

technical data



Applied Systems

Air-cooled
EWAQ080-260DAYN

R-410A



Air-cooled EWAQ080-260DAYN



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intension to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.



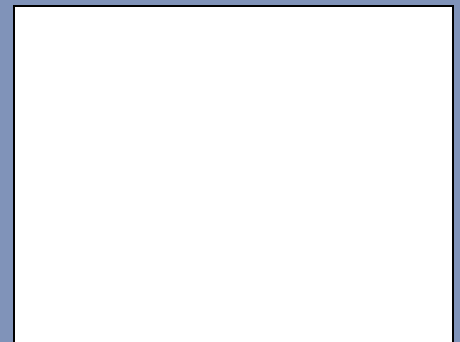
Daikin units comply with the European regulations that guarantee the safety of the product.



Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FC); the certified data of certified models are listed in the Eurovent Directory.

Specifications are subject to change without prior notice

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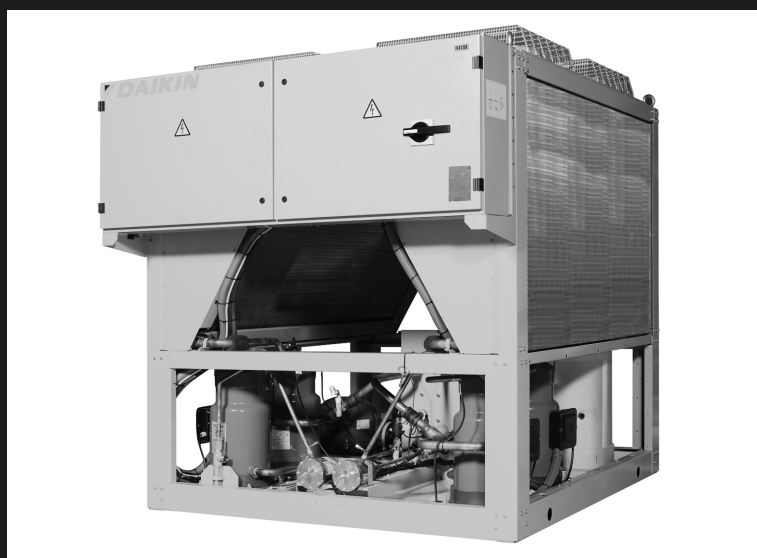
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EWAQ080-260DAYN

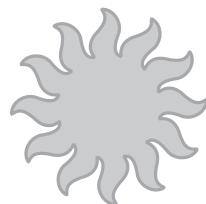
R-410A



Cooling only



Heating only



Heat pump



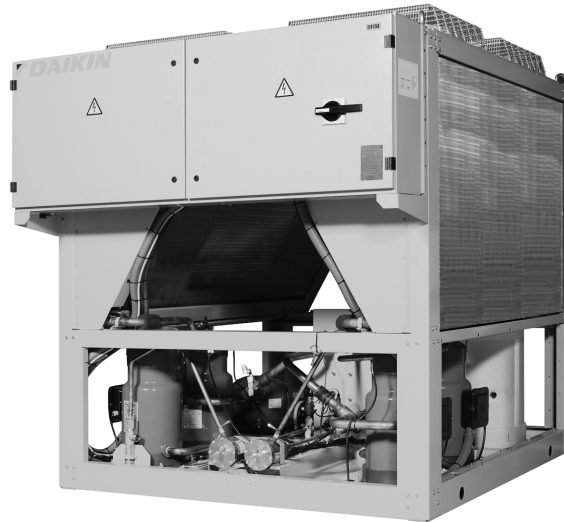
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EWAQ-DAYN

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1 Features

- Wide capacity range: 80 to 260kW with 8 cooling only models
- R-410A refrigerant
- Multiple refrigerant circuits and multiple compressors per circuit
- Reliable and efficient scroll with high EER values
- Good part load efficiency (seasonal EER)
- Anti-corrosion treated aluminium coils
- Low operating noise levels
- Easy 'plug and play' installation
- Unit dimensions allow easy transport
- Fans protected against abnormal operation (4 - 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 side of unit
- Increased reliability via 2 independent refrigerant circuits
- Double circuit heat exchanger (from >100 kW)
- Non hermetic filter/dryer
- New Daikin controller (Pcaso) with user friendly and powerful LCD interface



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2 Specifications

| 2-1 TECHNICAL SPECIFICATIONS | | | | EWAQ080DAYN | EWAQ100DAYN | EWAQ130DAYN | EWAQ150DAYN | EWAQ180DAYN | EWAQ210DAYN | EWAQ240DAYN | EWAQ260DAYN | |
|--|------------------------------------|---|---------------------|-------------|-------------|----------------|----------------|--------------------------|----------------|--------------------------|----------------|-------|
| Capacity (Eurovent conditions specified in notes) | Cooling | Nominal | kW | 80 | 105 | 131 | 152 | 182 | 209 | 230 | 254 | |
| Capacity Steps | | | % | 0-50-100 | 0-50-100 | 0-25-50-75-100 | 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 | |
| Nominal input (Eurovent conditions specified in notes) | Cooling | | kW | 26.4 | 36.2 | 46.6 | 56.3 | 64.5 | 74.6 | 82.2 | 94.0 | |
| EER | | | | 3.03 | 2.90 | 2.81 | 2.70 | 2.82 | 2.80 | 2.80 | 2.70 | |
| ESEER | | | | 4.00 | 4.00 | 4.34 | 4.17 | 4.36 | 4.32 | 4.32 | 4.17 | |
| Casing | Colour | Ivory white | | | | | | | | | | |
| | Material | Polyester painted galvanised steel plate | | | | | | | | | | |
| Dimensions | Unit | Height | mm | 2311 | 2311 | 2311 | 2311 | 2311 | 2311 | 2311 | 2311 | |
| | | Width | mm | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | |
| | | Depth | mm | 2566 | 2566 | 2631 | 2631 | 3081 | 3081 | 4850 | 4850 | |
| Weight | Unit | | kg | 1350 | 1400 | 1500 | 1550 | 1800 | 1850 | 3150 | 3250 | |
| | Operating Weight | | kg | 1315 | 1415 | 1517 | 1569 | 1825 | 1877 | 3189 | 3292 | |
| | Gross weight | | kg | 1400 | 1450 | 1550 | 1600 | 1850 | 1900 | 3200 | 3300 | |
| Water Heat Exchanger | Type | Brased plate | | | | | | | | | | |
| | Filter | Type | STRAINER GALVANIZED | | | | | | | | | |
| | | Diameter perforations | mm | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Minimum water volume in the system | | l | 358 | 470 | 295 | 341 | 408 | 468 | 529 | 579 | |
| | Water flow rate | Min | | l/min | 115 | 151 | 188 | 218 | 261 | 300 | 339 | 371 |
| | | Max | | l/min | 459 | 602 | 754 | 871 | 1043 | 1198 | 1355 | 1483 |
| Nominal Water Flow | Cooling | Total | kPa | 59 | 58 | 52 | 49 | 52 | 53 | 51 | 49 | |
| Water Heat Exchanger | Insulation material | Foamed synthetic elastomer | | | | | | | | | | |
| | Model | Quantity | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | Model | | PT120 | PT120 | DV47 | DV47 | DV58 | DV58 | DV58 | DV58 | |
| Air heat exchanger | Type | Cross fin coil / Hi-Xss tubes and PE coated | | | | | | | | | | |
| | Rows | | | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | Stages | | | 56 | 56 | 48 | 56 | 56 | 56 | 48 | 48 | |
| | Fin Pitch | | mm | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | |
| | Face Area | | m ² | 2.46 | 2.46 | 2.11 | 2.46 | 3.02 | 3.02 | 2.11 | 2.11 | |
| | No. of coils | | | 4 | 4 | 4 | 4 | 4 | 4 | 8 | 8 | |
| Hydraulic components | Unit water volume | | l | 15 | 15 | 17 | 19 | 25 | 27 | 39 | 42 | |
| | Nominal water pressure drop unit | | kPa | 66 | 67 | 64 | 63 | 72 | 79 | 83 | 88 | |
| Fan | Drive | Direct drive | | | | | | | | | | |
| | Nominal air flow | | m ³ /min | 780 | 780 | 800 | 860 | 1290 | 1290 | 1600 | 1600 | |
| | Model | Quantity | | | 4 | 4 | 4 | 4 | 6 | 6 | 8 | 8 |
| | | Speed | | rpm | 880 | 880 | 900 | 970 | 970 | 970 | 900 | 900 |
| | | Motor Output | | W | 500 | 500 | 600 | 1000 | 1000 | 1000 | 600 | 600 |
| | | Discharge direction | | | Vertical | | | | | | | |
| Compressor | Type | Scroll compressor | | | | | | | | | | |
| | Refrigerant oil type | Daphne FVC68D | | | | | | | | | | |
| | Refrigerant oil charge | | l | 6.2 | 6.2 | 3.3 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | |
| | Model | Quantity | | | 2 | 2 | 4 | 4 | 2 | 4 | 2 | 4 |
| | | Model | | | SJ180 | SJ240 | SJ161 | SJ180 | SJ180 | SJ240 | SJ240 | SJ300 |
| | | Speed | | rpm | 2900 | 2900 | 2900 | 2900 | 2900 | 2900 | 2900 | 2900 |
| | | Quantity | | | | | | | 2 | | 2 | |
| | | Model | | | | | | | SJ240 | | SJ300 | |
| Speed | | | rpm | | | | | 2900 | | 2900 | | |
| Sound Level | | Sound Power | Cooling | dBA | 86 | 86 | 88 | 89 | 90 | 91 | 91 | 93 |

2 Specifications

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| 2-1 TECHNICAL SPECIFICATIONS | | | EWAQ080DAYN | EWAQ100DAYN | EWAQ130DAYN | EWAQ150DAYN | EWAQ180DAYN | EWAQ210DAYN | EWAQ240DAYN | EWAQ260DAYN | |
|---|-------------------------------------|----------------------------|---|-------------|---|-------------|---|-------------|--|-------------|--|
| Refrigerant circuit | Refrigerant type | | R-410A | | | | | | | | |
| | Refrigerant charge | kg | 33 | 33 | 19 | 25 | 29 | 28 | 39 | 39 | |
| | | kg | | | 19 | 25 | | | 39 | 39 | |
| | No of circuits | | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Refrigerant control | | Electronic expansion valve | | | | | | | | | |
| Piping connections | Water heat exchanger inlet / outlet | | 3"OD | 3"OD | 3" OD | 3" OD | 3" OD | 3" OD | 3" | 3" | |
| | Water heat exchanger drain | | 1/2" G | | | | | | | | |
| Safety Devices | | | High pressure switch | | High pressure (pressure switch) | | | | | | |
| | | | Pressure relief valve | | | | | | | | |
| | | | Low pressure protection | | | | | | Low pressure safety | | |
| | | | Freeze up protection | | | | | | | | |
| | | | Flowswitch | | | | | | | | |
| | | | Discharge temperature control | | | | | | | | |
| | | | Reverse phase protector | | | | | | | | |
| | | | Electronic protection module compressors (only for SJ180 SJ240) | | Electronic protection module compressors (only for SJ180) | | Electronic protection module compressors (only for SJ180 SJ240) | | Electronic protection module compressors | | |
| Overcurrent relays for compressors and fans | | | | | | | | | | | |
| Notes | | | Nominal cooling capacity at Eurovent conditions: Evaporator 12×C/7×C; ambient 35×C | | | | | | | | |
| | | | Nominal cooling power input at Eurovent conditions: Evaporator 12×C/7×C; ambient 35×C (=Power input compressors + fans + electrical circuit) | | | | | | | | |
| | | | Minimum required watervolume for standard thermostat settings and at nominal conditions | | | | | | | | |

| 2-2 ELECTRICAL SPECIFICATIONS | | | EWAQ080DAYN | EWAQ100DAYN | EWAQ130DAYN | EWAQ150DAYN | EWAQ180DAYN | EWAQ210DAYN | EWAQ240DAYN | EWAQ260DAYN | |
|-------------------------------|---|---------|--|---|---|----------------|---|----------------|---|----------------|----------------|
| Power Supply | Phase | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | |
| | Voltage | | V | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 |
| | Voltage Tolerance | Minimum | % | -10% | | | | | | | |
| Maximum | | % | +10% | | | | | | | | |
| Unit | Starting Current | | A | 201 (max 240) | 221 (max 272) | 161 (max. 269) | 199 (max. 320) | 221 (max. 357) | 221 (max. 368) | 266 (max. 426) | 266 (max. 468) |
| | Nominal Running Current 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 | | | 3x125gL | 3x160gL | 3x200gL | 3x200gL | 3x250gL | 3x250gL | 3x300gL | 3x355gL |
| Fan | Starting Method | | Direct On-Line | | | | | | | | |
| | Maximum Running Current | A | 1.5 | 1.5 | 1.4 | 2.1 | 2.1 | 2.1 | 1.6 | 1.6 | |
| Compressor | Starting current | | A | 195 | 215 | 158 | 195 | 195/215 | 215 | 215/260 | 260 |
| | Nominal running current (RLA) | | A | 25/25 | 31/31 | 19/19 | 25/25 | 25/31 | 31/31 | 31/40 | 40/40 |
| | Maximum Running Current | | A | 39 | 51 | 35 | 39 | 39/51 | 51 | 51/65 | 65 |
| | Starting Method | | Direct on line | | | | | | | | |
| Control Circuit | Phase | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | |
| | Voltage | | V | 230V (supplied by factory installed transformers) | | | | | | | |
| | Crankcase heater (E1/2HC) | | W | 2x75 | 2x75 | 4x65 | 4x75 | 4x75 | 4x75 | 75 | 75 |
| Notes | | | Starting current of the unit = maximum running current 4 fans + starting current 1 compressor | | Starting current of the unit = Maximum running current 2 fans (1 circuit) + starting current 1 compressor | | Starting current of the unit = maximum running current 3 fans (1 circuit) + starting current 1 compressor | | Initial starting current = maximum running current 4 fans + starting current 1 compressor | | |
| | | | Maximum starting current = maximum running current 4 fans + maximum running current 1 compressor + starting current 1 compressor | | Max. starting current of the unit = Maximum running current 4 fans + max. running current 3 compressors + starting current 1 compressor | | Maximum starting current = maximum running current 6 fans + maximum running current 3 compressors + starting current 1 compressor | | Maximum starting current = maximum running current 8 fans + maximum running current 3 compressors + starting current 1 compressor | | |

2 Specifications (Options)

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| EWAQ080-100DAYN | | | | |
|----------------------------------|---------------------------------|----------------------------|-----|----------------------------|
| Technical specifications options | | | | |
| OPSP | | | | |
| Units | | EWAQ080DAYN* | | EWAQ100DAYN* |
| Weight | Additional machine weight | kg | 250 | 250 |
| | Additional operation weight | kg | 283 | 283 |
| | Additional gross weight | kg | 250 | 250 |
| Pump | Type | Single-stage-in-line-pumps | | Single-stage-in-line-pumps |
| | Quantity | 1 | | 1 |
| | Model | TP50-240/2 | | TP50-240/2 |
| | Nominal Static Height Unit | kPa | 142 | 133 |
| Hydraulic components | Additional unit water volume | l | 33 | 33 |
| | Expansion vessel | l | | 35 |
| | Pre-charge pressure exp. vessel | bar | | 1,5 |
| | Safety valve | bar | | 3 |
| OPSP + OPBT | | | | |
| Units | | EWAQ080DAYN* | | EWAQ100DAYN* |
| Weight | Additional machine weight | kg | 300 | 300 |
| | Additional operation weight | kg | 523 | 523 |
| | Additional gross weight | kg | 300 | 300 |
| Pump | Type | Single-stage-in-line-pumps | | Single-stage-in-line-pumps |
| | Quantity | 1 | | 1 |
| | Model | TP50-240/2 | | TP50-240/2 |
| | Nominal Static Height Unit | kPa | 142 | 133 |
| Hydraulic components | Buffertank | l | 190 | 190 |
| | Additional unit water volume | l | 223 | 223 |
| | Expansion vessel | l | | 35 |
| | Pre-charge pressure exp. vessel | bar | | 1,5 |
| | Safety valve | bar | | 3 |
| OPHP | | | | |
| Units | | EWAQ080DAYN* | | EWAQ100DAYN* |
| Pump | Type | Single-stage-in-line-pumps | | Single-stage-in-line-pumps |
| | Quantity | 1 | | 1 |
| | Model | TP50-430/2 | | TP50-430/2 |
| | Nominal Static Height Unit | kPa | 337 | 322 |

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| EWAQ080-100DAYN | | | | |
|-----------------------------------|--------------------------------------|----------------|---------------------|---------------------|
| Electrical specifications options | | | | |
| OPSP | | | | |
| Units | | EWAQ080DAYN* | | EWAQ100DAYN* |
| Std Pump | Starting method | Direct On-Line | | |
| | Power | W | 2,2kW | 2,2kW |
| | Maximum Running current | A | 4,5 | 4,5 |
| | Starting current | A | 42 | 42 |
| OPHP | | | | |
| Units | | EWAQ080DAYN* | | EWAQ100DAYN* |
| High Esp Pump | Starting method | Direct On-Line | | |
| | Power | W | 5,5kW | 5,5kW |
| | Maximum Running current | A | 11,2 | 11,2 |
| | Starting current | A | 131 | 131 |
| OP10 | | | | |
| Units | | EWAQ080DAYN* | | EWAQ100DAYN* |
| Heater Tape | Supply Voltage | V | 230+/-10% | |
| | Reccommended fuses | A | 2 x 10A | |
| | Power standard model | | 1 x 300W | 1 x 300W |
| | Power model with pump | | 2 x 300W | 2 x 300W |
| | Power model with pump and buffertank | | 2 x 300W + 1 x 150W | 2 x 300W + 1 x 150W |

