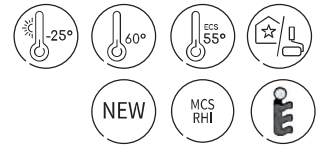


Yutaki S Combi

Stainless steel tank: DHW, heating and cooling



Wide range of power outputs

The Yutaki S Combi range is suitable for all types of installations thanks to its wide range of power outputs.

From 4.30kW to 16.00 kW in heating mode and 4.00 kW to 10.50 kW in cooling mode.

Save without causing more noise

The Yutaki S Combi can be installed in kitchens due to its small size and low noise level. Integrating the DHW storage tank into the indoor unit frees up as much as 70% more room compared to a separate tank.

New Remote control included as standard

An intuitive interface that can handle two zones, and features an ambience sensor to be used as a separate modular thermostat.

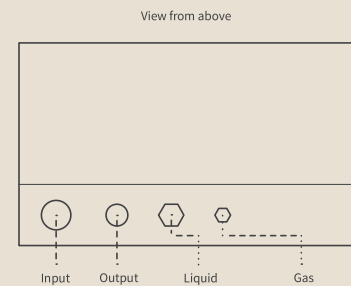
Easy to install and maintain

Compared to a system with separate tank, the Yutaki S Combi can be installed in less time and at a lower cost because:

- All water and refrigerant connections are aligned at the top.
- Most components are accessible from the front.
- Easy access to information from the LCD remote control without having to open the indoor unit.

Stainless steel tank with built-in element

The Yutaki S Combi range comes with an additional electrical heating element. In an emergency, you can activate the DHW BOOST function at the push of a button.



Controls and remote controls (see page 54)



Wired remote control
PC-ARFH2E

Included



Wireless remote control
ATW-RTU-07

Other

- 2-zone kit with 3-way valve and wall-mounted diffuser pump
ATW-2TK-07

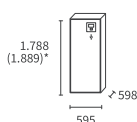
- Integrated 2 zone mixing kit for 220 litre models (2 circuits) ATW-2TK-08

- Hi-Box
AHP-SMB-01

- Hi Kumo interface for Hi-Box
ATW -TAG-02

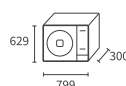
(for more, see p.42-43)

