Effective heat exchange and fresh air ventilation

High Efficiency and low noise levels are achieved by using a highly efficient heat exchange process. A comfortable air conditioned space is achieved by conveniently selecting whether to use heat exchange or normal ventilation setting, according to the requirements of the conditioned space.

208  Energy Recovery Ventilator
210  Energy Recovery Ventilator Options
212  Outdoor Air Unit
214  DX-Kit for Air Handling Application
216  Freeverter for Air Handling Application
### PRODUCT LINEUP

<table>
<thead>
<tr>
<th>Airflow rate (m³/h)</th>
<th>250</th>
<th>350</th>
<th>500</th>
<th>800</th>
<th>1000</th>
<th>1500</th>
<th>2000</th>
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<tbody>
<tr>
<td>Energy Recovery Ventilator</td>
<td>UTZ-BO25A</td>
<td>UTZ-BO35A</td>
<td>UTZ-BO50B</td>
<td>UTZ-BO80B</td>
<td>UTZ-BO100B</td>
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<tr>
<td>ERV Options</td>
<td>UTZ-BD025A</td>
<td>UTZ-BD035A</td>
<td>UTZ-BD050B</td>
<td>UTZ-BD080B</td>
<td>UTZ-BD100B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outdoor Air Unit</td>
<td>UTZ-BD025A</td>
<td>UTZ-BD035A</td>
<td>UTZ-BD050B</td>
<td>UTZ-BD080B</td>
<td>UTZ-BD100B</td>
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</table>

<table>
<thead>
<tr>
<th>Connectable Capacity class (kW)</th>
<th>5.0</th>
<th>6.3</th>
<th>8.0</th>
<th>10.0</th>
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<th>14.0</th>
<th>20.0</th>
<th>25.0</th>
<th>40.0</th>
<th>50.0</th>
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<tbody>
<tr>
<td>DX Kit for air handling applications</td>
<td>UTZ-BO25A</td>
<td>Control unit UTY-VDGX</td>
<td>UTZ-BO35A</td>
<td>Control unit UTY-VDGX</td>
<td>UTZ-BO50B</td>
<td>Control unit UTY-VDGX</td>
<td>UTZ-BO80B</td>
<td>Control unit UTY-VDGX</td>
<td>UTZ-BO100B</td>
<td>Control unit UTY-VDGX</td>
</tr>
<tr>
<td>Connectable Capacity class (kW)</td>
<td>3.5</td>
<td>5.2</td>
<td>6.8</td>
<td>8.5</td>
<td>9.4</td>
<td>10.0</td>
<td>12.5</td>
<td>14.0</td>
<td>20.3</td>
<td>25.0</td>
</tr>
<tr>
<td>Freeverter for air handling applications</td>
<td>UTZ-BD025A</td>
<td>UTZ-BD035A</td>
<td>UTZ-BD050B</td>
<td>UTZ-BD080B</td>
<td>UTZ-BD100B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Note:**
- The table provides specifications for various air handling applications, including airflow rates, energy recovery ventilator options, and connectable capacity classes for different kW ratings. Each specification is accompanied by corresponding product images for visual reference.
A comfortable air conditioned space is achieved by conveniently selecting whether to use heat exchange or normal ventilation setting, according to the requirements of the conditioned space.

Energy recovery ventilator units offer maximum comfort and greater energy savings.

### Features

#### Adopted highly efficient counter-flow heat exchange element

#### Heat exchange ventilation and normal ventilation

**Heat exchange ventilation**

When a room is cooled or heated, the exhausted cooling/heating energy is recovered by heat-exchange ventilation.

**Normal ventilation**

The operation is used during periods when the room space requires no cooling or heating effect, i.e. when there is minimal temperature difference between the indoor and outdoor environments.

#### Energy efficiency and ecology

Energy consumption is dramatically reduced by using a counter-flow heat-exchange element. Air conditioning load is reduced by approximately 20%, resulting in significant energy savings. Recovers up to 77% of the heat in the outgoing air.

#### Features of heat exchange element

With the cross-flow element, air moves in a straight line across the element. With the counter-flow element, air flows through the element for a longer time (longer distance), so the heat-exchange effect remains unchanged.

#### Quiet operation

Significantly reducing low pressure loss and noise allows low-noise operation.