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2 Specifications (Options)

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EWAQ130-150DAYN

| Technical specifications options | | | | |
|----------------------------------|---------------------------------|----------------------------|-----|----------------------------|
| OPSP | | | | |
| Units | | EWAQ130DAYN* | | EWAQ150DAYN* |
| Weight | Additional machine weight | kg | 250 | 250 |
| | Additional operation weight | kg | 286 | 286 |
| | Additional gross weight | kg | 250 | 250 |
| Pump | Type | Single-stage-in-line-pumps | | Single-stage-in-line-pumps |
| | Quantity | 1 | | 1 |
| | Model | TP65-230/2 | | TP65-230/2 |
| | Nominal Static Height Unit | kPa | 134 | 126 |
| Hydraulic components | Additional unit water volume | l | 36 | 36 |
| | Expansion vessel | l | | 35 |
| | Pre-charge pressure exp. vessel | bar | | 1,5 |
| | Safety valve | bar | | 3 |
| OPSP + OPBT | | | | |
| Units | | EWAQ130DAYN* | | EWAQ150DAYN* |
| Weight | Additional machine weight | kg | 300 | 300 |
| | Additional operation weight | kg | 526 | 526 |
| | Additional gross weight | kg | 300 | 300 |
| Pump | Type | Single-stage-in-line-pumps | | Single-stage-in-line-pumps |
| | Quantity | 1 | | 1 |
| | Model | TP65-230/2 | | TP65-230/2 |
| | Nominal Static Height Unit | kPa | 134 | 126 |
| Hydraulic components | Buffertank | l | 190 | 190 |
| | Additional unit water volume | l | 226 | 226 |
| | 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 | | Single-stage-in-line-pumps |
| | Quantity | 1 | | 1 |
| | Model | TP65-340/2 | | TP65-340/2 |
| | Nominal Static Height Unit | kPa | 253 | 248 |

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EWAQ130-150DAYN

| Electrical specifications options | | | | |
|-----------------------------------|--------------------------------------|----------------|---------------------|---------------------|
| OPSP | | | | |
| Units | | EWAQ130DAYN* | | EWAQ150DAYN* |
| Std Pump | Starting method | Direct On-Line | | |
| | Power | W | 3kW | 3kW |
| | Maximum Running current | A | 6,3 | 6,3 |
| | Starting current | A | 58 | 58 |
| OPHP | | | | |
| Units | | EWAQ130DAYN* | | EWAQ150DAYN* |
| High Esp Pump | Starting method | Direct On-Line | | |
| | Power | W | 5,5kW | 5,5kW |
| | Maximum Running current | A | 11,2 | 11,2 |
| | Starting current | A | 131 | 131 |
| OP10 | | | | |
| Units | | EWAQ130DAYN* | | EWAQ150DAYN* |
| Heater Tape | Supply Voltage | V | 230+/-10% | |
| | Recommended fuses | A | 2 x 10A | |
| | Power standard model | | 1 x 300W | 1 x 300W |
| | Power model with pump | | 2 x 300W | 2 x 300W |
| | Power model with pump and buffertank | | 2 x 300W + 1 x 150W | 2 x 300W + 1 x 150W |

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2 Specifications (Options)

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| EWAQ180-210DAYN | | | | |
|----------------------------------|---------------------------------|----------------------------|-----|----------------------------|
| Technical specifications options | | | | |
| OPSP | | | | |
| Units | | EWAQ180DAYN* | | EWAQ210DAYN* |
| Weight | Additional machine weight | kg | 250 | 250 |
| | Additional operation weight | kg | 286 | 286 |
| | Additional gross weight | kg | 250 | 250 |
| Pump | Type | Single-stage-in-line-pumps | | Single-stage-in-line-pumps |
| | Quantity | 1 | | 1 |
| | Model | TP65-260/2 | | TP65-260/2 |
| | Nominal Static Height Unit | kPa | 142 | 120 |
| Hydraulic components | Additional unit water volume | l | 36 | 36 |
| | Expansion vessel | l | | 35 |
| | Pre-charge pressure exp. vessel | bar | | 1,5 |
| | Safety valve | bar | | 3 |
| OPSP + OPBT | | | | |
| Units | | EWAQ180DAYN* | | EWAQ210DAYN* |
| Weight | Additional machine weight | kg | 300 | 300 |
| | Additional operation weight | kg | 526 | 526 |
| | Additional gross weight | kg | 300 | 300 |
| Pump | Type | Single-stage-in-line-pumps | | Single-stage-in-line-pumps |
| | Quantity | 1 | | 1 |
| | Model | TP65-260/2 | | TP65-260/2 |
| | Nominal Static Height Unit | kPa | 142 | 120 |
| Hydraulic components | Buffertank | l | 190 | 190 |
| | Additional unit water volume | l | 226 | 226 |
| | Expansion vessel | l | | 35 |
| | Pre-charge pressure exp. vessel | bar | | 1,5 |
| | Safety valve | bar | | 3 |
| OPHP | | | | |
| Units | | EWAQ180DAYN* | | EWAQ210DAYN* |
| Pump | Type | Single-stage-in-line-pumps | | Single-stage-in-line-pumps |
| | Quantity | 1 | | 1 |
| | Model | TP65-410/2 | | TP65-410/2 |
| | Nominal Static Height Unit | kPa | 296 | 278 |

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| EWAQ180-210DAYN | | | | |
|-----------------------------------|--------------------------------------|----------------|---------------------|---------------------|
| Electrical specifications options | | | | |
| OPSP | | | | |
| Units | | EWAQ180DAYN* | | EWAQ210DAYN* |
| Std Pump | Starting method | Direct On-Line | | |
| | Power | W | 4kW | 4kW |
| | Maximum Running current | A | 8 | 8 |
| | Starting current | A | 98 | 98 |
| OPHP | | | | |
| Units | | EWAQ180DAYN* | | EWAQ210DAYN* |
| High Esp Pump | Starting method | Direct On-Line | | |
| | Power | W | 7,5kW | 7,5kW |
| | Maximum Running current | A | 15,2 | 15,2 |
| | Starting current | A | 169 | 169 |
| OP10 | | | | |
| Units | | EWAQ180DAYN* | | EWAQ210DAYN* |
| Heater Tape | Supply Voltage | V | 230+/-10% | |
| | Recommened fuses | A | 2 x 10A | |
| | Power standard model | | 1 x 300W | 1 x 300W |
| | Power model with pump | | 2 x 300W | 2 x 300W |
| | Power model with pump and buffertank | | 2 x 300W + 1 x 150W | 1 x 300W + 1 x 150W |

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2 Specifications (Options)

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EWAQ240-260DAYN

| Technical specifications options | | | | |
|----------------------------------|------------------------------------|----------------------------|-----|----------------------------|
| OPSP | | | | |
| Units | | EWAQ240DAYN* | | EWAQ260DAYN* |
| Weight | Additional machine weight | kg | 250 | 250 |
| | Additional operation weight | kg | 271 | 271 |
| | Additional gross weight | kg | 250 | 250 |
| Pump | Type | Single-stage-in-line-pumps | | Single-stage-in-line-pumps |
| | Quantity | 1 | | 1 |
| | Model | TP65-260/2 | | TP65-260/2 |
| | Nominal Static Height Unit cooling | kPa | 119 | 110 |
| Hydraulic components | Additional unit water volume | l | 21 | 21 |
| | Expansion vessel | l | | 50 |
| | Pre-charge pressure exp. vessel | bar | | 1,5 |
| | Safety valve | bar | | 3 |
| OPSP + OPBT | | | | |
| Units | | EWAQ240DAYN* | | EWAQ260DAYN* |
| Weight | Additional machine weight | kg | 300 | 300 |
| | Additional operation weight | kg | 511 | 511 |
| | Additional gross weight | kg | 300 | 300 |
| Pump | Type | Single-stage-in-line-pumps | | Single-stage-in-line-pumps |
| | Quantity | 1 | | 1 |
| | Model | TP65-260/2 | | TP65-260/2 |
| | Nominal Static Height Unit cooling | kPa | 119 | 110 |
| Hydraulic components | Buffertank | l | 190 | 190 |
| | Additional unit water volume | l | 211 | 211 |
| | Expansion vessel | l | | 50 |
| | Pre-charge pressure exp. vessel | bar | | 1,5 |
| | Safety valve | bar | | 3 |
| OPSP + OPBT | | | | |
| Units | | EWAQ240DAYN* | | EWAQ260DAYN* |
| Pump | Type | Single-stage-in-line-pumps | | Single-stage-in-line-pumps |
| | Quantity | 1 | | 1 |
| | Model | TP65-410/2 | | TP65-410/2 |
| | Nominal Static Height Unit cooling | kPa | 321 | 276 |

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EWAQ240-260DAYN

| Electrical specifications options | | | | |
|-----------------------------------|--------------------------------------|----------------|---------------------|---------------------|
| OPSP | | | | |
| Units | | EWAQ240DAYN* | | EWAQ260DAYN* |
| Std Pump | Starting method | Direct On-Line | | |
| | Power | kW | 4,0 | 4,0 |
| | Maximum Running current | A | 8,0 | 8,0 |
| | Starting current | A | 98 | 98 |
| OPHP | | | | |
| Units | | EWAQ240DAYN* | | EWAQ260DAYN* |
| High Esp Pump | Starting method | Direct On-Line | | |
| | Power | 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% | |
| | Recommended fuses | A | 2 x 10A | |
| | Power standard model | | 1 x 300W | 1 x 300W |
| | Power model with pump | | 2 x 300W | 2 x 300W |
| | Power model with pump and buffertank | | 2 x 300W + 1 x 150W | 2 x 300W + 1 x 150W |

3TW57631-1

3 Options

1
3

EWAQ-DAYN(N-P-B)

Optional equipment for EWAQ-DAYNN

Capacity: 080-260 kW

| | | |
|--------------|--------------|--------------|
| EWAQ080DAYNN | EWAQ150DAYNN | EWAQ240DAYNN |
| EWAQ100DAYNN | EWAQ180DAYNN | EWAQ260DAYNN |
| EWAQ130DAYNN | EWAQ210DAYNN | |

| Option number | Option description | Unit size | | | | | | | | Availability |
|---------------|---|-----------|------|------|------|------|------|------|------|--------------|
| | | 080 | 100 | 130 | 150 | 180 | 210 | 240 | 260 | |
| | Standard unit | ° | ° | ° | ° | ° | ° | ° | ° | |
| OPSC | Single pump contactor | ° | ° | ° | ° | ° | ° | ° | ° | fact. mount. |
| OPTC | Twin pump contactor | ° | ° | ° | ° | ° | ° | ° | ° | fact. mount. |
| OPSP | Single pump | ° | ° | ° | ° | ° | ° | ° | ° | fact. mount. |
| OPTP | Twin pump (1 pump house, dual motor) | ° | ° | ° | ° | ° | ° | ° | ° | fact. mount. |
| OPHP | High ESP pump (single pump only) | ° | ° | ° | ° | ° | ° | ° | ° | fact. mount. |
| OPBT | Buffer tank | ° | ° | ° | ° | ° | ° | ° | ° | fact. mount. |
| OPIF | Inverter fans (For low ambient -15°C) | ° | ° | ° | ° | ° | ° | ° | ° | fact. mount. |
| OPZL | Glycol 0°C / -10°C | ° | ° | ° | ° | ° | ° | ° | ° | fact. mount. |
| OP03 | Dual pressure relief valve | ° | ° | ° | ° | ° | ° | ° | ° | fact. mount. |
| OP10 | Evaporator heater tape | ° | ° | ° | ° | ° | ° | ° | ° | fact. mount. |
| OP12 | Option valves (discharge-, liquid line- and suction stop valve) | °(S) | °(S) | °(S) | °(S) | °(S) | °(S) | °(S) | °(S) | fact. mount. |
| OP57 | A-meter / V-meter | ° | ° | ° | ° | ° | ° | ° | ° | fact. mount. |
| OPLN | Low noise = OPIF + Compressor housing | ° | ° | ° | ° | ° | ° | ° | ° | fact. mount. |
| OPCG | Condenser protection grills | ° | ° | ° | ° | ° | ° | ° | ° | fact. mount. |
| | Available kits | | | | | | | | | |
| EKLONPG | Gateway for LON | ° | ° | ° | ° | ° | ° | ° | ° | Kit |
| EKBNPG | Gateway for BACNET | ° | ° | ° | ° | ° | ° | ° | ° | Kit |
| EKACPG | Adress card | ° | ° | ° | ° | ° | ° | ° | ° | Kit |
| EKRUPG | Remote user interface | ° | ° | ° | ° | ° | ° | ° | ° | Kit |

3TW57579-8

NOTES

- ° Available
- Not available
- (S) Option required for Swedish national law SNFS 1992:16

4 Capacity tables

4 - 1 Cooling capacity tables

EWAQ080-260DAYN(N-B-P)

STANDARD

| Tamb (°C) | | 20 | | 25 | | 30 | | 35 | | 40 | | 43 | |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| LWE | Size | CC | PI | CC | PI | CC | PI | CC | PI | CC | PI | 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 | 242 | 61,8 | 232 | 67,5 | 221 | 73,8 | 209 | 80,9 | 195 | 88,8 | 187 | 94,0 |
| | 260 | 267 | 71,3 | 256 | 77,6 | 244 | 84,6 | 230 | 92,3 | 215 | 101 | 206 | 107 |
| 7 | 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 |
| | 240 | 267 | 63,0 | 256 | 68,7 | 244 | 75,1 | 230 | 82,2 | 216 | 90,2 | 206 | 95,4 |
| | 260 | 295 | 72,7 | 282 | 79,1 | 269 | 86,2 | 254 | 94,0 | 237 | 103 | 227 | 108 |
| 10 | 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 |
| | 210 | 269 | 59,8 | 256 | 64,4 | 243 | 69,6 | 228 | 76,2 | 213 | 83,5 | 203 | 88,3 |
| | 240 | 294 | 64,4 | 282 | 70,2 | 268 | 76,6 | 254 | 83,7 | 238 | 91,7 | 227 | 97,0 |
| | 260 | 325 | 74,3 | 311 | 80,8 | 296 | 87,9 | 279 | 95,9 | 261 | 105 | 249 | 110 |
| 13 | 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 |
| | 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 | 323 | 66,0 | 310 | 71,7 | 295 | 78,2 | 278 | 85,4 | 261 | 93,4 | 249 | 98,7 |
| | 260 | 356 | 76,1 | 341 | 82,6 | 325 | 89,8 | 306 | 97,8 | 286 | 107 | 273 | 112 |
| 16 | 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 |
| | 150 | 235 | 46,7 | 224 | 50,9 | 211 | 55,5 | 198 | 60,6 | 184 | 66,3 | 176 | 69,3 |
| | 180 | 281 | 53,4 | 269 | 57,9 | 256 | 63,9 | 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 | 354 | 67,8 | 339 | 73,5 | 323 | 79,9 | 305 | 87,2 | 285 | 95,2 | 273 | 100,5 |
| | 260 | 390 | 78,0 | 373 | 84,6 | 355 | 91,9 | 335 | 99,9 | 313 | 109 | 299 | 115 |
| 20 | 080 | 139 | 22,4 | 133 | 24,2 | 127 | 26,2 | 121 | 28,5 | 114 | 30,9 | 108 | 32,7 |
| | 100 | 180 | 31,8 | 173 | 34,2 | 164 | 36,9 | 155 | 40,0 | 146 | 43,5 | 139 | 46,1 |
| | 130 | 227 | 41,1 | 217 | 44,5 | 206 | 48,3 | 193 | 52,3 | 180 | 56,9 | 171 | 60,1 |
| | 150 | 262 | 48,6 | 249 | 52,9 | 235 | 57,7 | 220 | 62,9 | 204 | 68,6 | 196 | 72,2 |
| | 180 | 315 | 55,6 | 302 | 60,1 | 287 | 65,1 | 271 | 70,7 | 254 | 77,1 | 241 | 81,1 |
| | 210 | 354 | 66,7 | 338 | 71,2 | 320 | 76,2 | 301 | 82,8 | 281 | 90,1 | 267 | 94,1 |
| | 240 | 398 | 70,4 | 381 | 76,1 | 362 | 82,6 | 342 | 89,8 | 320 | 97,9 | 306 | 102,8 |
| | 260 | 438 | 80,8 | 419 | 87,5 | 398 | 94,9 | 375 | 103 | 350 | 112 | 333 | 117,5 |

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 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

EWAQ080-260DAYN(N-P-B)

