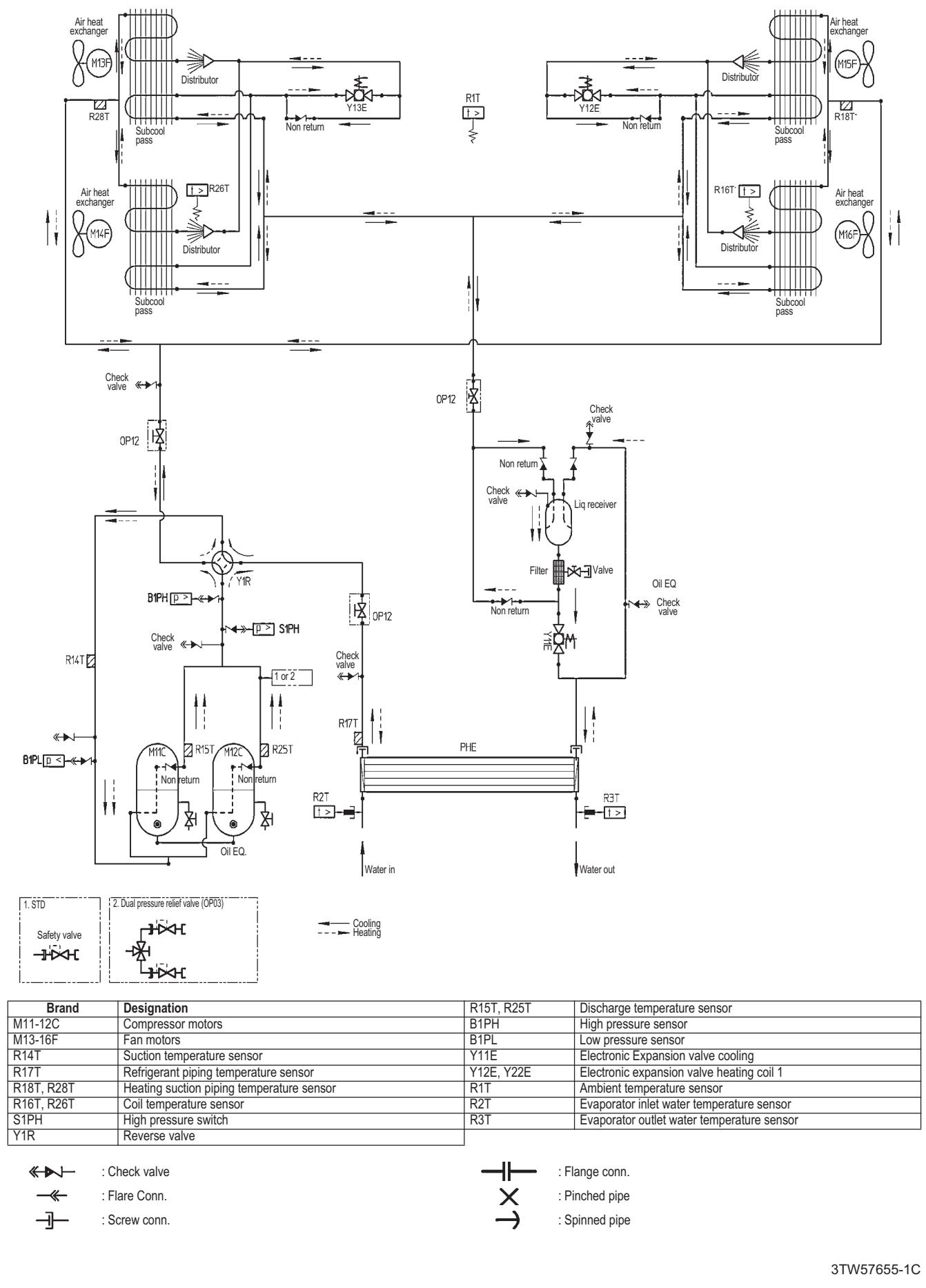


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6 Piping diagrams

6 - 1 Piping Diagrams

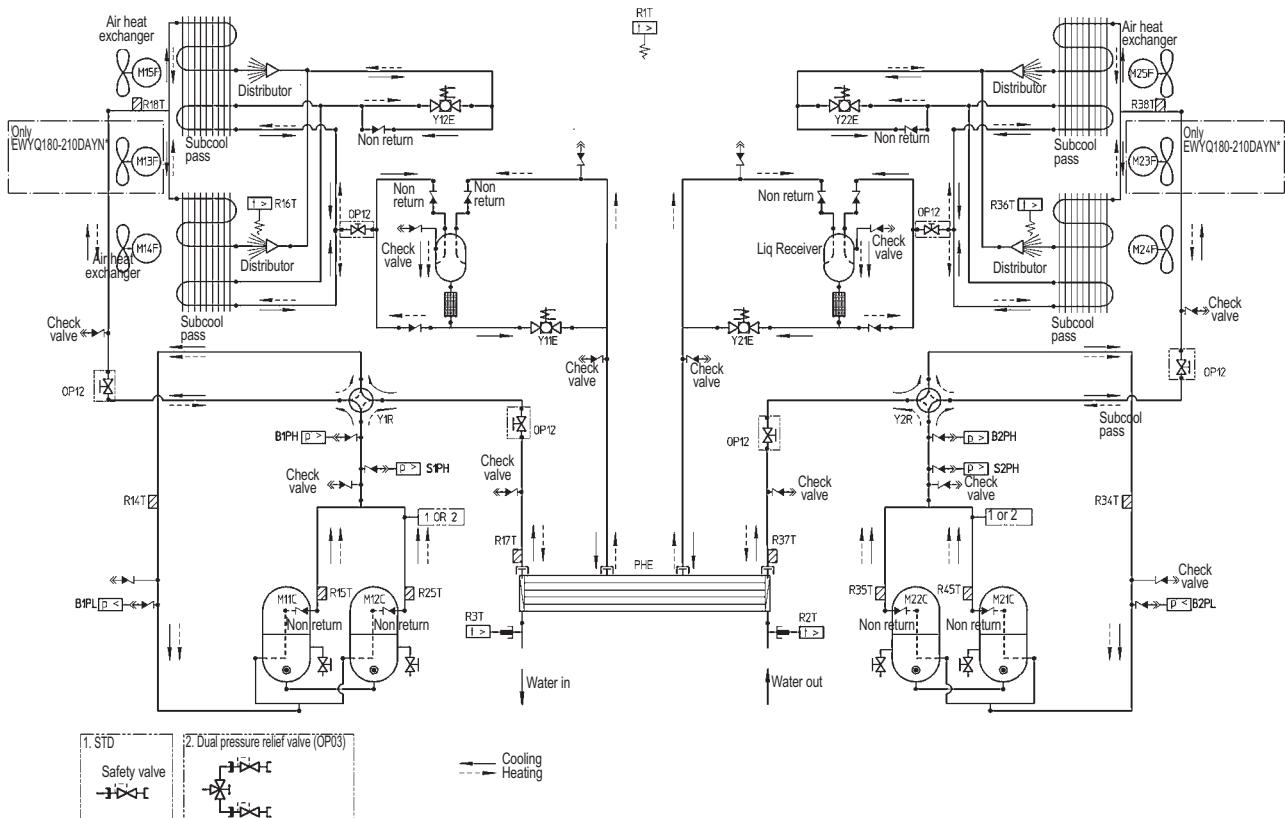
EWYQ080-100DAYN (N-P-B)(piping diagram)



6 Piping diagrams

6 - 1 Piping Diagrams

EWYQ130-210DAYN (N-P-B)(piping diagram)



| Merk | Benaming | | |
|---------|---|------------|---|
| M11-12C | Compressor motors circuit 1 | R36T | Coil temperature sensor circuit 2 |
| M13-15F | Fan motors circuit 1 | R37T | Refrigerant piping temperature sensor circuit 2 |
| R14T | Suction temperature sensor circuit 1 | R38T | Heating suction temp sensor circuit 2 |
| R16T | Coil temperature sensor circuit 1 | S2PH | High pressure switch circuit 2 |
| R17T | Regrigerant piping temperature sensor circuit 1 | Y2R | Reverse valve circuit 2 |
| R18T | Heating suction temp sensor circuit 1 | R35T, R45T | Discharge temperature sensor circuit 2 |
| S1PH | High pressure sensor circuit 1 | B2PH | High pressure sensor circuit 2 |
| B1PL | Low pressure sensor circuit 1 | B2PL | Low pressure sensor circuit 2 |
| Y11E | Electronic Expansion valve cooling crruit 1 | Y21E | Electronic Expansion valve cooling circuit 2 |
| Y12E | Electronic expansion valve heating circuit 1 | Y22E | Electronic expansion valve heating circuit 2 |
| M21-22C | Compressor motors circuit 2 | R1T | Ambient temperature sensor |
| M23-25F | Fan motors circuit 2 | R2T | Evaporator inlet water temperature sensor |
| R34T | Suction temperature sensor circuit 2 | R3T | Evaporator outlet water temperature sensor |

 : Check valve

→ : Flare Conn.

 : Screw conn.

 : Flange conn.

: Pinched pipe

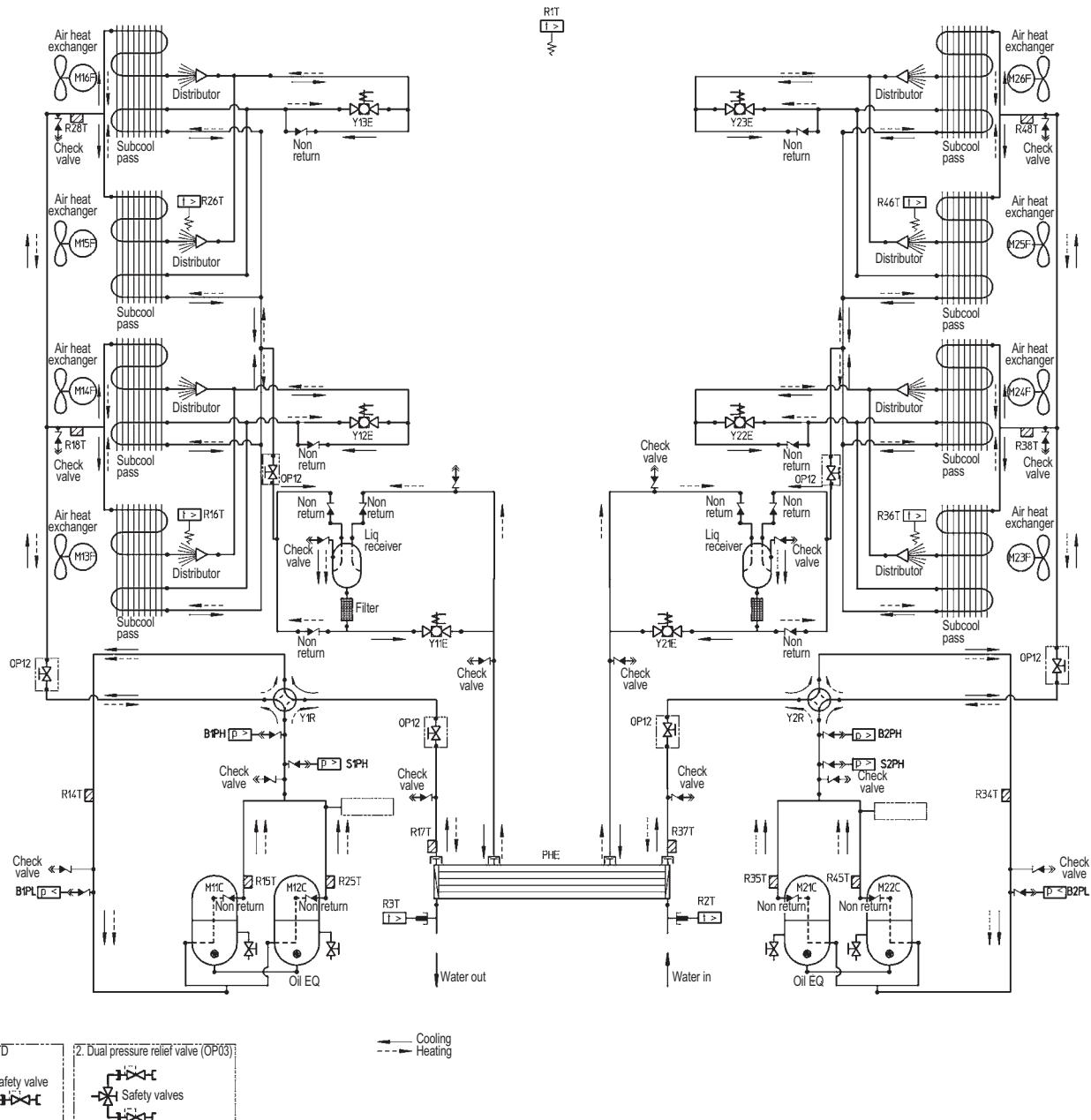
: Spinned pipe

2TW57675-1A

6 Piping diagrams

6 - 1 Piping Diagrams

EWYQ230-250DAYN(N-P-B) (piping diagram)



