Heat Pumps

HITACHI

Cooling & Heating

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HEAT PUMPS

OVERVIEW

HEATING, AIR CONDITIONING
AND DOMESTIC HOT WATER SUPPLY
RENEWABLE ENERGY SYSTEM

COMPRESSOR
OWN
HITACHI

YUTAKI S COMBI

YUTAMPO II

+60

Years of experience in **air conditioning and heating**

+4.5

Millions of **heating** systems produced

+400 000

Customers in Europe

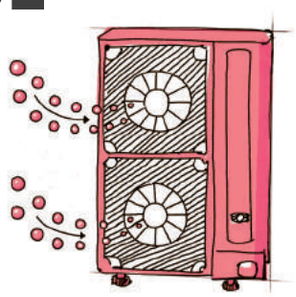
AIR TO WATER HEAT PUMP

A sustainable heating method

The Yutaki model series is a unit called air-water heat pumps. This system uses heat from the air to generate energy and serves for heating, cooling and domestic hot water.

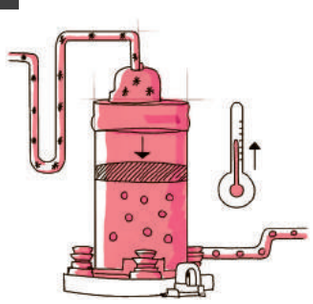
HOW DOES IT WORK?

01



Heat obtained from the air
The fans provide airflow through the evaporator in which the air transmits its heat to the refrigerant. The boiling temperature of this liquid is very low (-53 °C), which means it evaporates.

02



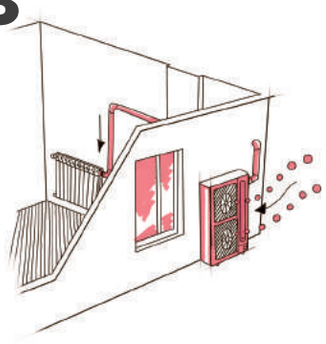
Compressor's role
The gaseous refrigerant flows into the compressor where it is compressed and its temperature is further increased.

AIR TO WATER SYSTEMS CAPTURES AND ENERGY FROM THE OUTSIDE AIR AND TRANSFERS IT IN THE INTERNAL HOME AREA DURING THE HEATING PHASE, VICEVERSA DURING THE COOLING ONE.

CAN REDUCE THE COST OF ENERGY UP TO

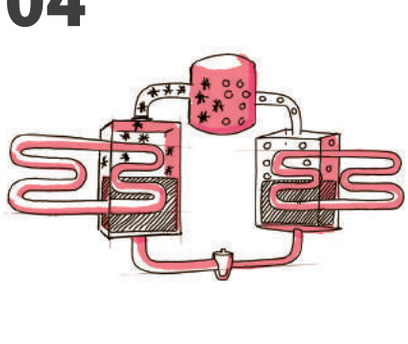
75 %

03



Heat transfer to the interior of the house
In the heat exchanger, the refrigerant transfers its heat to the hydraulic circuit, thereby supplying it the necessary energy for heating and domestic hot water.

04



The process starts again
The refrigerant enters in the expansion valve, where it loses temperature and pressure, and then returns to the evaporator, for a continuous system.

AIR TO WATER HEAT PUMP

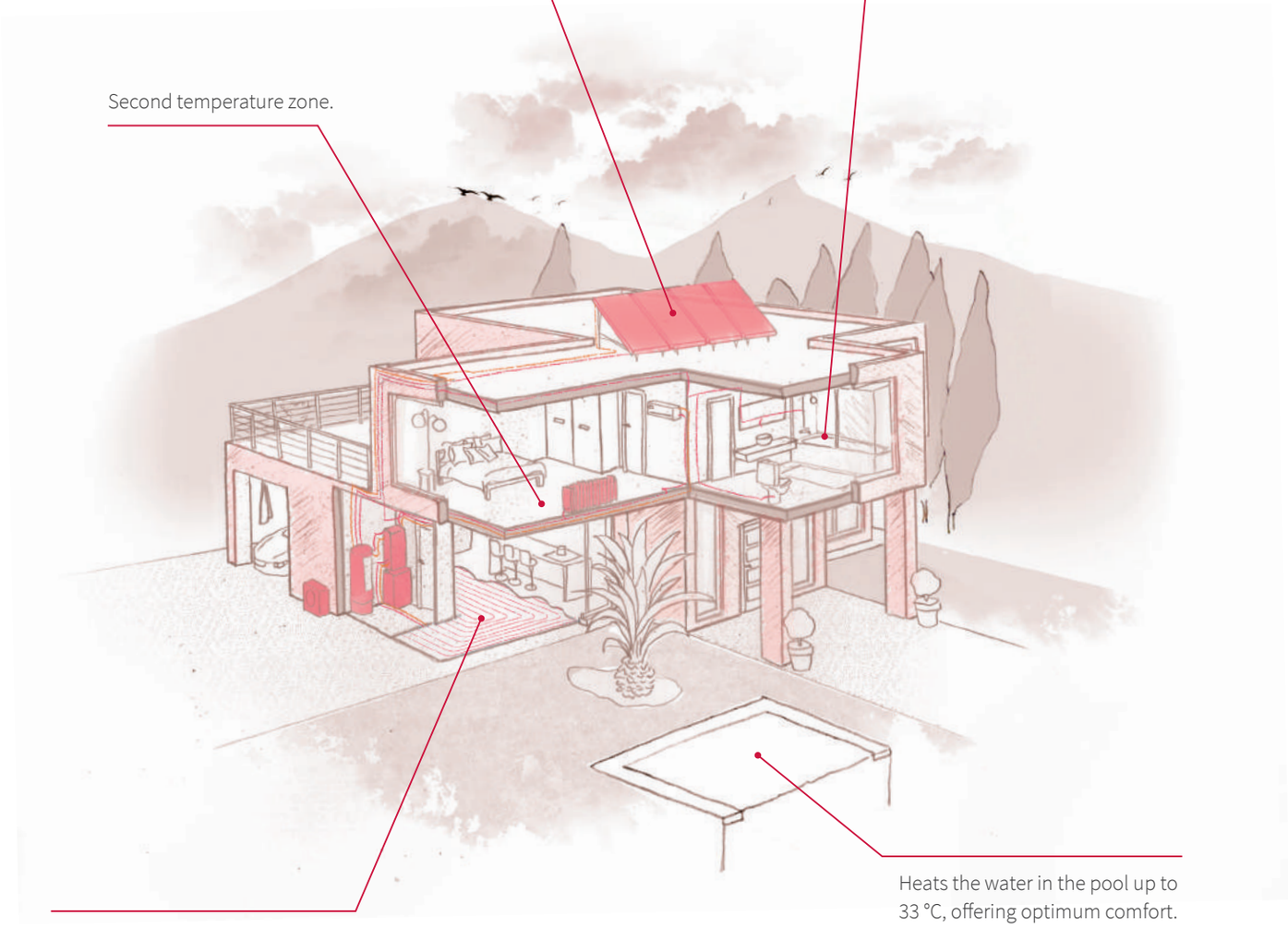
ALL APPLICATIONS IN ONE SYSTEM

HEATING + COOLING + DOMESTIC HOT WATER PRODUCTION + SOLAR PANEL COMBINATION + SWIMMING POOL

The unit produces hot service water through an integrated tank or stand-alone storage tank.

Compatibility with solar panels for domestic hot water production. Solar energy is transferred to a DHW heat exchanger.

Second temperature zone.



Heats the water in the pool up to 33 °C, offering optimum comfort.

Underfloor heating, radiators, fancoils ... the Yutaki series adapts heating to household needs by producing heat in winter and cold in summer. For cooling function it is necessary to retrofit the unit with a cooling set*.

*Other accessoriesí.

COMFORT THROUGHOUT THE YEAR

On cold days there is nothing like the feeling of getting home, feeling that you are in a warm and welcoming space.
Discover the heat pump system, renewable energy with low consumption.

ADVANTAGES OF THE YUTAKI SERIES

ENERGY CLASS **A+++**

1 KW ELECTRIC ENERGY IS CONVERTED
IN MORE THAN 5 KW OF THERMAL ENERGY

01

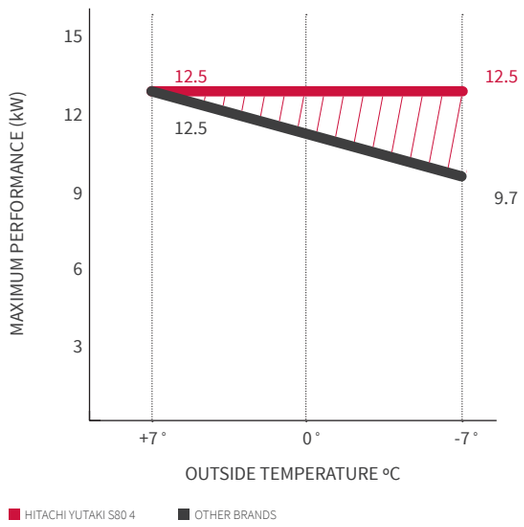
RENEWABLE ENERGY, GUARANTEED SAVINGS

Heat pump system has greater energy efficiency because it produces more energy than it consumes. COP = 5.25 means that the Yutaki heat pump consumes only 20% of the electricity. The remaining 80% of energy comes from the outside air and is therefore completely free.

02

OPTIMIZED PERFORMANCES

Under extreme conditions, when temperatures are very low, the energy provided by the Yutaki units remains stable. Under the same conditions, the efficiency of competitor units' declines considerably, in addition, they require the use of a back-up electric heater, which leads to increased costs.



03

NEW COMPACT AND LIGHT MODELS

Reducing weight and reducing unit sizes makes it easy to handle and install. They can now be installed, for example, inside the kitchen unit. The whole range also uses shared accessories to facilitate installation and subsequent maintenance.

04

IMPROVED OPERATION OF THE DC-INVERTER TECHNOLOGY

HITACHI scroll compressors with DC inverter increase the operational efficiency of the installation up to 30% compared with traditional compressors. This further reduces energy consumption and increases system life.

HITACHI WARRANTES THE OPERATION OF THESE UNITS, EVEN WHEN THE OUTDOOR TEMPERATURE DROPS TO -25 °C*.

*By model.

INCREASING EFFICIENCY AND REDUCING CONSUMPTION

05

If you compare the Yutaki unit with a competitor unit of the same power, the **HITACHI** air-water heat pump consumption is significantly lower. Why is that so? Because besides in exceptional situations where outdoor temperatures are extremely low, it is not necessary to interfere with a backup electric heater.

QUICK AND EASY SET UP WITH THE WIZARD GUIDE

*See terms.

REVERSE RUN: HEAT IN WINTER AND CHILL IN SUMMER

06

With an optional cooling set, the unit can reverse its operation. Floor heating, which provides warmth in winter, is transformed into a cooling floor during the summer, making your home even more comfortable. The system can also be used with fan coils instead of underfloor heating.

ONE REMOTE CONTROL FOR ALL FUNCTIONS

07

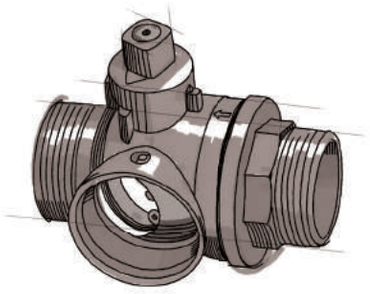
The LCD remote control allows controlling all system functions: heating, air conditioning, hot water, solar panels and swimming pool. It can also be used as a room thermostat because it can be removed from the front panel and placed anywhere. This means that it is possible to control the temperature in two rooms or even three if you use the second temperature control set. *

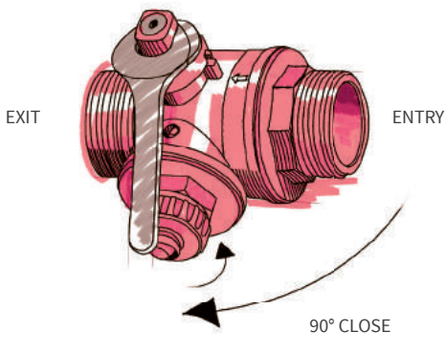
*Other accessories.