#### Extended range of an external static pressure

An external static pressure is improved by adopting a powerful fan motor. This allows for application in a wide variety buildings.
Slim shape and easier installation
Counter-flow heat exchange element used for reduced noise and slimmer, more compact body shape.

Reverse mountable direct air supply / exhaust system
Adoption of straight air supply / exhaust system: Duct design is simplified because the air supply / exhaust ducts are straight.
Since each unit can be mounted in reverse position, only one inspection hole is needed for two units: Two units can share one inspection hole so duct work is easier and more flexible.

Specifications

Model : UTZ-BD025B / UTZ-BD035B / UTZ-BD050B / UTZ-BD080B / UTZ-BD100B

- **Slim shape and easier installation**
  Counter-flow heat exchange element used for reduced noise and slimmer, more compact body shape.

- **Reverse mountable direct air supply / exhaust system**
  Adoption of straight air supply / exhaust system: Duct design is simplified because the air supply / exhaust ducts are straight.
  Since each unit can be mounted in reverse position, only one inspection hole is needed for two units: Two units can share one inspection hole so duct work is easier and more flexible.

---

**Dimensions**

- **Model No.**
  - UTZ-BD025B
  - UTZ-BD035B
  - UTZ-BD050B
  - UTZ-BD080B
  - UTZ-BD100B

- **Power source**
  - 220 - 240V, 50Hz

- **Heat Exchange**
  - **Input power**
    - Extra high:
      - UTZ-BD025B: 128 W
      - UTZ-BD035B: 123 W
      - UTZ-BD050B: 96 W
      - UTZ-BD080B: 190 W
      - UTZ-BD100B: 185 W
    - High:
      - UTZ-BD025B: 123 W
      - UTZ-BD035B: 185 W
      - UTZ-BD050B: 168 W
      - UTZ-BD080B: 185 W
      - UTZ-BD100B: 168 W
    - Low:
      - UTZ-BD025B: 96 W
      - UTZ-BD035B: 168 W
      - UTZ-BD050B: 185 W
      - UTZ-BD080B: 185 W
      - UTZ-BD100B: 185 W

- **Ventilation**
  - **Input power**
    - Extra high:
      - UTZ-BD025B: 128 m³/h
      - UTZ-BD035B: 123 m³/h
      - UTZ-BD050B: 96 m³/h
      - UTZ-BD080B: 190 m³/h
      - UTZ-BD100B: 185 m³/h
    - High:
      - UTZ-BD025B: 123 m³/h
      - UTZ-BD035B: 185 m³/h
      - UTZ-BD050B: 168 m³/h
      - UTZ-BD080B: 185 m³/h
      - UTZ-BD100B: 168 m³/h
    - Low:
      - UTZ-BD025B: 96 m³/h
      - UTZ-BD035B: 168 m³/h
      - UTZ-BD050B: 185 m³/h
      - UTZ-BD080B: 185 m³/h
      - UTZ-BD100B: 185 m³/h

- **External static pressure**
  - **Input power**
    - Extra high:
      - UTZ-BD025B: 105 Pa
      - UTZ-BD035B: 95 Pa
      - UTZ-BD050B: 45 Pa
      - UTZ-BD080B: 140 Pa
      - UTZ-BD100B: 60 Pa
    - High:
      - UTZ-BD025B: 95 Pa
      - UTZ-BD035B: 60 Pa
      - UTZ-BD050B: 35 Pa
      - UTZ-BD080B: 140 Pa
      - UTZ-BD100B: 60 Pa
    - Low:
      - UTZ-BD025B: 45 Pa
      - UTZ-BD035B: 35 Pa
      - UTZ-BD050B: 35 Pa
      - UTZ-BD080B: 140 Pa
      - UTZ-BD100B: 35 Pa

- **Sound pressure level**
  - **Input power**
    - Extra high:
      - UTZ-BD025B: 31.5 dB
      - UTZ-BD035B: 30.5 dB
      - UTZ-BD050B: 26.5 dB
      - UTZ-BD080B: 33 dB
      - UTZ-BD100B: 31 dB
    - High:
      - UTZ-BD025B: 30.5 dB
      - UTZ-BD035B: 25.5 dB
      - UTZ-BD050B: 32.5 dB
      - UTZ-BD080B: 31 dB
      - UTZ-BD100B: 25.5 dB
    - Low:
      - UTZ-BD025B: 26.5 dB
      - UTZ-BD035B: 32.5 dB
      - UTZ-BD050B: 32.5 dB
      - UTZ-BD080B: 31 dB
      - UTZ-BD100B: 25.5 dB