OPZL

| Tamb (°C) | | 20 | | 25 | | 30 | | 35 | | 40 | | 43 | |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LWE | Size | CC | PI | CC | PI | CC | PI | CC | PI | CC | PI | CC | PI |
| -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 | 154 | 57,6 | 146 | 63,1 | 138 | 69,1 | 130 | 75,9 | 121 | 83,4 | | |
| 260 | 170 | 66,1 | 162 | 72,0 | 153 | 78,6 | 144 | 86,0 | 134 | 94 | | | |
| -7 | 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 | | |
| | 240 | 169 | 58,3 | 161 | 63,8 | 153 | 70,0 | 144 | 76,8 | 135 | 84,5 | | |
| 260 | 187 | 67,1 | 178 | 73,0 | 169 | 78,7 | 160 | 87,2 | 149 | 96 | | | |
| -5 | 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 |
| | 210 | 169 | 53,3 | 161 | 58,0 | 152 | 63,1 | 142 | 69,5 | 132 | 76,6 | 126 | 81,3 |
| | 240 | 180 | 58,8 | 172 | 64,4 | 163 | 70,6 | 154 | 77,5 | 144 | 85,2 | 138 | 90,3 |
| 260 | 199 | 67,7 | 190 | 73,7 | 181 | 80,5 | 171 | 88,0 | 159 | 96 | 152 | 102 | |
| -2 | 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 |
| | 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 | 199 | 59,7 | 190 | 65,3 | 181 | 71,5 | 171 | 78,5 | 160 | 86,3 | 153 | 91,4 |
| 260 | 219 | 68,8 | 210 | 74,9 | 200 | 81,7 | 189 | 89,3 | 176 | 98 | 168 | 103 | |
| 2 | 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 |
| | 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 | 227 | 61,0 | 217 | 66,7 | 207 | 73,0 | 195 | 80,0 | 183 | 87,9 | 175 | 93,1 |
| 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)

3TW57572-1B

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 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

5 Dimensional drawing & centre of gravity

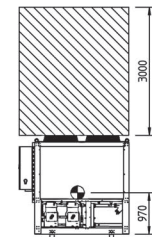
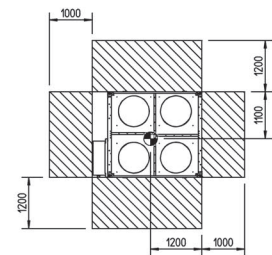
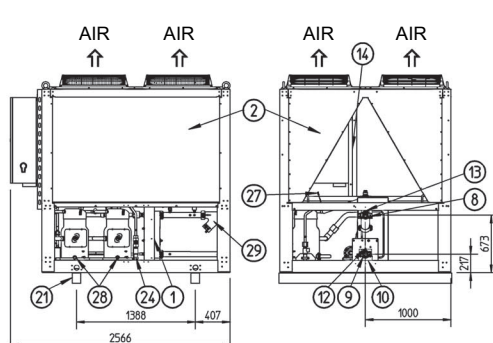
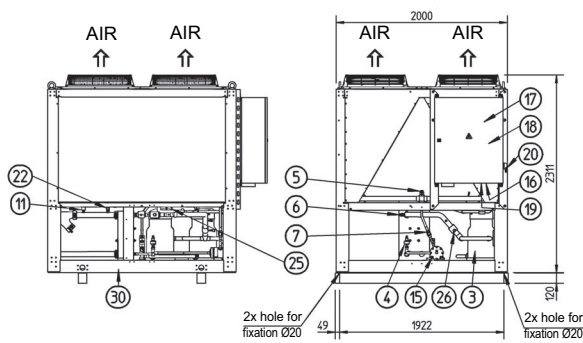
5 - 1 Dimensional drawing

1
5

EWAQ080-100DAYN(N)

- 01 Evaporateur
- 02 Condensor
- 03 Compresseur
- 04 Expansion valve + sight glass
- 05 Discharge valve (Optional)
- 06 Suction stopvalve (Optional)
- 07 Liquid stopvalve (Optional)
- 08 Chilled water IN (Victaulic coupling)
- 09 Chilled water OUT (Victaulic coupling)
- 10 Water drain evaporator
- 11 Air purge
- 12 Leaving water temperature sensor
- 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
- 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



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

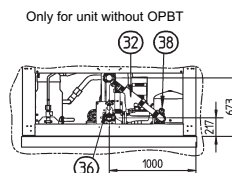
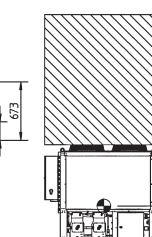
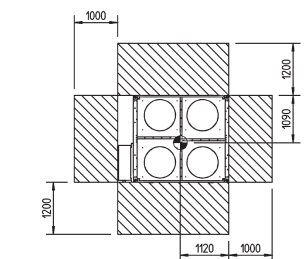
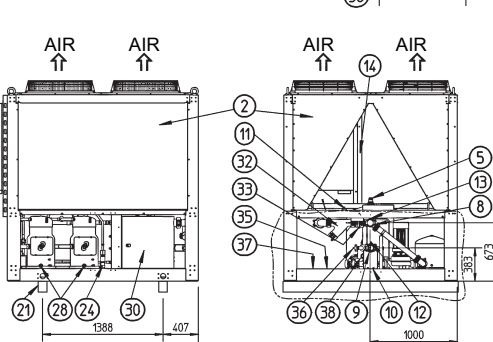
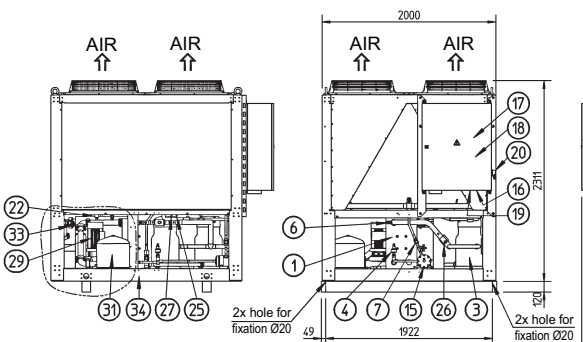


3TW57574-2A

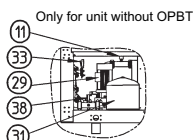
EWAQ080-100DAYN(P-B)

- 01 Evaporator
- 02 Condensor
- 03 Compresseur
- 04 Expansion valve + sight glass
- 05 Discharge stopvalve (Optional)
- 06 Suction stopvalve (Optional)
- 07 Liquid stopvalve (Optional)
- 08 Chilled water IN (Victaulic coupling)
- 09 Chilled water OUT (Victaulic coupling)
- 10 Water drain evaporator
- 11 Air purge
- 12 Leaving water temperature sensor
- 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
- 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 Pump (optional)
- 30 Buffertank (optional)
- 31 Expansion vessel (optional)
- 32 Waterfilter
- 33 Water stopvalve (optional)
- 34 Frame
- 35 Buffertank drain valve (optional)
- 36 Regulating valve (optional)
- 37 Water safety valve (optional)
- 38 Pressure gauge (optional)



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



3TW57574-1A

5 Dimensional drawing & centre of gravity

5 - 1 Dimensional drawing

EWAQ130-150DAYN(N)

| | |
|---|--|
| 01 Evaporateur | 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 |

Dimensions: 2000 (width), 2311 (height), 1922 (base width), 2631 (total width), 407 (depth), 1388 (base depth), 1000 (width), 1200 (width), 1000 (width), 1000 (width), 3000 (height), 925 (height), 673 (height), 277 (height).

Legend:
 - Required space around the unit for service and air intake (hatched area)
 - Center of gravity (circle with dot)

3TW57594-2A

EWAQ130-150DAYN(P-B)

| | |
|--|--------------------------------------|
| 01 Evaporateur | 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 | |

Dimensions: 2000 (width), 2311 (height), 1920 (base width), 2631 (total width), 407 (depth), 1388 (base depth), 1000 (width), 1200 (width), 1000 (width), 1000 (width), 3000 (height), 875 (height), 673 (height), 472 (height), 1000 (width).

Legend:
 - Required space around the unit for service and air intake (hatched area)
 - Center of gravity (circle with dot)

3TW57594-1B

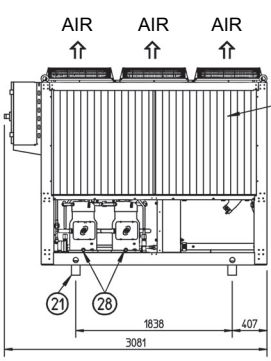
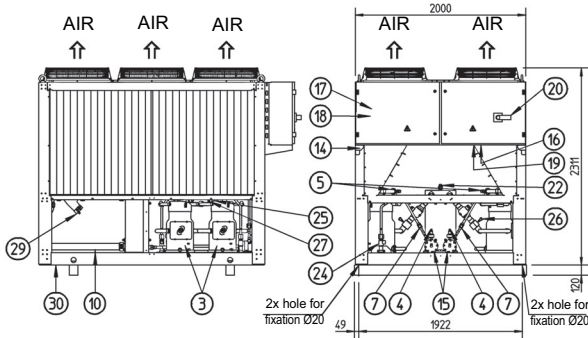
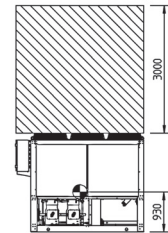
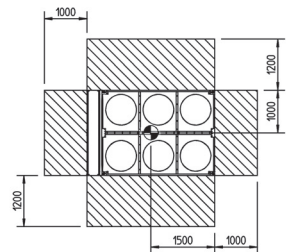
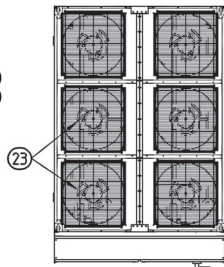
5 Dimensional drawing & centre of gravity

5 - 1 Dimensional drawing

EWAQ180-210DAYN(N)

- 01 Evaporateur
- 02 Condensor
- 03 Compressor
- 04 Expansion valve + sight glass
- 05 Discharge stopvalve(Optional)
- 06 Suction stopvalve (Optional)
- 07 Liquid stopvalve (Optional)
- 08 Chilled water IN (Victaulic coupling)
- 09 Chilled water OUT (Victaulic coupling)
- 10 Water drain evaporator
- 11 Air purge
- 12 Leaving water temperature sensor
- 13 Entering water temperature sensor
- 14 Ambient temperature sensor
- 15 Drier + charge valve

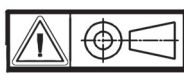
- 16 Power supply intake
- 17 Switchbox
- 18 Digital display controller (Inside switchbox)
- 19 Field wiring intake
- 20 Main isolator switch
- 21 Transport beam
- 22 Flowswitch
- 23 Fan
- 24 Safety valve
- 25 High pressure sensor
- 26 Low pressure sensor
- 27 High pressure switch
- 28 Oil sight glass
- 29 Waterfilter
- 30 Frame



Legend

Required space around the unit for service and air intake

Center of gravity

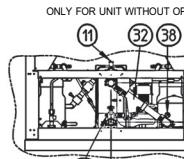
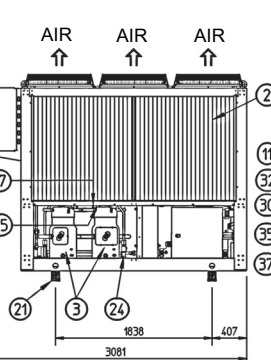
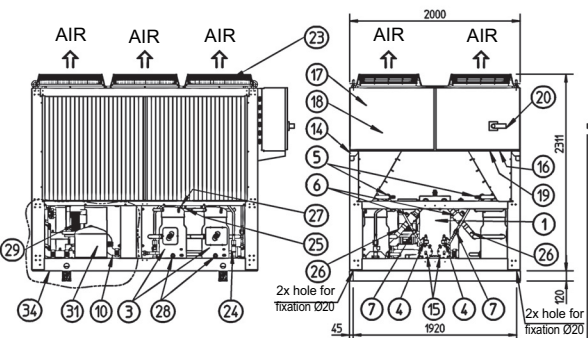
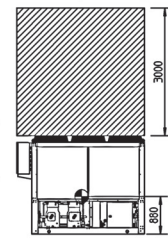
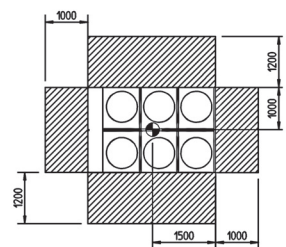
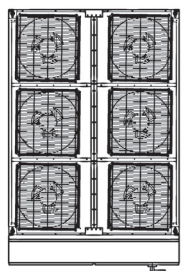


3TW57614-2A

EWAQ180-210DAYN(P-B)

- 01 Evaporateur
- 02 Condensor
- 03 Compressor
- 04 Expansion valve + sight glass
- 05 Discharge stopvalve (Optional)
- 06 Suction stopvalve (Optional)
- 07 Liquid stopvalve (Optional)
- 08 Chilled water IN (Victaulic coupling)
- 09 Chilled water OUT (Victaulic coupling)
- 10 Water drain evaporator
- 11 Air purge
- 12 Leaving water temperature sensor
- 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

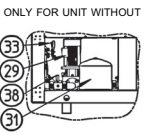
- 21 Transport beam
- 22 Flowswitch
- 23 Fan
- 24 Safety valve
- 25 High pressure sensor
- 26 Low pressure sensor
- 27 High pressure switch
- 28 Oil sight glass
- 29 Pump (Optional)
- 30 Buffertank (Optional)
- 31 Expansion vessel (Optional)
- 32 Waterfilter
- 33 Water stopvalve (Optional)
- 34 Frame
- 35 Buffertank drain valve (Optional)
- 36 Regulating valve (Optional)
- 37 Water safety valve (Optional)
- 38 Pressure gauge (Optional)



Legend

Required space around the unit for service and air intake

Center of gravity



3TW57614-1B

5 Dimensional drawing & centre of gravity

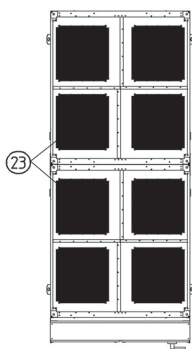
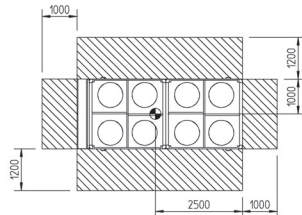
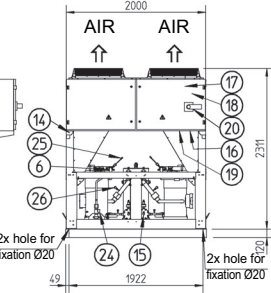
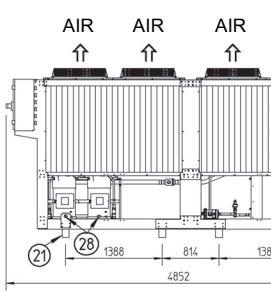
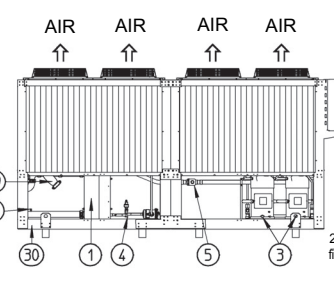
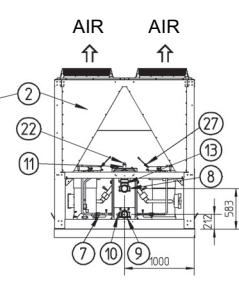
5 - 1 Dimensional drawing


EWAQ240-260DAYN(N)

- 01 Evapourateur
- 02 Condensor
- 03 Compresseur
- 04 Expansion valve + sight glass
- 05 Discharge stopvalve (Optional)
- 06 Suction stopvalve (Optional)
- 07 Liquid stopvalve (Optional)
- 08 Chilled water IN (Victaulic coupling)
- 09 Chilled water OUT (Victaulic 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

Legend

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



3TW57634-2


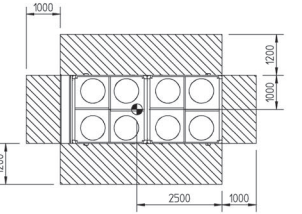
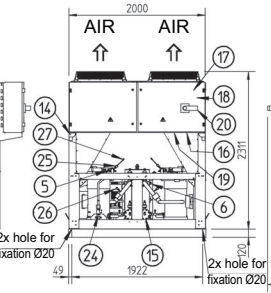
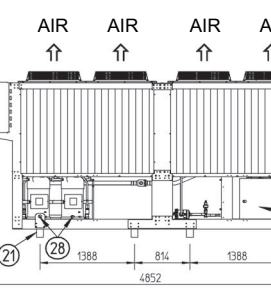
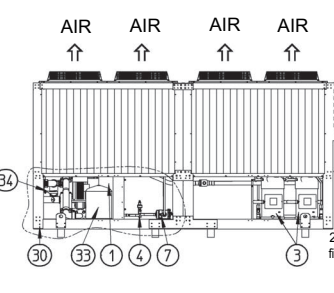
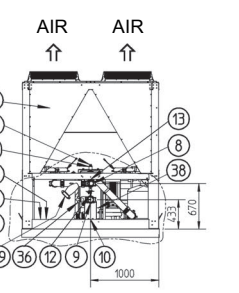
1
5


EWAQ240-260DAYN(P-B)

- 01 Evaporator
- 02 Condensor
- 03 Compresseur
- 04 Expansion valve + sight glass
- 05 Discharge stopvalve (Optional)
- 06 Suction stopvalve (Optional)
- 07 Liquid stopvalve (Optional)
- 08 Chilled water IN (Victaulic coupling)
- 09 Chilled water OUT (Victaulic 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)