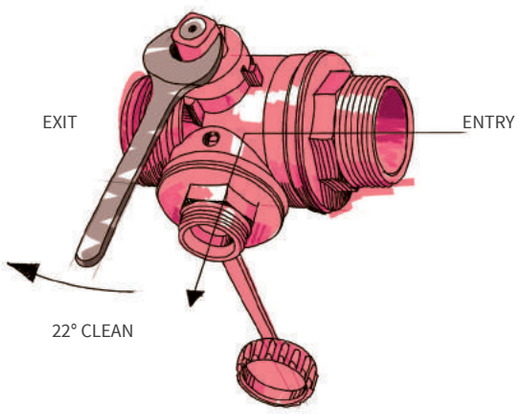
EASY MAINTENANCE

08

The units contain a ball valve with a replaceable cylindrical filter that is easy to control and remove. It also allows cleaning without disturbing the hydraulic circuit. The ball valve reduces costs, simplifies installation and reduces space requirements.
Pressure losses are also lower.







YUTAKI RANGE

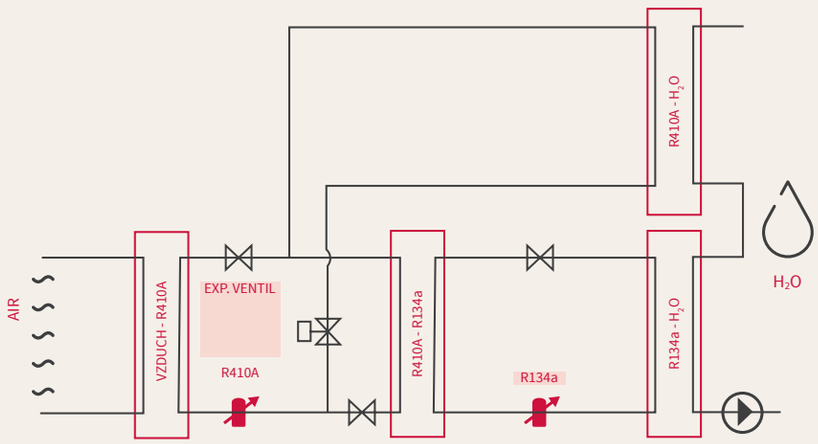
YUTAKI M **YUTAKI S** **YUTAKI S80** **YUTAKI S COMBI**

YUTAKI S80

Intelligent cascade circuit: The best efficiency of the market

The Yutaki S80 uses two refrigerants: R410A and R134A. The **smart cascade circuit** allows the unit to automatically set its operating parameters as required by heating. If the heating demand is lower, the unit only uses **R410A** refrigerant, while when the demand is increased, the second refrigerant circuit **R134a** is activated. Consumption is therefore constantly under surveillance and comfort is guaranteed.

Schema of smart cascade circle



PERFECT SOLUTION
FOR BOILER CHANGE

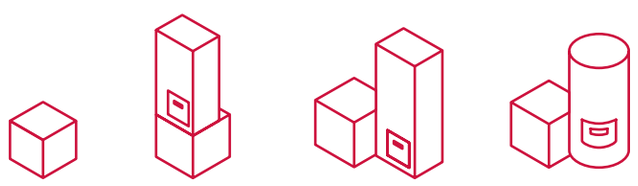
The Yutaki S80 unit produces hot water up to a temperature of

80 °C

Different configurations for every installation

The Yutaki S80 is available in two versions to accommodate different requirements: one for **heating** and the other for **heating and hot water production.**

Two tanks are available for the production of hot service water with a capacity of 200 and 260 liters that can be installed above or next to the indoor unit.



Hydraulic module | Hydraulic module + integrated HITACHI DHW tank | Hydraulic module + HITACHI DHW tank | Hydraulic module + DHW cylinder (Accessories)

The side-mounted side-mounted unit has all the connections on the top to make installation as easy as possible. In the case of a unit having a tray at the top, there are connections on the back.

Always pure water

The stainless steel filter, mounted in the DHW cylinde, **limits the formation of bacteria** even when the water stays longer in the tank (when you are on vacation).

Intelligent management

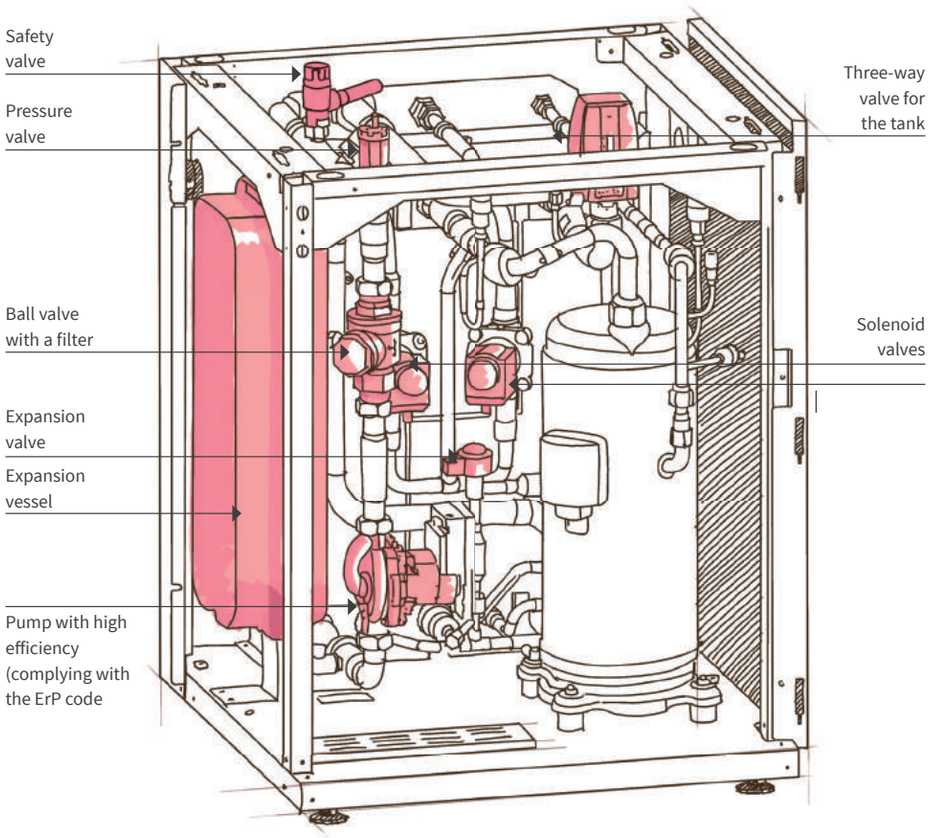
With an LCD remote control and a thermostat that centralizes all applications without the need for external components, you can program a weekly schedule for heating and domestic hot water, turn on the power saving mode for a water pump, etc. The controller is also **compatible with a wireless thermostat.**

YUTAKI S80

YUTAKI S80

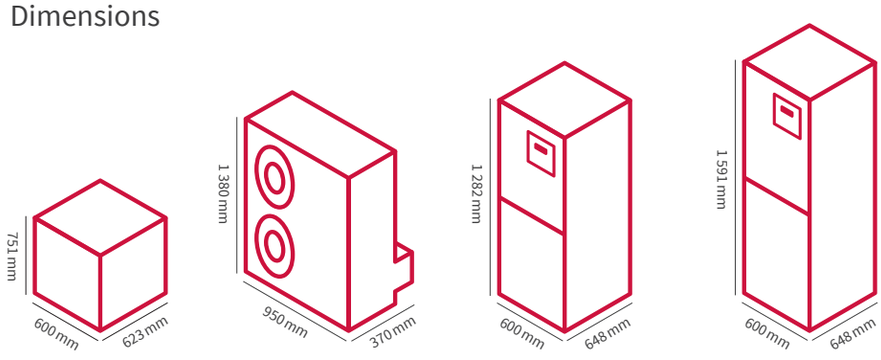
Yutaki S80 can work through floor heating or radiator without auxiliary water heater reaching 80°C even when outside the temperature drops down to -25°C. That‘s why it is extremely recommended for refurbishments and special requirements. It also allows the production of domestic hot water as it is compatible with all tanks’ models.

YUTAKI S80



YUTAKI S80

Dimensions



RWH-4VNFE **126 kg**
RWH-4NFE **127 kg**
RWH-5-6VNFE **129 kg**
RWH-5-6NFE **130 kg**

RAS-4-6WH(V)NPE **103 kg**

DHWS-200S-2.7H2E* **62 kg**

DHWS-260S-2.7H2E* **77 kg**

* In the domestic hot water tank: The height of the unit includes a minimum mounting height.

TECHNICAL DATA
YUTAKI S80

			YUTAKI S80 4V	YUTAKI S80 5V	YUTAKI S80 6V	YUTAKI S80 4	YUTAKI S80 5	YUTAKI S80 6
			Single Phase	Single Phase	Single Phase	Three-phase	Three-phase	Three-phase
Indoor unit			**RWH-4.0VNF(W)E**	**RWH-5.0VNF(W)E**	**RWH-6.0VNF(W)E**	**RWH-4.0NF(W)E**	**RWH-5.0NF(W)E**	**RWH-6.0NF(W)E**
Version with DHW tank beside the indoor unit			RWH-4.0VNFE	RWH-5.0VNFE	RWH-6.0VNFE	RWH-4.0NFE	RWH-5.0NFE	RWH-6.0NFE
Version with the DHW tank above the indoor unit			RWH-4.0VNFWE	RWH-5.0VNFWE	RWH-6.0VNFWE	RWH-4.0NFWE	RWH-5.0NFWE	RWH-6.0NFWE
Power supply			1 ~230 V 50 Hz	1 ~230 V 50 Hz	1 ~230 V 50 Hz	3 ~400 V 50 Hz	3 ~400 V 50 Hz	3 ~400 V 50 Hz
Sound power (2)		dB(A)	57	57	58	57	57	58
Pipe diameter (liquid-gas)		mm	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88
Heating working range	Outdoor air temp.	°C (DB)	-25 – +25	-25 – +25	-25 – +25	-25 – +25	-25 – +25	-25 – +25
	Water outlet temp.	°C	+20 – +80	+20 – +80	+20 – +80	+20 – +80	+20 – +80	+20 – +80
DHW tank working range	Outdoor air temp.	°C (DB)	-25 – +35	-25 – +35	-25 – +35	-25 – +35	-25 – +35	-25 – +35
	Water outlet temp.	°C	+30 – +75	+30 – +75	+30 – +75	+30 – +75	+30 – +75	+30 – +75
Refrigerant			R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge / GWP		kg / CO_2 ton	1.90 / 2.717	1.90 / 2.717	1.90 / 2.717	1.90 / 2.717	1.90 / 2.717	1.90 / 2.717
Compressor			Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
Dimensions	Height (incl. connection)	mm	751 (802)*	751 (802)*	751 (802)*	751	751	751
	Width	mm	600	600	600	600	600	600
	Depth (incl. connection)	mm	623	623	623	623 (680)*	623 (680)*	623 (680)*
Weight		kg	126	129	129	127	130	130
Weight with DHW tank		kg	136	139	139	137	140	140