- **Dimensions**
  - **Model No.**
    - UTZ-BD025B
      - Outside air: 882 x 599 x 270 mm
      - Inside air: 1050 x 804 x 317 mm
    - UTZ-BD035B
      - Outside air: 1090 x 904 x 317 mm
      - Inside air: 1322 x 884 x 388 mm
    - UTZ-BD050B
      - Outside air: 1322 x 1134 x 388 mm
      - Inside air: 1322 x 1134 x 388 mm
    - UTZ-BD080B
      - Outside air: 1322 x 1134 x 388 mm
      - Inside air: 1322 x 1134 x 388 mm
    - UTZ-BD100B
      - Outside air: 1322 x 1134 x 388 mm
      - Inside air: 1322 x 1134 x 388 mm

- **Weight**
  - UTZ-BD025B: 29 kg
  - UTZ-BD035B: 49 kg
  - UTZ-BD050B: 57 kg
  - UTZ-BD080B: 71 kg
  - UTZ-BD100B: 83 kg

- **Outlet duct diameter**
  - UTZ-BD025B: 150 mm
  - UTZ-BD035B: 150 mm
  - UTZ-BD050B: 200 mm
  - UTZ-BD080B: 250 mm
  - UTZ-BD100B: 250 mm

- **Operation range**
  - Temperature: -10 to 40°C
  - Humidity: 85% max.

- **List Price**
  - UTZ-BD025B: £ 707
  - UTZ-BD035B: £ 1317
  - UTZ-BD050B: £ 1633
  - UTZ-BD080B: £ 1851
  - UTZ-BD100B: £ 1851

*The noise level must be measured 1.5 m below the centre of the unit."
Features

ERV RELAY

This accessory will allow an Energy Recovery Ventilator unit to start & stop in unison with the connected indoor unit (There will be no control over on / off, fan speed or damper bypass)

<table>
<thead>
<tr>
<th>Model Name</th>
<th>UTY-ERVRELAY1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>208 - 240V, 50Hz, Single Phase</td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>mm TBC</td>
</tr>
<tr>
<td>Weight</td>
<td>g TBC</td>
</tr>
<tr>
<td>List Price</td>
<td>£ 76</td>
</tr>
</tbody>
</table>
In order to use a Fujitsu hard-wired controller with the ERV units an interface is required.

The UTI-ERV2 interface provides the following features:-

- UTI-ERV2 interface is supplied with an outside air intake duct sensor for control of the ERV bypass damper e.g. heat recovery or “free cooling” bypass mode
- Dry contact terminals for remote on/off e.g. from BMS
- Allows the use of a Fujitsu UTY-RNKY* hard wired controller which has the following features:
  - Allows ERV fan speed selection from the remote controller
  - Controller has an integral 7 day programmable time clock
  - Controller has temperature selection for auto control of the damper
  - Filter clean indicator facility
  - Manual or Auto control of the bypass damper

Please refer to the UTI-ERV installation manual for the full wiring diagram

DO NOT use the above diagram this is for illustrative purposes only

---

### Description of the buttons on UTY-RNKY remote

1. Start / Stop
2. Set Temperature
3. Master Control
4. Fan Control
5. ERV on/off
6. Timer mode (clock adjust)
7. Day (day off)
8. Set Back
9. Set Time
10. Delete
11. Set
12. N/A
13. N/A
14. Filter Button
15. Operation Lamp
16. Timer & Clock Display
17. Operation Mode Display
18. Fan Speed Display
19. Operation Lock Display
20. Temperature Display
21. Function Display

*UTY-RNKY to be ordered separately
VENTILATION

Outdoor Air Unit

The Outdoor Air Unit efficiently processes the outdoor air for cooling, heating and supplies 100% fresh air into a room.

Features

One VRF system can provide air conditioning and air supply at the same time.

Outdoor Air Unit can be connected in a same VRF*1 system as one of indoor unit series and can create fresh and comfortable air supply together from our high advanced technology.

*1. Connectable VRF series: J-IIS, J-II, J-III, J-III, V-III, VR-II, OAU is prohibited to connect under the ambient temperature of 40°C or higher.