| MERK | BENAMING | | M23-26F | Fan motors circuit 2 |
|------------|---|--|------------|---|
| M11-12C | Compressor motors circuit 1 | | R34T | Suction temperature sensor circuit 2 |
| M13-16F | Fan motors circuit 1 | | R36T, R46T | Coil temperature sensor circuit 2 |
| R14T | Suction temperature sensor circuit 1 | | R37T | Refrigerant piping temperature sensor circuit 2 |
| R16T, R26T | Coil temperature sensor circuit 1 | | S2PH | High pressure switch circuit 2 |
| R17T | Refrigerant piping temperature sensor circuit 1 | | Y2R | Reverse valve circuit 2 |
| S1PH | High pressure switch circuit 1 | | R35T, R45T | Discharge temperature sensor circuit 2 |
| Y1R | Reverse valve circuit 1 | | B2PH | High pressure sensor circuit 2 |
| R15T, R25T | Discharge temperature sensor circuit 1 | | B2PL | Low pressure sensor circuit 2 |
| B1PH | High pressure sensor circuit 1 | | Y21E | Electronic expansion valve cooling circuit 2 |
| B1PL | Low pressure sensor circuit 1 | | R38T, R48T | Heating suction temperature sensor circuit 2 |
| Y11E | Electronic expansion valve cooling circuit 1 | | Y22E, Y23E | Electronic expansion valve heating circuit 2 |
| R18T, R28T | Heating suction temperature sensor circuit 1 | | R1T | Ambient temperature sensor |
| Y12E, Y13E | Electronic expansion valve heating circuit 1 | | R2T | Evaporator inlet water temperature sensor |
| M21-22C | Compressor motors circuit 2 | | R3T | Evaporator outlet water temperature sensor |

↔ : Check valve

⊖ : Flange conn.

→ : Flare Conn.

× : Pinched pipe

— : Screw conn.

→ : Spinned pipe

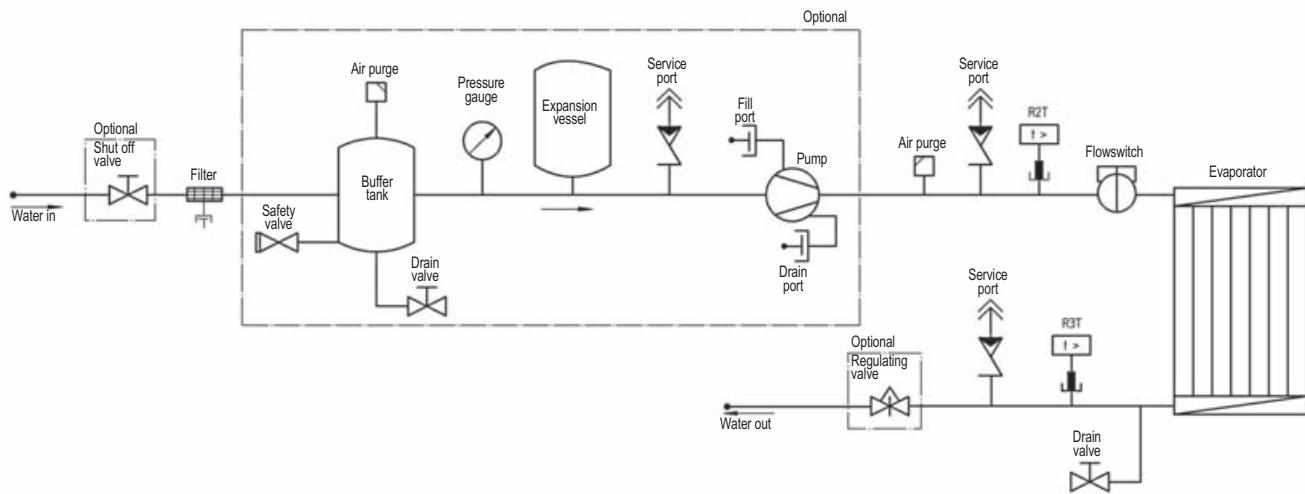
6 Piping diagrams

6 - 1 Piping Diagrams

EWAQ-EYWQ-DAYN(N-P-B)(water piping diagram)

2

6



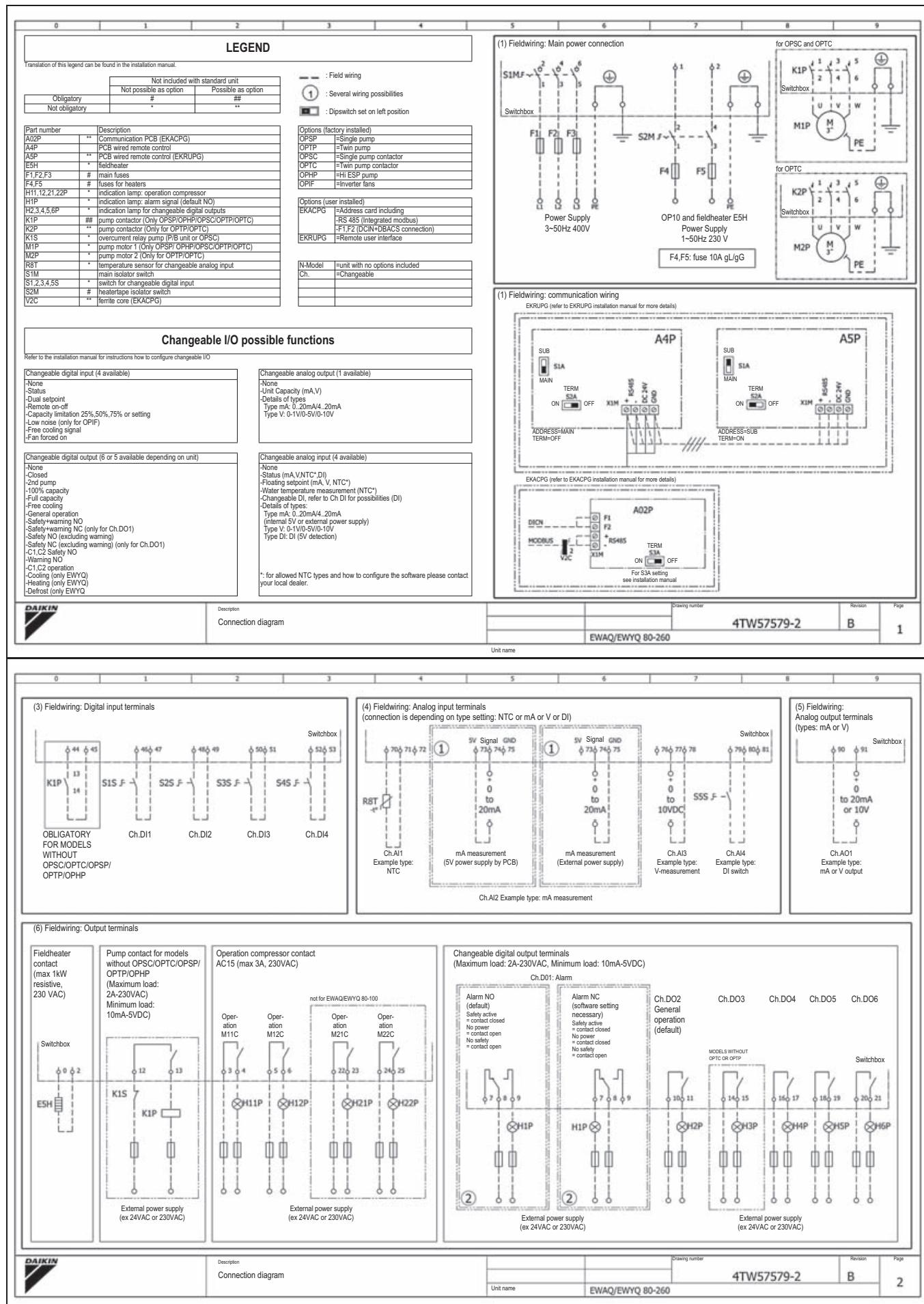
- ↔ : Check valve
- : Flare Conn.
- : Screw conn.

- : Flange conn.
- × : Pinched pipe
- : Spinned pipe

3TW57575-2A

7 External connection diagrams

7 - 1 External Connection Diagrams



8 Sound data

8 - 1 Sound Power Spectrum

EWAQ-EWYQ-DAYN(N-P-B)

| STD - Units LWE= 7°C / Tamb = 35°C | Sound power Lw per Octave band (dBA) | | | | | | | | Total (dBA) LwA |
|---------------------------------------|--------------------------------------|-----|-----|-----|------|------|------|------|--------------------|
| | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| EW(A/Y)Q080DAYN* | 64 | 69 | 72 | 82 | 81 | 77 | 71 | 62 | 86 |
| EW(A/Y)Q100DAYN* | 62 | 66 | 71 | 79 | 82 | 80 | 74 | 64 | 86 |
| EW(A/Y)Q130DAYN* | 64 | 70 | 73 | 81 | 85 | 80 | 72 | 61 | 88 |
| EW(A/Y)Q150DAYN* | 65 | 74 | 75 | 85 | 84 | 80 | 74 | 65 | 89 |
| EW(A/Y)Q180DAYN* | 70 | 75 | 79 | 85 | 86 | 82 | 75 | 64 | 90 |
| EW(A/Y)Q210DAYN* | 67 | 74 | 79 | 85 | 86 | 83 | 76 | 64 | 90 |
| EW(A/Y)Q(230/240)DAYN* | 71 | 72 | 77 | 87 | 86 | 83 | 77 | 67 | 91 |
| EW(A/Y)Q(250/260)DAYN* | 71 | 72 | 77 | 87 | 86 | 83 | 77 | 67 | 91 |

| OPLN - Units LWE= 7°C / Tamb = 35°C | Sound power Lw per Octave band (dBA) | | | | | | | | Total (dBA) LwA |
|--|--------------------------------------|-----|-----|-----|------|------|------|------|--------------------|
| | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| EW(A/Y)Q080DAYN* | 62 | 67 | 70 | 80 | 79 | 75 | 69 | 60 | 84 |
| EW(A/Y)Q100DAYN* | 60 | 64 | 69 | 77 | 80 | 78 | 72 | 62 | 84 |
| EW(A/Y)Q130DAYN* | 61 | 67 | 70 | 78 | 82 | 77 | 69 | 58 | 85 |
| EW(A/Y)Q150DAYN* | 62 | 71 | 72 | 82 | 81 | 77 | 71 | 62 | 86 |
| EW(A/Y)Q180DAYN* | 68 | 73 | 77 | 83 | 84 | 80 | 73 | 62 | 88 |
| EW(A/Y)Q210DAYN* | 65 | 72 | 77 | 83 | 84 | 81 | 74 | 62 | 88 |
| EW(A/Y)Q(230/240)DAYN* | 68 | 69 | 74 | 84 | 83 | 80 | 74 | 64 | 88 |
| EW(A/Y)Q(250/260)DAYN* | 68 | 69 | 74 | 84 | 83 | 80 | 74 | 64 | 88 |

| OPLN - Units LWE= 7°C / Tamb = 25°C | Sound power Lw per Octave band (dBA) | | | | | | | | Total (dBA) LwA |
|--|--------------------------------------|-----|-----|-----|------|------|------|------|--------------------|
| | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| EW(A/Y)Q080DAYN* | 61 | 66 | 69 | 79 | 78 | 74 | 68 | 59 | 83 |
| EW(A/Y)Q100DAYN* | 59 | 63 | 68 | 76 | 79 | 77 | 71 | 61 | 83 |
| EW(A/Y)Q130DAYN* | 60 | 66 | 69 | 77 | 81 | 76 | 68 | 57 | 84 |
| EW(A/Y)Q150DAYN* | 60 | 69 | 70 | 80 | 79 | 75 | 69 | 90 | 84 |
| EW(A/Y)Q180DAYN* | 66 | 71 | 75 | 81 | 82 | 79 | 72 | 60 | 86 |
| EW(A/Y)Q210DAYN* | 63 | 70 | 75 | 81 | 82 | 79 | 72 | 60 | 86 |
| EW(A/Y)Q(230/240)DAYN* | 67 | 68 | 73 | 83 | 82 | 79 | 73 | 63 | 87 |
| EW(A/Y)Q(250/260)DAYN* | 67 | 68 | 73 | 83 | 82 | 79 | 73 | 63 | 87 |