Indoor units

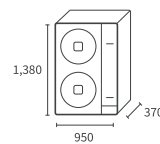


RWD-2.0RW1E
RWD-2.5RW1E
RWD-3.0RW1E RWD-5.0NW1E
RWD-4.0NW1E RWD-6.0NW1E

Outdoor units



RAS-2WHVRP1
RAS-2.5WHVRP1
RAS-3WHVRP1



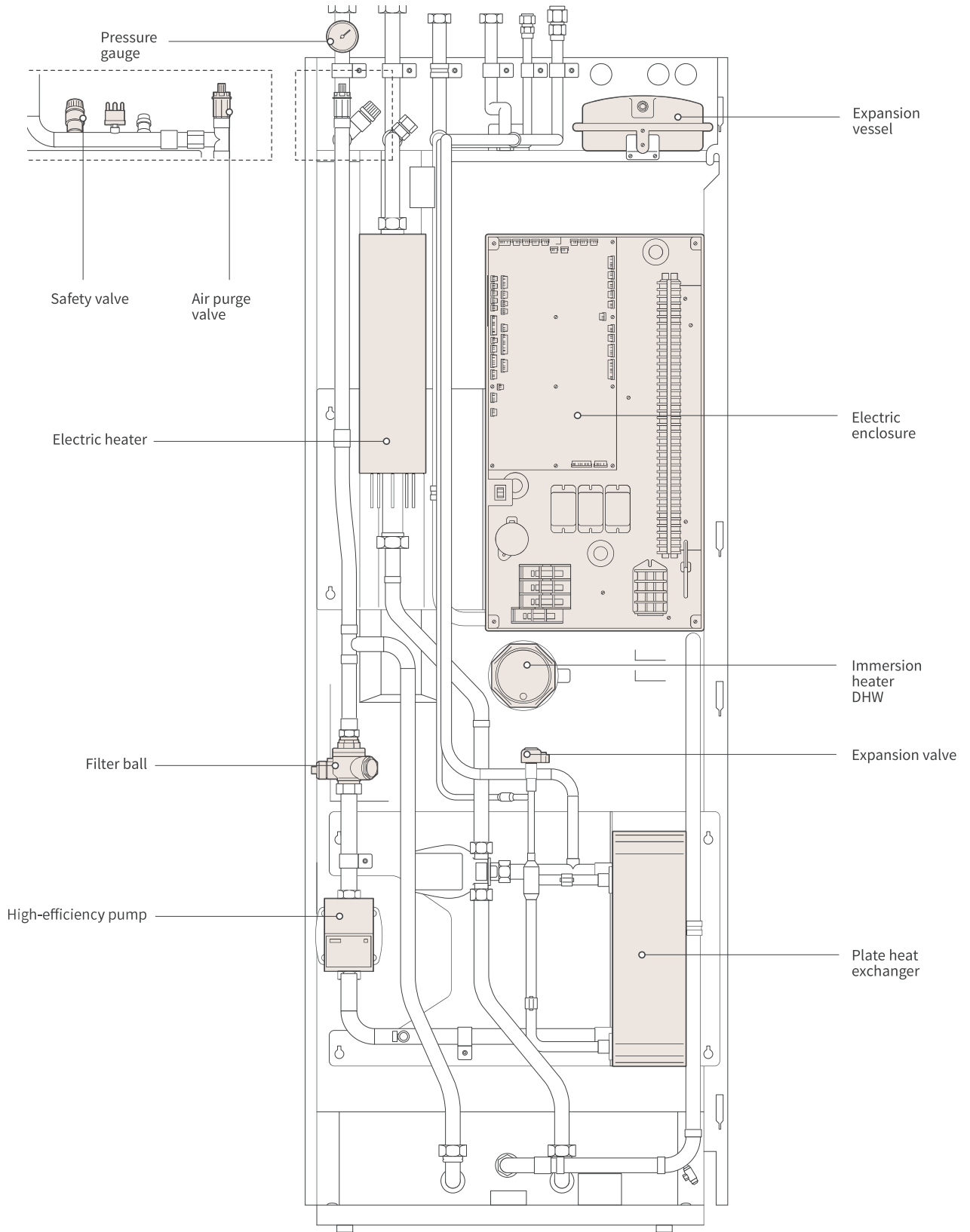
RAS-4WH(V)NPE
RAS-5WH(V)NPE
RAS-6WH(V)NPE

* with connections.