High energy savings and flexible duct design by using a DC fan motor

- Greatly reduces electricity consumption by adopting permanent magnet compared to when using an AC motor.
- Compared with AC motor, changing the speed makes it possible to respond flexibly to the external static pressure from 50 Pa to 240 Pa. Even if damper equipment is not used, static pressure can be adjusted and duct design is easy.
- Static pressure can be set easily using wired remote controller.

Compact design

- Lightweight compact design at just 425 mm in height, 55 kg in weight for ARXH072 type. This unit can be installed easily even in narrow spaces.

* Make sure the connected capacity is within the range of 50% to 100% of the outdoor unit capacity. In addition, if there are mixed connections with indoor units, make sure the Outdoor Air Unit connection capacity is 30% or less of the outdoor unit capacity.
Various Controllers

Variety of control options can be supplied, such as individual controller, central controller, and building management controller.

### Individual Controller

- Various Controllers
  - Various options can be supplied, such as individual controller, central controller, and building management controller.

### Central Controller

- Various Controllers
  - Various options can be supplied, such as individual controller, central controller, and building management controller.

### Specifications

<table>
<thead>
<tr>
<th>Model Name</th>
<th>ARXH054GTAH</th>
<th>ARXH072GTAH</th>
<th>ARXH096GTAH</th>
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<tbody>
<tr>
<td>Power Source</td>
<td>V/Ø/Hz</td>
<td>V/Ø/Hz</td>
<td>V/Ø/Hz</td>
</tr>
<tr>
<td>Capacity</td>
<td>Cooling kW</td>
<td>14.0</td>
<td>22.4</td>
</tr>
<tr>
<td></td>
<td>Heating kW</td>
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<td>13.9</td>
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<td>Input Power</td>
<td>Cooling W</td>
<td>11.0</td>
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<td>Heating W</td>
<td>7.0</td>
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</tr>
<tr>
<td>Airflow Rate</td>
<td>m³/h</td>
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<td>1.880</td>
</tr>
<tr>
<td>Static Pressure</td>
<td>Standard [Pa]</td>
<td>185 (50-185)</td>
<td>200 (50-200)</td>
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<tr>
<td>Sound Pressure Level</td>
<td>dB (A)</td>
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<td>44</td>
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<tr>
<td>Dimensions (H x W x D)</td>
<td>mm</td>
<td>425×1,367×572</td>
<td>425×1,367×572</td>
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<tr>
<td>Weight</td>
<td>kg</td>
<td>48</td>
<td>55</td>
</tr>
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<td>Connection Pipe Diameter</td>
<td>Inch</td>
<td>3/8 &amp; 3/4</td>
<td>1/2 &amp; 7/8</td>
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<td>Operation Range</td>
<td>Cooling °C/°F</td>
<td>5 to 43</td>
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<td></td>
<td>Heating °C/°F</td>
<td>/ to 21</td>
<td>/ to 21</td>
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<tr>
<td>Refrigerant</td>
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<td>R410A</td>
<td>R410A</td>
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</table>

Note: Specifications are based on the following conditions.
- Cooling: Outdoor temperature of 33°CDB / 28°CWB.
- Heating: Outdoor temperature of 0°CDB / -2.9°CWB.

### Dimensions

(Unit: mm)

**ARXH054GTAH**

- Front view
- Top view
- Side view (L)
- Side view (R)

**ARXH072GTAH**

- Front view
- Top view
- Side view (L)
- Side view (R)

**ARXH096GTAH**

- Front view
- Top view
- Side view (L)
- Side view (R)

*The temperature setting is discharged air temperature setting. The air volume is set to a constant speed.*
VENTILATION

**DX-Kit** for Air Handling Applications

These kits enable other manufacturers’ air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu VRF system or be connected to a dedicated Fujitsu VRF outdoor unit as a 1:1 system to control outside air ventilation (AHU) or room temperature (FCU).

**Features**

Multiple temperature sensors optimally control the air handling unit or fan coil unit.

- When connecting to an air handling unit, the supply air temperature is controlled by the discharge sensor.
- When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.

