HEAT PUMP SYSTEMS
AQUADUE® CONTROL

Management and control system of Olimpia Splendid’s Heat Pump installations.

Remote control with the iOS / Android App
The Aquadue® system integrates all OS heat pumps and Bi2 terminals. It also allows the management of potential back-up thermal groups or other elements of the installation, such as circulators. Aquadue®Control combines the efficiency of the heat pump inverter systems with the effectiveness of the Bi2 terminals, equipped with DC brushless motor and a radiant heating panel.

The Aquadue® system manages:
- winter/summer climatic curves of the heat pumps
- thermal loads
- air flow of Bi2 fan coil units
- Time band programming at different set points.
AQUADUE® CONTROL

Management and control system of the air-conditioning/heating installation and domestic hot water production.

WHAT IS AQUADUE® CONTROL?
It is the home automation management system designed by Olimpia Splendid for highly energy-efficient residential installations. It integrates all Olimpia Splendid’s hydronic systems: Bi2, the ultraslim terminals with heating panels, and Sherpa inverter heat pumps are more integrated and efficient. AQUADUE® CONTROL can autoconfigure, control, and manage all its functions:
- ventilated or irradiated heating
- cooling
- dehumidification
- hot water production
AQUADUE® CONTROL integrates the energy advantages of the heat pump generators with the comfort advantages of the Bi2 terminals adding the possibility to manage each unit locally, as well as remotely.

DOMOTIC CONTROL TO MAXIMIZE COMFORT
- Climate integration between heat pump generators and FAN CDIL RADIATOR system terminals
- Selection of dedicated comfort zones
- Weekly programming
- 3 “special programs” for diverse comfort needs
- Up to 192 units under control
- Remotization from smartphone / tablet using APP for iOS and Android

MULTIZONE, MULTICOMFORT
Thanks to the icon interface, the access to heat pump generators and to terminal units is immediate and extremely simple, and their management is integrated and under control.

AUTOPLAY
Independently identifies system units organizing them by type and environment and also groups and renames them according to user needs.

MULTIZONE, MULTICONTROL
For each group of generators or system terminals you can check and adjust:
- Operation mode
- Set points
- Temperatures levels of the water system
- Levels of ambient temperatures and climatic curves
- Programs
CPU CONTROL
The CPU has two Ethernet ports for connection to a personal computer or a TCP/IP network or router switch for remote management, including preconfigured OS application.

AQUADUE TOUCH
7" touch screen wall interface. Optional device.

LIVING COMFORT, MAXIMUM ENERGY SAVING
With Aquadue control you can select five modes of operation with optimized algorithms with climatic heat pump curves which maximize energy savings.
- Heating comfort
- Heating economy
- Cooling comfort
- Cooling economy
- Automatic
Thanks to the interactive calendar these operations can be inserted in weekly and hourly programming.

At the single unit system level you can supervise and configure:
- Ambient Temperature Display
- Set point temperature
- Operating mode (heat, cold, auto)
- Speed ventilation: minimum, maximum, modulated
- Night Function (eliminates ventilation and maintains temperature thanks to irradiation, ensuring maximum comfort and zero noise)
- Direct terminal switch off
The multifunctional air-water split heat pump.

DHW AND COMFORT AT THE SAME TIME
The two interconnected refrigerator cycles allow the decoupling of the heating/cooling from the DHW production, enabling them to operate in parallel, avoiding thus interruptions in the domestic comfort supply.

75°C DOMESTIC HOT WATER
High temperature DHW storage allows a reduction of the boiler volume up to 30%, to heat bathroom heater radiators and avoids highly energy-consuming anti-legionella cycles that are normally performed through the use of electrical resistances.

OLIMPIA SPLENDID'S FULL INVERTER TECHNOLOGY
Sherpa AQUADUE® control is extremely flexible and configurable, and it allows to:
- customize the response limits of the two cycles at installation
- customize comfort and DHW needs at installation
- optimize energy performances by managing the operation of the double refrigeration circuit.