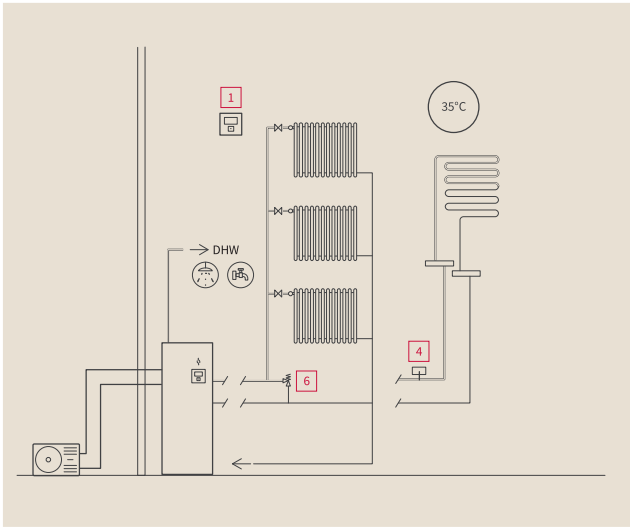
| Model | R32 REFRIGERANT | | | R410A REFRIGERANT | | | |
|---|---|-------------------------------|-----------------------|--|--|------------------------|------------------|
| | YUTAKI S COMBI 4.3kW | YUTAKI S COMBI 6kW | YUTAKI S COMBI 8kW | YUTAKI S COMBI 11kW | YUTAKI S COMBI 14kW | YUTAKI S COMBI 16kW | |
| Performance, heating | | | | | | | |
| Min./rated/max. heating capacity (7°C outside. / 35°C water) | kW | 1.85 / 4.3 / 6.5 | 1.85 / 6 / 8.6 | 2.1 / 8 / 11 | 4.3 / 11 / 15.2 | 4.8 / 14 / 16.7 | 5.5 / 16 / 17.8 |
| Rated/max. power heating (-7°C outside / 35°C water) | kW | 4.5 / 5.3 | 5.3 / 6.2 | 5.8 / 7.5 | 9.7 / 10.6 | 11.5 / 12 | 12 / 13 |
| Rated/max. power heating (-7°C outside / 45°C water) | kW | - / 5 | - / 5.8 | - / 6.67 | 10 / 10 | 11 / 11.6 | 11.5 / 12.5 |
| Rated/max. power heating (-7°C outside / 55°C water) | kW | 4 / 4.2 | 4.7 / 5 | 5 / 5.5 | 8.7 / 9.7 | 9.7 / 11.2 | 10.5 / 12 |
| Rated power input for heating (7°C outside / 35°C water) | kW | 0.77 | 1.21 | 1.6 | 2.2 | 2.97 | 3.5 |
| COP (7°C outside / 35°C water) in accordance with EN14511 | - | 5.25 | 4.8 | 4.6 | 5 | 4.71 | 4.57 |
| SCOP average climate 35°C / 55°C in accordance with EN14825 | - | 4.6 / 3.4 | 4.5 / 3.25 | 4.5 / 3.2 | 4.8 / 3.5 | 4.48 / 3.43 | 3.9 / 3.23 |
| Seasonal heating energy efficiency η _s (35°C) Single/Three ⁽¹⁾ | % | 181 | 177 | 177 | 187 / 186 | 175 / 174 | 153 / 152 |
| Seasonal heating energy efficiency η _s (55°C) Single/Three ⁽¹⁾ | % | 130 | 127 | 125 | 136 / 135 | 133 / 132 | 125 / 125 |
| Energy rating 35°C / 55°C | - | A+++ / A++ | | | A+++ / A++ | | A++ / A++ |
| Temperature range of water outlet (heating mode) | °C | 20 / 60°C | | | 20 / 60°C | | |
| Max. temperature at the water outlet in thermodynamic-only mode | °C | 60°C up to -5 °C outside | | | 60°C up to -10 °C outside | | |
| DHW performance | | | | | | | |
| DHW COP in accordance with EN16147 | - | 3.20 | | | 3.10 | | |
| Seasonal energy efficiency n _{wh} | % | 130 | | | 127 | | |
| DHW energy rating | - | A+ | | | A+ | | |
| Temperature range of water outlet (DHW mode) | °C | 30 / 75°C | | | 30 / 75°C | | |
| Performance of Cooling model (optional) | | | | | | | |
| Backup electrical heater as standard / 3-level | kW | 4 / 5 | 5.3 / 6 | 6.5 / 7 | 7.2 / 11.8 | 9.5 / 12.6 | 10.5 / 13.7 |
| Immersion DHW element as standard | kW | 1.17 | 1.54 | 2.14 | 2.18 | 2.95 | 3.72 |
| Net weight (220L) | - | 4 | 3.6 | 3.35 | 3.54 | 3.54 | 3.31 |
| Seasonal reversible energy efficiency η _s (35°C) Single/Three ⁽¹⁾ | % | 186 | 180 | 179 | 189 / 189 | 176 / 176 | 153 / 153 |
| Seasonal reversible energy efficiency η _s (55°C) Single/Three ⁽¹⁾ | % | 132 | 128 | 126 | 137 / 136 | 133 / 133 | 126 / 126 |
| Indoor units | | | | | | | |
| Backup electrical heater as standard / 3-level | kW | 3 (1+1+1) | 3 (1+1+1) | 3 (1+1+1) | 6 (2+2+2) | 6 (2+2+2) | 6 (2+2+2) |
| Immersion DHW element as standard | kW | 3 | 3 | 3 | 3 | 3 | 3 |
| Net weight (220L) | kg | 120 | 120 | 121 | 124 | 126 | 126 |
| Dimensions (H x L x D) | mm | 1788 x 595 x 598 | | | 1788 x 595 x 598 | | |
| Sound power | dB(A) | 37 | | | 39 | | |
| Volume of DHW tank / Material of DHW tank | L | 220 L / stainless steel | | | 220 L / stainless steel | | |
| Remote control | - | Included | | | Included | | |
| Hydraulic features | | | | | | | |
| Expansion vessel | L | 6 | | | 6 | | |
| Water flow (min / rated / max) | m ³ /h | 0.5 / 0.77 / 1.8 | 0.6 / 1.03 / 1.9 | 0.6 / 1.29 / 1.9 | 1 / 1.89 / 2.7 | 1.1 / 2.41 / 2.8 | 1.2 / 2.75 / 2.8 |
| Hydraulic connections for heating (male/male valves supplied) | inches | 1" | | | 1" | | |
| Hydraulic connections for DHW | inches | 3/4" | | | 3/4" | | |
| Min. system water capacity | L | 28 | | | 38 | 46 | 55 |
| Electrical features | | | | | | | |
| Power supply | - | 230V / 1Ph / 50Hz | | | 230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz | | |
| SINGLE PHASE 230V | Fuse size with backup heater + immersion | A | | | 50 | | |
| | Cable width (mm ²) / max. length (m) ⁽²⁾ | - | | | 3 x 10 / 30 | | |
| THREE PHASE 400V | Fuse size with backup heater + immersion | - | | | 25 | | |
| | Cable width (mm ²) / max. length (m) ⁽²⁾ | - | | | 5 x 6 / 20 | | |
| Premium outdoor units | | | | | | | |
| Sound pressure level at 1m / Sound power | dB(A) | 46 / 61 | 47 / 63 | 54 / 69 | 49 / 64 | 50 / 65 | 50 / 67 |
| Air flow rate | m ³ /h | 2526 | | 2982 | 4800 | 5400 | 6000 |
| Dimensions (H x L x D) | mm | 629 x 799 x 300 | | | 1380 x 950 x 370 | | |
| Net weight | kg | 45 | | 44 | 103 | | |
| Operating ranges in Cooling / Heating / DHW mode | °C | +10~+46 // -20~+25 // -20~+35 | | | +10~+46 // -25~+25 // -25~+35 | | |
| Refrigeration characteristics | | | | | | | |
| Diameter of refrigerant pipes (Liq - Gas) | inches | 1/4" - 1/2"* | | 1/4" - 5/8" 3 to 27m*, 3/8" 5/8" 27 to 50m* | 3/8" 5/8" | | |
| Min./max. length / max. level difference | m | 3 - 50 / 20 | | | 5 - 75 / 20 | | |
| Initial pre-charged refrigerant / Additional load | kg/g / m | 1.2 for 10m / 15 | 1.3 for 10m / 15 | 1.3 for 10m / 32 | 3.3 for 15m / 60 | 3.4 for 15m / 60 | |
| Refrigerant | - | R32 | | | R410A | | |
| Compressor | - | SCROLL | | ROTARY | SCROLL | | |
| Electrical features | | | | | | | |
| Power supply | - | 230V / 1Ph / 50Hz | | | 230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz | | |
| SINGLE PHASE 230V | Fuse size | A | | | 32 | | |
| | Cable width (mm ²) / max. length (m) ⁽²⁾ | - | 3 x 2.5 / 28 | 3 x 2.5 / 24 | 3 x 4 / 21 | 3 x 6 / 30 | |
| THREE PHASE 400V | Fuse size | - | | | 16 | | |
| | Cable width (mm ²) / max. length (m) ⁽²⁾ | - | - | - | - | 5 x 4 / 16 | |
| Int./Ext. connection (shielded) | mm ² | 2 x 0.75 | | | 2 x 0.75 | | |