Supports a wide range of capacity classes

- 2 EEV units can be connected in parallel and up to 20 HP (50 kW) large capacity units. (Separation Tube of UTP-LX180A is required.)
- Connectable capacity range: 5 kW to 50 kW

A variety of controls to match the application

Central control using our VRF controllers or central management controllers

Central control from on-site BMS

*DDC = Direct Digital Controller*
Functions Summary

**Inputs**
- ON/OFF
- Setting temperature
- Capacity demand
- Heating / Cooling operation mode
- Fault information

**Outputs**
- ON/OFF indication
- Fan ON/OFF indication
- Thermo ON/OFF indication
- Defrost indication
- Fault indication

**MODBUS® Control**
Possible to control via a MODBUS enabled BMS by using optional interface.

Installation Limitation
- Connectable DX-Kit system capacity range: 50 to 100% of the outdoor unit capacity
- Connectable DX-Kit system capacity range with indoor units: 30% or less of the outdoor unit capacity
- Max. wiring length from control unit to sensor positions: 15 m
- Max. wiring length from control unit to EEV: 10 m
- Max. piping length between EEV unit and indoor unit: 5 m
- Outdoor installation: Control unit (IP54 rated) and EEV unit can be installed in an outdoor environment.

**Connectable capacity**
- **Single connection**
- **Mixed connection**

**Piping and wiring length**
- Max. piping length 10 m
- Max. wiring length 15 m

For 2EEV units connection (option)
Separation Tube: UTP-LX180A £90

Control unit: UTY-VDGX
EEV unit: UTP-VX30A / UTP-VX60A / UTP-VX90A

**Specifications**

<table>
<thead>
<tr>
<th>Connectable Capacity class</th>
<th>5.0 kW</th>
<th>6.3 kW</th>
<th>8.0 kW</th>
<th>10.0 kW</th>
<th>12.5 kW</th>
<th>14.0 kW</th>
<th>20.0 kW</th>
<th>25.0 kW</th>
<th>40.0 kW</th>
<th>50.0 kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>Cooling kW</td>
<td>Heating kW</td>
<td>Cooling kW</td>
<td>Heating kW</td>
<td>Cooling kW</td>
<td>Heating kW</td>
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</tr>
<tr>
<td></td>
<td>5.6</td>
<td>6.3</td>
<td>8.0</td>
<td>10.0</td>
<td>12.5</td>
<td>14.0</td>
<td>22.6</td>
<td>25.0</td>
<td>40.0</td>
<td>50.4</td>
</tr>
</tbody>
</table>

Note: Specifications are based on the following conditions.
- Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
- Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
- Pipe length: 7.5 m Voltage: 230 V.

Control Unit
- **Control Unit**: UTY-VDGX
- Power source: V/Ø/Hz 230/1/50
- Dimensions (H x W x D): 400 × 400 × 120
- **List Price**: £ 780

EEV Unit
- **EEV unit UTP-VX30A**
- Dimensions (H x W x D): 3/8
- **List Price**: £ 240

- **EEV unit UTP-VX60A**
- Dimensions (H x W x D): 1/2
- **List Price**: £ 240

- **EEV unit UTP-VX90A**
- Dimensions (H x W x D): 1/2
- **List Price**: £ 480

List Price: £ 240

UTP-VX30A UTP-VX60A UTP-VX90A x2
Freeverter is an interface module developed for FUJITSU Split System heat pump outdoor units so that they can be used to provide cooling or heating for DX Air Handling units (AHUs) by other manufacturers.

By interfacing a FUJITSU heat pump to a DX coil in an air handling unit (AHU(by others)), outside air for ventilation purposes can be efficiently and cost effectively cooled and heated by a single outdoor Heat Pump unit for year round operation.

The freeverter module can accept dry contact fan, heat, Cool control inputs & 0-10vDC capacity signals from site BMS systems to control the Fujitsu outdoor units (3.5kW to 25kW capacity sizes). If no BMS is available then optional duct or room controllers will need to be added for a stand alone solution. 30 control steps are available from 0% to 100% capacity.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
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<tbody>
<tr>
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<td>UTY-FVI</td>
</tr>
<tr>
<td>Power Supply</td>
<td>230vAC 50Hz 1 Phase</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>4w</td>
</tr>
<tr>
<td>Current</td>
<td>0.015A</td>
</tr>
<tr>
<td>Inputs Cool / Heat</td>
<td>Dry Contact 20mA</td>
</tr>
<tr>
<td>Inputs Cool / Heat 0 - 10vDC</td>
<td>Impedance 10Kohm</td>
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<tr>
<td>Coil Sensor Length</td>
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<tr>
<td>Fan Out</td>
<td>Dry Contact relay max 240v, 0.3A</td>
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<tr>
<td>Error Out</td>
<td>Dry Contact relay max 240v, 0.3A</td>
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<tr>
<td>Housing Colour</td>
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<tr>
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<td>List Price</td>
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</tbody>
</table>