PATENTED TECHNOLOGY
The combination of an inverter air-water heat pump together with a water-water heat pump allows heating/cooling and high temperature DHW production, independently from the outside weather conditions.

COP > 4
DHW 75°C
Energy class: A++

DHW 75°C

Compatible with:
The AQUADUE® system manages:

- **Cooling**
- **Cooling + DHW at a high temperature**
- **Heating**
- **Heating + DHW at a high temperature**

**HEATING MODE**

+ **DHW at high temperature**

DHW production is guaranteed independently from the outside temperature for an optimal operation throughout the year, which is not guaranteed by traditional heat pumps.

**COOLING MODE**

+ **DHW at a high temperature with energy recovery**

The energy normally dissipated outside is recovered and used to produce DHW up to 75 °C.

**PERFORMANCE AND ENERGY ADVANTAGES**

In adverse weather conditions traditional heat pumps decrease thermal output producing water at a lower temperature. Sherpa AQUADUE® as well as extending the area of operation ensures a constant heat output, in the production of Domestic Hot Water.

![Diagram of DHW Module](image)

**Optimum area of operation of traditional heat pumps**

**Area of operation extended - AQUADUE® technology**

The double refrigerator circuit allows higher DHW production temperatures thanks to the water-water circuit which are independent of outside air temperature.

**Heat recovery area - AQUADUE® technology**

In summer cooling operation the refrigeration cycle dedicated to DHW production removes heat from the comfort circuit increasing the overall efficiency of the system.

**RENEWABLE SHARE COVERAGE FOR DHW PRODUCTION WITHOUT ADDITIONAL EQUIPMENT - RES DIRECTIVE**

AQUADUE® technology thanks to efficient heat management guarantees, in buildings of a high energy class, the coverage share from renewable energy (Legislative Decree 28/2011) without the installation of additional devices.
FEATURES

DHW (Domestic Hot Water) production at a high temperature, up to 75 °C.

DHW management: a group of water-water heat pumps integrated in the indoor unit provides domestic hot water at a high temperature regardless of external weather conditions.

Continuous absolute availability of DHW: guaranteed by the redundancy of the double refrigerating circuit system.

Antilegionella cycles avoidable using the refrigeration cycle at high temperature.

2-stage electric heater: single or double strength activation to support the heat pump through a simple configuration of the electronic control. Each stage is activated according to the actual need of thermal power in order to optimize power consumption.

Configurable points: two set points in cooling mode. Three set points in heating mode (one of them for DHW); the set points are also selectable by remote contact.

Weekly programmer DHW, holidays and daily with night mode.

Climatic curves with outside air temperature sensor: two curves are available, one for cooling and one for heating. Climatic curves allow you to modify system water temperature supply depending on climate conditions, adapting the heat requirements of the building in order to obtain energy savings.

Refrigerant gas: R410a* for the reversible circuit dedicated to air-conditioning and R134a** for the high temperature circuit dedicated to DHW production.

STANDARD EQUIPMENT:
- Outside temperature sensor kit
- DHW boiler sensor kit

1 Support structure
2 Primary circuit system heat exchanger
3 Expansion tank system circuit
4 Electric resistors collector
5 Primary circuit electronic circulation pump
6 3-way valve
7 Secondary circuit compressor (DHW)
8 Expansion valve circuit DHW
9 Heat exchanger circuit DHW
10 DHW circuit electronic circulation pump
11 Flow regulator
12 Gauge
13 Flow gauge
14 Automatic safety vent
15 Refrigerant connections
16 Water connections (system and external boiler)

* Non hermetically sealed equipment containing fluorinated gas with GWP equivalent 2088
** Non hermetically sealed equipment containing fluorinated gas with GWP equivalent 1430
HOME PAGE
The home page shows the following information:

A - Date and time system
B - Current Active Mode (Stand-by, cooling, heating, only DHW)
C - Activated features (climate curve, DHW Turbo, DHW OFF, anti legionella, Night, ECO)
D - Alarms/overrides (flashing)
E - Temperature values water system, active system timers, Holiday, Rating
F - Temperature values DHW water boiler, active timers domestic hot water, Holiday
G - Activation icons:
   Mode: operating mode
   Tset: system and domestic set point
   Tshow: reading of temperature sensors
   Timers: time programming
   Menu: machine functions

OPERATING MODES
Touching the Mode icon, you can access the operating modes configuration page. The selection icons for all available operating modes are on this page:
• Stand-by, the system is off
• Cooling, the system produces cold water until it reaches the set-point (set point fixed or dynamically defined by climatic curve)
• Heating, the system produces hot water up to the set-point (set point fixed or dynamically defined by climatic curve)
• ECO, energy savings (if climate curve active the ECO set point is not considered)
• Night, the system limits the yield and noise of the outside unit
• Turbo DHW, the system produces hot water using the entire power of the outdoor unit up to the limit set.

SET POINT
Tapping the Tset icon, you can access the configuration page of the set point.
• Cooling water temperature
• ECO cooling water temperature
• Heating water temperature
• ECO heating water temperature
• Domestic hot water temperature (external boiler set point).
The set points for heating and cooling are not considered by the control in the case where the climate curve mode set point is enabled.
Set point values are changed with a simple touch of the set value.

TIMERS
Tapping the Timers icon you can access available programs.
• Timer heating/cooling
• Timer DHW
• Timer night
• Holidays
Tapping the “Timer Heat/ Cool” or “DHW Timer” or “Timer Night” icon, you can access the page where the activation bands of each timer can be visualized.
### TECHNICAL DATA

#### AQUADUE 7
- Indoor unit code: 599510A
- Outdoor unit code: OS-CNBH24EI
- Heating capacity (a): 6.5 kW
  - COP: 4.1
  - Heating capacity (b): 5.0 kW
  - COP: 3.2
- Heating capacity (c): 6.2 kW
  - COP: 2.9
- Heating capacity (d): 4.8 kW
  - COP: 2.3
- Heating capacity (e): 7.6 kW
  - COP: 2.7
- EER: 4.1

#### AQUADUE 11
- Indoor unit code: 599506A
- Outdoor unit code: OS-CNBCH36EI
- Heating capacity (a): 10.5 kW
  - COP: 4.1
  - Heating capacity (b): 10.0 kW
  - COP: 3.2
- Heating capacity (c): 9.9 kW
  - COP: 3.3
- Heating capacity (d): 7.8 kW
  - COP: 3.0
- Heating capacity (e): 8.3 kW
  - COP: 2.9
- EER: 4.1

#### AQUADUE 13
- Indoor unit code: OS-CNINH48EI
- Outdoor unit code: OS-CETNH48EI
- Heating capacity (a): 12.5 kW
  - COP: 4.1
  - Heating capacity (b): 11.6 kW
  - COP: 3.1
- Heating capacity (c): 11.6 kW
  - COP: 3.1
- Heating capacity (d): 9.3 kW
  - COP: 3.2
- Heating capacity (e): 12.6 kW
  - COP: 3.1
- EER: 4.1

#### AQUADUE 13T
- Indoor unit code: OS-CETNH46EI
- Outdoor unit code: OS-CETNH60EI
- Heating capacity (a): 14 kW
  - COP: 4.1
  - Heating capacity (b): 11.6 kW
  - COP: 3.1
- Heating capacity (c): 13.0 kW
  - COP: 3.2
- Heating capacity (d): 9.8 kW
  - COP: 3.2
- Heating capacity (e): 13.8 kW
  - COP: 3.1
- EER: 4.1