Legend

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

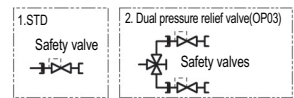
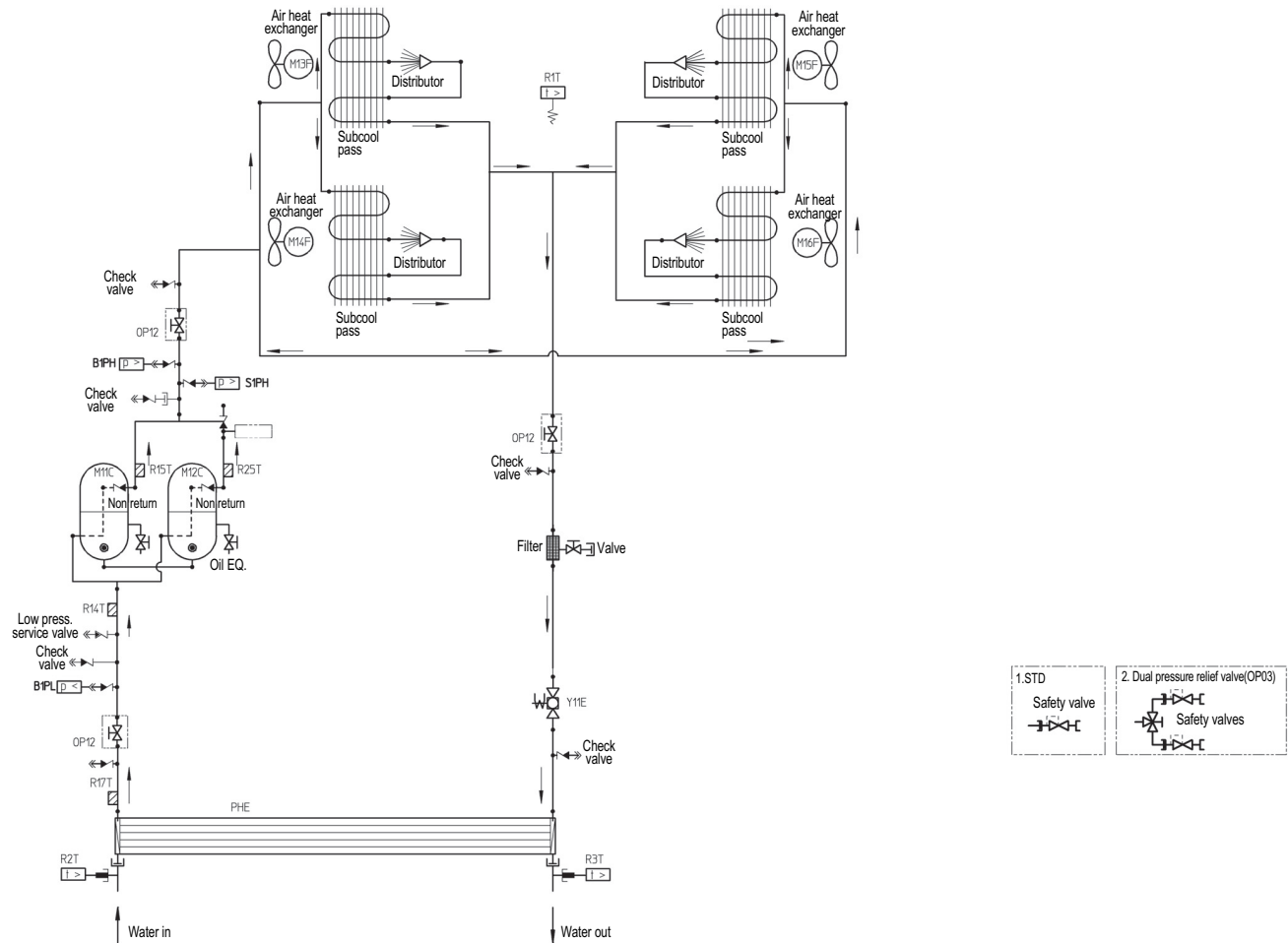


3TW57634-1

6 Piping diagram

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

1
6



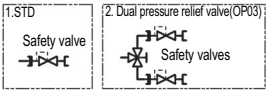
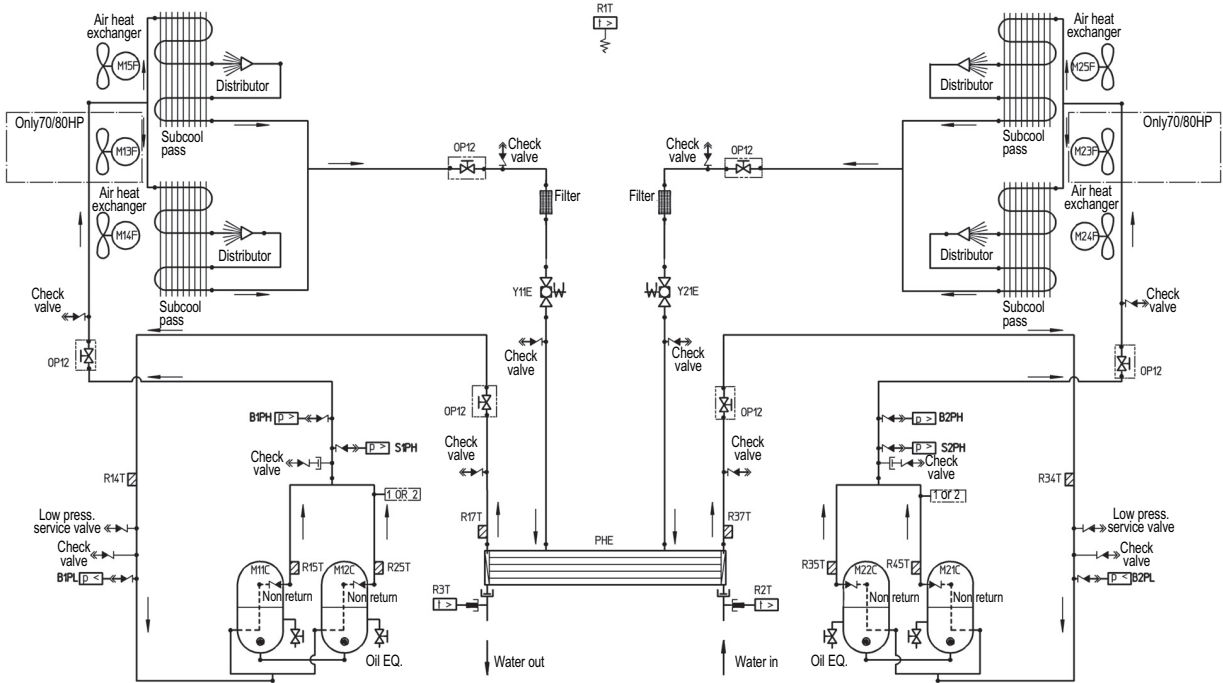
| MERK | BENAMING | | |
|------------|---------------------------------------|------|--|
| M11-12C | Compressor motors | B1PH | High pressure sensor |
| M13-16F | Fan motors | B1PL | Low pressure sensor |
| R14T | Suction temperature sensor | Y11E | Electronic expansion valve cooling |
| R17T | Refrigerant 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 diagram

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

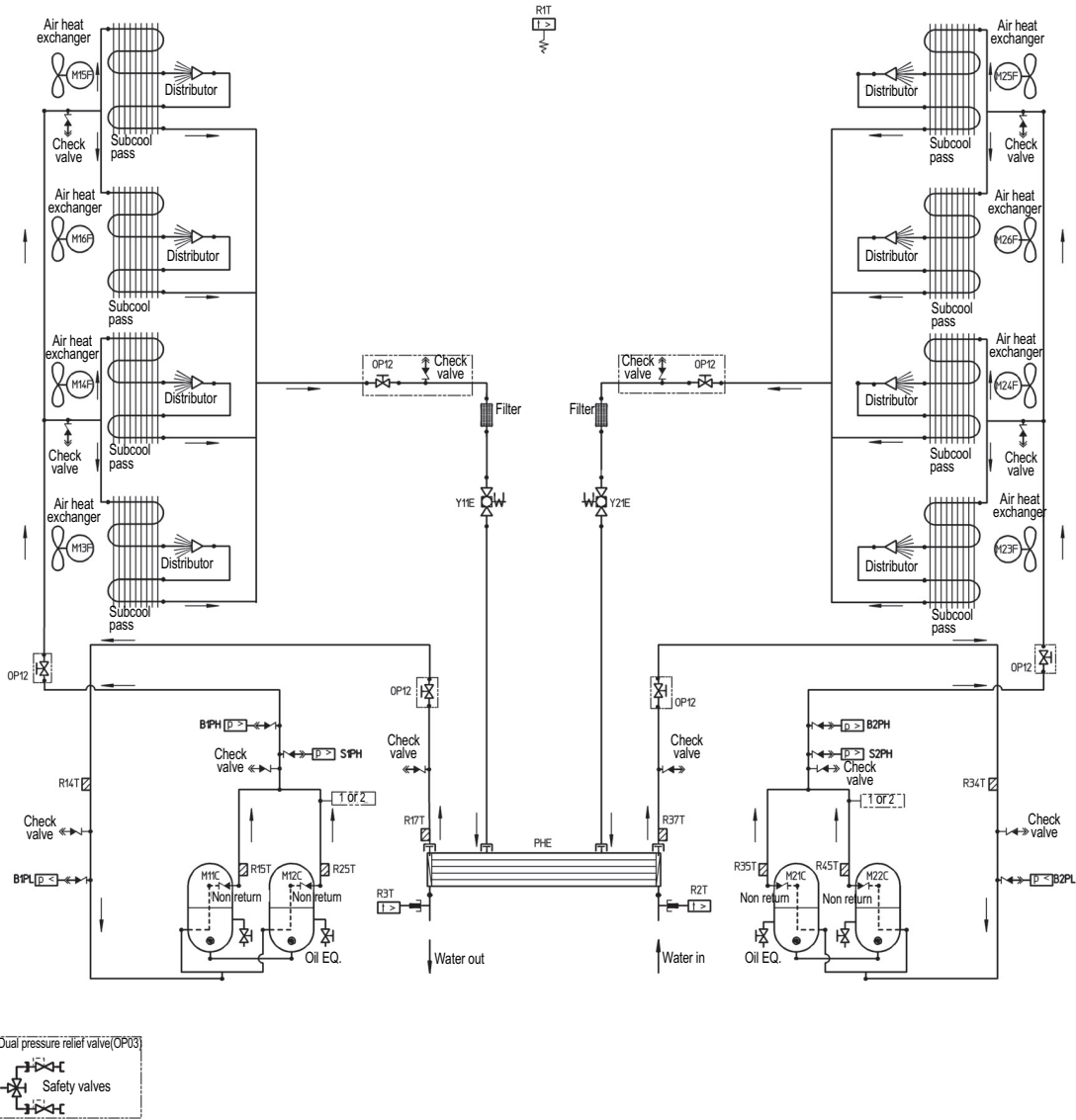


| MERK | BENAMING | M23-25F | Fan motors circuit 2 |
|------------|---|------------|---|
| M11-12C | Compressor motors circuit 1 | R34T | Suction temperature sensor circuit 2 |
| M13-15F | Fan motors circuit 1 | R37T | Refrigerant piping temperature sensor circuit 2 |
| R14T | Suction temperature sensor 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 |



6 Piping diagram

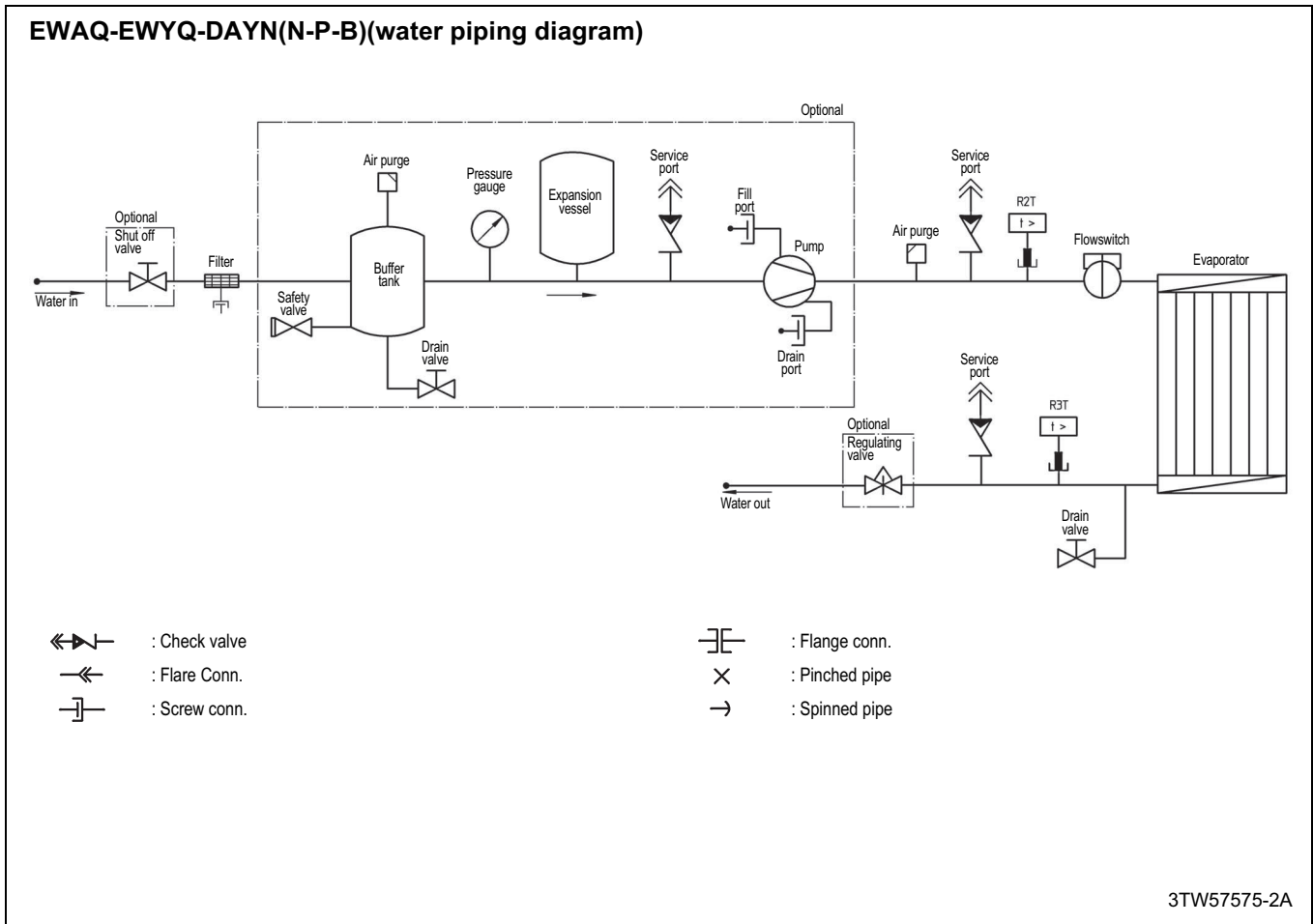
EWAQ240-260DAYN(N-P-B)(piping diagram)



| 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 | 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.
- |— : Screw conn.
- |— : Flange conn.
- × : Pinched pipe
- : Spinned pipe