Outdoor unit			**RAS-4WHVNPE**	**RAS-5WHVNPE**	**RAS-6WHVNPE**	**RAS-4WHNPE**	**RAS-5WHNPE**	**RAS-6WHNPE**
Rated power (1)	Heating	kW	2.12	2.90	3.43	2.12	2.90	3.43
Max capacity (1)	Heating	kW	11.00 (15.20)	14.00 (16.70)	16.00 (17.80)	11.00 (15.20)	14.00 (16.70)	16.00 (17.80)
COP 7 °C outdoor / 30–35 °C water			5.00	4.71	4.57	5.00	4.71	4.57
Energy Class at 35 °C			**A+++**	**A+++**	**A++**	**A+++**	**A+++**	**A++**
Power supply			1 ~230 V 50 Hz	1 ~230 V 50 Hz	1 ~230 V 50 Hz	3 ~400 V 50 Hz	3 ~400 V 50 Hz	3 ~400 V 50 Hz
Sound pressure (2)		dB(A)	49	50	50	49	50	50
Sound performance (2)		dB(A)	63	64	65	63	64	65
Air flow		m3/h	4 800	5 400	6 000	4 800	5 400	6 000
Pipe diameter (liquid-gas)		mm	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88
Maximum length		m	75	75	75	75	75	75
Maximum height difference		m	30/20	30/20	30/20	30/20	30/20	30/20
Operating ranges (cooling/heating/DHW)		°C (DB)	+10 – +46 / -25 – +25 / -25 – +35	+10 – +46 / -25 – +25 / -25 – +35	+10 – +46 / -25 – +25 / -25 – +35	+10 – +46 / -25 – +25 / -25 – +35	+10 – +46 / -25 – +25 / -25 – +35	+10 – +46 / -25 – +25 / -25 – +35
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge (maximum pipe length without additional charge) / GWP		kg / CO_2 ton	3.30 (60) / 6.890	3.40 (60) / 7.099	3.40 (60) / 7.099	3.30 (60) / 6.890	3.40 (60) / 7.099	3.40 (60) / 7.099
Compressor			Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
Dimensions (Height × Width × Depth)		mm	1 380 × 950 × 370	1 380 × 950 × 370	1 380 × 950 × 370	1 380 × 950 × 370	1 380 × 950 × 370	1 380 × 950 × 370
Weight		kg	103	103	103	103	103	103

DHW tank			**DHWS200S-2.7H2E**	**DHWS260S-2.7H2E**
Power supply			1 ~230 V 50 Hz	1 ~230 V 50 Hz
Dimensions	Separate tray height (Integrated tray height)	mm	1 282 (1 980)*	1 591 (2 289)*
	Width	mm	600	600
	Depth (including connection)	mm	648 (675)	648 (675)
Weight		kg	62	77
Net volume			190	250
Maximum operating temperature		°C	75	75
Piping diameter	Water inlet	mm	G 19.1 ext.	G 19.1 ext.
	Water outlet	mm	G 19.1 ext.	
Wired control			PC-ARFHE	PC-ARFHE

* Corresponds to the height of the unit with a minimum mounting height. This value can be adjusted up to +30 mm

(1) Rated cooling and heating capacity is based on EN14511 and the following conditions:
– Cooling: Inlet water temperature 12°C and outlet water temperature 7°C; outdoor temperature 35°C (DB).
– Heating: Inlet water temperature 30°C and outlet water temperature 35°C; outdoor temperature 7°C (DB), 6°C (WB).
Pipe length 7.5 m; height difference of the pipe 0 m.

(2) Acoustic level measurement is performed under the following conditions:
Outdoor temperature: 7°C (DB) / 6°C (WB) Inlet and outlet water temperature: 30/35°C. Measurement of the acoustic level is done in an acoustic chamber 1 meter from the front surface and 1.5 meters above the ground. The sound pressure level is measured in a reflecting chamber in accordance with standard EN12102. Ambient conditions are defined in EN 14511.

Note: The RWH-4X.XVNFE (without integrated DHW cylinder) is compatible with third-party storage.

YUTAKI S

ALL IN ONE: HEATING, COOLING AND DOMESTIC HOT WATER

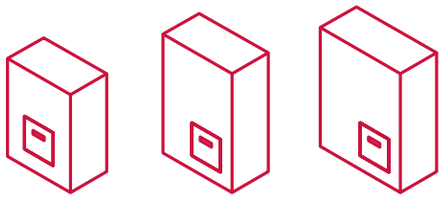
SMALL SIZE: MODELS WITH PERFORMANCE OF 4.30-7.50 KW CAN BE INSTALLED DIRECTLY IN KITCHENS

The best cop of the market

The new Yutaki S series has a **15 % improved thermal efficiency compared to previous models.** This means that it has the highest COP value compared to other brand models.

Compliance with all requirements

In addition to the wide power range offered by Yutaki S from 4.30 kW to 24 kW, a new 6.00 kW unit is available, **which is unique on the market.**



YUTAKI S MINI
4.30–7.50 KW

YUTAKI S MEDIUM
11.00–16.00 KW

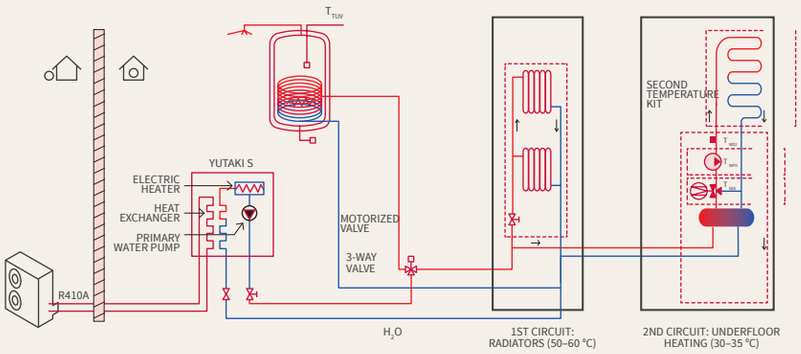
YUTAKI S BIG
20.00–24.00 KW

Four operating modes available

The Yutaki S can be set to comfort, energy saving, water boost or holiday mode. This makes possible to customize to each owner's most appropriate lifestyle.

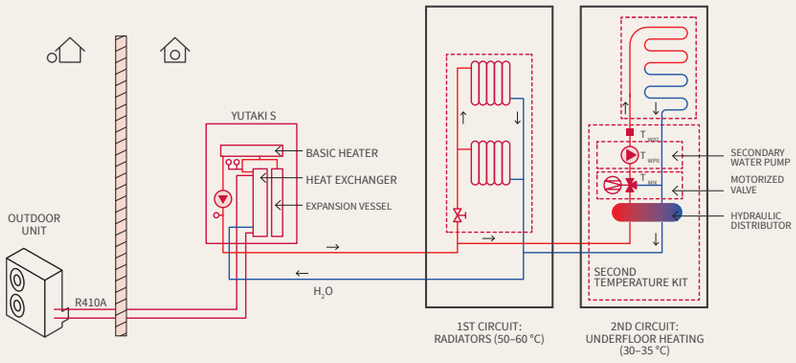
Installation: water tank + 2 different heating circuits, high and low temperature

The scheme shows the installation of a Yutaki S + DHWT (with or without backup electrical heater) using two different systems at the same time: high temperature with radiators up to 60°C and low temperature system operating at 35°C with underfloor heating circuit. A second temperature control set is needed.



Installation scheme without the domestic hot water tank

The installation scheme is simpler as there is not the priority need of domestic hot water production, the heated water flows directly in the first circuit (high temperature) and then to the second one (low temperature) for the underfloor heating



YUTAKI S

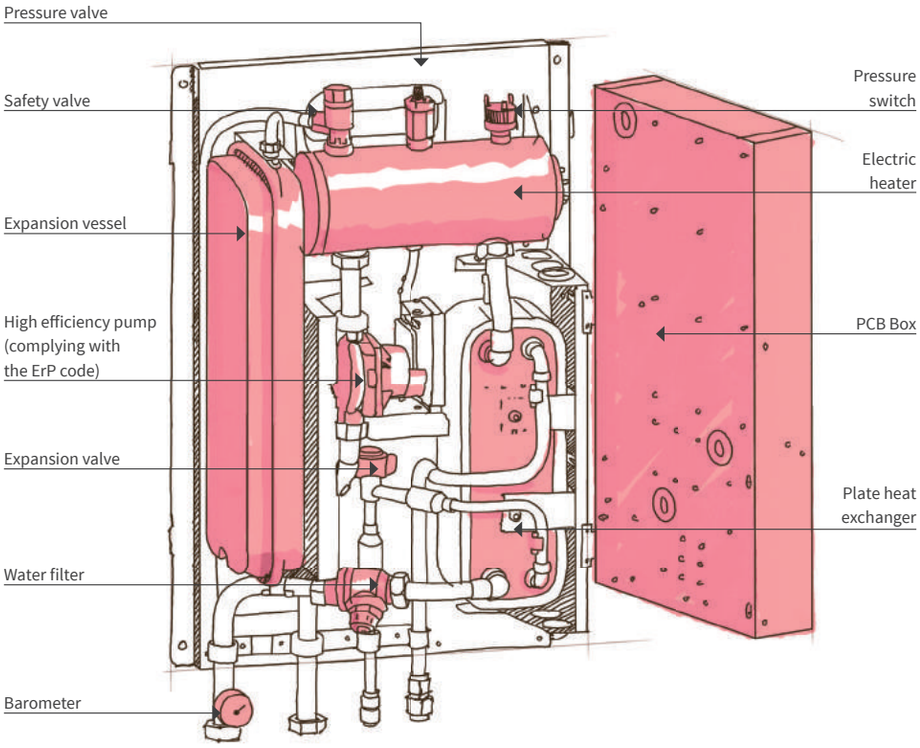
YUTAKI S

THE **Yutaki S** can cover every household need in terms of climatization: heating, cooling and domestic hot water production.

Its compact size and easy installation make it a unit suitable for new construction. It is compatible with floor heating, radiators and fan coils.

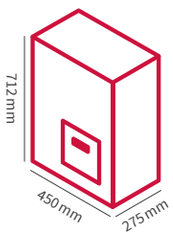
When combined with a suitable DHW tank, any model can also produce hot water. Its wide working range allows the unit to operate under extreme outdoor conditions: from -25 °C to + 46 °C*.