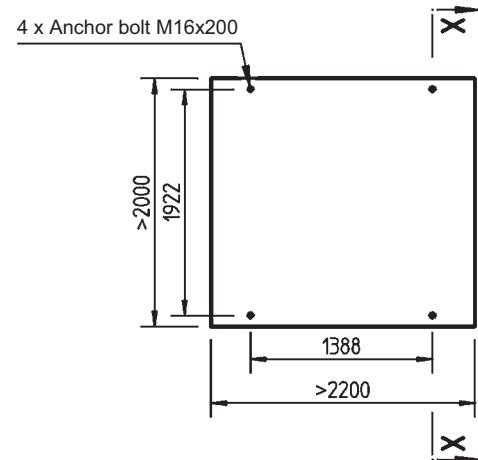
NOTES

- 1 Values of Sound power according to ISO9614-2
- 2 LWE= Leaving Water Evaporator temperature (°C)
Tamb= Ambient temperature

9 Installation

9 - 1 Fixation and Foundation of Units

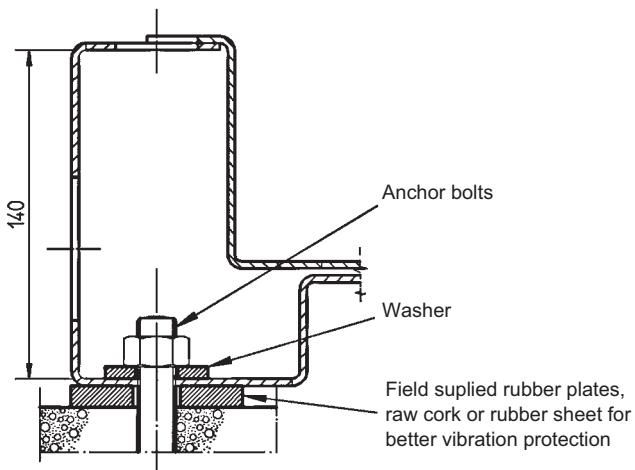
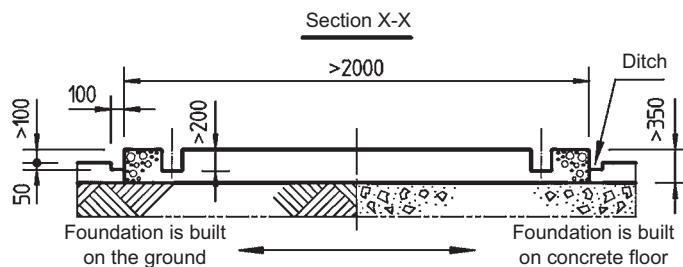
EWAQ-EWYQ080-150DAYN(N-P-B)



2

9

Fix anchor bolts into the concrete foundation. The concrete foundation should be higher than the floor level by approximately 100 mm for ease of plumbing work and better drain. Further, strength of the floor should be sufficient to support the weights of concrete foundation and unit. Be certain that foundation surface is even and flat.



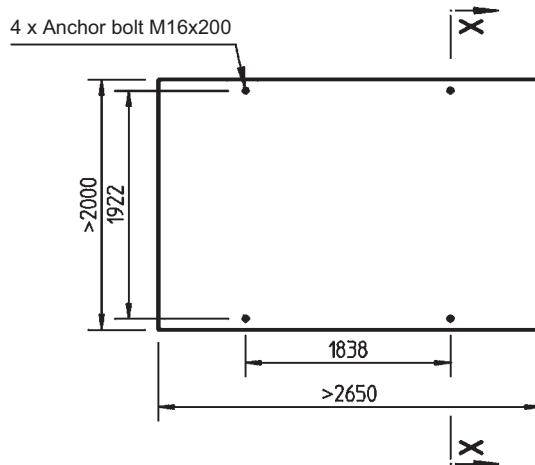
NOTES

- 1 The measurement tabulated is based on the fact the base is made in the ground or on a concrete floor. In case the base is made on a concrete floor. In case the base is made on a rigid concrete floor, it is possible to include thickness of concrete floor, in that of the base.
- 2 In case a base is made on concrete floor, be sure to provide a ditch as shown. It is important to extract drainage regardless of whether a base is made in the ground or on the concrete floor. (Ditch → Sewerage).
- 3 Ingredient ratio of the concrete is cement: 1, sand: 2, gravel: 3, which is standard and insert iron bars of Ø10 at every interval of 300mm. The edge of the concrete base should be planed.

9 Installation

9 - 1 Fixation and Foundation of Units

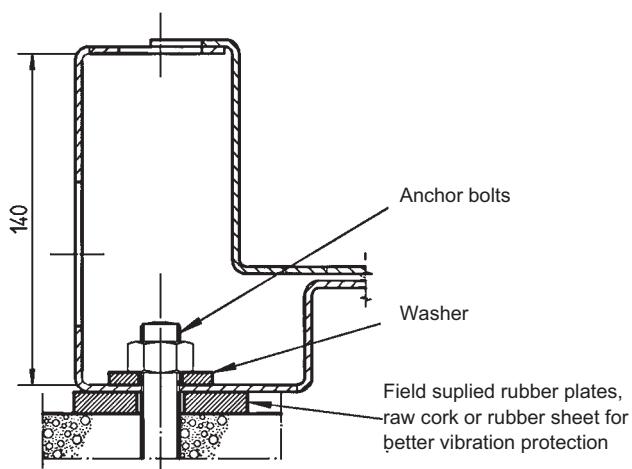
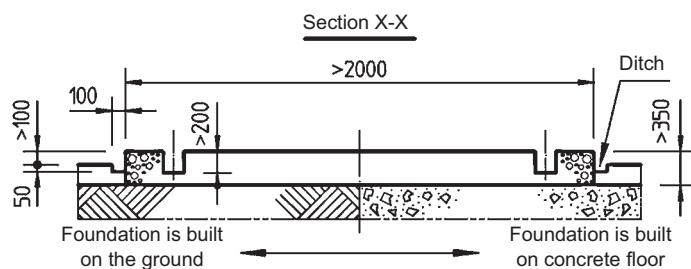
EWAQ-EYWQ180-210DAYN(N-P-B)



Fix anchor bolts into the concrete foundation.

The concrete foundation should be higher than the floor level by approximately 100 mm for ease of plumbing work and better drain. Further, strength of the floor should be sufficient to support the weights of concrete foundation and unit.

Be certain that foundation surface is even and flat.



NOTES

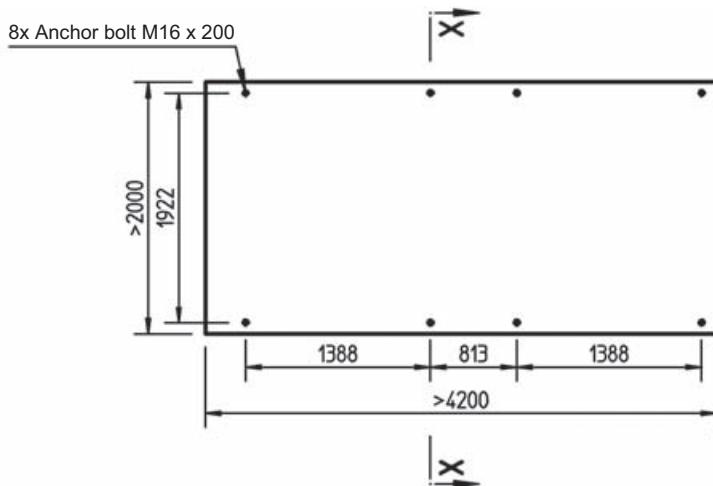
- 1 The measurement tabulated is based on the fact the base is made in the ground or on a concrete floor. In case the base is made on a concrete floor. In case the base is made on a rigid concrete floor, it is possible to include thickness of concrete floor, in that of the base.
- 2 In case a base is made on concrete floor, be sure to provide a ditch as shown. It is important to extract drainage regardless of whether a base is made in the ground or on the concrete floor. (Ditch → Sewerage).
- 3 Ingredient ratio of the concrete is cement: 1, sand: 2, gravel: 3, which is standard and insert iron bars of Ø10 at every interval of 300mm. The edge of the concrete base should be planed.

4TW57619-1

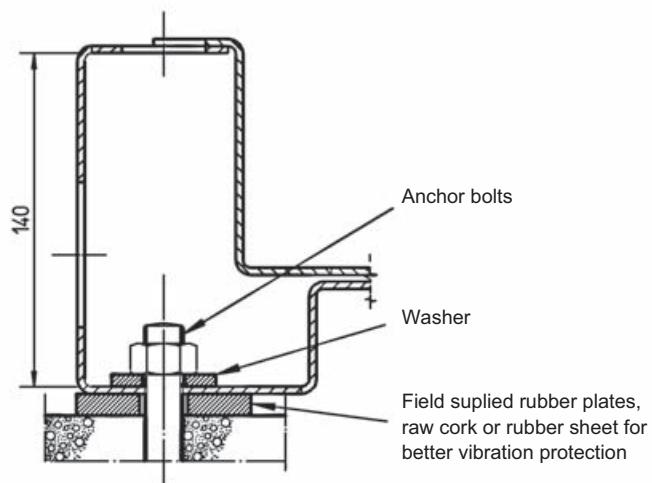
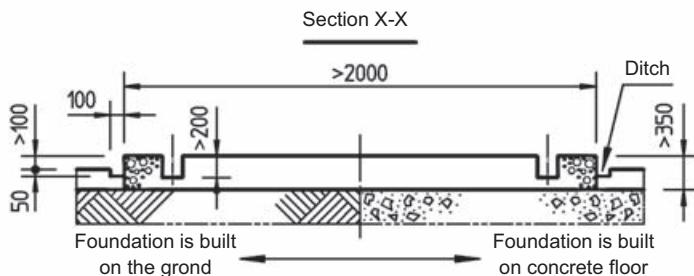
9 Installation

9 - 1 Fixation and Foundation of Units

EWAQ240-260DAYN(N-P-B)_EWYQ230-250DAYN(N-P-B)



Fix anchor bolts into the concrete foundation. The concrete foundation should be higher than the floor level by approximately 100 mm for ease of plumbing work and better drain. Further, strength of the floor should be sufficient to support the weights of concrete foundation and unit. Be certain that foundation surface is even and flat.