⁽¹⁾ Non-regulated seasonal energy efficiency. Keymark-certified. ⁽²⁾ Data given for reference purposes only. Compliant with the applicable electrical standards. (V) = single.
* 2/2.5/3-HP R32 models have different diameters for the cooling gas pipes, cooler connection groups, and indoor units. For that reason, use the adapters provided with the outdoor unit. Refer to the table on page 33.

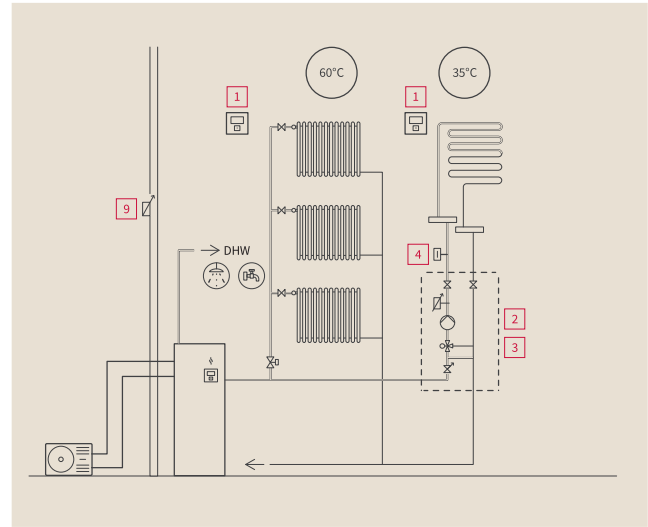
Internal design



Yutaki S Combi hydraulic setups



1-circuit heating with radiators or underfloor heating + DHW



2-circuit heating with radiator circuits and underfloor heating + DHW

Yutaki S Combi hydraulic controls and accessories



Wired remote control
PC-ARFH2E
Included.