YUTAKI S

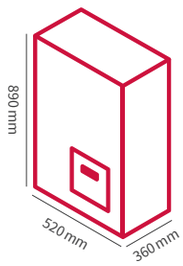


YUTAKI S MINI 2-3 CV

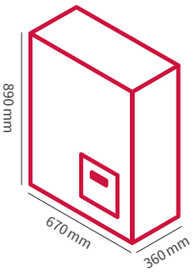
Dimensions



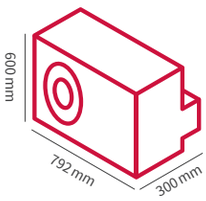
RWM-2NE **37 kg**
RWM-2.5NE **38 kg**
RWM-3NE **39 kg**



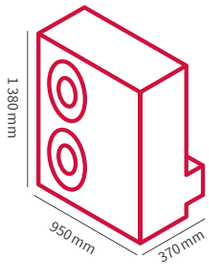
RWM-4NE **46 kg**
RWM-5-6NE **48 kg**



RWM-8NE **60 kg**
RWM-10NE **62 kg**



RAS-2-2,5WHVNP **43 kg**
RAS-3WHVNP **44 kg**



RAS-4-WHNPE **103 kg**
RAS-8WHNPE **137 kg**
RAS-10WHNPE **139 kg**

TECHNICAL DATA
YUTAKI S

			Yutaki S 2HP	Yutaki S 2.5HP	Yutaki S 3HP	Yutaki S 4HP	Yutaki S 5HP	Yutaki S 6HP	Yutaki S 4HP	Yutaki S 5HP	Yutaki S 6HP	Yutaki S 8HP	Yutaki S 10HP
			Single Phase	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase	Three-phase	Three-phase	Three-phase	Three-phase	Three-phase
Indoor unit			**RWM-2.0NE**	**RWM-2.5NE**	**RWM-3.0NE**	**RWM-4.0NE**	**RWM-5.0NE**	**RWM-6.0NE**	**RWM-4.0NE**	**RWM-5.0NE**	**RWM-6.0NE**	**RWM-8.0NE**	**RWM-10.0NE**
Power supply			1 ~230 V 50 Hz	1 ~230 V 50 Hz	1 ~230 V 50 Hz	1 ~230 V 50 Hz	1 ~230 V 50 Hz	1 ~230 V 50 Hz	3 ~400 V 50 Hz	3 ~400 V 50 Hz	3 ~400 V 50 Hz	3 ~400 V 50 Hz	3 ~400 V 50 Hz
Sound power (2)		dB(A)	37	37	37	39	39	39	39	39	39	47	47
Pipe diameter (liquid-gas)		mm	6.35–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–25.4	9.52–25.4
Heating working range	Outdoor air temp.	°C (DB)	-15 – +25	-15 – +25	-15 – +25	-25 – +25	-25 – +25	-25 – +25	-25 – +25	-25 – +25	-25 – +25	-25 – +25	-25 – +25
	Water outlet temp.	°C	+20 – +55	+20 – +55	+20 – +55	+20 – +60	+20 – +60	+20 – +60	+20 – +60	+20 – +60	+20 – +60	+20 – +60	+20 – +60
Cooling working range	Outdoor air temp.	°C (DB)	+10 – +46	+10 – +46	+10 – +46	+10 – +46	+10 – +46	+10 – +46	+10 – +46	+10 – +46	+10 – +46	+10 – +46	+10 – +46
	Water outlet temp.	°C	+5 – +22	+5 – +22	+5 – +22	+5 – +22	+5 – +22	+5 – +22	+5 – +22	+5 – +22	+5 – +22	+5 – +22	+5 – +22
DHW tank working range	Outdoor air temp.	°C (DB)	-15 – +35	-15 – +35	-15 – +35	-25 – +35	-25 – +35	-25 – +35	-25 – +35	-25 – +35	-25 – +35	-25 – +35	-25 – +35
	Water outlet temp.	°C	+30 – +75	+30 – +75	+30 – +75	+30 – +75	+30 – +75	+30 – +75	+30 – +75	+30 – +75	+30 – +75	+30 – +75	+30 – +75
Dimensions	Height (incl. connection)	mm	712 (782)	712 (782)	712 (782)	890 (960)	890 (960)	890 (960)	890 (960)	890 (960)	890 (960)	890 (960)	890 (960)
	Width	mm	450	450	450	520	520	520	520	520	520	670	670
	Depth (incl. connection)	mm	275	275	275	360	360	360	360	360	360	360	360
Weight		kg	37	38	39	46	48	48	46	48	48	60	62

Outdoor unit			**RAS-2WHVNP**	**RAS-2.5WHVNP**	**RAS-3WHVNP**	**RAS-4WHVNPE**	**RAS-5WHVNPE**	**RAS-6WHVNPE**	**RAS-4WHNPE**	**RAS-5WHNPE**	**RAS-6WHNPE**	**RAS-8WHNPE**	**RAS-10WHNPE**
Rated power (1)	Heating	kW	0.77	1.21	1.60	2.12	2.90	3.43	2.12	2.90	3.43	4.58	5.51
	Cooling	kW	1.17	1.54	2.14	2.11	2.87	3.65	2.11	2.87	3.65	4.41	6.15
Max capacity (1)	Heating	kW	4.30 (7.00)	6.00 (9.00)	7.50 (11.00)	11.00 (15.20)	14.00 (16.70)	16.00 (17.80)	11.00 (15.20)	14.00 (16.70)	16.00 (17.80)	20.00 (25.50)	24.00 (32.00)
	Cooling	kW	3.80 (4.90)	5.00 (5.80)	6.00 (7.00)	7.20 (11.80)	9.50 (12.60)	10.50 (13.70)	7.20 (11.80)	9.50 (12.60)	10.50 (13.70)	14.00 (16.40)	17.50 (20.60)
COP 7 °C outdoor / 30–35 °C water			5.25	4.80	4.55	5.00	4.71	4.57	5.00	4.71	4.57	4.30	4.29
EER 35 °C outdoor / 7–12 °C water			3.12	3.15	2.75	3.30	3.54	3.31	3.30	3.54	3.31	3.12	2.81
Energy Class at 35 °C			**A+++**	**A+++**	**A++**	**A+++**	**A+++**	**A++**	**A+++**	**A+++**	**A++**	**A++**	**A+**
Power supply			1 ~230 V 50 Hz	1 ~230 V 50 Hz	1 ~230 V 50 Hz	1 ~230 V 50 Hz	1 ~230 V 50 Hz	1 ~230 V 50 Hz	3 ~400 V 50 Hz	3 ~400 V 50 Hz	3 ~400 V 50 Hz	3 ~400 V 50 Hz	3 ~400 V 50 Hz
Sound pressure (2)		dB(A)	46	47	50	49	50	50	49	50	50	59	60
Sound performance (2)		dB(A)	59	60	61	63	64	65	63	64	65	71	72
Air flow		m^3/h	2 436	2 436	2 682	4 800	5 400	6 000	4 800	5 400	6 000	7 620	8 040
Pipe diameter (liquid-gas)		mm	6.35–12.7	6.35–12.7	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–25.4	12.7–25.4
Maximum length		m	50	50	50	75	75	75	75	75	75	70	70
Maximum height difference			30/20	30/20	30/20	30/20	30/20	30/20	30/20	30/20	30/20	30/20	30/20
Operating ranges (cooling/heating/DHW)		°C (DB)	+10 – +46 / -15 – +25 / -15 – +35	+10 – +46 / -15 – +25 / -15 – +35	+10 – +46 / -15 – +25 / -15 – +35	+10 – +46 / -25 – +25 / -25 – +35	+10 – +46 / -25 – +25 / -25 – +35	+10 – +46 / -25 – +25 / -25 – +35	+10 – +46 / -25 – +25 / -25 – +35	+10 – +46 / -25 – +25 / -25 – +35	+10 – +46 / -25 – +25 / -25 – +35	+10 – +46 / -25 – +25 / -25 – +35	+10 – +46 / -25 – +25 / -25 – +35
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge (maximum pipe length without additional charge) / GWP		kg (m) / CO_2 ton	1.40 (30) / 2.923	1.50 (30) / 3.312	1.70 (40) / 3.550	3.30 (60) / 6.890	3.40 (60) / 7.099	3.40 (60) / 7.099	3.30 (60) / 6.890	3.40 (60) / 7.099	3.40 (60) / 7.099	5.00 / 10.440	5.30 / 11.066
Compressor			Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
Dimensions (Height × Width × Depth)		mm	600×792×300	600×792×300	600×792×300	1 380×950×370	1 380×950×370	1 380×950×370	1 380×950×370	1 380×950×370	1 380×950×370	1 380×950×370	1 380×950×370
Weight		kg	43	43	44	103	103	103	103	103	103	137	139

(1) Rated cooling and heating capacity is based on EN14511 and the following conditions:
- **Cooling:** Inlet water temperature 12°C and outlet water temperature 7°C; outdoor temperature 35°C (DB).
- **Heating:** Inlet water temperature 30°C and outlet water temperature 35°C; outdoor temperature 7°C (DB), 6°C (WB).

Pipe length 7.5 m; height difference of the pipe 0 m.

(2) Acoustic level measurement is performed under the following conditions:
Outdoor temperature: 7°C (DB) / 6°C (WB) Inlet and outlet water temperature: 30/35°C. Measurement of the acoustic level is done in an acoustic chamber 1 meter from the front surface and 1.5 meters above the ground. The sound pressure level is measured in a reflecting chamber in accordance with standard EN12102. Ambient conditions are defined in EN 14511.

YUTAKI S COMBI

Combined with solar panels

Although all Yutaki lines are ready for use with solar panels to reduce energy costs, the Yutaki S Combi models have been designed with an **integrated heat exchanger in the DHW** cylinder specifically for use with solar panels. This provides a more compact solution that increases energy efficiency.

Stainless steel tank* with built-in electric heater. Allows production of hot water even in the event of a condensation unit failure.

* Without the need to integrate a protective galvanizing anode to protect against corrosion.

Space-saving design

The space required to install this unit was reduced by up to 70% thanks a new construction that includes a water tank inside the unit. You can choose a 200 or 260 liters tank.

New model only

The Yutaki S Combi series **includes a new 6.00 kW,** which is ideal for small installations and extends the range of available power from 4.30 to 16.00 kW.

Easy and intuitive control

New LCD screen **for easy operation.** The remote control features various functions, such as a weekly timer or energy-saving mode for a water pump..

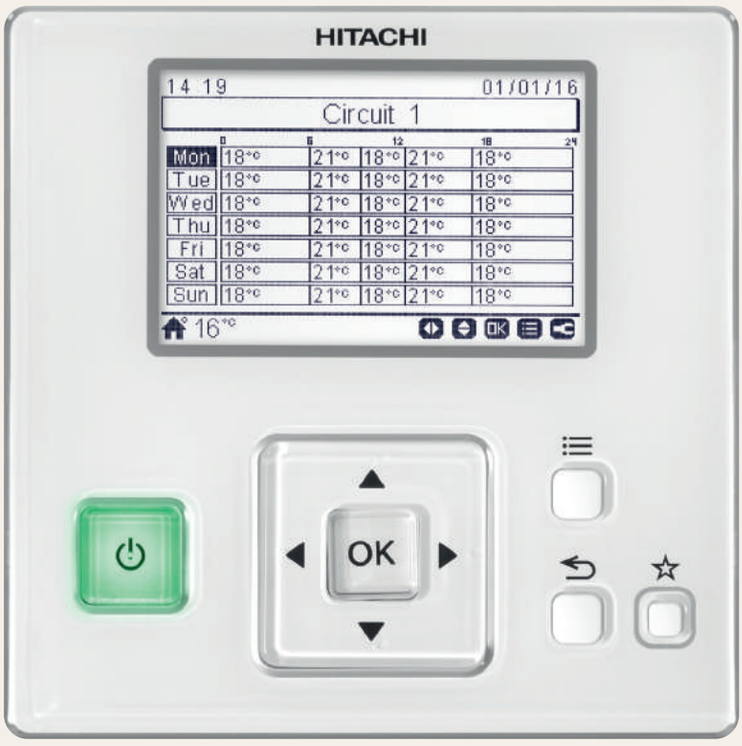
Easy installation and maintenance

The Yutaki S Combi unit offers **a plug-and-play** installation. The only required elements are to connect the refrigerant circuit and power supply between outdoor and indoor units to enable the unit to start. Hydraulic installation **does not require any additional components;** only needs to be connected directly to the internal module.