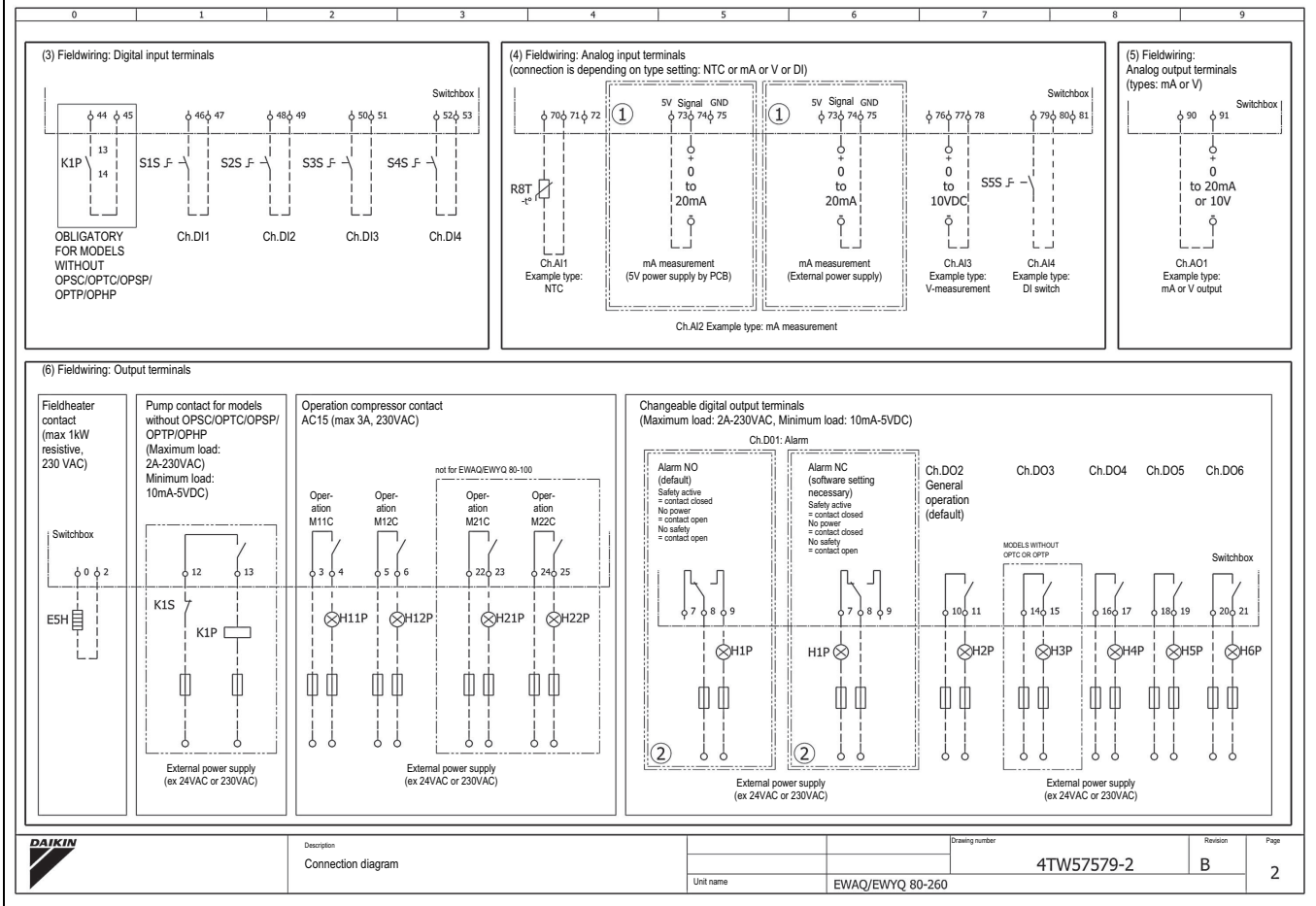
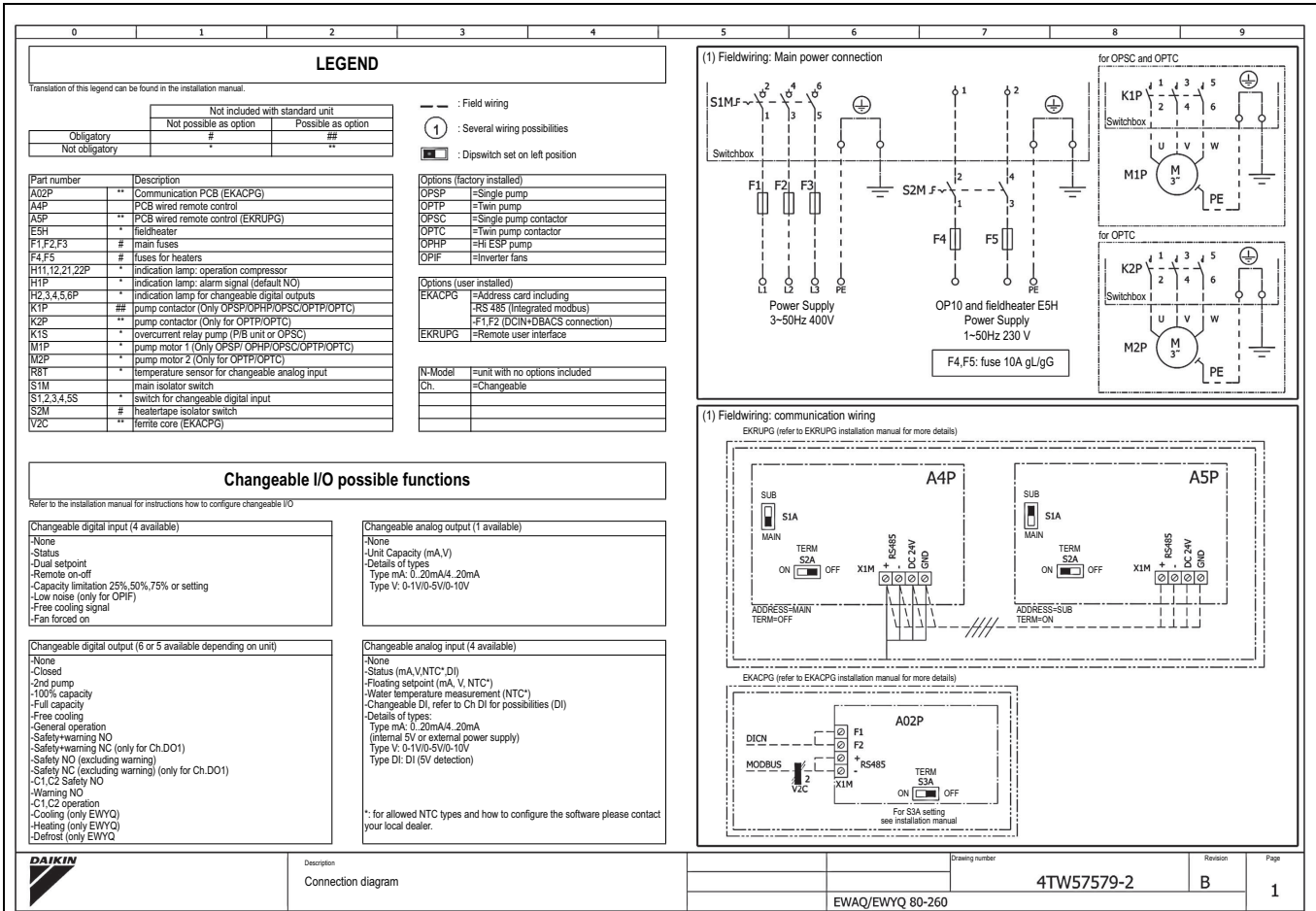
6 Piping diagram



7 Wiring diagram

7 - 1 External connection diagram

1
7



8 Sound data

8 - 1 Sound power spectrum

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

| STD - Units | Sound power Lw per Octva band (dB) | | | | | | | | Total (dBA) |
|--------------|------------------------------------|-----|-----|-----|------|------|------|------|-------------|
| | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | LwA |
| EWAQ080DAYN* | 64 | 69 | 73 | 83 | 80 | 77 | 71 | 63 | 86 |
| EWAQ100DAYN* | 63 | 69 | 74 | 82 | 81 | 80 | 73 | 61 | 86 |
| EWAQ130DAYN* | 64 | 70 | 73 | 81 | 85 | 80 | 72 | 61 | 88 |
| EWAQ150DAYN* | 65 | 74 | 75 | 85 | 84 | 80 | 74 | 65 | 89 |
| EWAQ180DAYN* | 70 | 75 | 79 | 85 | 86 | 82 | 75 | 64 | 90 |
| EWAQ210DAYN* | 68 | 75 | 80 | 86 | 87 | 84 | 77 | 65 | 91 |
| EWAQ240DAYN* | 66 | 71 | 75 | 88 | 84 | 84 | 76 | 57 | 91 |
| EWAQ260DAYN* | 67 | 71 | 75 | 91 | 86 | 82 | 77 | 58 | 93 |
| EWYQ080DAYN* | 64 | 69 | 73 | 83 | 80 | 77 | 71 | 63 | 86 |
| EWYQ100DAYN* | 63 | 69 | 74 | 82 | 81 | 80 | 73 | 61 | 86 |
| EWYQ130DAYN* | 64 | 70 | 73 | 81 | 85 | 80 | 72 | 61 | 88 |
| EWYQ150DAYN* | 65 | 74 | 75 | 85 | 84 | 80 | 74 | 65 | 89 |
| EWYQ180DAYN* | 70 | 75 | 79 | 85 | 86 | 82 | 75 | 64 | 90 |
| EWYQ210DAYN* | 68 | 75 | 80 | 86 | 87 | 84 | 77 | 65 | 91 |
| EWYQ230DAYN* | 66 | 71 | 75 | 88 | 84 | 84 | 76 | 57 | 91 |
| EWYQ250DAYN* | 67 | 71 | 75 | 91 | 86 | 82 | 77 | 58 | 93 |

OPLN:

(Compressor insulation + inverter fans)

A sound reduction is obtained up to 5 dBA in full operation, depending on the operation condition.

NOTES

- 1 Data valid at nominal operation condition
- 2 According to ISO9614-2

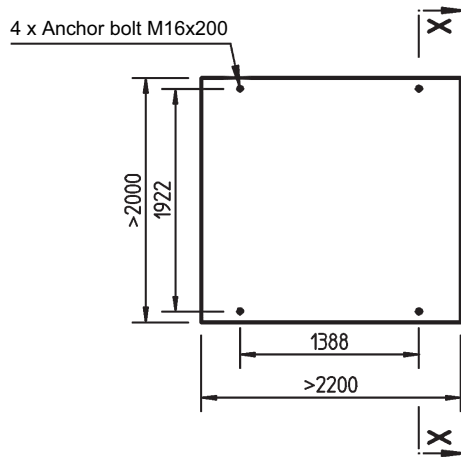
4TW57577-1B

9 Installation

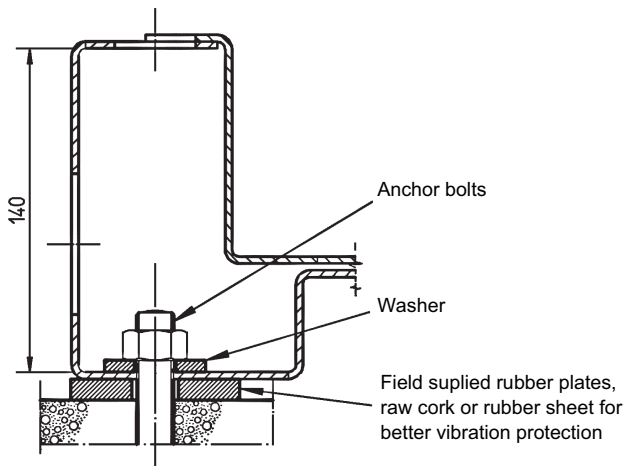
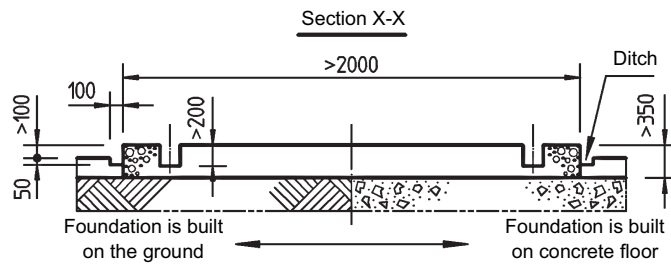
9 - 1 Fixation and foundation of units

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

1
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 $\varnothing 10$ at every interval of 300mm. The edge of the concrete base should be planed.

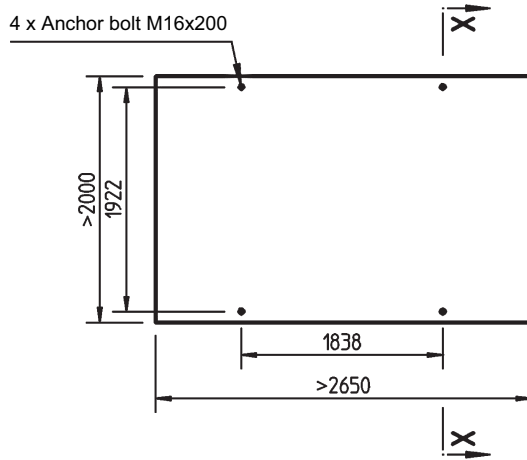


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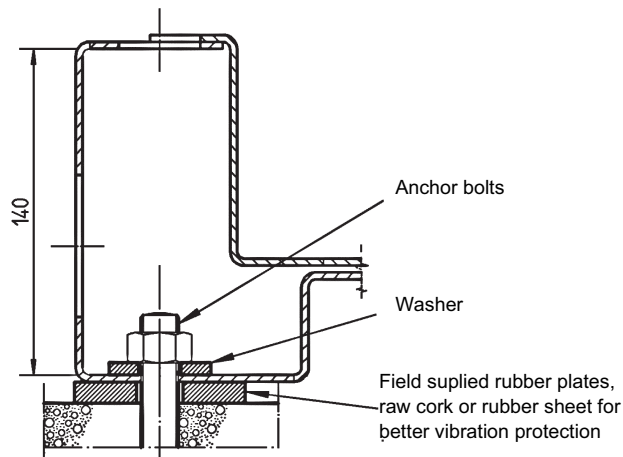
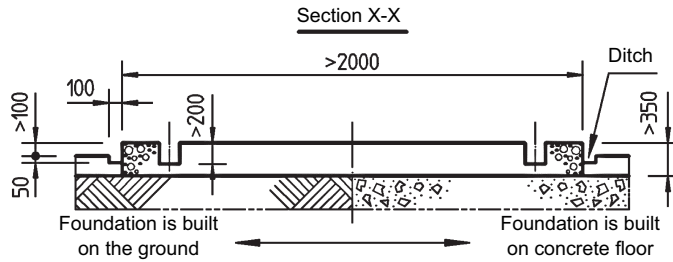
9 Installation

9 - 1 Fixation and foundation of units

EWAQ-EWYQ180-210DAYN(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 $\varnothing 10$ at every interval of 300mm. The edge of the concrete base should be planed.

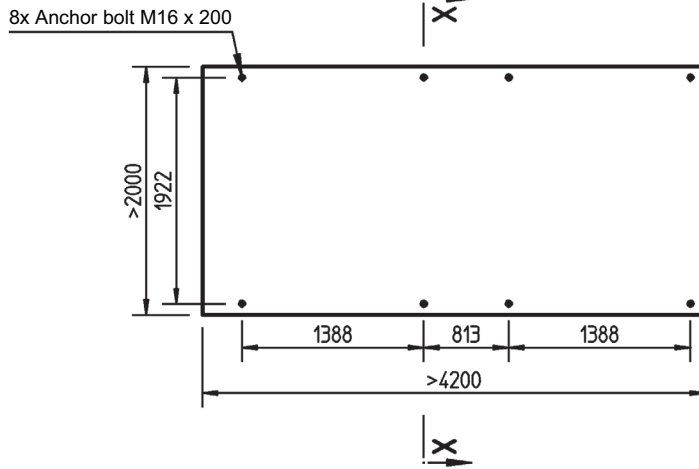


4TW57619-1

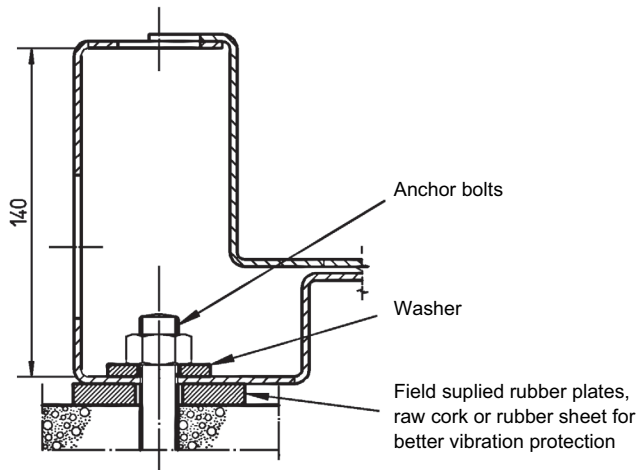
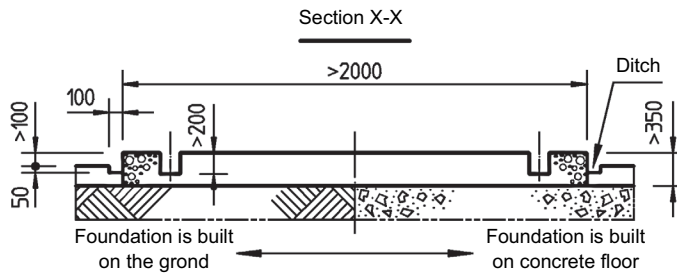
9 Installation

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 $\varnothing 10$ at every interval of 300mm. The edge of the concrete base should be planed.