Front panel
Use if moving the remote control in the environment.
ATW-FCP-01



Indoor Wired temperature sensor
ATW-ITS-01



On / Off wireless thermostat
ATW-RTU-04



Wireless intelligent thermostat
Circuit 1.
ATW-RTU-07



Wireless intelligent thermostat for 2nd circuit
Circuit 2.
ATW-RTU-06



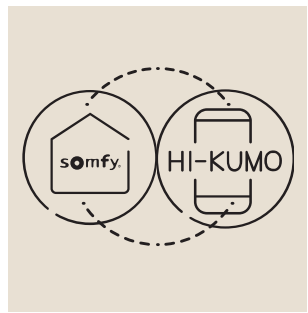
Auxiliary output box
4 ports available: operation, alarm, cooling, heat-OFF.
ATW-AOS-02



Hi-Box: Hi Kumo and Hi Kumo PRO home automation boxes
AHP-SMB-01
(for more, see p.42-43)



Somfy® home-automation box
1811527



Somfy® / Hi Kumo interface
Communication interface. Integrates into Somfy® or Hi Kumo environment.
ATW-TAG-02



KNX® communication interface
Communication interface.KNX® environment integration.
ATW-KNX-02

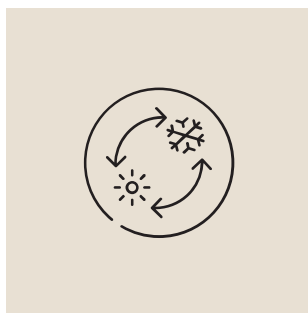


Modbus communication interface
Communication interface.Modbus® environment integration.
ATW-MBS-02



Usage meter (RT2012)

Schneider® brand.
Not sold by Hitachi.



Reversible kit

Equipment required to run in cooling mode.

ATW-CKSC-02



Cascade controller

Manage a cascade up to 8 Yutaki models from the same range and with the same power output (single/three-phase).

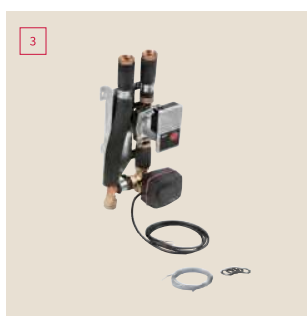
ATW-YCC-03



2-zone integrated mixing kit

(220L tank only).

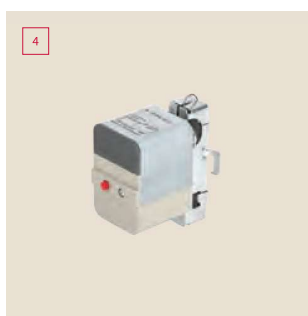
ATW-2TK-08



2-zone mixing kit - wall mounted

This accessory is essential if you want to maintain 2 distinct temperature settings.

ATW-2TK-07



Aquastat, floor-mounted

This accessory is essential for floor-mounted heaters (DTU 65-14).

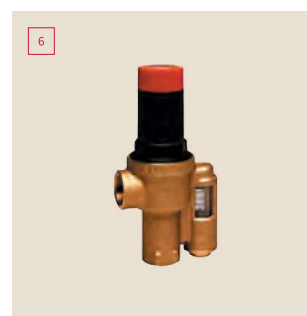
ATW-AQT-01



3-way directional inversion valve

DHW and swimming pool applications.

ATW-3WW-01



Differential pressure valve

This accessory ensures a constant flow through the heat pump condenser.

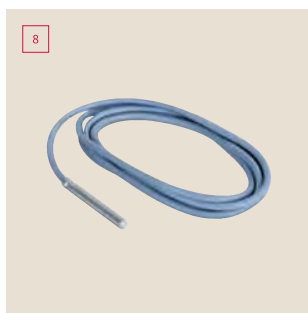
ATW-DPOV-01



Hydraulic separator for heat pump

This accessory hydraulically separates the transmitter and boiler network from that of the heat pump.

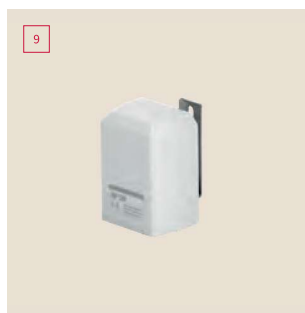
ATW-HSK-01



Universal water temperature sensor

DHW, hydraulic decoupling, Circuit 2, swimming pool, solar (required if the tank is not a Hitachi DHWT).

ATW-WTS-02Y



Outdoor temperature sensor

ATW-2OS-02