YUTAKI S COMBI
4.30–16.00 KW

3-IN-1 SOLUTION
FOR THE PRODUCTION
OF HEAT, COOL
& HOT WATER

PC-ARFHE remote control



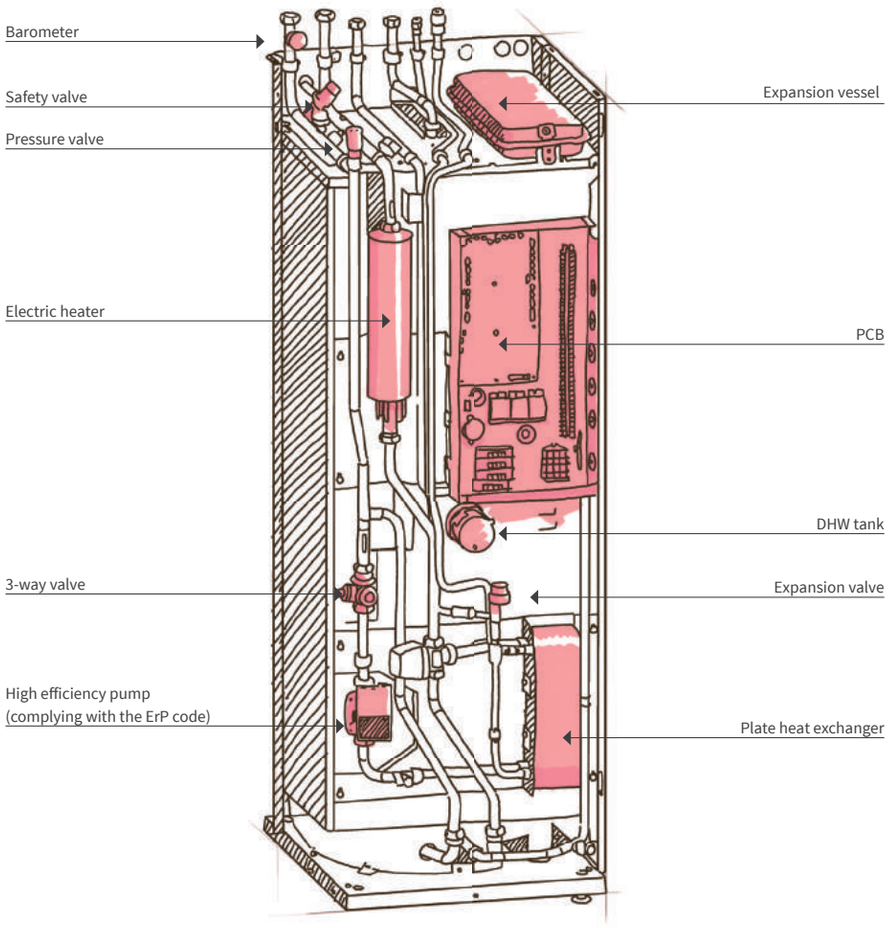
YUTAKI S COMBI

YUTAKI S COMBI

The **Yutaki S Combi** is the perfect solution for small spaces that require heating and hot water.

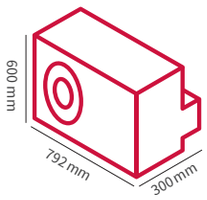
Because the installation space is 70% smaller than other units, large space savings have been achieved, mainly thanks to the integration of the DHW cylinder inside the unit. The unit is available in two volumes: 200 or 260 liters.

YUTAKI S COMBI
with 260 liter stack

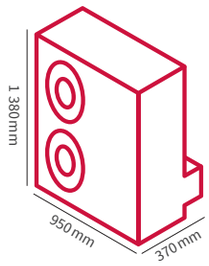


YUTAKI S COMBI

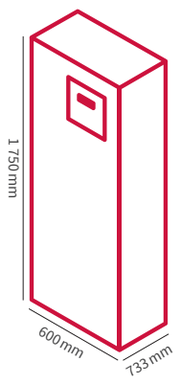
Dimensions



RAS-2-2,5WHVNP **43 kg**
RAS-3WHVNP **44 kg**



RAS-4-6WHVNP **103 kg**



RWD-2-2.5NWE **120 kg**
RWD-3NWE **121 kg**
RWD-4NWE **124 kg**
RWD-5-6NWE **126 kg**

*The weights shown in the diagrams are for a standard 200 liter stack model. For more information on the weight of the standard model with 260 l or the weight of the solar combined model, refer to the technical manual tables.

TECHNICAL DATA
YUTAKI COMBI

			Yutaki S 2V Combi	Yutaki S 2,5V Combi	Yutaki S 3V Combi	Yutaki S 4V Combi	Yutaki S 5V Combi	Yutaki S 6V Combi	Yutaki S 4 Combi	Yutaki S 5 Combi	Yutaki S 6 Combi
			Single Phase	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase	Three-phase	Three-phase	Three-phase
Indoor unit			**RWD-2.0NW(S)E**	**RWD-2.5NW(S)E**	**RWD-3.0NW(S)E**	**RWD-4.0NW(S)E**	**RWD-5.0NW(S)E**	**RWD-6.0NW(S)E**	**RWD-4.0NW(S)E**	**RWD-5.0NW(S)E**	**RWD-6.0NW(S)E**
Standard model			RWD-2.0NWE	RWD-2.5NWE	RWD-3.0NWE	RWD-4.0NWE	RWD-5.0NWE	RWD-6.0NWE	RWD-4.0NWE	RWD-5.0NWE	RWD-6.0NWE
Solar combined model			RWD-2.0NWSE	RWD-2.5NWSE	RWD-3.0NWSE	RWD-4.0NWSE	RWD-5.0NWSE	RWD-6.0NWSE	RWD-4.0NWSE	RWD-5.0NWSE	RWD-6.0NWSE
Power supply			1 ~230 V 50 Hz	1 ~230 V 50 Hz	1 ~230 V 50 Hz	1 ~230 V 50 Hz	1 ~230 V 50 Hz	1 ~230 V 50 Hz	3 ~400 V 50 Hz	3 ~400 V 50 Hz	3 ~400 V 50 Hz
Sound power (2)		dB(A)	37	37	37	39	39	39	39	39	39
Pipe diameter (liquid-gas)		mm	6.35–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88
Heating working range	Outdoor air temp.	°C (DB)	-15 – +25	-15 – +25	-15 – +25	-25 – +25	-25 – +25	-25 – +25	-25 – +25	-25 – +25	-25 – +25
	Water outlet temp.	°C	+20 – +55	+20 – +55	+20 – +55	+20 – +60	+20 – +60	+20 – +60	+20 – +60	+20 – +60	+20 – +60
Cooling working range	Outdoor air temp.	°C (DB)	+10 – +46	+10 – +46	+10 – +46	+10 – +46	+10 – +46	+10 – +46	+10 – +46	+10 – +46	+10 – +46
	Water outlet temp.	°C	+5 – +22	+5 – +22	+5 – +22	+5 – +22	+5 – +22	+5 – +22	+5 – +22	+5 – +22	+5 – +22
DHW tank working range	Outdoor air temp.	°C (DB)	-15 – +35	-15 – +35	-15 – +35	-25 – +35	-25 – +35	-25 – +35	-25 – +35	-25 – +35	-25 – +35
	Water outlet temp.	°C	+30 – +75	+30 – +75	+30 – +75	+30 – +75	+30 – +75	+30 – +75	+30 – +75	+30 – +75	+30 – +75
Dimensions	Height (incl. connection)	mm	1 750 (1 816) *	1 750 (1 816) *	1 750 (1 816) *	1 750 (1 816) *	1 750 (1 816) *	1 750 (1 816) *	1 750 (1 816) *	1 750 (1 816) *	1 750 (1 816) *
	Width	mm	600	600	600	600	600	600	600	600	600
	Depth	mm	733	733	733	733	733	733	733	733	733
Weight with 200l tank		kg	120	120	121	124	126	126	124	126	126
Weight with 260l tank		kg	135	135	136	139	141	141	139	141	141
Weight with solar combination (260l)		kg	138	138	139	142	144	144	142	144	144

Outdoor unit			**RAS-2WHVNP**	**RAS-2.5WHVNP**	**RAS-3WHVNP**	**RAS-4WHVNPE**	**RAS-5WHVNPE**	**RAS-6WHVNPE**	**RAS-4WHNPE**	**RAS-5WHNPE**	**RAS-6WHNPE**
Rated power (1)	Heating	kW	0.82	1.25	1.65	2.20	2.97	3.50	2.20	2.97	3.50
	Cooling	kW	1.22	1.59	2.18	2.18	2.95	3.72	2.18	2.95	3.72
Max capacity (1)	Heating	kW	4.30 (7.00)	6.00 (9.00)	7.50 (11.00)	11.00 (15.20)	14.00 (16.70)	16.00 (17.80)	11.00 (15.20)	14.00 (16.70)	16.00 (17.80)
	Cooling	kW	3.80 (4.90)	5.00 (5.80)	6.00 (7.00)	7.20 (11.80)	9.50 (12.60)	10.50 (13.70)	7.20 (11.80)	9.50 (12.60)	10.50 (13.70)
COP 7 °C outdoor / 30–35 °C water			5.25	4.80	4.55	5.00	4.71	4.57	5.00	4.71	4.57
EER 35 °C outdoor / 7–12 °C water			3.12	3.15	2.75	3.30	3.54	3.31	3.30	3.54	3.31
Energy Class at 35 °C			**A+++**	**A+++**	**A++**	**A+++**	**A+++**	**A++**	**A+++**	**A+++**	**A++**
Power supply			1 ~230 V 50 Hz	1 ~230 V 50 Hz	1 ~230 V 50 Hz	1 ~230 V 50 Hz	1 ~230 V 50 Hz	1 ~230 V 50 Hz	3 ~400 V 50 Hz	3 ~400 V 50 Hz	3 ~400 V 50 Hz
Sound pressure (2)		dB(A)	46	47	50	49	50	50	49	50	50
Sound performance (2)		dB(A)	61	63	64	64	65	67	64	65	67
Air flow		m^3/h	2 436	2 436	2 682	4 800	5 400	6 000	4 800	5 400	6 000
Pipe diameter (liquid-gas)		mm	6.35–12.7	6.35–12.7	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88	9.52–15.88
Maximum length		m	50	50	50	75	75	75	75	75	75
Maximum height difference			30/20	30/20	30/20	30/20	30/20	30/20	30/20	30/20	30/20
Operating ranges (cooling/heating/DHW)		°C (DB)	+10 – +46 / -15 – +25 / -15 – +35	+10 – +46 / -15 – +25 / -15 – +35	+10 – +46 / -15 – +25 / -15 – +35	+10 – +46 / -25 – +25 / -25 – +35	+10 – +46 / -25 – +25 / -25 – +35	+10 – +46 / -25 – +25 / -25 – +35	+10 – +46 / -25 – +25 / -25 – +35	+10 – +46 / -25 – +25 / -25 – +35	+10 – +46 / -25 – +25 / -25 – +35
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge (maximum pipe length without additional charge) / GWP		kg (m) / CO_2 ton	1.40 (30) / 2.923	1.50 (30) / 3.132	1.70 (40) / 3.550	3.30 (60) / 6.890	3.40 (60) / 7.099	3.40 (60) / 7.099	3.30 (60) / 6.890	3.40 (60) / 7.099	3.40 (60) / 7.099
Compressor			Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
Dimensions (Height × Width × Depth)		mm	600 × 792 × 300	600 × 792 × 300	600 × 792 × 300	1 380 × 950 × 370	1 380 × 950 × 370	1 380 × 950 × 370	1 380 × 950 × 370	1 380 × 950 × 370	1 380 × 950 × 370
Weight		kg	43	43	44	103	103	103	103	103	103

(1) Rated cooling and heating capacity is based on EN14511 and the following conditions:
– Cooling: Inlet water temperature 12°C and outlet water temperature 7°C; outdoor temperature 35°C (DB).
– Heating: Inlet water temperature 30°C and outlet water temperature 35°C; outdoor temperature 7°C (DB), 6°C (WB).
Pipe length 7.5 m; height difference of the pipe 0 m.