NOTES

- 1 The measurement tabulated is based on the fact the base is made in the ground or on a concrete floor. In case the base is made on a rigid concrete floor, it is possible to include thickness of concrete floor in that of the base.
- 2 In case a base is made on concrete floor, be sure to provide a ditch as shown. It is important to extract drainage regardless of whether a base is made in the ground or on the concrete floor. (Ditch → Sewerage).
- 3 Ingredient ratio of the concrete is cement: 1, sand:2, gravel:3, which is standard and insert iron bars of Ø10 at every interval of 300mm. The edge of the concrete base should be planed.

9 Installation

9 - 2 Water Charge, Flow and Quality

| ITEMS (1) (5) | Cooling water (3) | | Cooled water | | Heated water (2) | | Tendency if out of criteria |
|-------------------------|---|-------------------------|-------------------------|--------------------------------|-------------------------|---------------------------------|--------------------------------|
| | Circulating system | Once flow | Supply water (4) | Circulating water [Below 20°C] | Supply water (4) | Circulating water [60°C ~ 80°C] | |
| pH | at 25°C | 65~82 | 60~80 | 68~80 | 68~80 | 70~80 | 70~80 |
| Electrical conductivity | [$\mu\text{S}/\text{m}$] at 25°C [$\mu\text{S}/\text{cm}$] at 25°C (1) | Below 80 (Below 800) | Below 30 (Below 300) | Below 40 (Below 400) | Below 30 (Below 300) | Below 30 (Below 300) | Below 30 (Below 300) |
| Chloride ion | [mgCl] ¹ | Below 200 | Below 50 | Below 50 | Below 50 | Below 50 | Below 30 Corrosion + scale |
| Sulfate ion | [mgSO ₄] ²⁻ | Below 200 | Below 50 | Below 50 | Below 50 | Below 50 | Below 30 Corrosion + scale |
| M-alkalinity (pH4.8) | [mgCaCO ₃] ¹ | Below 100 | Below 50 | Below 50 | Below 50 | Below 50 | Below 30 Corrosion + scale |
| Total hardness | [mgCaCO ₃] ¹ | Below 200 | Below 70 | Below 70 | Below 70 | Below 70 | Below 70 Scale |
| Calcium hardness | [mgCaCO ₃] ¹ | Below 150 | Below 50 | Below 50 | Below 50 | Below 50 | Below 50 Scale |
| Silica ion | [mgSiO ₂] ¹ | Below 50 | Below 30 | Below 30 | Below 30 | Below 30 | Below 30 Scale |
| Iron | [mgFe] ¹ | Below 1.0 | Below 0.3 | Below 1.0 | Below 0.3 | Below 1.0 | Below 0.3 Corrosion + scale |
| Copper | [mgCu] ¹ | Below 0.3 | Below 0.1 | Below 1.0 | Below 1.0 | Below 1.0 | Below 0.1 Corrosion |
| Sulfite ion | [mgS ²⁻] ¹ | Not detectable | Not detectable | Not detectable | Not detectable | Not detectable | Not detectable Corrosion |
| Ammonium ion | [mgNH ₄] ⁺ | Below 1.0 | Below 0.1 | Below 1.0 | Below 0.1 | Below 0.1 | Below 0.1 Corrosion |
| Remaining chloride | [mgCl] ¹ | Below 0.3 | Below 0.3 | Below 0.3 | Below 0.25 | Below 0.3 | Below 0.1 Corrosion |
| Free carbide | [mgCO ₂] ¹ | Below 4.0 | Below 4.0 | Below 4.0 | Below 0.4 | Below 0.4 | Below 0.4 Corrosion |
| Stability index | 60~7.0 | --- | --- | --- | --- | --- | --- |

3TW50179-1

1 Names, definitions and units are according to JIS K 0101. Units and figures between brackets are old units published as reference only.

2 In case of using heated water (more than 40°C), corrosion is generally noticeable.

Especially when the iron material is in direct contact with water without any protection shields, it is desirable to give the valid measures for corrosion e.g. chemical measure.

3 In the cooling water using hermetic cooling tower, closed circuit water is according to heated water standard, and scattered water is according to cooling water standard.

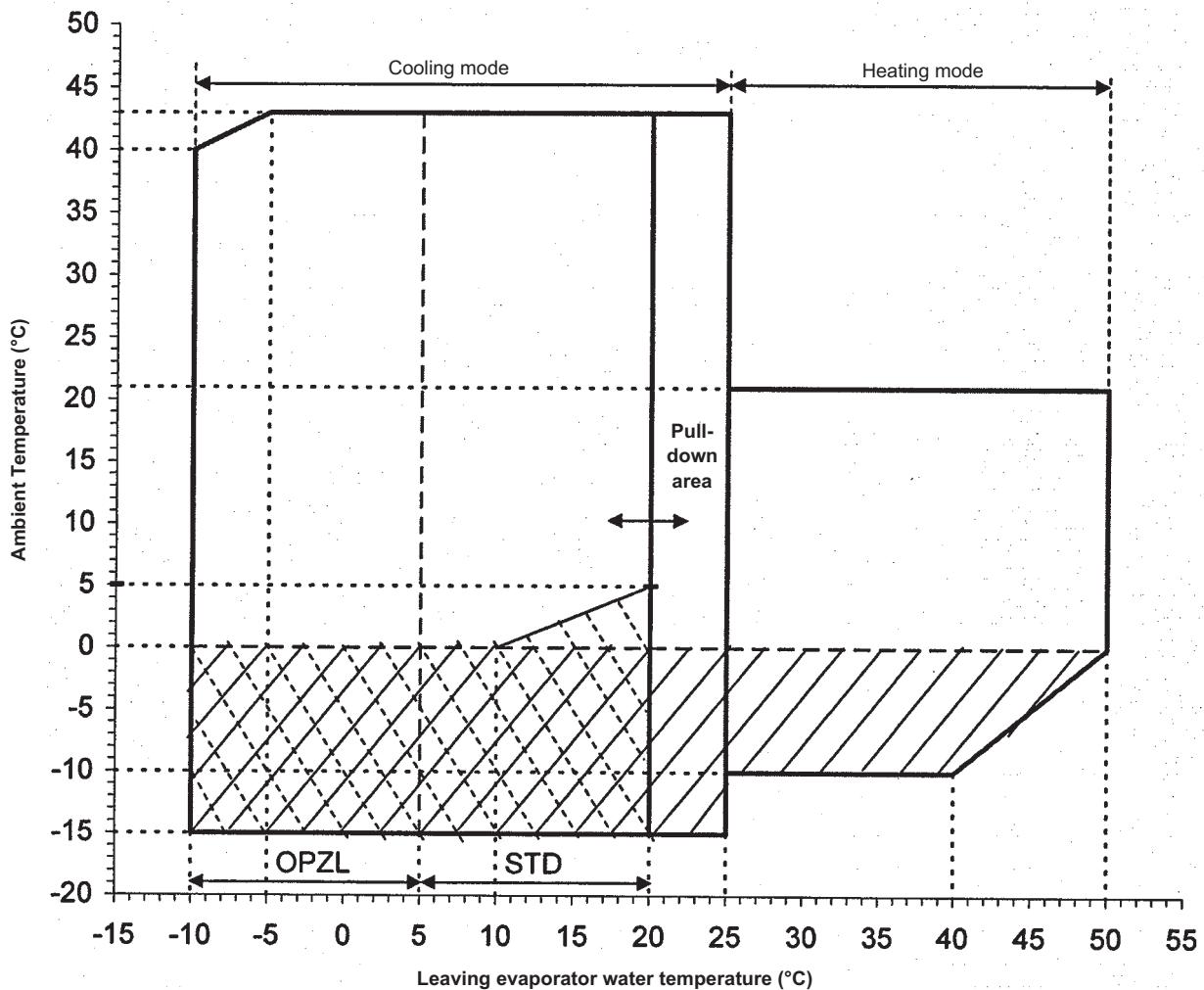
4 Supply water is considered drink water, industrial water and ground water except for genuine water, neutral water and soft water.

5 The above mentioned items are representable items in corrosion and scale cases.

10 Operation range

10 - 1 Operation Range

EWYQ080-100-180-210-230-250DAYN(N-P-B)



STD: Standard unit

OPZL: Leaving water evaporator from -10 to 5°C by use of glycol



Protect the water circuit against freezing by:

- * OR OP10: heater tape
- * Or filling up the system with a glycol solution



OPIF: Option Inverter Fans EWYQ080-100-180-210-230-250

3TW57703-1A

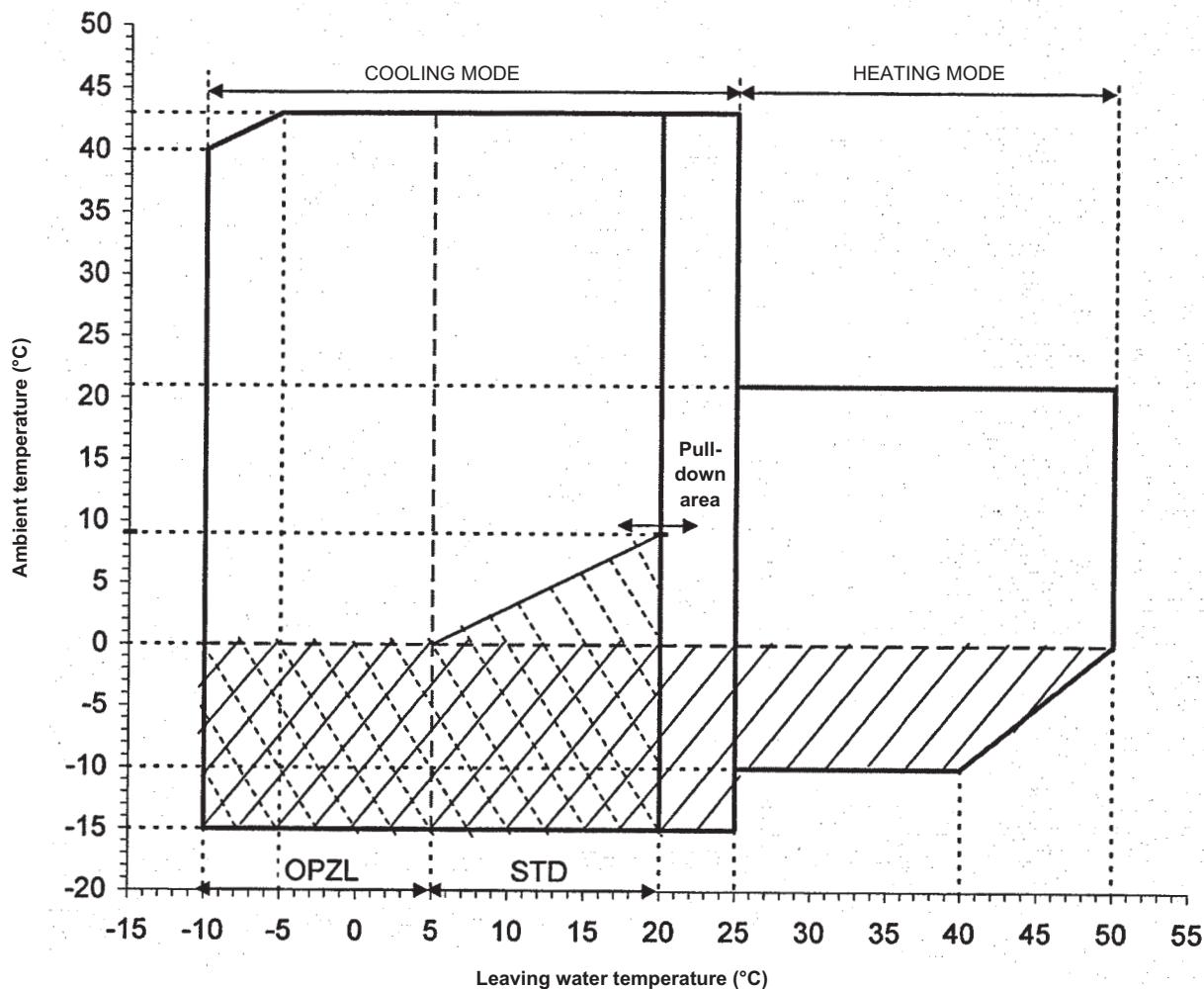
10 Operation range

10 - 1 Operation Range

EWYQ130-150DAYN(N-P-B)