#### AQUADUE 16
- Indoor unit code: OS-CETNH50EI
- Outdoor unit code: OS-CETNH60EI
- Heating capacity (a): 16 kW
  - COP: 4.1
  - Heating capacity (b): 13.0 kW
  - COP: 3.1
- Heating capacity (c): 13.0 kW
  - COP: 3.2
- Heating capacity (d): 10.5 kW
  - COP: 3.3
- Heating capacity (e): 16.9 kW
  - COP: 3.2
- EER: 4.1

#### AQUADUE 16T
- Indoor unit code: OS-CETNH60EI
- Outdoor unit code: OS-CETNH60EI
- Heating capacity (a): 16 kW
  - COP: 4.1
  - Heating capacity (b): 13.0 kW
  - COP: 3.2
- Heating capacity (c): 13.0 kW
  - COP: 3.3
- Heating capacity (d): 10.5 kW
  - COP: 3.3
- Heating capacity (e): 16.9 kW
  - COP: 3.2
- EER: 4.1

#### Energy efficiency class (35°C - 55°C)
- Water-water cycle
  - Heating capacity (h): 2.15 kW
  - COP: 3.12
- Heating capacity (i): 2.15 kW
  - COP: 3.12

#### Heating capacity (Cooling + DHW with Energy Recovery)

<table>
<thead>
<tr>
<th>Capacity</th>
<th>kW</th>
<th>COU</th>
<th>kW</th>
<th>EER</th>
<th>kW</th>
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</table>

#### COOLING + DHW WITH ENERGY RECOVERY

During summer operation in cooling mode, the cycle dedicated to DHW production extracts heat from return water from the system circuit.

The cooling requirements of the building are partially satisfied by the DHW cycle and the comfort refrigerating cycle must deliver less power by reducing the speed of the inverter compressor.

The heat taken from the system is recovered in hot water for domestic use. The efficiency of the integrated system increases (ratio between the energy produced and the energy absorbed from the mains).
COMBINED CYCLE EFFICIENCY

LOADING TIME OF BOILERS with 15-65 °C water
The patented Aquadue® double cycle allows rapid loading times of boilers, up to 40% faster than an equally capacious heat pump boiler.*

Aquadue® 7 Loading time of boilers

Aquadue® 11 Loading time of boilers

Aquadue® 13/13T Loading time of boilers

Aquadue® 16 Loading time of boilers

INTERNAL UNIT

<table>
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<tr>
<th>Code</th>
<th>Internal Unit</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>H</th>
<th>Weight</th>
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EXTERNAL UNIT

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<th>External Unit</th>
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<th>Weight</th>
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<td>847</td>
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<td>DOUBLE-FAN</td>
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<td>910</td>
<td>350</td>
<td>950</td>
<td>99</td>
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<td>910</td>
<td>350</td>
<td>950</td>
<td>99</td>
<td>102</td>
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<td>13T</td>
<td>910</td>
<td>350</td>
<td>950</td>
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<td>910</td>
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<td>950</td>
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<td>102</td>
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<tr>
<td>16T</td>
<td>910</td>
<td>350</td>
<td>950</td>
<td>99</td>
<td>102</td>
<td></td>
</tr>
</tbody>
</table>

Code B0665 - HEATING CABLE KIT
Prevents the formation of ice on the bottom of the external unit in the event of prolonged operation in particularly severe conditions.

* Olimpia Splendid internal tests.
SHERPA

Air-water split heat pump.

RENEWABLE TECHNOLOGIES
Sherpa uses the heat in the air, and transfers it to system terminals in an efficient manner. For each kW of electricity consumed, Sherpa is able to produce over 4 of thermal energy. This means that 75% of energy is free, renewable and clean.

COMPACT TECHNOLOGY
The engineering of components has made it possible to insert a 3-way valve for the management of Domestic Hot Water. The reduced size allows installation inside a kitchen cabinet.

OLIMPIA SPLENDID’S INVERTER DC TECHNOLOGY

SMART CONTROL
The smart onboard control panel has been developed by Olimpia Splendid, it’s extremely flexible and can be fully configured. It features all the advanced characteristics needed to manage every different kind of heat pump systems. It takes into account the climatic season, the thermal load request and adjusts consequently the operation of the motor on the basis of the difference between the temperature of the external environment and the water supply temperature.