(2) Acoustic level measurement is performed under the following conditions:
Outdoor temperature: 7°C (DB) / 6°C (WB) Inlet and outlet water temperature: 30/35°C. Measurement of the acoustic level is done in an acoustic chamber 1 meter from the front surface and 1.5 meters above the ground. The sound pressure level is measured in a reflecting chamber in accordance with standard EN12102. Ambient conditions are defined in EN 14511.

* Corresponds to the height of the unit a minimum mounting height. This value can be adjusted up to +30 mm.
**260 l compatible with RWD-2.0~6.0NWSE models, which combines with a solar panel.

YUTAKI S COMBI LITE

This year **HITACHI** is pleased to launch a new version of the integrated air to water heat pump: the **Yutaki S Combi Lite.**

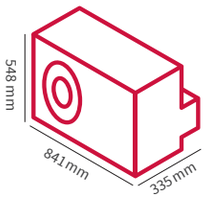
We redesigned the previous series for small apartments, without the need of the solar panel or, for example, the swimming pool.

This model maintain the most important feature to ensure the maximal comfort for the customer: heating, cooling and domestic hot water production

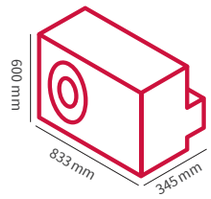
YUTAKI S COMBI LITE

ErP ACTIVE

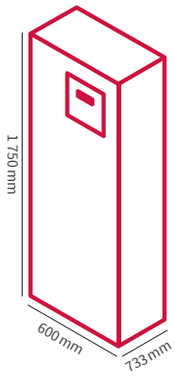
Dimensions



RAS-2WHVN **33 kg**



RAS-2.5WHVN **41 kg**



RWD-2.0NWLE **99 kg**
RWD-2.5NWLE **99 kg**

TECHNICAL DATA
YUTAKI COMBI LITE

			Yutaki S Combi Lite 2HP	Yutaki S Combi Lite 2HP
			Single Phase	Single Phase
Indoor unit			**RWD-2.0NWLE**	**RWD-2.5NWLE**
Power supply			1 ~230 V 50 Hz	1 ~230 V 50 Hz
Sound power (2)		dB(A)	37	37
Pipe diameter (liquid-gas)		mm	6.35–9.52	6.35–12,7
Heating working range	Outdoor air temp.	°C (DB)	-15 – +25	-15 – +25
	Water outlet temp.	°C	+20 – +55	+20 – +60
Cooling working range	Outdoor air temp.	°C (DB)	+10 – +43	+10 – +43
	Water outlet temp.	°C	+5 – +22	+5 – +22
DHW tank working range	Outdoor air temp.	°C (DB)	-15 – +35	-15 – +35
	Water outlet temp.	°C	+30 – +75	+30 – +75
Dimensions	Height (incl. connection)	mm	1 750 (1 816) *	1 750 (1 816) *
	Width	mm	600	600
	Depth	mm	733	733
Weight with 200l tank		kg	99	99

Outdoor unit			**RAS-2WHVN**	**RAS-2.5WHVN**
Capacity (1)	Heating	kW	4.00	6.00
	Cooling	kW	3.80	5.00
Max capacity (1)	Heating	kW	5.70	7.00
	Cooling	kW	4.40	5.60
COP 7 °C outdoor / 30–35 °C water			4.7	4.5
EER 35 °C outdoor / 7–12 °C water			3.12	3.15
Energy Class at 35 °C			**A++**	**A++**
Power supply			1 ~230 V 50 Hz	1 ~230 V 50 Hz
Sound power (2)		dB(A)	63	63
Air flow		m^3/min	40.6	40.6
Pipe diameter (liquid-gas)		mm	6.35–9.52	6.35–12.7
Maximum length		m	20	20
Maximum height difference			10	10
Operating ranges (cooling/heating/DHW)		°C (DB)	+10 – +43 / -15 – +25 / -15 – +35	+10 – +43 / -15 – +25 / -15 – +35
Refrigerant			R410A	R410A
Refrigerant charge (maximum pipe length without additional charge) / GWP		kg (m) / CO_2 ton	1.20 (24) / 2.506	1.20 (24) / 2.506
Compressor			Scroll DC inverter	Scroll DC inverter
Dimensions (Height × Width × Depth)		mm	548 × 841 × 335	600 × 883 × 345
Weight		kg	33	41

(1) Rated cooling and heating capacity is based on EN14511 and the following conditions:
– Cooling: Inlet water temperature 12°C and outlet water temperature 7°C; outdoor temperature 35°C (DB).
– Heating: Inlet water temperature 30°C and outlet water temperature 35°C; outdoor temperature 7°C (DB), 6°C (WB).
Pipe length 7.5 m; height difference of the pipe 0 m.

(2) Acoustic level measurement is performed under the following conditions:
Outdoor temperature: 7°C (DB) / 6°C (WB) Inlet and outlet water temperature: 30/35°C. Measurement of the acoustic level is done in an acoustic chamber 1 meter from the front surface and 1.5 meters above the ground. The sound pressure level is measured in a reflecting chamber in accordance with standard EN12102. Ambient conditions are defined in EN 14511.

YUTAKI M

Single year system

By combining the Yutaki M with a cooling kit, which **allows the heat pump to reverse,** you can achieve maximum comfort throughout the year. The unit provides winter heating and air conditioning in the summer and is very easy to install.

New components, improved performance

The Yutaki M has been upgraded with **new technical components** including electrical cabinet, shut-off valve, water pump, safety valve, water filter and expansion tank.

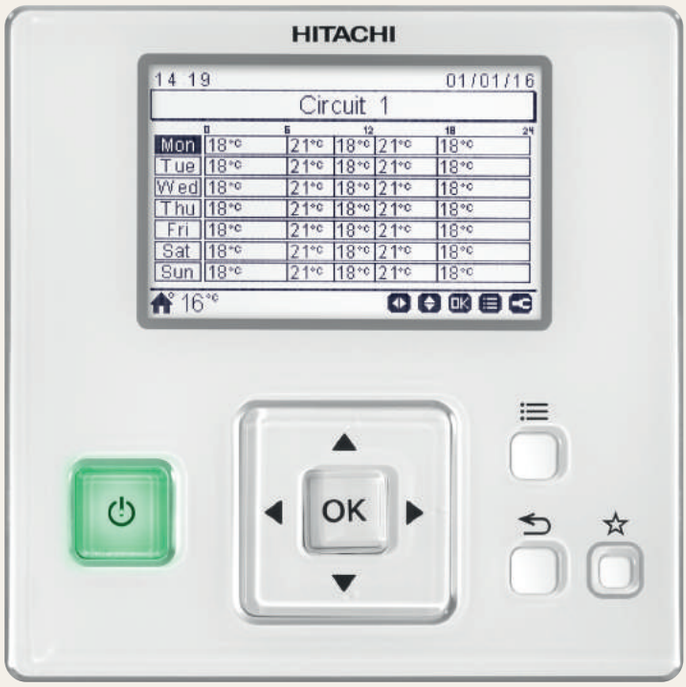
Single-unit heat pump for space saving

Comfortable with minimum consumption

All units in the Yutaki line have an **A++ energy class, but usually A+++.** Their performance makes it possible to achieve a comfortable temperature with minimal energy consumption, even under more extreme ambient conditions.

SIMPLE COMPACT INSTALLATION WITHOUT CONNECTING THE REFRIGERATOR CIRCUIT

PC-ARFHE: SAME REMOTE CONTROL FOR ALL THE MODELS *



* Available accessory.

Maximum comfort with minimum consumption even under the most extreme conditions.

Quick and easy installation for all spaces

The monoblock system allows you to use all applications through a single outdoor unit to save space inside the house. Installation costs and time are also minimal because almost no piping is required, there are no refrigerant circuit connections and the product is already supplied from the factory.

Miscellaneous operating modes appropriate for all needs

The Yutaki M can be set to **comfort, energy saving, defrost or holiday mode.** That means you can enjoy maximum comfort that is always tailored to your needs.

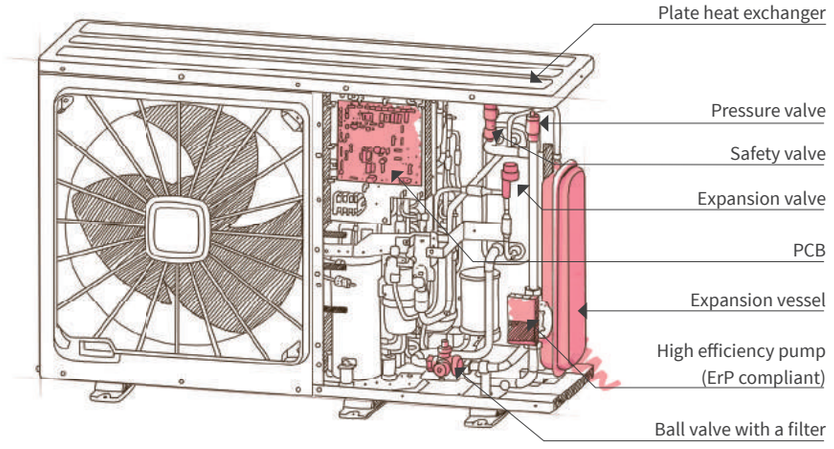
YUTAKI M

The **Yutaki M** is the best solution for those who want to quickly and easily replace their old boiler to enable floor heating, radiators, fancoils and domestic hot water heating.

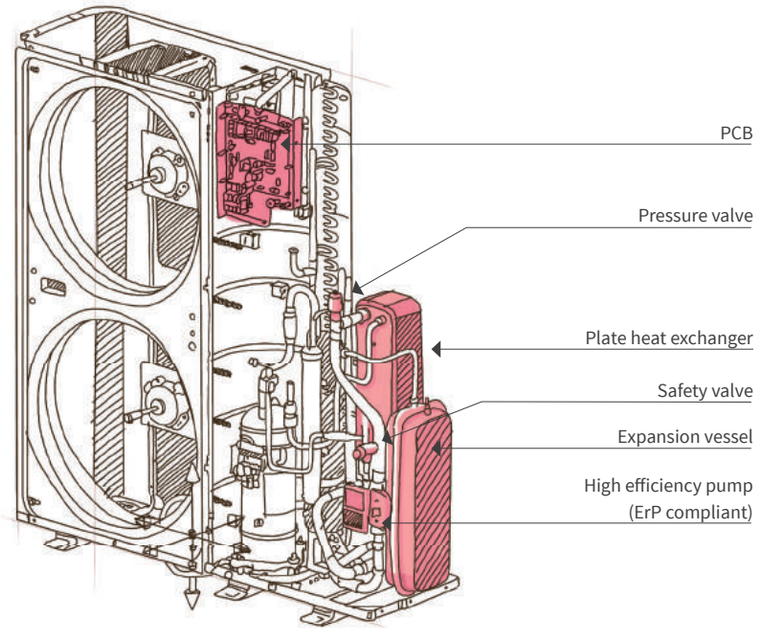
It is a one-shell system designed for installation in any type of real estate. Installation works are very simple, that the unit does not require any refrigerant piping connections.

Energy class by model.

