WATER-COOLED CHILLERS
and condenserless chillers

EWWD170-600DJYNN
EWWD190-650DJYNN/A
EWLD160-550DJYNN

www.daikin.eu
ABOUT DAIKIN

Daikin has a worldwide reputation based on over 80 years’ experience in the successful manufacture of high quality air conditioning equipment for industrial, commercial and residential use.

Daikin Europe N.V.

LARGER OPERATION RANGE

› 10 models available with cooling capacities ranging from 165 to 604kW and heating 184 to 745kW
› Ideal for use in severe weather conditions and over a wide operation range
› 2 independent circuits from 320kW onwards
› Condenserless version available
› Compact, simple and robust construction
› Operation range in heating up to 50°

Heat recovery options available on request:
› OPPR – Partial recovery
› OPTR – Total recovery

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<tr>
<th>Application</th>
<th>Sizes</th>
<th>Capacity range</th>
<th>EERavg</th>
<th>Sound level</th>
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Min $\Delta T$ evaporator/condenser water: $^\circ$C 4
Max $\Delta T$ evaporator/condenser water: $^\circ$C 8

Note: The use of glycol is necessary for evaporator leaving water temperature below $+3^\circ$C.
LARGE FLEXIBILITY

In many applications there often exists a simultaneous cooling and heating demand requirement alongside one another. To benefit from this Daikin offers the full range of R-134a EWWD-DJYNN/A and EWLD-DJYNN chillers with the option of heat recovery. This option further increases the application flexibility and extends possibilities in the hotel and leisure industry as well as the industrial and process sectors.

By energetically recovering useful heat from the cooling cycle that would otherwise be rejected to the outside, extremely high COPs can be realised in heat recovery mode. The heat recovery unit aims to achieve an optimum balance between cooling and heat recovery to maximize the unit efficiency and offer savings in hot water production.

Flexibility

Standard fitted with vicualic joints on evaporator:
- Vicualic joints absorb vibrations, reduce operating sound and thermal deflection and simplify chiller piping and installation
- They can accommodate 8° angles and guarantee stress free, leak tight water piping connection.

Sound

Standard units and High efficiency units can be fitted with Option Low Noise. OPLN includes highly absorbent sound proof cabinets around the compressors.

Efficiency

High efficiency units are equipped with oversized evaporators and condensers to achieve +/- 17% increased EER.

Heat recovery

Depending on the heating requirement either partial heat recovery (OPPR) or full heat recovery (OPTR) may be selected full heat recovery.

OPPR – Partial recovery

A stainless steel brazed plate heat exchanger is mounted in series between the compressor and water-cooled condenser as a desuperheater. The sensible heat from the hot discharge gas will be recovered, while the latent heat exchange will occur in the water-cooled condenser. The units’ efficiency is maintained as condensing pressure can be reduced due to water-cooled condenser becoming oversized.

OPTR – Total recovery *

A single, tailored Shell and Tube heat exchanger is mounted for full heat recovery of both sensible and latent heat. It is equipped with 2 independent water circuits with separate connections for condensate and heat recovery. Temperatures up to 55°C can be achieved.

* Not available for EWWD-DJYNN
The large Daikin chillers are fitted with a single screw compressor with stepless capacity control. The stepless capacity control enables the requirements to be closely matched by modulating the sliding valve position according to the chilled water control condition. Capacity control is infinitely variable between 25 and 100% on single circuit units and between 12.5 and 100% on dual circuit units. Main advantages:

- Better partload efficiency (ESEER)
- More stable chilled water temperature
- Closer control tolerance
HEAT EXCHANGER

Shell & tube condenser *

- Special header distribution system and design of water system results in high efficiency and reduced heat transfer surface.
- Compact dimensions and lower weight result in a smaller refrigerant volume.

* Not applicable for EWWD-DJYNN

Shell & tube evaporator

- Special high efficiency tubes with grooves on the inside.
- Special header distribution system and design of water system results in high efficiency and reduced heat transfer surface.
- Compact dimensions and lower weight result in a smaller refrigerant volume.
## SPECIFICATIONS

### STANDARD UNIT

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### OPTIONS & ACCESSORIES

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*Note: OP12 & OP03 needs to be added to meet Swedish national law 1992: 16*
### Specifications

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<td>Dimensions Weight x Depth</td>
<td>1.860x1.000x3.700</td>
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<tr>
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<td>Machine weight kg</td>
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<td>Water Heat Exchanger Evaporator Type</td>
<td>Shell and tube - direct expansion</td>
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<tr>
<td>Water volume l</td>
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<td>1,365</td>
<td>1,515</td>
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<tr>
<td>Water flow rate Min l/min</td>
<td>232.10</td>
<td>270.93</td>
<td>349.74</td>
<td>385.58</td>
<td>452.22</td>
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<td>546.25</td>
<td>613.90</td>
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<td>541.81</td>
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<td>1,019.80</td>
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<td>Water flow rate Max l/min</td>
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<td>763.85</td>
<td>986.26</td>
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<td>Sound/Powere Cooling dBA</td>
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<td>Operation Range</td>
<td>Min~Max °C</td>
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<td>Refrigerant charge kg</td>
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<td>Refrigerant control</td>
<td>Electronic expansion valve</td>
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#### Electrical

<table>
<thead>
<tr>
<th>Make switch</th>
<th>Soft starter</th>
<th>Power factor E F</th>
<th>A/V meter</th>
<th>Electronic Expansion Valve</th>
<th>Pressure relief valve</th>
<th>Suction stop valve</th>
<th>Gauges</th>
<th>Cu/IN heat exchanger</th>
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#### Refrigerant

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<thead>
<tr>
<th>Buffer tanks</th>
<th>Sequencing Panel</th>
<th>Plant Visor</th>
<th>Modern</th>
<th>Converter R5485 to R5232</th>
<th>Converter R5485 to USB</th>
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</thead>
<tbody>
<tr>
<td>8EX</td>
<td>10EX</td>
<td>15EX</td>
<td>20EX</td>
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#### Condenser

<table>
<thead>
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<th>Buffer tanks</th>
<th>Sequencing Panel</th>
<th>Plant Visor</th>
<th>Modern</th>
<th>Converter R5485 to R5232</th>
<th>Converter R5485 to USB</th>
</tr>
</thead>
<tbody>
<tr>
<td>8EX</td>
<td>10EX</td>
<td>15EX</td>
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</table>
ENVIRONMENTAL AWARENESS

Daikin and the Environment

In recent years, motivated by a global awareness of the need to reduce the burdens on the environment, some manufacturers including Daikin have invested enormous efforts in limiting the negative effects associated with the production and the operation of chillers. Hence, models with energy saving features and improved eco-production techniques have seen the light of day, making a significant contribution to limiting the impact on the environment.

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 intention 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. Certification is valid for air cooled models <600kW and water cooled models <1500kW.

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