Compatible with: AQUADUE
FEATURES

3-way valve incorporated in the internal module for the deviation of the system water supply to the DHW reservoir: allowing installation simplification.

Provides DHW with temperatures up to 60 °C

DHW Management: Sherpa can manage DHW with extreme flexibility through two management methods; water sensor inserted in the boiler or contact thermostat in the tank.

Climatic curves based on the outside air temperature: two curves are available, one for cooling and one for heating. The climatic curves allow you to change the system temperature according with external climate conditions, adjusting the heat input to the heat requirements of the building in order to obtain energy savings.

Two configurable set points in cooling. Three configurable set points in heating (one of which for DHW): the set points can also be selected by remote contact.

2-stage electric heater: configurable single or double stage which can be activated to support the heat pump, through verification, by electronic control, of the actual thermal capacity of the heat pump. Each stage is activated in accordance with the real need for thermal power, in order to optimize electrical consumption.

Daily programmer with night mode:
Night mode provides energy savings of up to 20%. Complete management of antilegionella cycles.

Complete management of antilegionella cycles.

Refrigerant gas R410A.*

The engineering of components has made it possible to include necessary components within the machine for system operation and Domestic Hot Water management. The fitting of 3-way valve within the module simplifies installation procedures and reduces work times.

* Non hermetically sealed equipment containing fluorinated gas with GWP equivalent 2088
## Standard Indoor Unit

<table>
<thead>
<tr>
<th>SHERPA 7</th>
<th>SHERPA 11</th>
<th>SHERPA 13</th>
<th>SHERPA 13T</th>
<th>SHERPA 16</th>
<th>SHERPA 16T</th>
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<tr>
<td>Code</td>
<td>599501A</td>
<td>599501A</td>
<td>599501A</td>
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</table>

### Indoor Unit with 3-way Integrated Valve

<table>
<thead>
<tr>
<th>Code</th>
<th>OS-CEBHX24EI</th>
<th>OS-CEBHX26EI</th>
<th>OS-CEINH48EI</th>
<th>OS-CEINH60EI</th>
<th>OS-CEINH68EI</th>
</tr>
</thead>
</table>

#### Indoor Unit

- **Standard indoor unit**
  - Code: 599501A, 599503A
  - Indoor unit with 3-way integrated valve
    - Code: 599505A, 599500A

#### External Unit

- Code: OS-CEBSH24EI, OS-CEBCH36EI, OS-CEINH48EI, OS-CETNH48EI, OS-CEINH60EI, OS-CETNH60EI

- **Heating Capacity (a)**
  - kW: 6.5, 10.5
  - COP: 4.1, 4.1

- **Heating Capacity (b)**
  - kW: 5.0, 8.5
  - COP: 3.1, 3.2

- **Heating Capacity (c)**
  - kW: 6.2, 9.9
  - COP: 3.3, 3.3

- **Heating Capacity (d)**
  - kW: 4.8, 7.8
  - COP: 2.2, 2.2

- **Cooling Capacity (e)**
  - kW: 7.6, 12.1
  - COP: 3.5, 3.5

- **Cooling Capacity (f)**
  - kW: 5.0, 8.3
  - COP: 3.1, 3.2

- **EER**
  - kW/W: 4.0, 4.1

- **Energy Efficiency Class (35°C - 55°C)**

#### Sound Pressure Levels

- **Indoor unit sound pressure level**
  - dB(A): 30
- **Indoor unit sound power level**
  - dB(A): 41

#### Power Supply

- **Internal unit power supply**
  - V/ph/Hz: 230/1/50
- **External unit power supply**
  - V/ph/Hz: 230/1/50