YUTAKI M

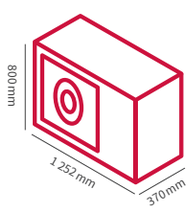


YUTAKI M 3 CV

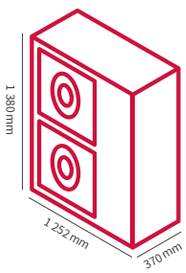


YUTAKI M 4-6 CV

Dimensions



RASM-3VNE **105 kg**



RASM-4VNE **125 kg**
RASM-5VNE **130 kg**
RASM-6VNE **134 kg**
RASM-4NE **130 kg**
RASM-5NE **135 kg**
RASM-6NE **139 kg**

TECHNICAL DATA
YUTAKI M

			Yutaki M 3V	Yutaki M 4V	Yutaki M 5V	Yutaki M 6V	Yutaki M 4	Yutaki M 5	Yutaki M 6
			Single Phase	Single Phase	Single Phase	Single Phase	Three Phase	Three Phase	Three Phase
Outdoor unit			**RASM-3VNE**	**RASM-4VNE**	**RASM-5VNE**	**RASM-6VNE**	**RASM-4NE**	**RASM-5NE**	**RASM-6NE**
Capacity (1)	Heating	kW	1.65	2.20	2.97	3.50	2.20	2.97	2.97
	Cooling	kW	2.18	2.18	2.95	3.72	2.18	2.95	2.95
Max capacity (1)	Heating	kW	7.50 (11.00)	11.00 (15.20)	14.00 (16.70)	16.00 (17.80)	11.00 (15.20)	14.00 (16.70)	16.00 (17.80)
	Cooling	kW	6.00 (7.00)	7.20 (11.80)	9.50 (12.60)	10.50 (13.70)	7.20 (11.80)	9.50 (12.60)	10.50 (13.70)
COP 7 °C outdoor / 30–35 °C water			4.55	5.00	4.71	4.57	5.00	4.71	4.57
EER 35 °C outdoor / 7–12 °C water			2.75	3.30	3.54	3.31	3.30	3.54	3.31
Energy Class at 35 °C			**A++**	**A+++**	**A+++**	**A++**	**A+++**	**A+++**	**A++**
Power supply			1 ~230 V 50 Hz	1 ~230 V 50 Hz	1 ~230 V 50 Hz	1 ~230 V 50 Hz	3 ~400 V 50 Hz	3 ~400 V 50 Hz	3 ~400 V 50 Hz
Sound power (2)			64	64	65	67	64	65	67
Air flow			2.7	4.8	5.4	6.0	4.8	5.4	6.0
Heating working range	Outdoor air temp.	°C (DB)	-25 – +25	-25 – +25	-25 – +25	-25 – +25	-25 – +25	-25 – +25	-25 – +25
	Water outlet temp.	°C	+20 – +55	+20 – +60	+20 – +60	+20 – +60	+20 – +60	+20 – +60	+20 – +60
Cooling working range	Outdoor air temp.	°C (DB)	+10 – +46	+10 – +46	+10 – +46	+10 – +46	+10 – +46	+10 – +46	+10 – +46
	Water outlet temp.	°C	+5 – +22	+5 – +22	+5 – +22	+5 – +22	+5 – +22	+5 – +22	+5 – +22
DHW tank working range	Outdoor air temp.	°C (DB)	-25 – +35	-25 – +35	-25 – +35	-25 – +35	-25 – +35	-25 – +35	-25 – +35
	Water outlet temp.	°C	+30 – +75	+30 – +75	+30 – +75	+30 – +75	+30 – +75	+30 – +75	+30 – +75
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge / GWP		kg/ CO_2 ton	2.40 / 5.011	2.80 / 5.846	3.10 / 6.473	3.10 / 6.473	2.80 / 5.846	3.10 / 6.473	3.10 / 6.473
Compressor			Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
Dimensions	Height (incl. onnection)	mm	800	1 380	1 380	1 380	1 380	1 380	1 380
	Width	mm	1 252	1 252	1 252	1 252	1 252	1 252	1 252
	Depth	mm	370	370	370	370	370	370	370
Weight		kg	105	125	130	134	130	135	139

(1) Rated cooling and heating capacity is based on EN14511 and the following conditions:
– Cooling: Inlet water temperature 12°C and outlet water temperature 7°C; outdoor temperature 35°C (DB).
– Heating: Inlet water temperature 30°C and outlet water temperature 35°C; outdoor temperature 7°C (DB), 6°C (WB).
Pipe length 7.5 m; height difference of the pipe 0 m.

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WHY CHOOSING HITACHI HEAT PUMPS?

How does it work?

The split assembly acts as a heat pump. The outdoor unit of the YUTAMPO II heater **collects heat from outdoor air for heating the water in the tank.**

Saving solution!

Hitachi designed this heat pump so that 70% of the energy needed to operate it is free (energy from the air) and only 30% represents the electricity delivered, while the traditional water heater always consumes more energy than it produces

What you need to know! The power consumption of your heat pump will be lower by how much the COP will be. **YUTAMPO II has one of the best COPs on the market - from 1kW of electricity consumed, it supplies up to 3.2 kW of energy to the DHW tank** (under nominal operating conditions)

Why an outdoor unit?

It guarantees comfort without noise. It is located outdoors, from where it takes energy and the house does not cool.

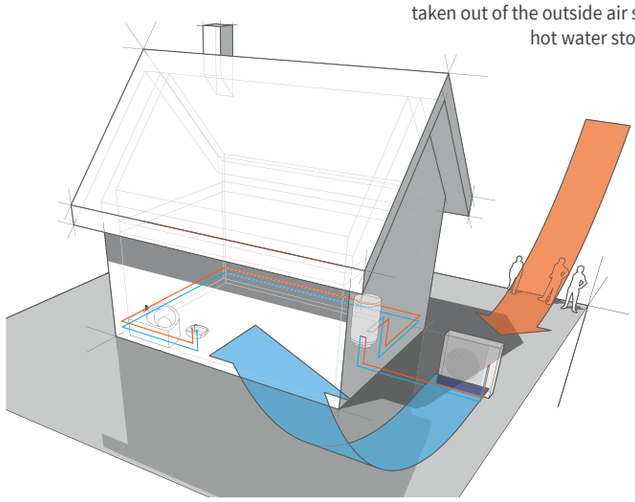
Environmental liability commitment

The YUTAMPO II air-to-water heat pump produces more energy than it uses, unlike conventional DHW heaters.

Efficient technology!

The YUTAMPO II heat pump technology has long been proven. It is the most efficient solution for your home's equipment **by the fastest DHW heating, which allows precise temperature setting, is compact and silent.**

In winter and in summer, energy is taken out of the outside air stored in a hot water storage tank.



3h15

TO HEAT
ALL THE TANK

(1)

MORE COMFORT

- **It works at an outside temperature of up to -15 ° C.**
- **In a very short time the water is heated to the exact temperature.**
- **Silent outdoor unit. Sound power 63 dB (A).**
- **Silent indoor unit.**

Scale noise

(Performance in decibels by model)

HIGHER SAVINGS

ENERGY EFFICIENCY: HOW TO SAVE WHEN THE PRICE OF ELECTRICITY STOPS

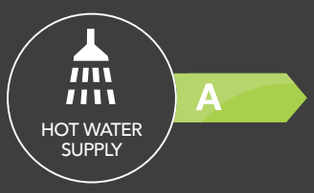
With an uncertain view of the evolution of energy prices for the future

it is always good to have household equipment to guarantee the lowest operating costs.

Thanks to the energy efficiency of Hitachi heat pumps and air conditioners, your electricity consumption will be at least 3 times lower.

How is it possible? Thanks to the certified CUT of the YUTAMPO II heater, which reaches up to 3.2.

Think about it: **the COP factor of 3.2 means that for 1 kW of electricity consumed, 3.2 kW of heated water!!**



HIGHER ECOLOGY

THERMAL WATER HEAT PUMPS ARE OFFICIALLY RECOGNIZED AS A RENEWABLE ENERGY IN THE EUROPEAN DIRECTIVE FOR PROMOTING RENEWAL ENERGY FROM RENEWABLE SOURCES.

HEAT PUMP uses the energy **contained in the air: 100% renewable energy source!**

Like all HITACHI heat pumps, **it is not a direct source of CO2 emissions.** (CO2 only occurs when producing electricity).

On average, 5x lower CO_2 emissions.(2)

By placing the tray in a heated room, heat losses are reduced by the surface of the device.

Two tank sizes available
190 liters and 270 liters so you can choose from your choice and save.

(1) Model with 190 l capacity.
(2) Compared to solid fuel solid fuel heaters.

HITACHI

CONFIRM YOUR EXPECTATIONS

OVER **60** YEARS
EXPERIENCES
IN AIR CONDITIONING AND HEATING

OVER **4.5** MILLIONS
HEAT PUMPS
PRODUCED ANUALLY IN THE WORLD

YUTAMPO II
ECOLOGICALLY CONTINUOUS TECHNOLOGY

A simple, economical and aesthetic heat pump for hot water heating YUTAMPO II is the most efficient solution for the comfort of the entire family.

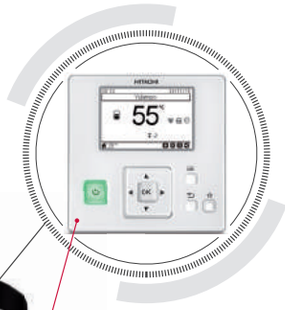
3.2

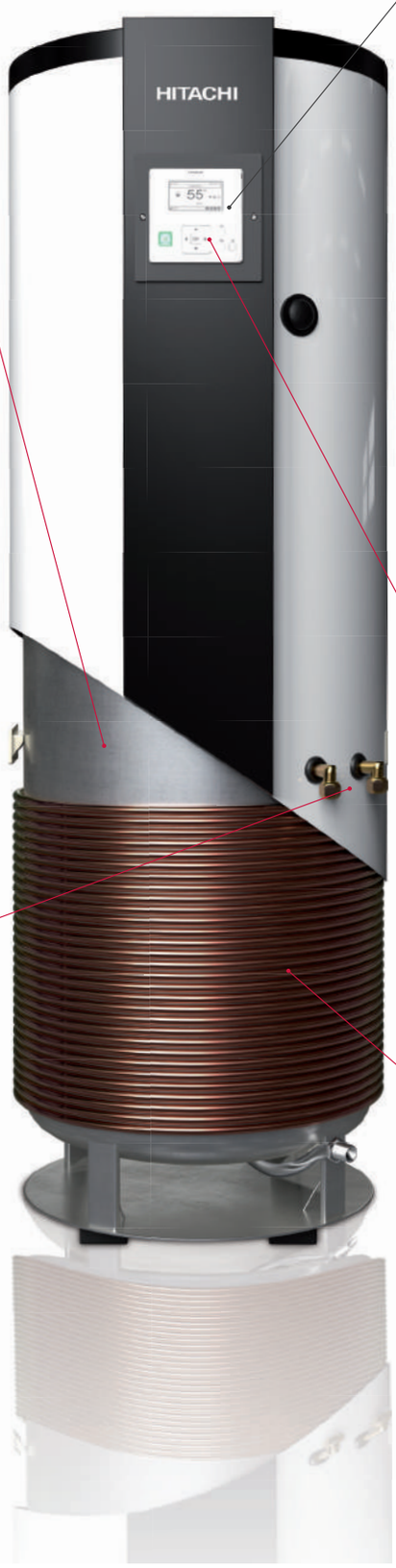
HIGH COP

CONSUMPTION **1 kW**
= 3.2 kW
SUPPLIED ENERGY

YUTAMPO II

YUTAMPO II





WATER TREATMENT AND WATER CLEANING

- The hot water tank is made of high quality stainless steel that is designed for contact with drinking water and its insulating properties and the antibacterial function keeps the temperature and prevents the spread of bacteria.

SIMPLIFIED CONTROL

Universal intuitive driver common to all devices:

- hourly schedules
- required domestic hot water temperature

REMOTE CONTROLLER

- You have the option to move the driver to the living space for easier control.

INVERTER TECHNOLOGY FOR ENERGY SAVINGS

- Compressor developed and manufactured by Hitachi incorporates Inverter technology. Thanks to it, the heat pump can adapt its performance exactly to the actual needs of users. This technology reduces energy consumption by 30% and thus your account for electricity.