2

10



STD: Standard unit

OPZL: Leaving water evaporator from -10 to 5°C by use of glycol



Protect the water circuit against freezing by:

- * OR OP10: heater tape
- * Or filling up the system with a glycol solution



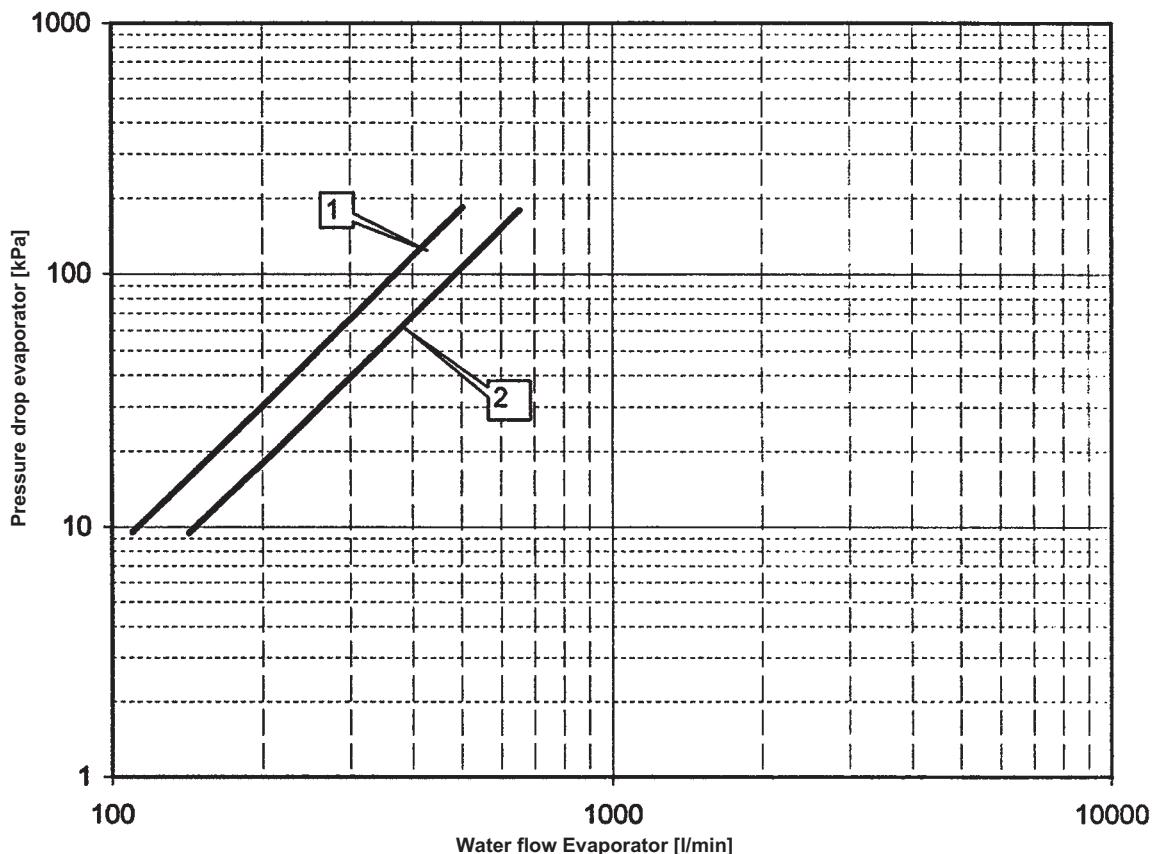
OPIF Option Inverter Fans EWYQ130-150

4TW57673-1

11 Hydraulic performance

11 - 1 Water Pressure Drop Curve Evaporator

EWYQ80-100DAYN(N-P-B)



1. EWYQ80DAYN*

2. EWYQ100DAYN*

Warning:

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.

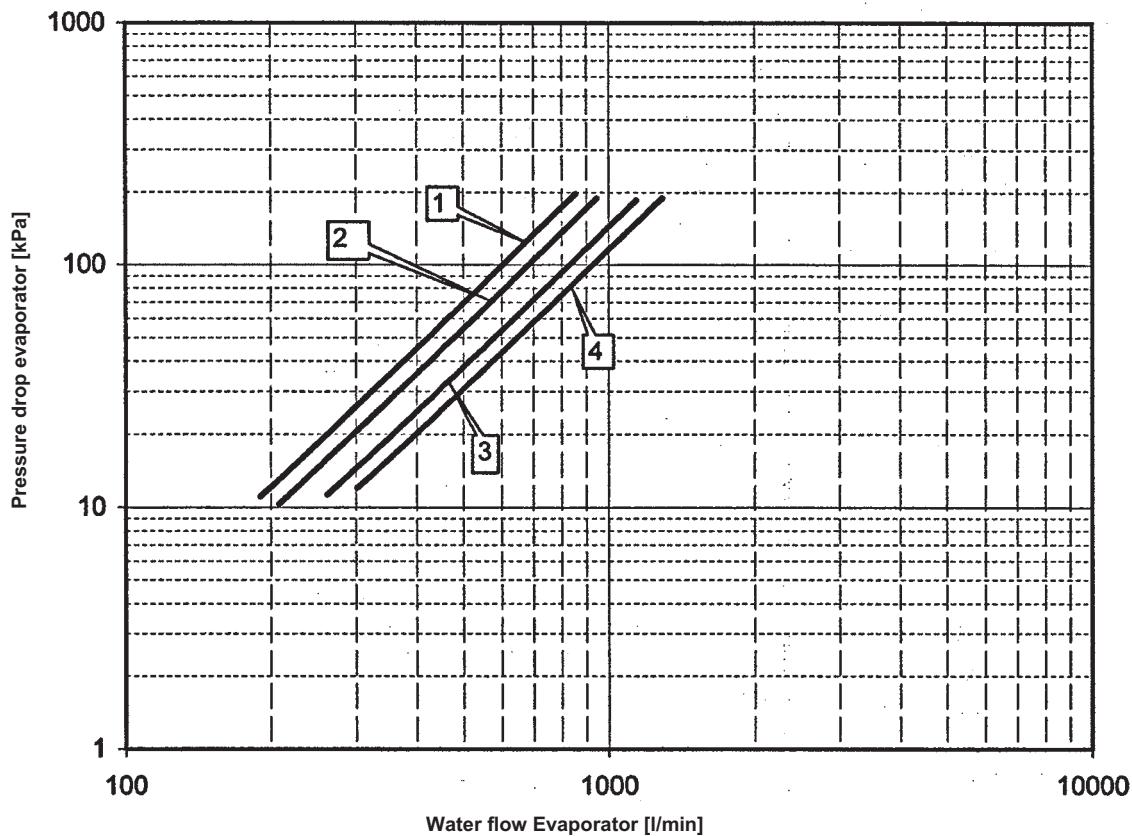
11 Hydraulic performance

11 - 1 Water Pressure Drop Curve Evaporator

EWYQ130-210DAYN(N-P-B)

2

11



1. EWYQ130DAYN*
2. EWYQ150DAYN*
3. EWYQ180DAYN*
4. EWYQ210DAYN*

Warning:

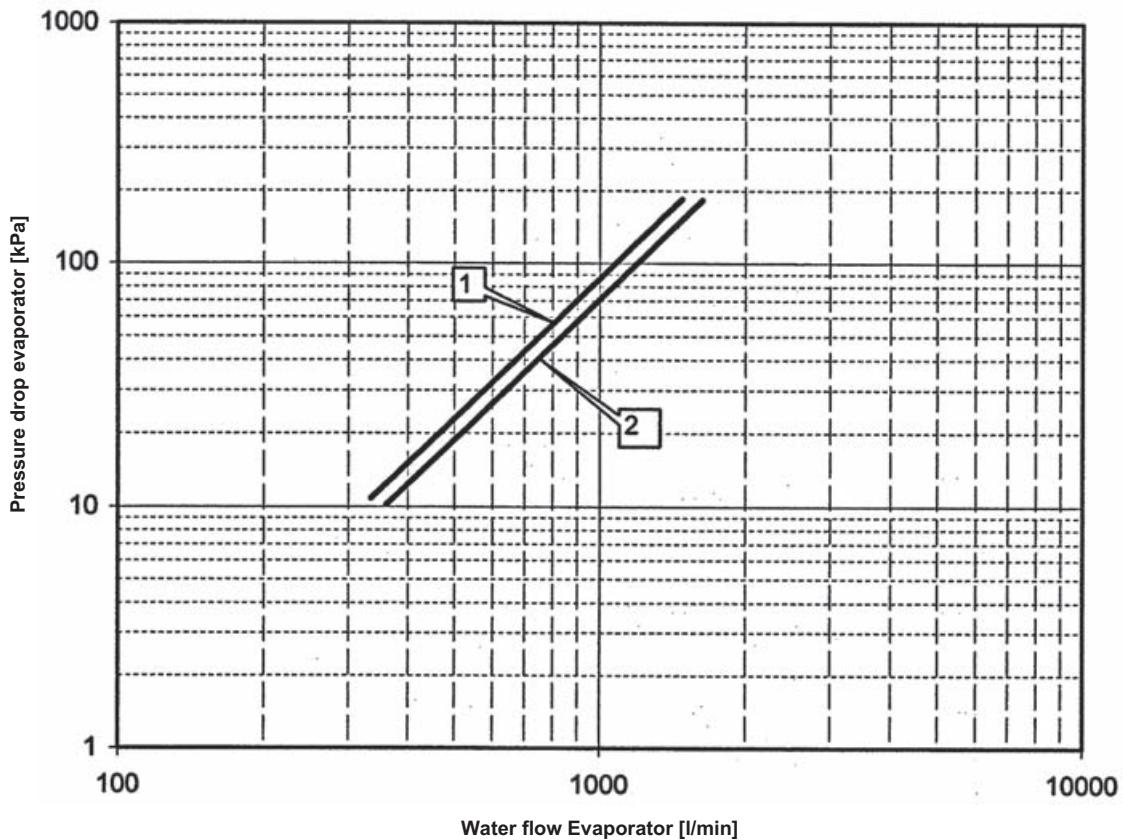
Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.

4TW57679-5

11 Hydraulic performance

11 - 1 Water Pressure Drop Curve Evaporator

EWYQ230-250DAYN(N-P-B)



1. EWYQ230DAYN*

2. EWYQ250DAYN*

Warning:

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.