The Freeverter control logic is very well protected:
- Automatic defrost.
- Automatic defrost after stop.
- Compressor protection.
- Compressor pre-heating.
- Auto restart after power failure.
<table>
<thead>
<tr>
<th>Model</th>
<th>Cooling kW (1)</th>
<th>EER</th>
<th>Heating kW (1)</th>
<th>COP</th>
<th>Heating @ -10°C kW</th>
<th>Power Supply V/Ph</th>
<th>Pipe Run</th>
<th>Pipe Size</th>
<th>Max R410A gas charge kg (3)</th>
<th>Run Amps</th>
<th>Outdoor unit List Price £</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOYG12LA</td>
<td>3.5 (0.9-4.4)</td>
<td>3.33</td>
<td>4.1 (0.9-5.7)</td>
<td>3.69</td>
<td>4.06</td>
<td>230V / 1ph</td>
<td>3 - 10m</td>
<td>3/8, 1/4</td>
<td>1.45</td>
<td>7.2 / 7.4</td>
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<td>AOYG18LA</td>
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<td>5.44</td>
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<td>3 - 10m</td>
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<td>1.45</td>
<td>7.2 / 7.4</td>
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<td>3.08</td>
<td>8.0 (0.9-9.1)</td>
<td>3.54</td>
<td>6.76</td>
<td>230V / 1ph</td>
<td>3 - 20m</td>
<td>5/8, 1/4</td>
<td>2.00</td>
<td>9.7 / 9.9</td>
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<td>3.21</td>
<td>10.0 (2.7-11.2)</td>
<td>3.73</td>
<td>8.33</td>
<td>230V / 1ph</td>
<td>3 - 20m</td>
<td>5/8, 3/8</td>
<td>3.30</td>
<td>11.6 / 11.7</td>
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<td>3.18</td>
<td>11.2 (2.7-12.7)</td>
<td>3.61</td>
<td>9.41</td>
<td>230V / 1ph</td>
<td>3 - 20m</td>
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<td>3.30</td>
<td>11.0 / 11.6</td>
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<td>14.0 (5.0-16.2)</td>
<td>3.68</td>
<td>12.03</td>
<td>230V / 1ph</td>
<td>3 - 30m</td>
<td>5/8, 3/8</td>
<td>4.55</td>
<td>16.5 / 16.1</td>
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<td>3.52</td>
<td>11.2 (5.0-14.0)</td>
<td>3.90</td>
<td>11.32</td>
<td>400V / 3ph</td>
<td>5 - 30m</td>
<td>5/8, 3/8</td>
<td>5.60</td>
<td>6.3 / 6.4</td>
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<td>3.08</td>
<td>14.0 (5.4-16.2)</td>
<td>3.81</td>
<td>12.93</td>
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<td>5 - 30m</td>
<td>5/8, 3/8</td>
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<td>6.4 / 5.5</td>
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<td>5 - 30m</td>
<td>5/8, 3/8</td>
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<td>6.9 / 6.5</td>
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<td>22.6 (12.0-26.5)</td>
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<td>19.40</td>
<td>400V / 3ph</td>
<td>5 - 50m</td>
<td>7/8, 1/2</td>
<td>17.25</td>
<td>9.6 / 9.6</td>
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<tr>
<td>AOY72LA</td>
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<td>28.0 (12.5-31.5)</td>
<td>3.60</td>
<td>22.76</td>
<td>400V / 3ph</td>
<td>5 - 50m</td>
<td>7/8, 1/2</td>
<td>17.25</td>
<td>11.9 / 12.5</td>
<td>3,367.00</td>
</tr>
</tbody>
</table>

Cooling capacities based on +4°C evaporating temperature and 35°C outside ambient.
Instantaneous heating capacities (excluding defrost) at +45°C condensing temperature and +7°C and -10°C outside air temperature.
Operating limits:
Cooling: -10°C ~ 46°C
Heating: -15°C ~ 24°C

Stand Alone Control options

If no site BMS exists then optional controls can be used to enable a stand alone solution.
(available from controls or heating distributor)