#### Circulation Pump

- **Absorption**
  - W: 105 - 200

### Additional Electrical Resistors

- **Add.:**
  - kW: 1.5+1.5, 3+3, 3+3

#### Refrigerant Gas

- **Type:**
  - R410A, R410A

- **Global Warming Potential**
  - GWP: 2088, 2088, 2088

#### Weight

- **Standard weight**
  - kg: 36, 36
- **Weight with 3-way valve**
  - kg: 36.3, 36.3

---

## Technical Data

- (a) Water outlet temperature 35°C / External air temperature 7°C
- (b) Water outlet temperature 35°C / External air temperature -2°C
- (c) Water outlet temperature 45°C / External air temperature 7°C
- (d) Water outlet temperature 45°C / External air temperature -2°C
- (e) Water outlet temperature 18°C / External air temperature 35°C
- (f) Water outlet temperature 7°C / External air temperature 35°C
- (g) With inserted resistors
Sherpa heat pump (heating and cooling; DHW); fan coil radiator terminals Bi2 SLR; domestic integration with solar thermal.

![Diagram of Sherpa heat pump system]

Sherpa heat pump (heating and cooling; DHW); radiant heating system and fan coil units Bi2 SL in air conditioning; domestic integration with solar thermal.
Sherpa AQUADUE heat pump (heating and cooling; DHW production at high temperature); radiant heating system and fan coil units Bi2 SL in air conditioning.

Sherpa AQUADUE heat pump (heating and cooling; DHW production at high temperature); fancoil radiator terminals Bi2 SL with simple collector/separator; compact thermal power with column boiler.
On each model you can add an electric immersion resistor, which is supplied as a kit complete with a removable flange.

### BOILERS FOR DOMESTIC HOT WATER.
- Rigid polyurethane coating
- Available in double coil performance
- Enamelled steel
- Sacrificial anode
- External finish in sky
- Sensor holder shaft

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>Single exchanger</th>
<th>Double exchanger</th>
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<td>200 300 500</td>
<td>200 300 500</td>
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<tr>
<td>Max. water temperature °C</td>
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<tr>
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<td>1215 1615 1690</td>
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<tr>
<td>Diameter (tot. With isolation) mm (A)</td>
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<td>Exchanger measurement m²</td>
<td>1.5 1.8 2.2</td>
<td>1.5/0.5 1.8/1.1 2.2/1.3</td>
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<tr>
<td>Serpentline</td>
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<tr>
<td></td>
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<tr>
<td>Material outer</td>
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<td>Color</td>
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<tr>
<td>Weight kg</td>
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<td>90 125 165</td>
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<tr>
<td>Energy efficiency class</td>
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<td>ERP C C D</td>
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</table>

On each model you can add an electric immersion resistor, which is supplied as a kit complete with a removable flange.

* (*) Optional, to be ordered as a separate kit complete with flange.

### PUFFER
- Inertial Tank.
- They guarantee system inertia and minimize inverter compressor frequency variations to the lowest level.
- Minimum content advised for water in the system: 3.5 liters for each kW of installed power.
- Tanks made of carbon steel coated in rigid polyurethane 50mm thick and finished in sky blue.
- Maximum water temperature 85 °C.

<table>
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<td>Weight kg</td>
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<td>45</td>
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<td>A (diameter without isolation) mm</td>
<td>300 400 450</td>
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<tr>
<td>A1 (total external diameter) mm</td>
<td>400 500 550</td>
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<tr>
<td>B (total height) mm</td>
<td>933 1095 1395</td>
<td></td>
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<tr>
<td>C</td>
<td>785 935 1200</td>
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</tr>
<tr>
<td>D</td>
<td>485 560 705</td>
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<tr>
<td>E</td>
<td>180 185 215</td>
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<tr>
<td>F</td>
<td>100 100 105</td>
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<tr>
<td>G</td>
<td>530 605 750</td>
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<tr>
<td>Energy efficiency class</td>
<td>ERP</td>
<td>B</td>
<td>B</td>
<td>C</td>
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