4TW57639-1

9 Installation

9 - 2 Water charge, flow and quality

Be sure the water quality is in accordance with the specifications below:

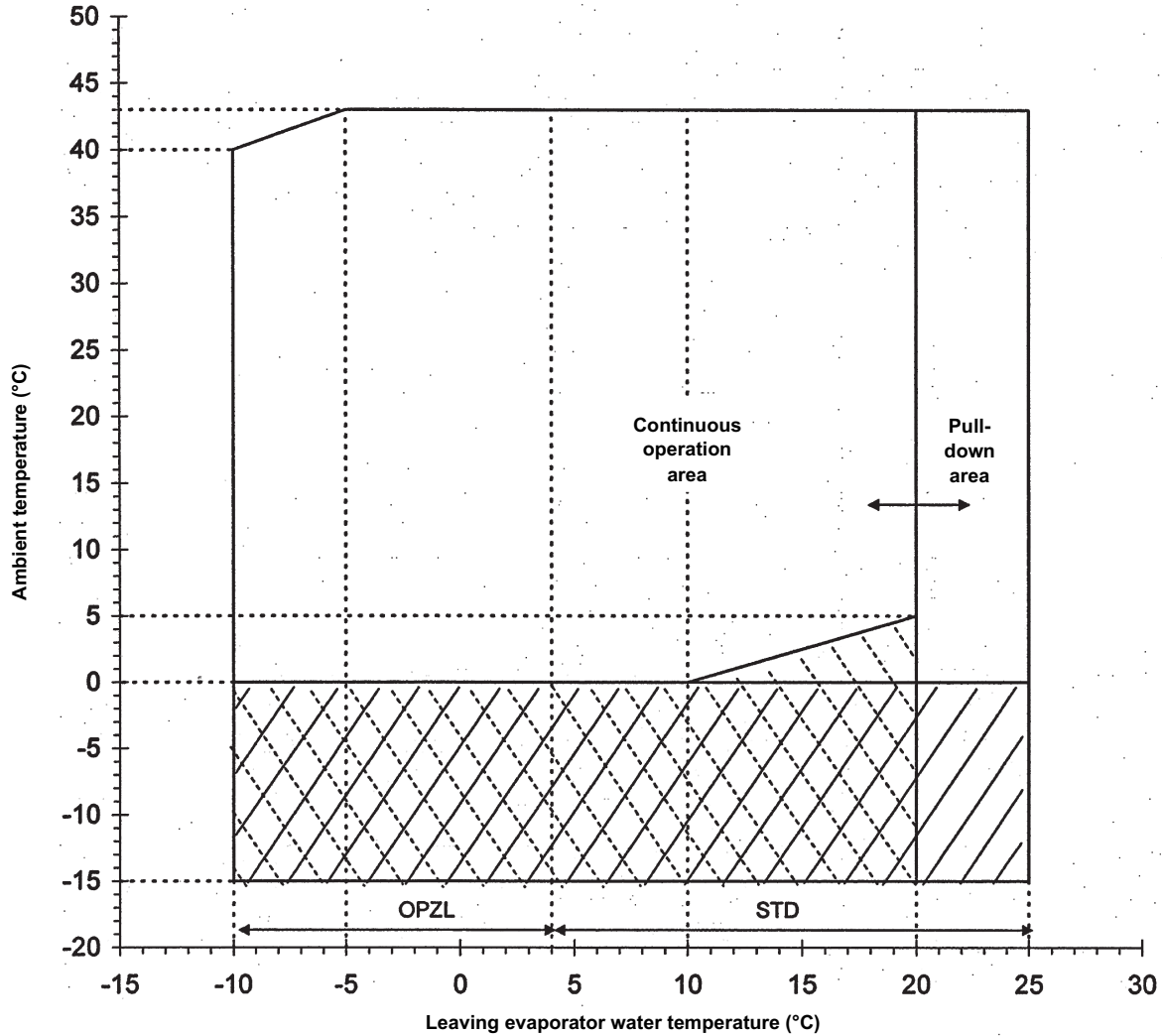
| ITEMS | Evaporator water | | Tendency if out of criteria |
|---|----------------------------|----------------|-----------------------------|
| | Circulating water <20°C | Supply water | |
| Items to be controlled: | | | |
| - pH at 25°C | 6.8 - 8.0 | 6.8 - 8.0 | Corrosion + scale |
| - Electrical conductivity (mS/m) at 25°C | Below 40 | Below 30 | Corrosion + scale |
| - Chloride ion (mg Cl ⁻ /l) | Below 50 | Below 50 | Corrosion |
| - Sulfate ion (mg SO ₄ ²⁻ /l) | Below 50 | Below 50 | Corrosion |
| - M-alkalinity (pH 4.8) (mg SO ₃ /l) | Below 50 | Below 50 | Scale |
| - Total hardness (mg CaCO ₃ /l) | Below 70 | Below 70 | Scale |
| - Calcium hardness (mg CaCO ₃ /l) | Below 50 | Below 50 | Scale |
| - Silica ion (mg SiO ₂ /l) | Below 30 | Below 30 | Scale |
| Items to be referred to: | | | |
| - Iron (mg Fe/l) | Below 1.0 | Below 0.3 | Corrosion + scale |
| - Copper (mg Cu/l) | Below 1.0 | Below 0.1 | Corrosion |
| - Sulfite ion (mg S ²⁻ /l) | Not detectable | Not detectable | Corrosion |
| - ammonium ion (mg NH ₄ ⁺ /l) | Below 1.0 | Below 0.1 | Corrosion |
| - Remaining chloride (mg Cl/l) | Below 0.3 | Below 0.3 | Corrosion |
| - Free carbide (mg CO ₂ /l) | Below 4.0 | Below 4.0 | Corrosion |
| - Stability index | — | — | Corrosion + scale |

3TW50179-1

Note:
Provide adequate safeguards in the water circuit to make sure that the water pressure will never exceed the maximum allowable working pressure.

10 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

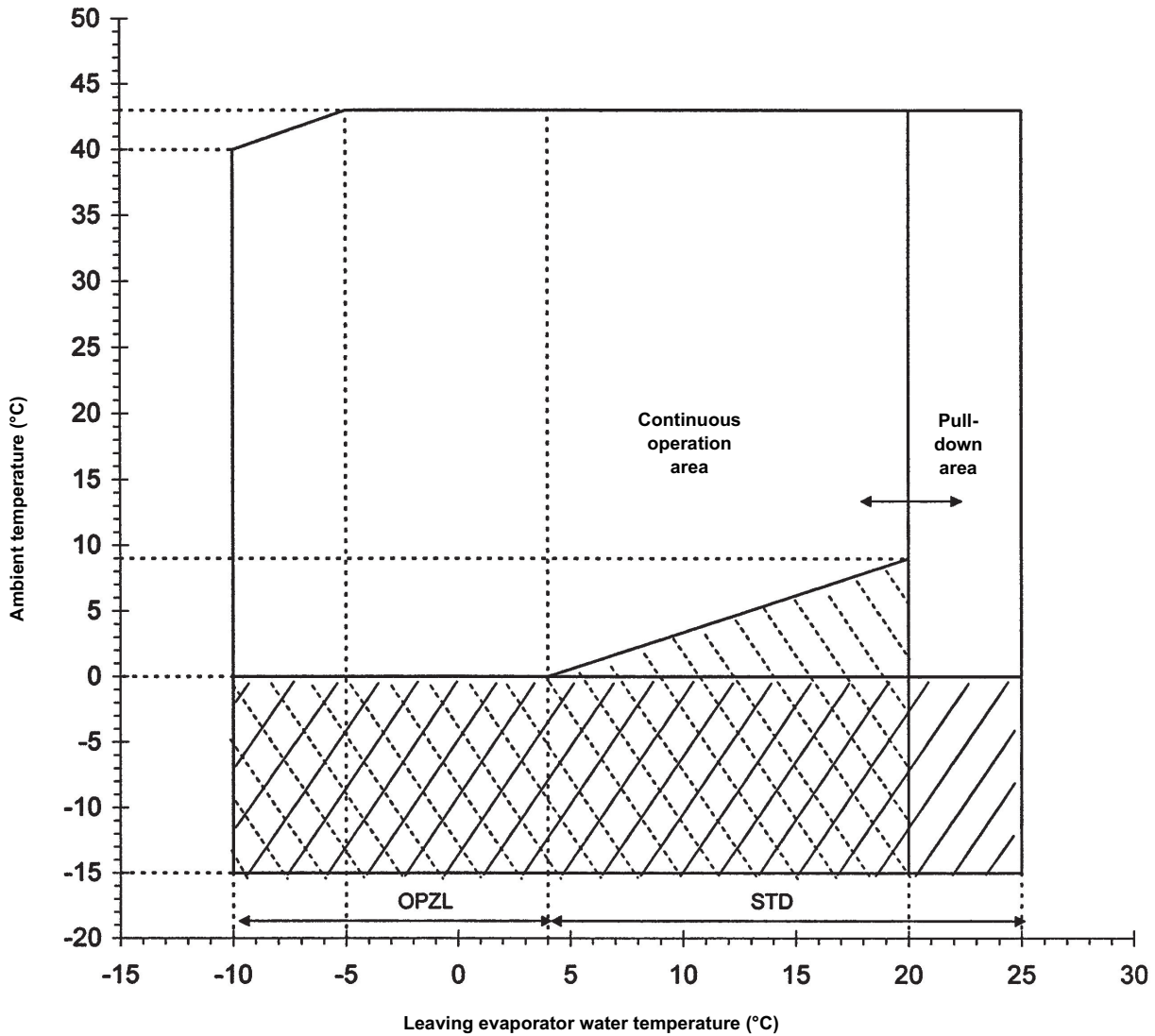


OPIF Option Inverter Fans EWAQ080-100-180-210-240-260

4TW57593-1B

10 Operation range

EWAQ130-150DAYN(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



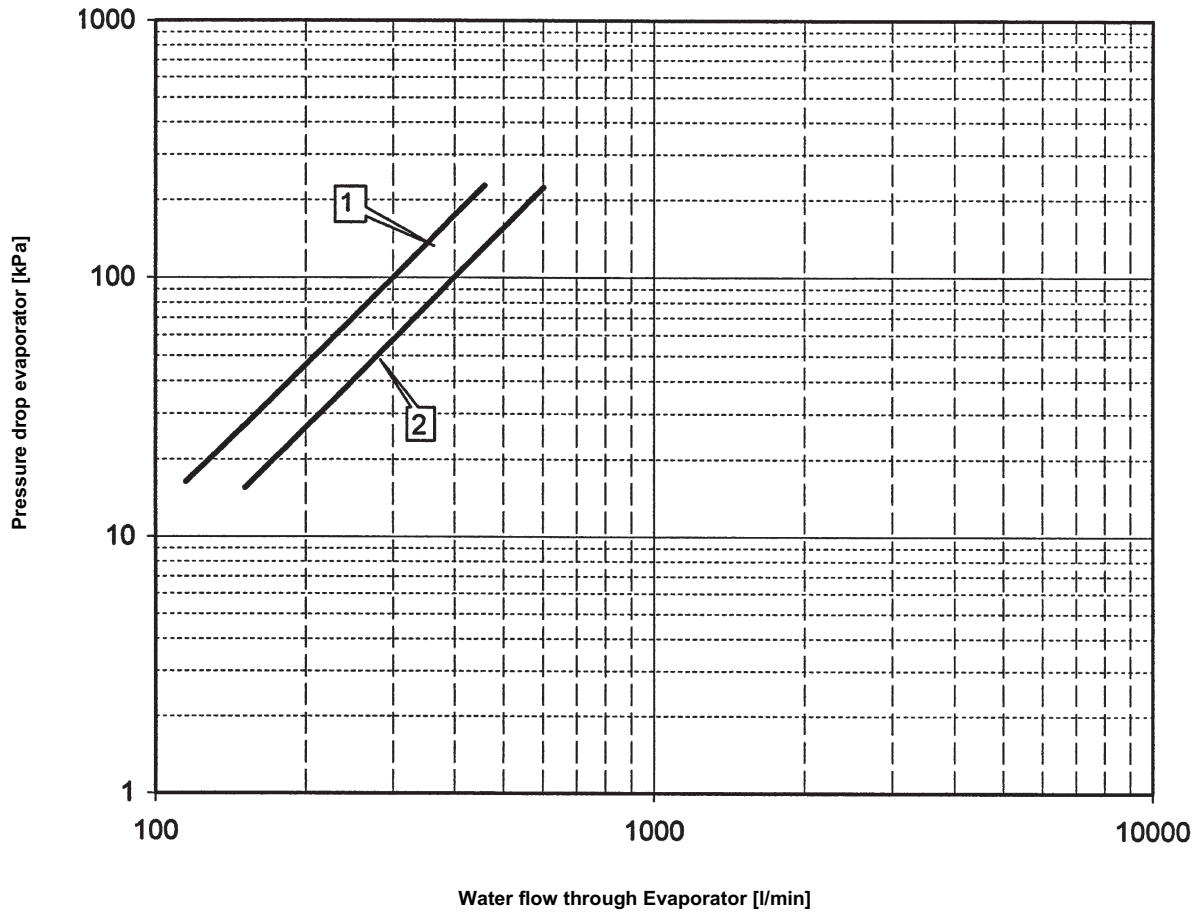
OPIF Option Inverter Fans EWAQ130-150

4TW57603-1A

11 Hydraulic performance

11 - 1 Water pressure drop curve evaporator

EWAQ080-100DAYN(N-P-B)



- 1. EWAQ080DAYN*
- 2. EWAQ100DAYN*

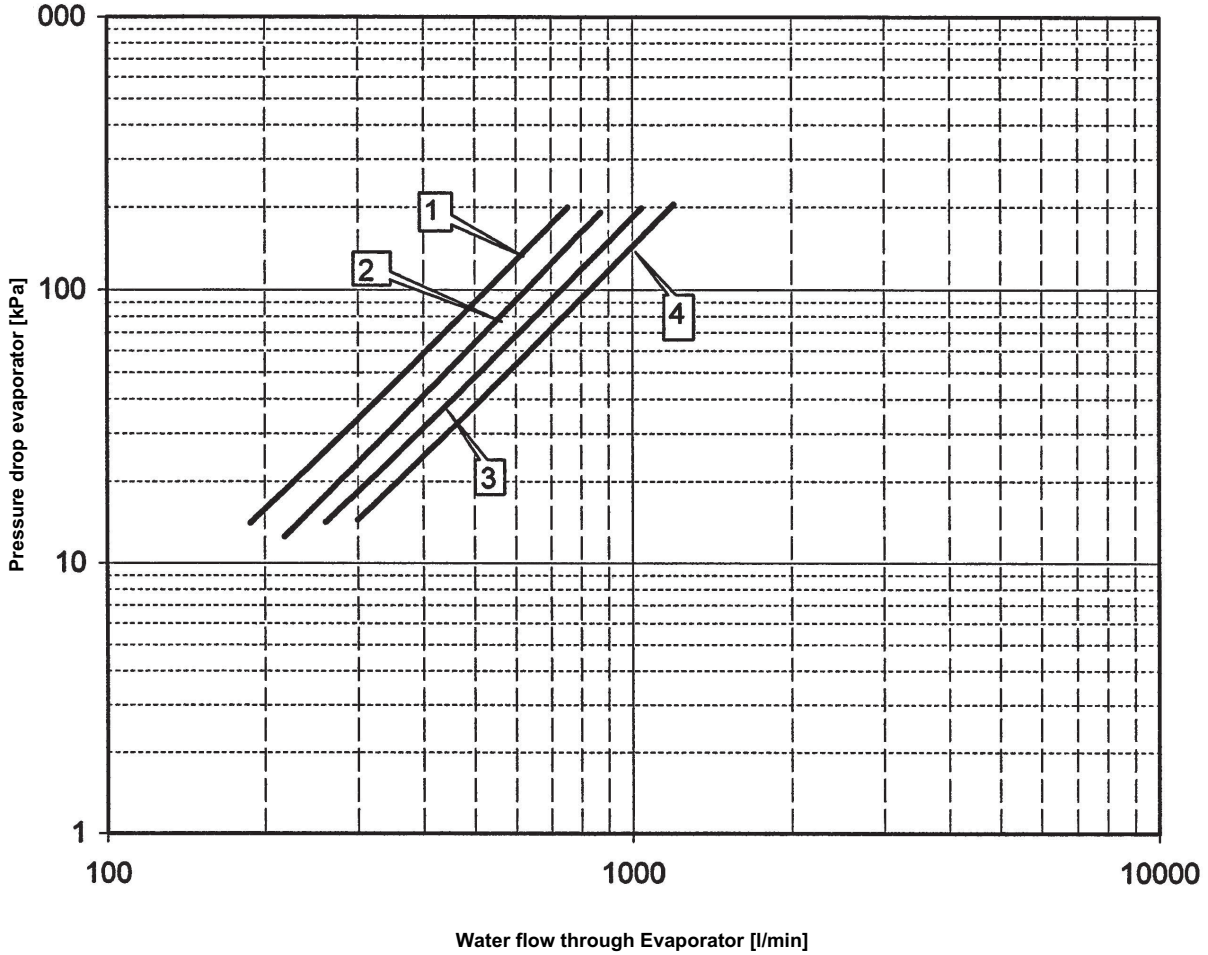
Warning:
 Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.