WATER HEAT SPEED

- Thanks to high heating performance YUTAMPO is one of the fastest hot water heaters on the market, the entire tray can be heated to exactly the desired temperature in 3 hours 15 minutes.

TECHNICAL DATA
YUTAMPO II

INDOOR UNIT			TAW-190NHB	TAW-270NHB
Nominal container volume		Litres	190	270
Declared load profile		-	L	XL
DHW reference temperature	ewh	ºC	53,5	53,8
COP	COP_{DHW}	-	3,1	3,2
Back-up electric heater	-	kW	1,5	1,5
Maximum volume of hot water available	Vmax	L	256	365
Heating time	Time	h:min	3:15	4:50
	power consumption	kWh	4,77	5,55
Adjustable water temperature		ºC	30~75	30~75
Maximum water temperature (with electric heating)		ºC	75	75
Maximum length of refrigerant piping		m	20	20
Dimensions (W x H x D)		mm	520 x 1620 x 594	600 x 1620 x 674
Weight		kg	49	54

OUTDOOR UNIT		RAW-35NHB
Sound power level	dB(A)(1)	63
Dimensions (W / H / D)	mm	841 x 548 x 335
Weight	kg	33
Refrigerant type		R410A
Refrigerant charge / GWP	kg/ CO_2 ton	1.2 / 2.506

(1) Value at 7 ° C air temperature and 10 ° C cold water temperature according to LCIE Nº 103-15 / B: 2011 according to NF EN 16147: 2011, with cooling pipe connection 7 m long and no difference in height.

ACCESSORIES TO COMPLETE THE YUTAKI RANGE

COOLING SET
ATW-CKS-01/ ATW-CKS-02/ ATW-CKS-03/
ATW-CKSC-01/ ATW-CKM-01*

It allows you to reverse the operating mode of the unit to use both cooling and heating.

The set consists of 1 connecting lead, 6 screws, 1 insulating pipe, 1 insulation roll, 1 condensate neck and 1 condensate tray. Also included is installation instructions.

ATW- CKS- 01: COMPATIBLE WITH YUTAKI S 2–3 CV
ATW- CKS- 02: COMPATIBLE WITH YUTAKI S 4–6 CV
ATW- CKS- 03: COMPATIBLE WITH YUTAKI S 6–10 CV
ATW- CKSC- 01: COMPATIBLE WITH YUTAKI S COMBI
ATW- CKM- 01: COMPATIBLE WITH YUTAKI M

CABLE DRIVER ON/OFF
PC-ARFHE*

When installed on the unit, it allows setting the entire installation: heating, hot water, solar panels and swimming pools.

When installing in the room, the thermostat and the remote temperature controller function.

It also allows you to set a weekly program and select the operating mode of the unit: comfort, energy saving, etc. In addition, the digital screen displays the history of maintenance-related error messages.

Languages: Spanish, English, German, French and Italian.

* Compatible with a wide range of Yutaki.

WIRELESS THERMOSTAT ON / OFF (INCLUDING RECEIVERS)
ATW-RTU-04*
Allows you to set when the unit is automatically turned on and off.

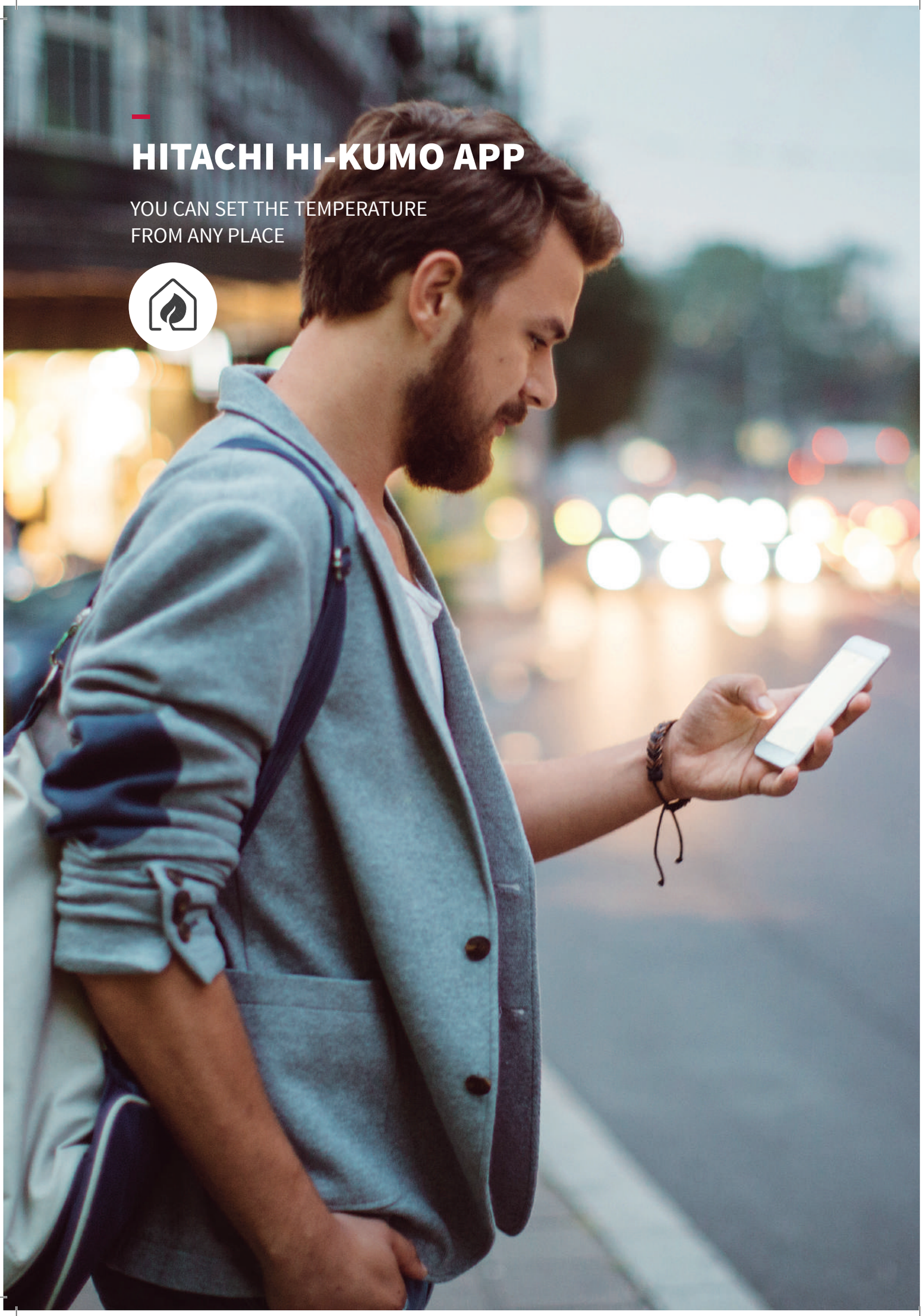
* Compatible with a wide range of Yutaki.

INTELLIGENT WIRELESS THERMOSTAT (INCLUDING RECEIVERS)
ATW-RTU-05*
In addition to turning on and off, the unit provides traffic optimization information.

* Compatible with a wide range of Yutaki.

INTELLIGENT WIRELESS THERMOSTAT FOR THE SECOND WATER CIRCUIT
ATW-RTU-06*
Room thermostat for temperature control in the second room, easy to install and offers multifunctional capabilities. For use with intelligent thermostat applications.

* Compatible with a wide range of Yutaki.

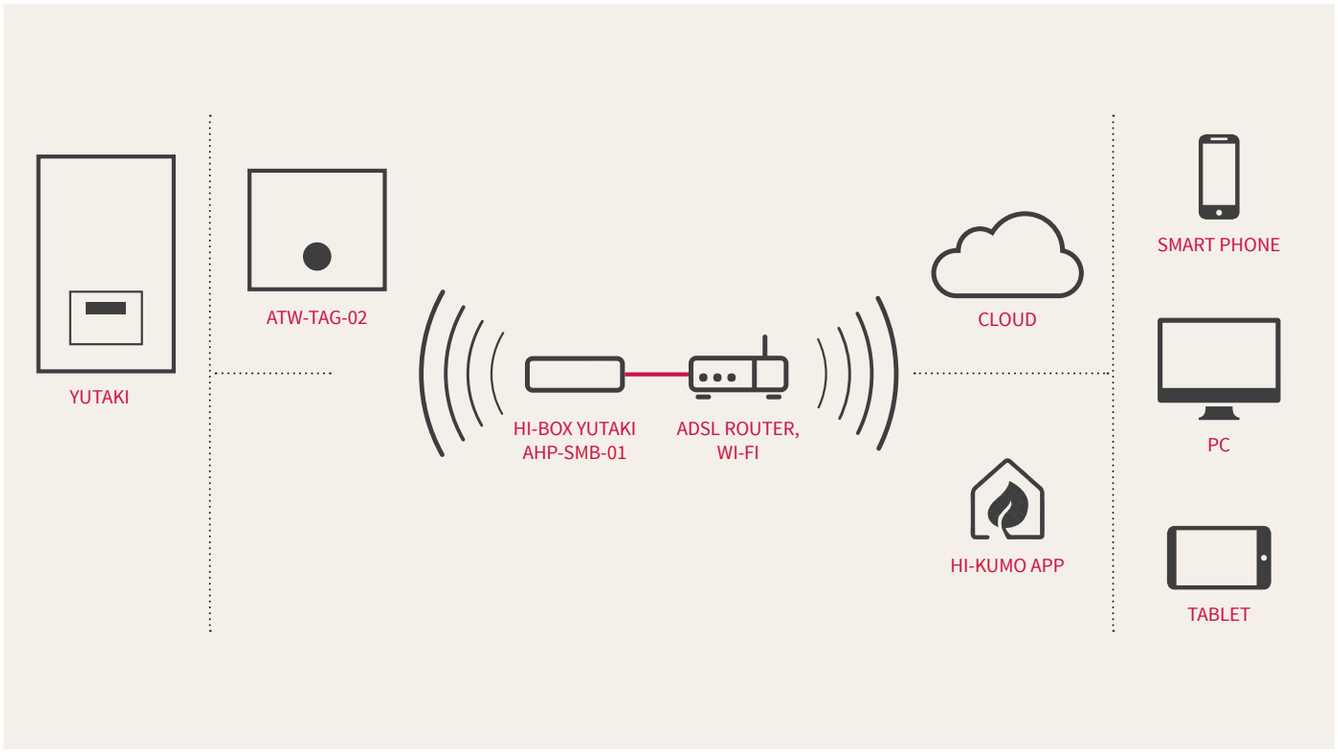


HITACHI HI-KUMO APP

YOU CAN SET THE TEMPERATURE
FROM ANY PLACE

When you come back from the trip, you would definitely want to have a pleasant temperature at home. Or, to turn on the pool heating so that you can immerse yourself in it immediately. All this is easy with the **HITACHI** Hi-Kumo application that lets you control Yutaki's functions from anywhere.

You only need a Yutaki Hi-Box set to connect a mobile application with a heating and air conditioning system and download the application to your computer, tablet or smartphone.



HOW CAN YOU HELP YOU?

Turn on or off heating or air conditioning from anywhere.
You do not even have to be at home.

Program the temperature in one or several rooms to ensure maximum comfort (holiday mode, weekly).

Detects drive failures quickly and saves time with the history of alert codes.

DOWNLOAD FREE: Available on the iPhone App Store | GET IT ON Google Play

Johnson Controls

HITACHI
Air conditioning solutions

–

Johnson Controls Hitachi Air Conditioning Europe SAS

–

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Tél. +33 4 67 17 07 07

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