4TW57719-5

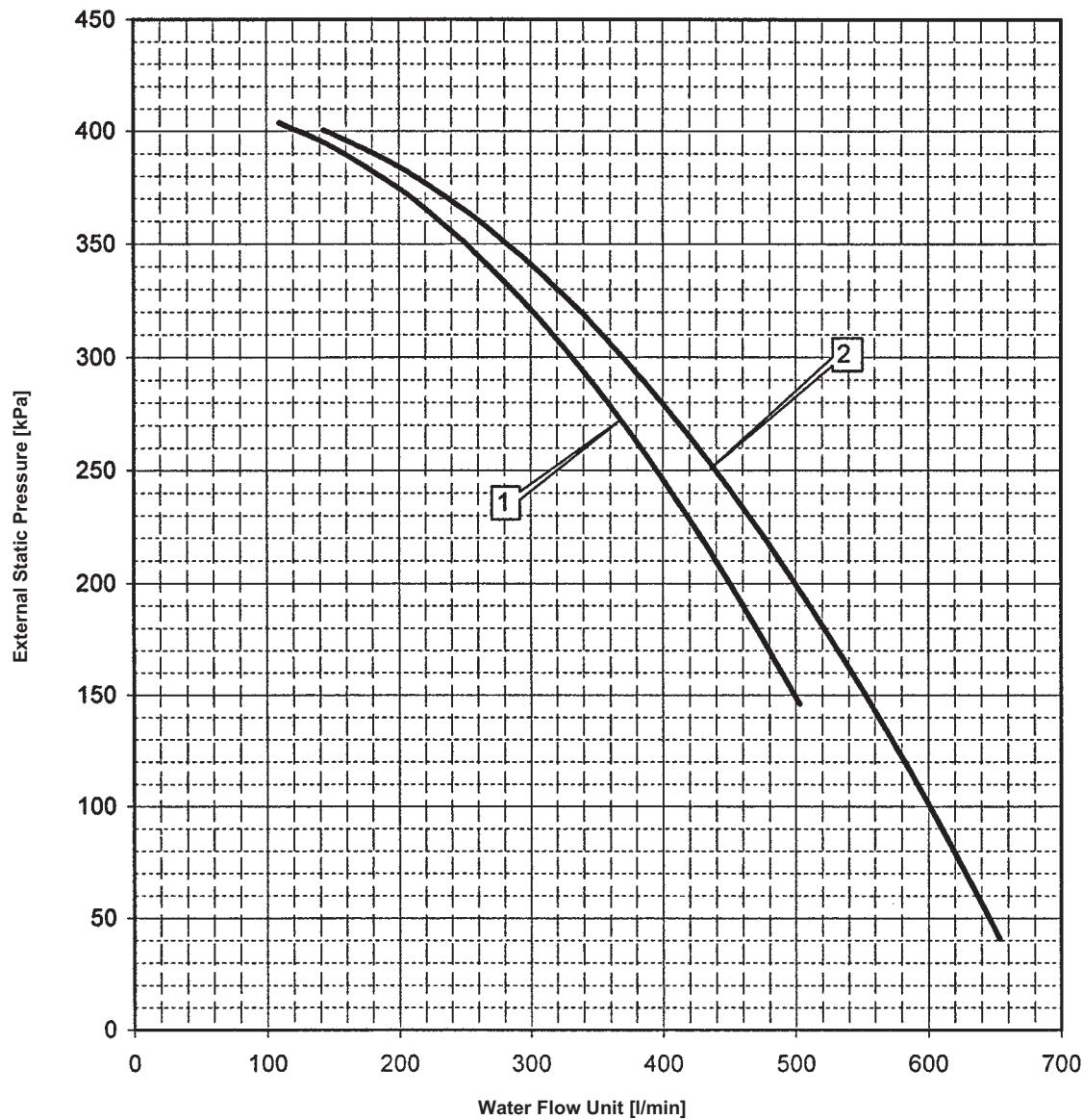
11 Hydraulic performance

11 - 2 Static Pressure Drop Unit

EWYQ080-100DAYN(OPHP)

2

11



1. EWYQ080DAYN* + OPHP

2. EWYQ100DAYN* + OPHP

Warning:

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.

4TW57659-9

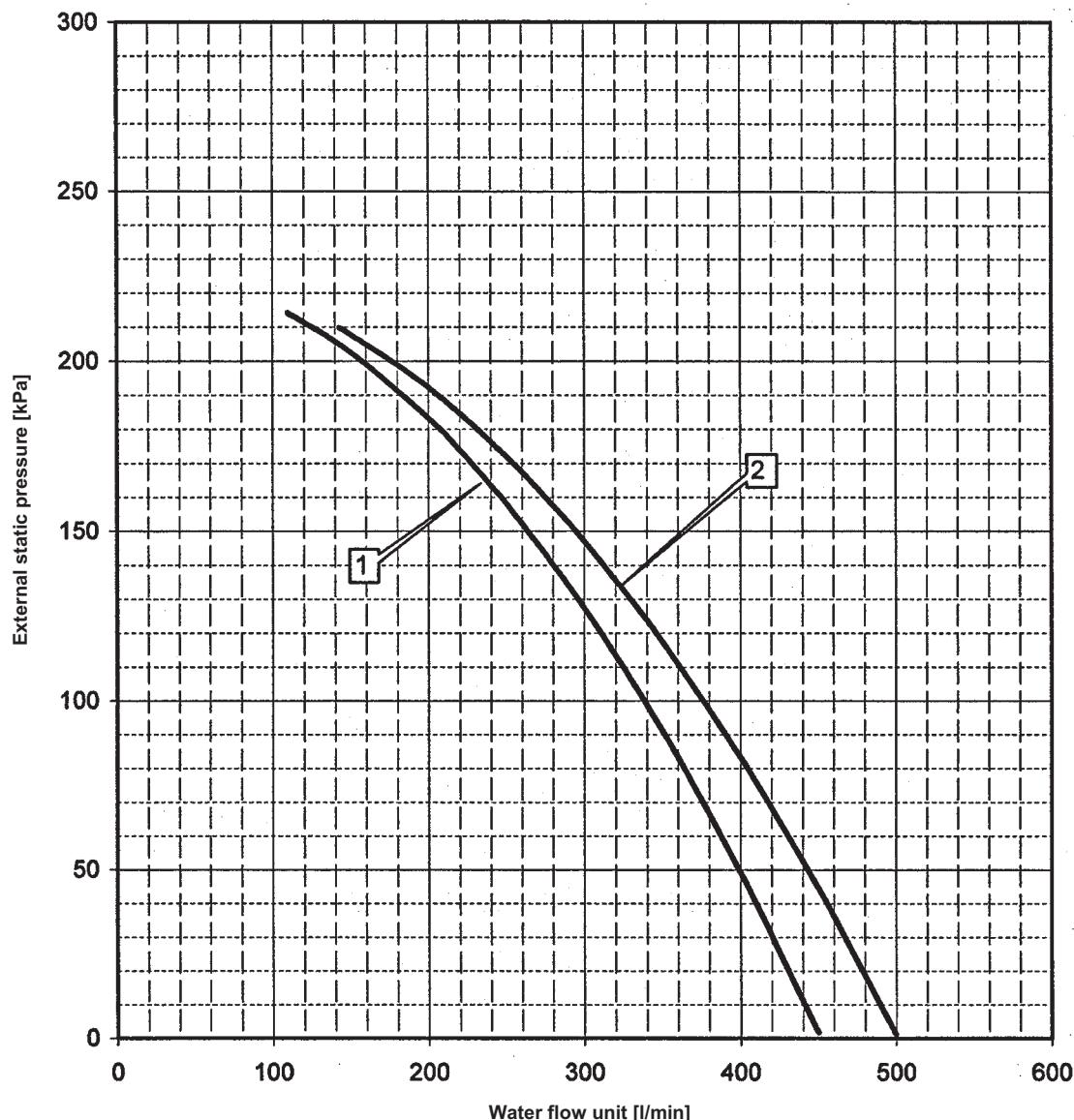
11 Hydraulic performance

11 - 2 Static Pressure Drop Unit

2

11

EWYQ080-100DAYN*



1. EWAQ080DAYN* + OPSP/OPTP
2. EWAQ100DAYN* + OPSP/OPTP

Warning:

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.

4TW57659-4A

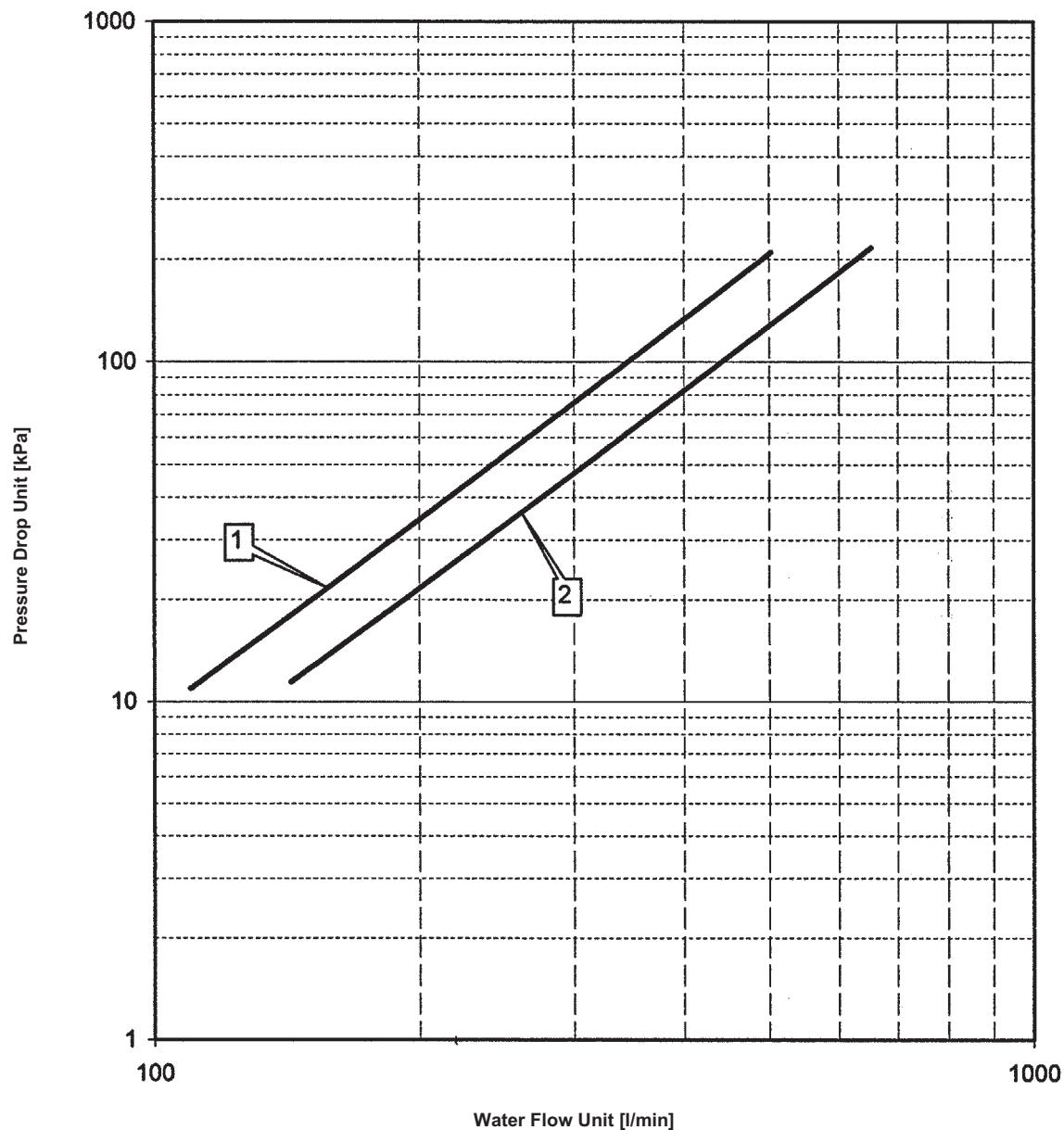
11 Hydraulic performance

11 - 2 Static Pressure Drop Unit

EWYQ080-100DAYN(N)

2

11



1. EWYQ080DAYN* Standard model
 2. EWYQ100DAYN* Standard model

Warning:

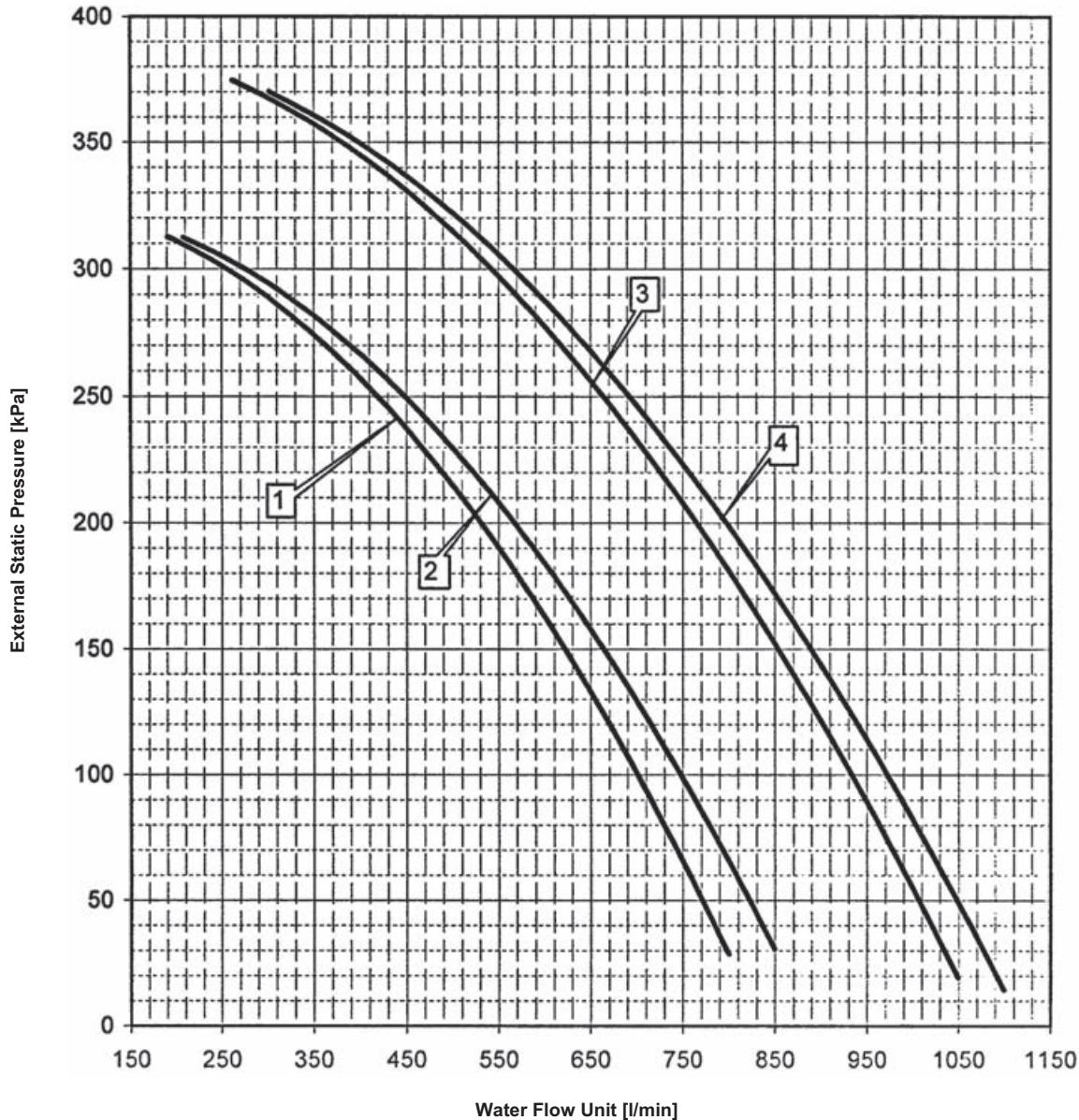
Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.

4TW57659-7

11 Hydraulic performance

11 - 2 Static Pressure Drop Unit

EWYQ130-210DAYN (OPHP)



1. EWYQ130DAYN* + OPHP

2. EWYQ150DAYN* + OPHP

3. EWYQ180DAYN* + OPHP

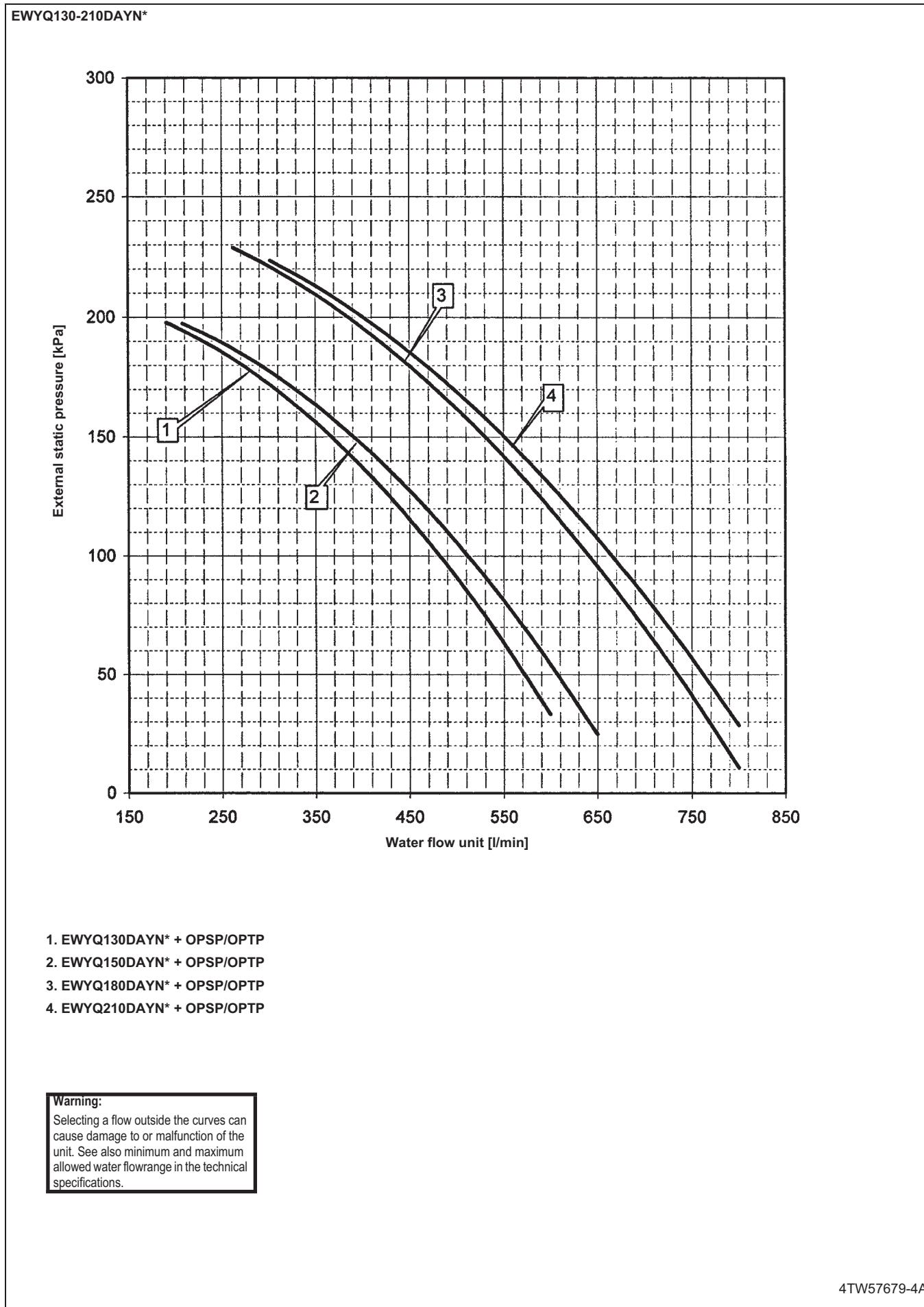
4. EWYQ210DAYN* + OPHP

Warning:

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.

11 Hydraulic performance

11 - 2 Static Pressure Drop Unit



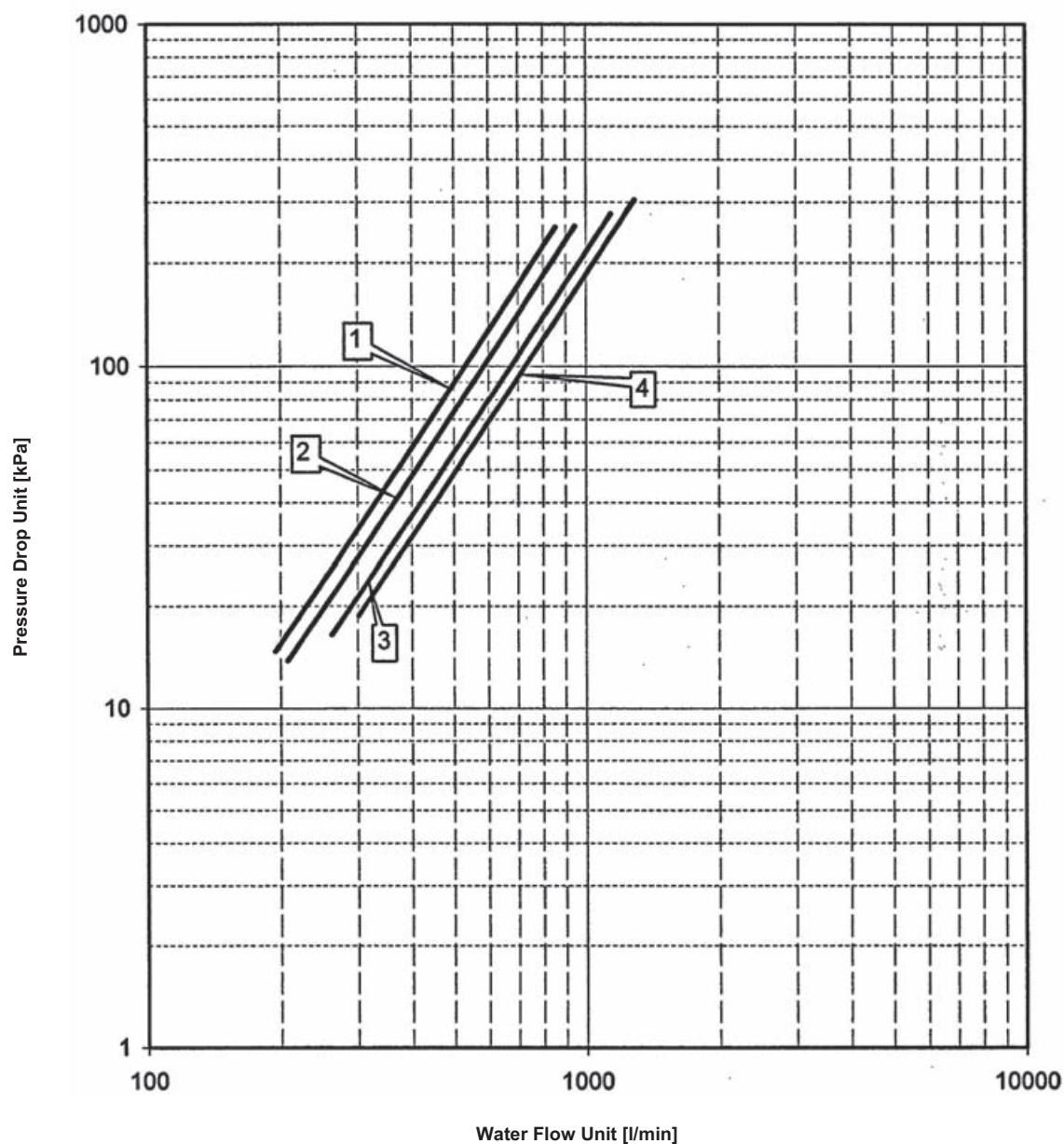
11 Hydraulic performance

11 - 2 Static Pressure Drop Unit

2

11

EWYQ130-210DAYN(N)



1. EwyQ130DAYN* Standard model
2. EwyQ150DAYN* Standard model
3. EwyQ180DAYN* Standard model
4. EwyQ210DAYN* Standard model

Warning:

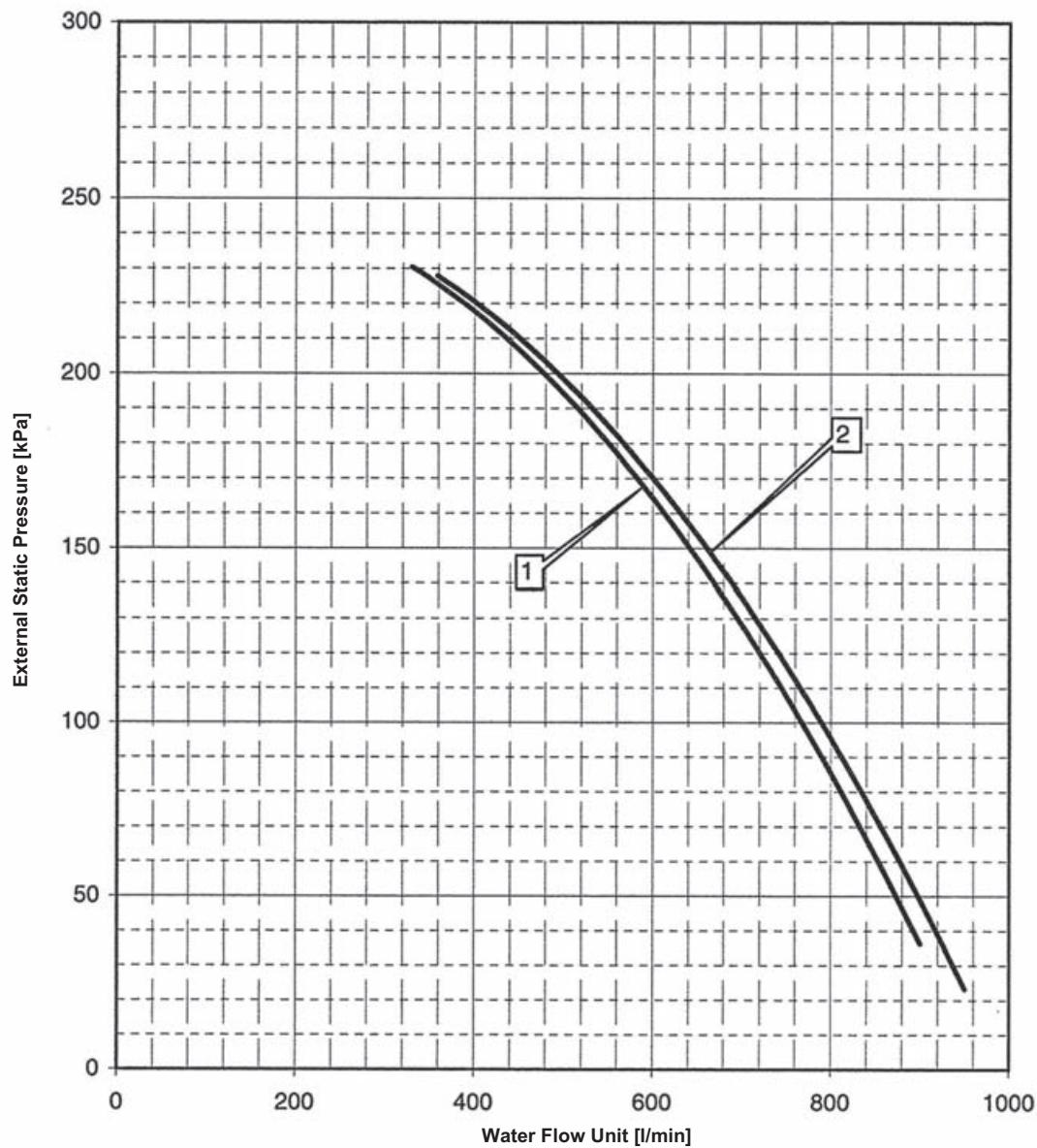
Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.

4TW57679-7

11 Hydraulic performance

11 - 2 Static Pressure Drop Unit

EWYQ230-250DAYN*



1. EWAQ230DAYN* + OPSP/OPTP
 2. EWAQ250DAYN* + OPSP/OPTP

Warning:

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.

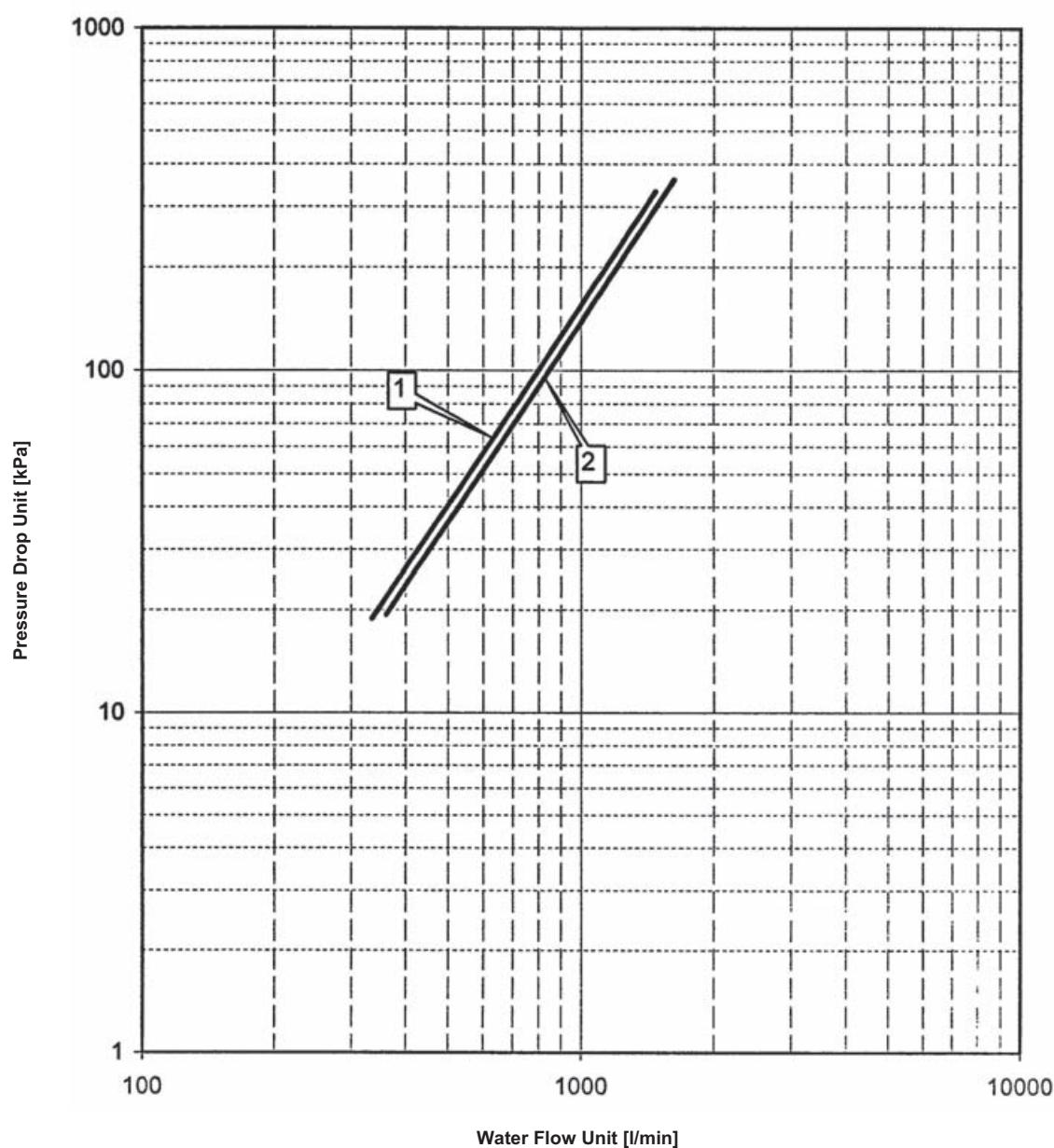
11 Hydraulic performance

11 - 2 Static Pressure Drop Unit

2

11

EWYQ230-250DAYN(N)



1. EWYQ230DAYN* Standard model
2. EWYQ250DAYN* Standard model

Warning:

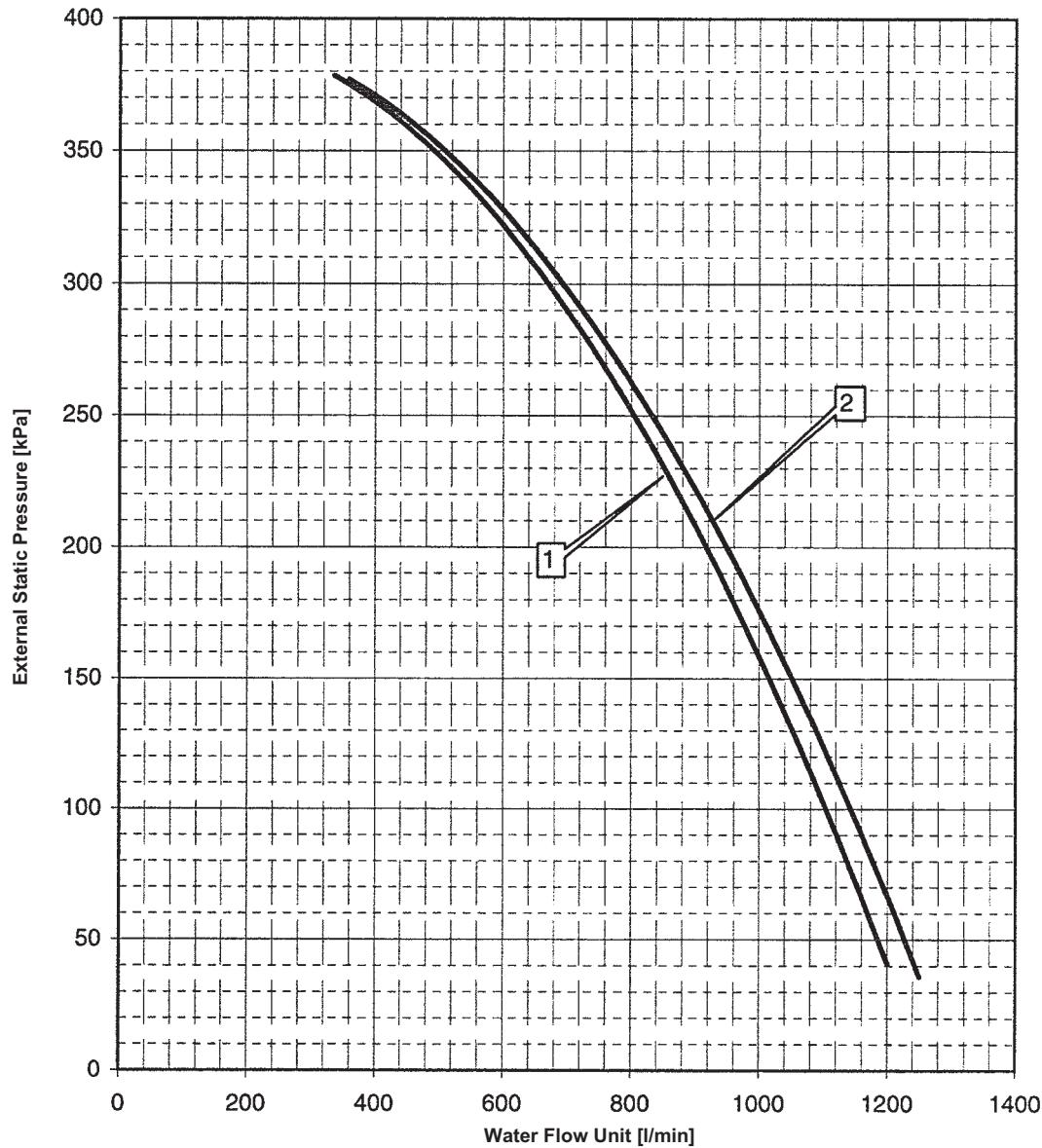
Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.

4TW57719-7

11 Hydraulic performance

11 - 2 Static Pressure Drop Unit

EWYQ230-250DAYN(OPHP)



1. EWYQ230DAYN* + OPHP

2. EWYQ250DAYN* + OPHP

Warning:

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.

4TW57719-9A



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ECDEN11-405