4TW57579-5

11 Hydraulic performance

11 - 1 Water pressure drop curve evaporator

EWAQ130-210DAYN(N-P-B)



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

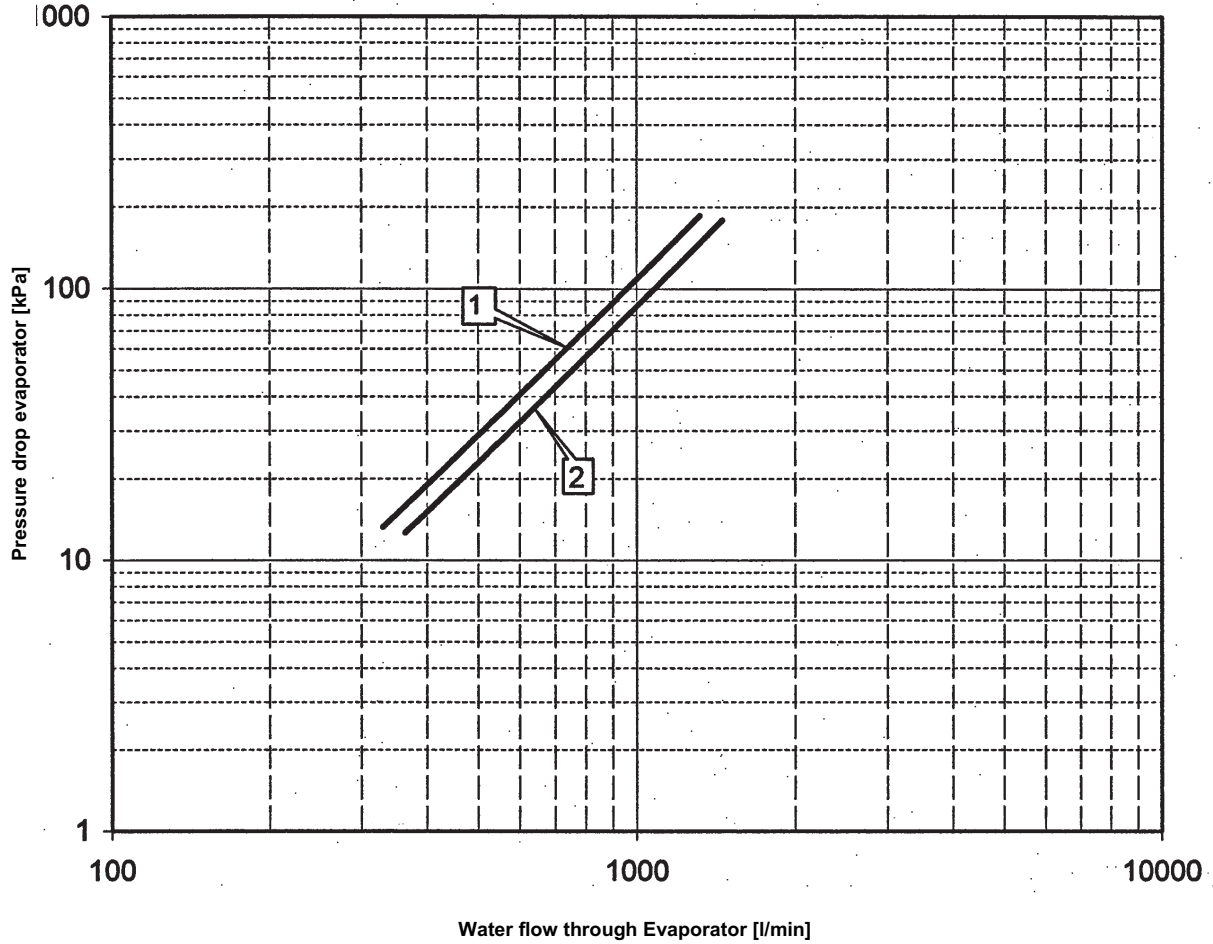
Warning:
 Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.

4TW57599-5

11 Hydraulic performance

11 - 1 Water pressure drop curve evaporator

EWAQ240-260DAYN(N-P-B)



- 1. EWAQ240DAYN*
- 2. EWAQ260DAYN*

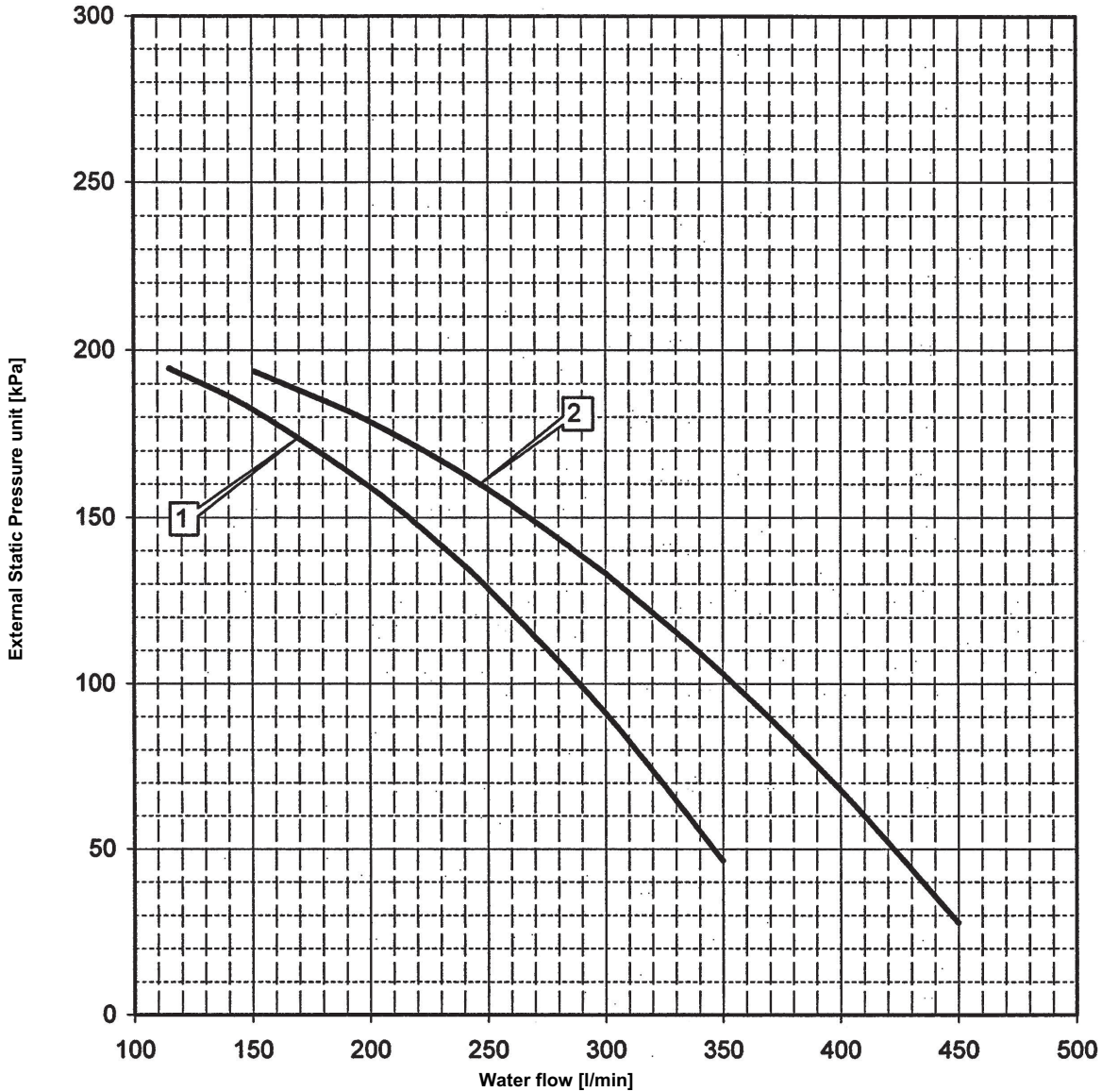
Warning:
 Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.

4TW57639-5

11 Hydraulic performance

11 - 2 Static pressure drop unit

EWAQ080-100DAYN(P-B)



- 1. EWYQ080DAYN* + OPSP
- 2. EWYQ100DAYN* + OPSP

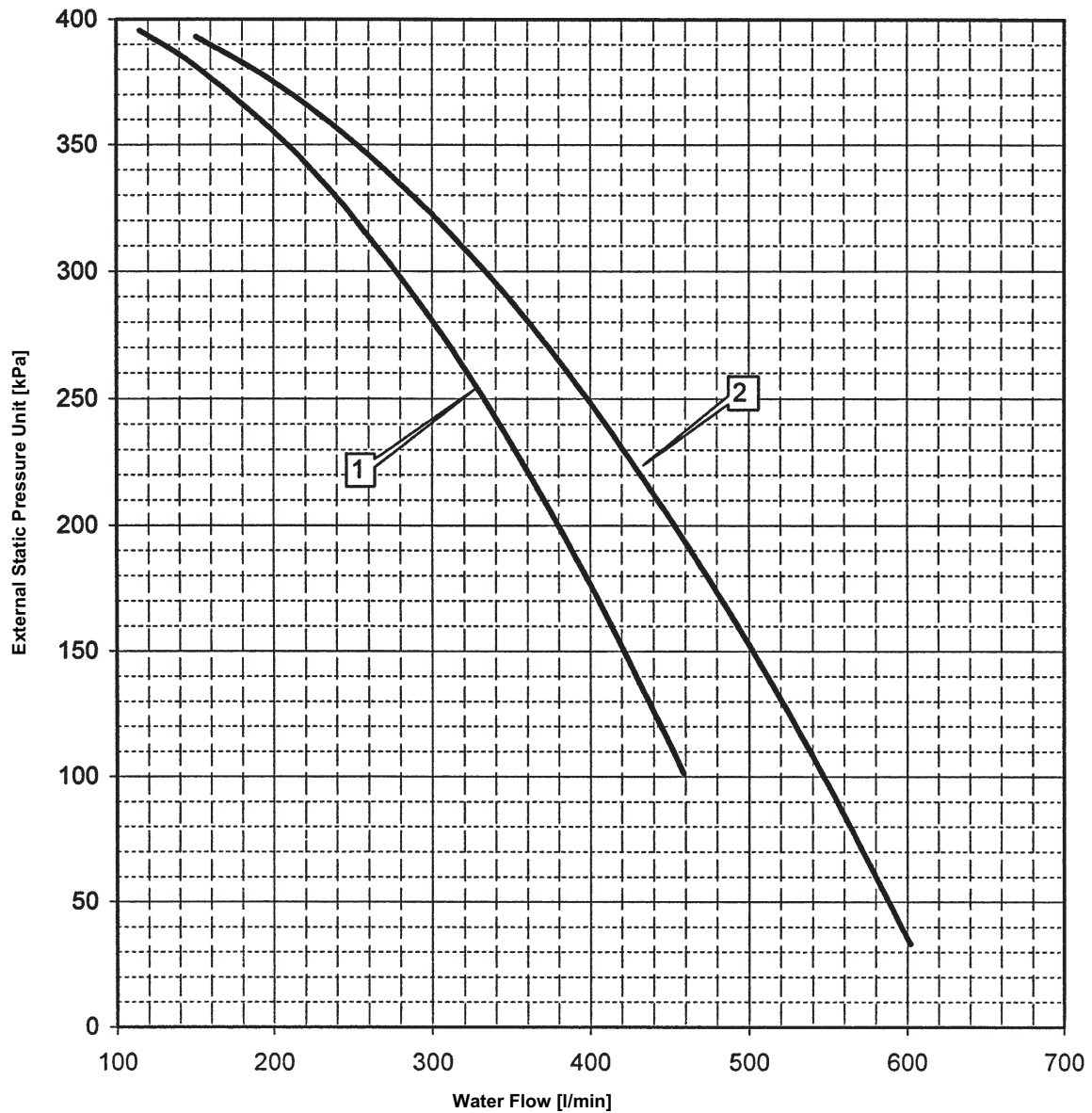
Warning:
 Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.

4TW57579-4

11 Hydraulic performance

11 - 2 Static pressure drop unit

EWAQ080-100DAYN(OPHP)



- 1. EWAQ080DAYN* + OPHP
- 2. EWAQ100DAYN* + OPHP

Warning:

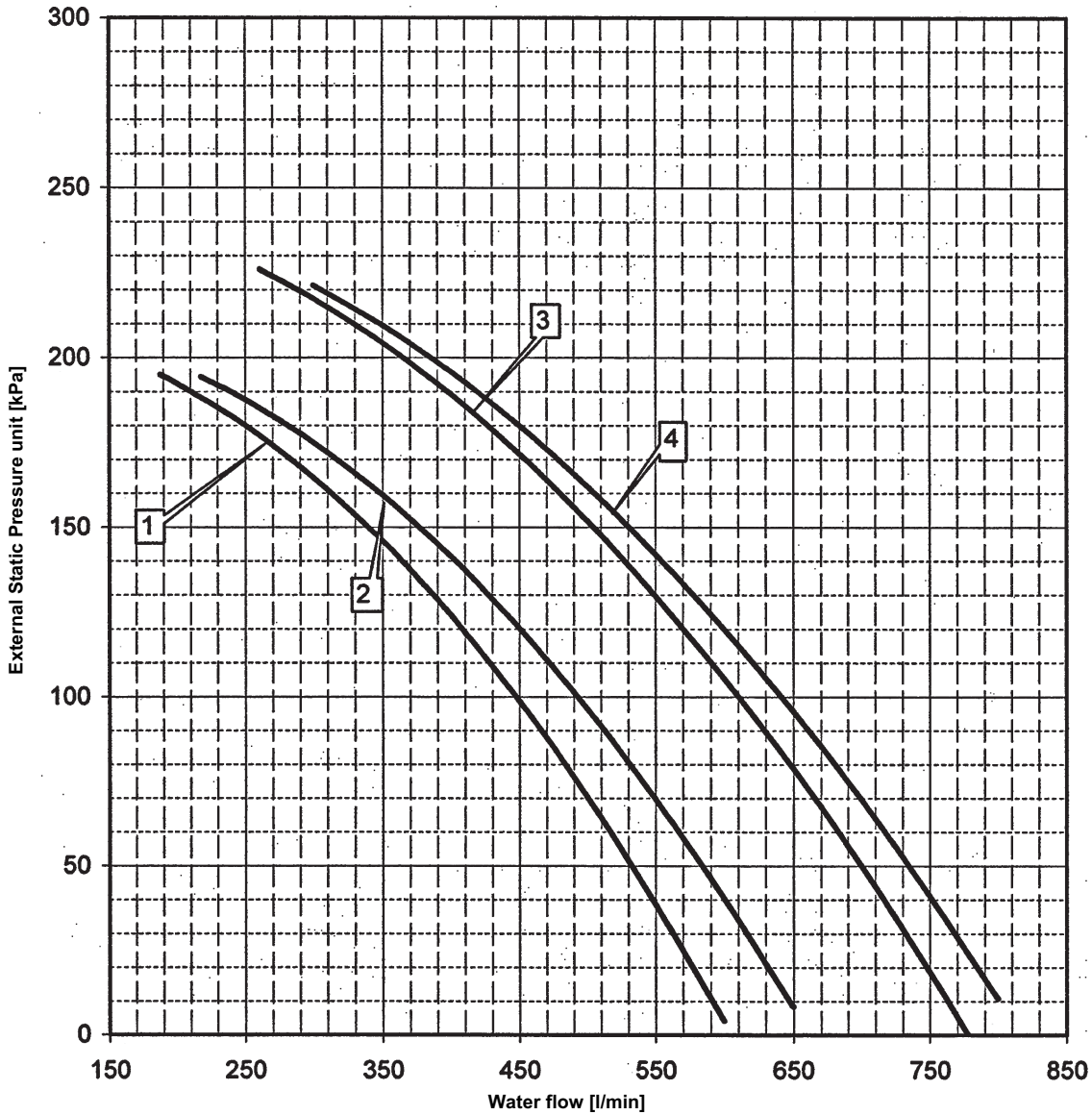
Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.

4TW57579-9.

11 Hydraulic performance

11 - 2 Static pressure drop unit

EWAQ130-210DAYN(P-B)



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

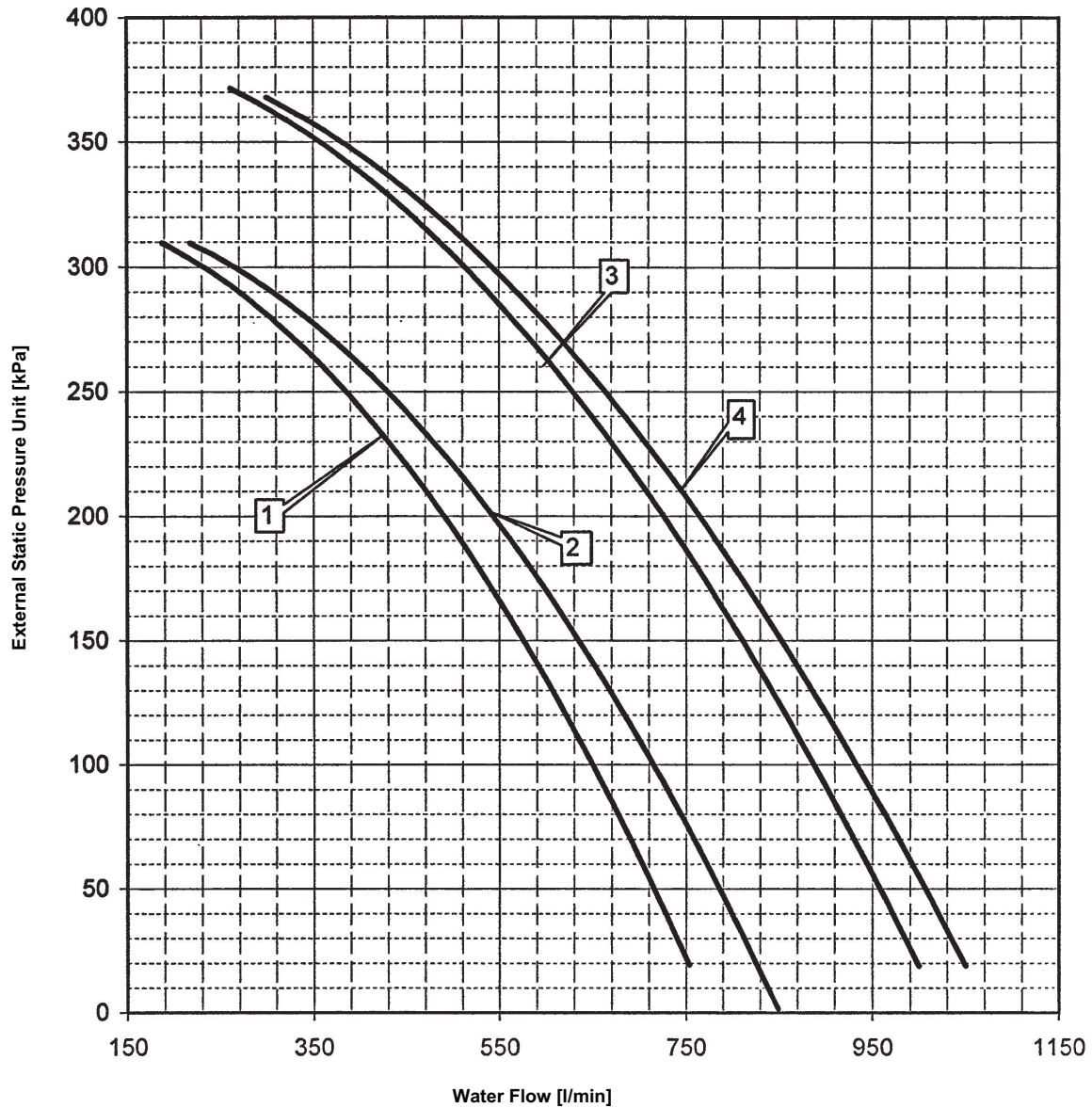
Warning:
 Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.

4TW57599-4.

11 Hydraulic performance

11 - 2 Static pressure drop unit

EWAQ130-210DAYN (OPHP)



- 1. EWAQ130DAYN* + OPHP
- 2. EWAQ150DAYN* + OPHP
- 2. EWAQ180DAYN* + OPHP
- 2. EWAQ210DAYN* + OPHP

Warning:

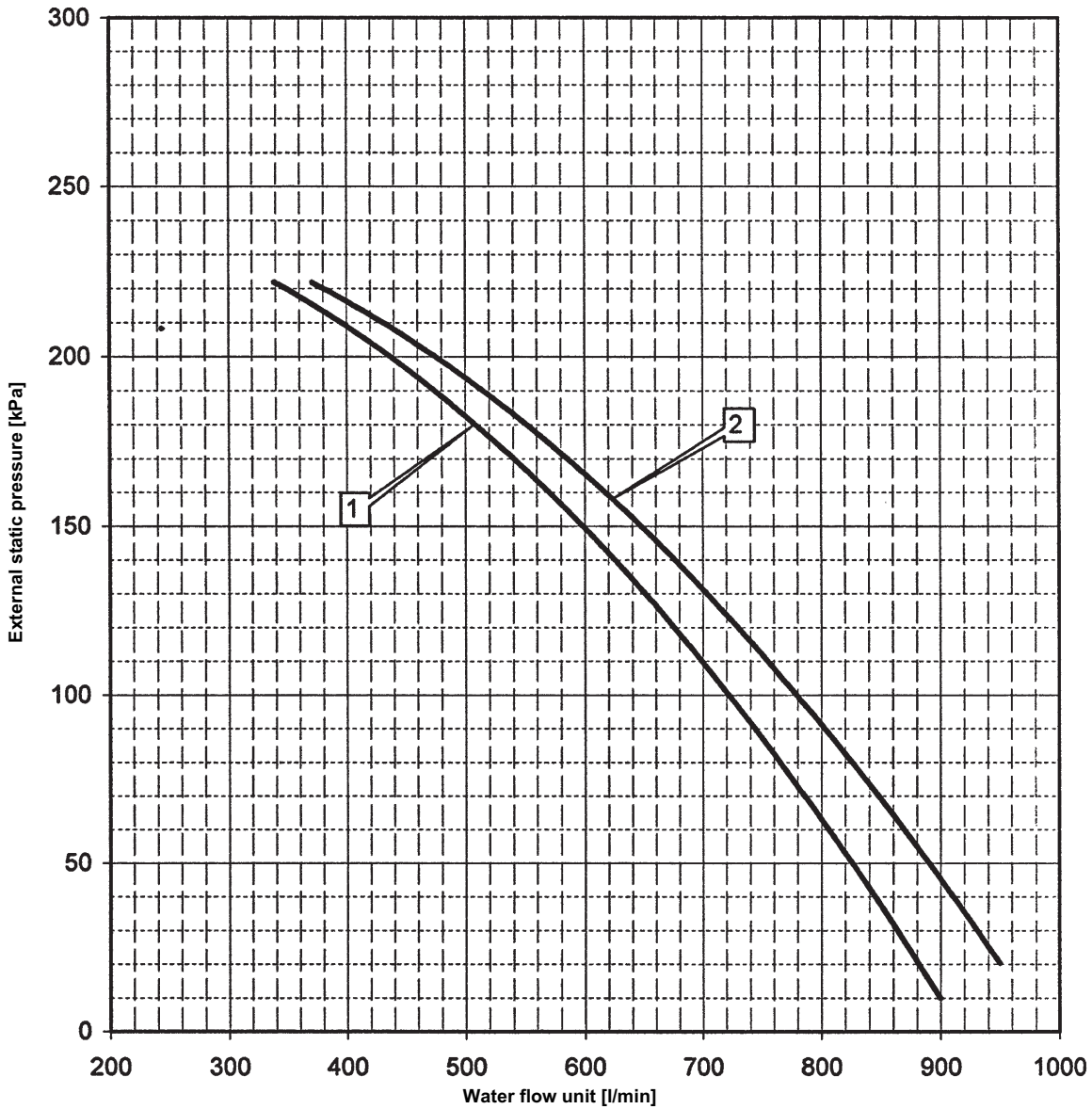
Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.

4TW57599-9

11 Hydraulic performance

11 - 2 Static pressure drop unit

EWAQ240-260DAYN(P-B)



- 1. EWAQ240DAYN* + OPSP
- 2. EWAQ260DAYN* + OPSP

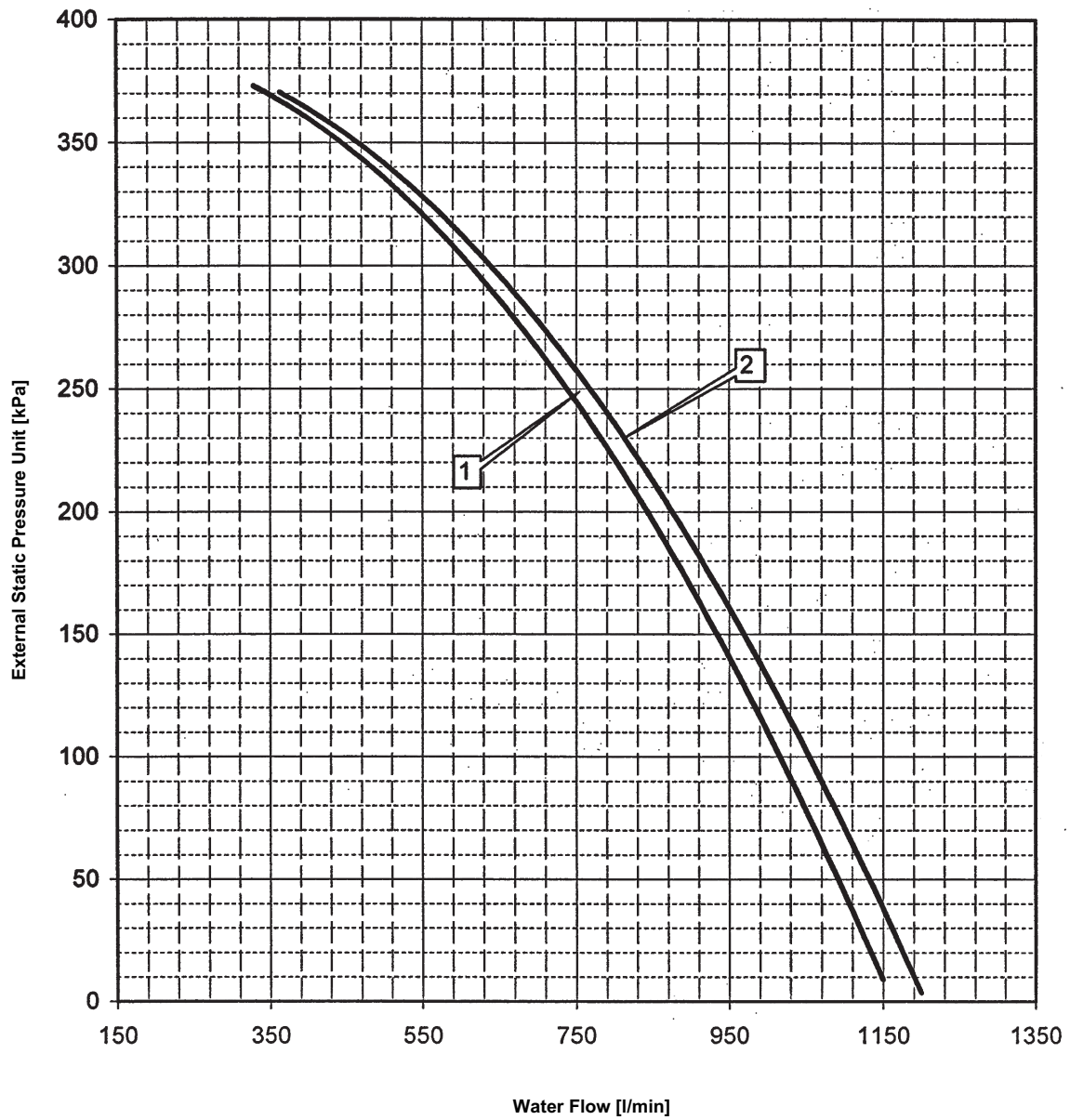
Warning:
 Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.

4TW57639-4

11 Hydraulic performance

11 - 2 Static pressure drop unit

EWAQ240-260DAYN(OPHP)



- 1. EWAQ240DAYN* + OPHP
- 2. EWAQ260DAYN* + OPHP

Warning:

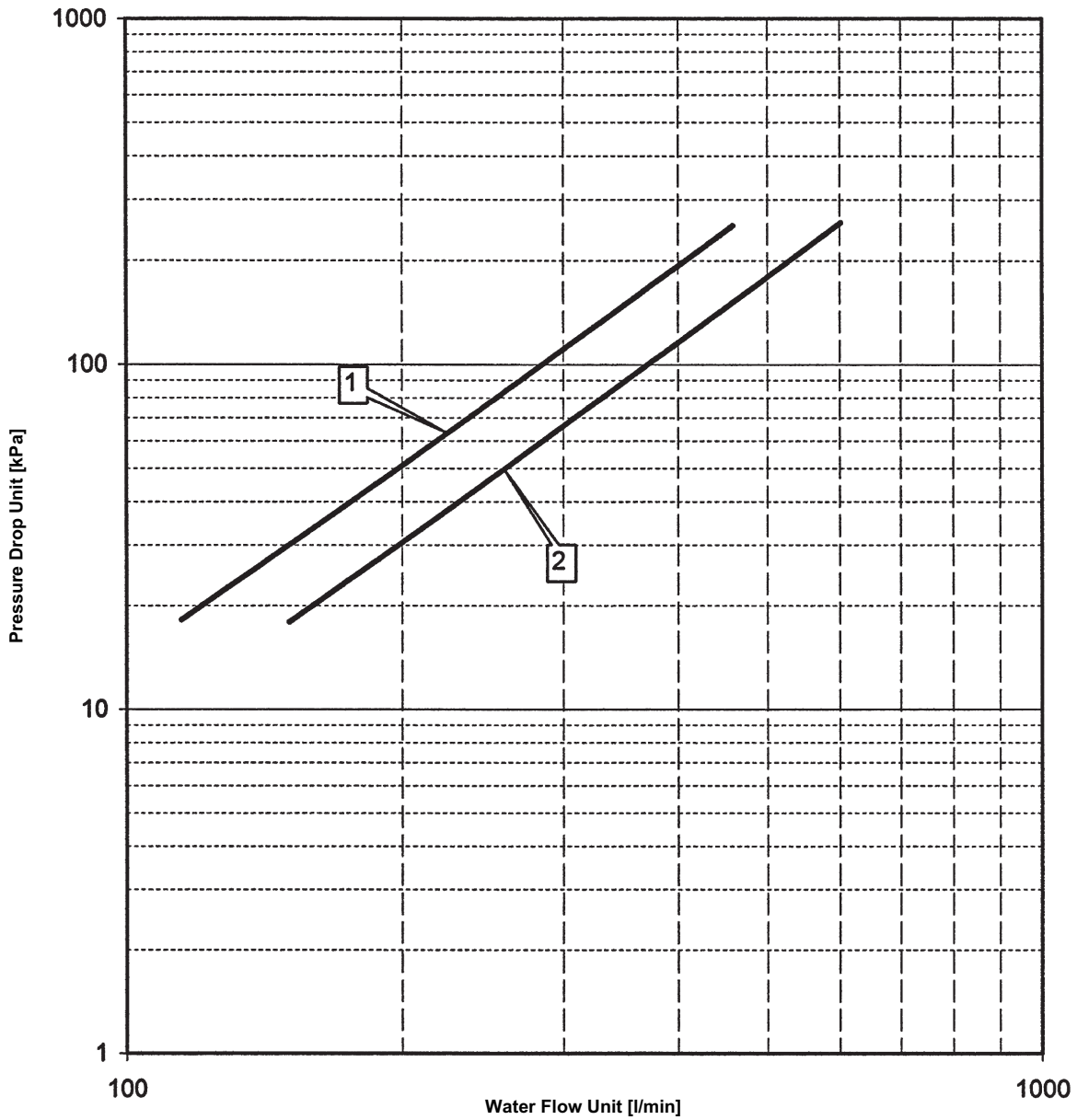
Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.

4TW57639-9.

11 Hydraulic performance

11 - 2 Static pressure drop unit

EWAQ080-100DAYN(N)



- 1. EWAQ080DAYN* Standard model
- 2. EWAQ100DAYN* Standard model

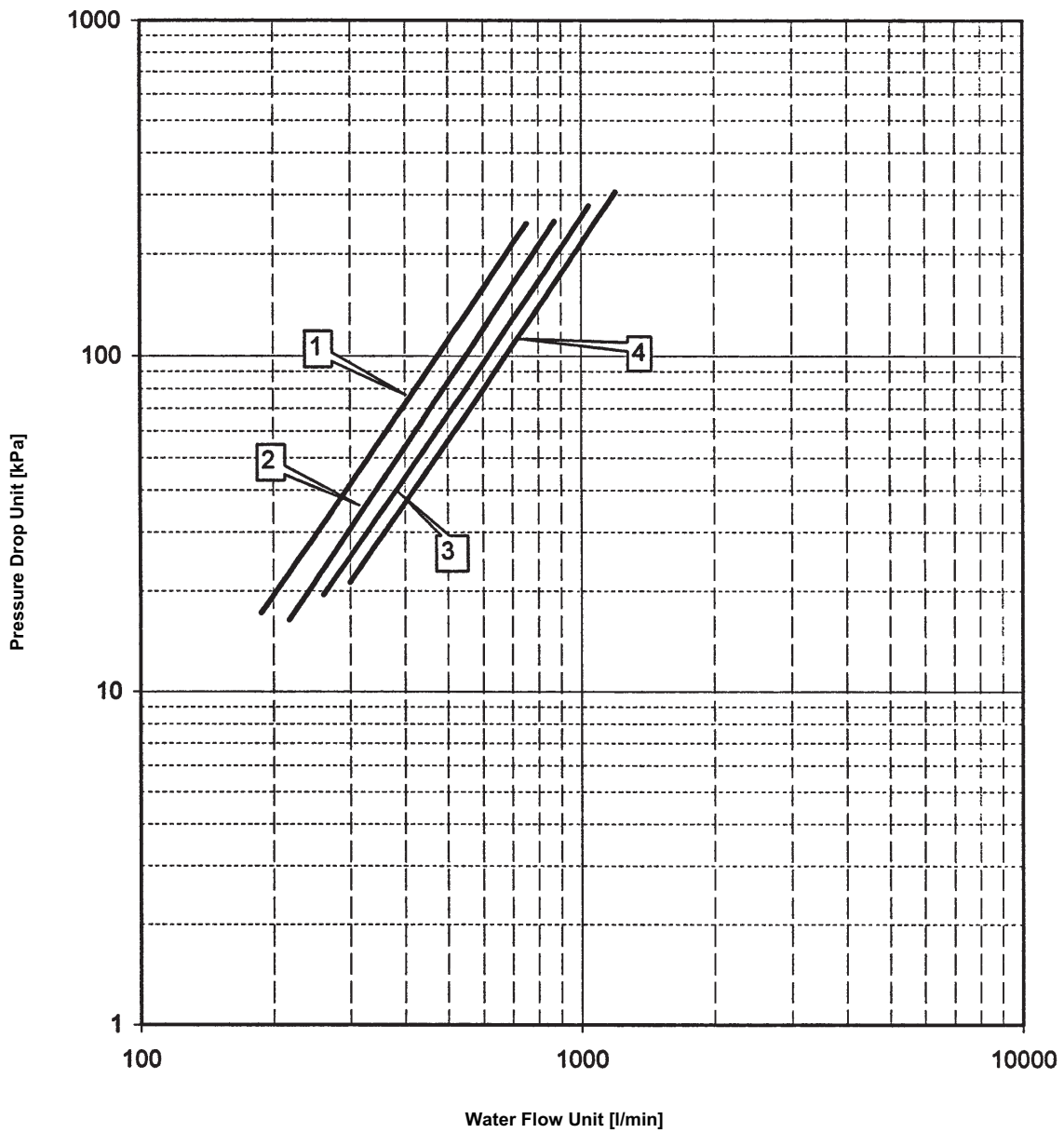
Warning:
 Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrange in the technical specifications.

4TW57579-7.

11 Hydraulic performance

11 - 2 Static pressure drop unit

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