

HITACHI

—
**Catalogue
2020**



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Cooling & Heating

Welcome to Hitachi Cooling and Heating, climate control solutions



– **Over 100 years of history and culture**

Japanese technology

24 factories around the world

Born in Japan, with a global presence

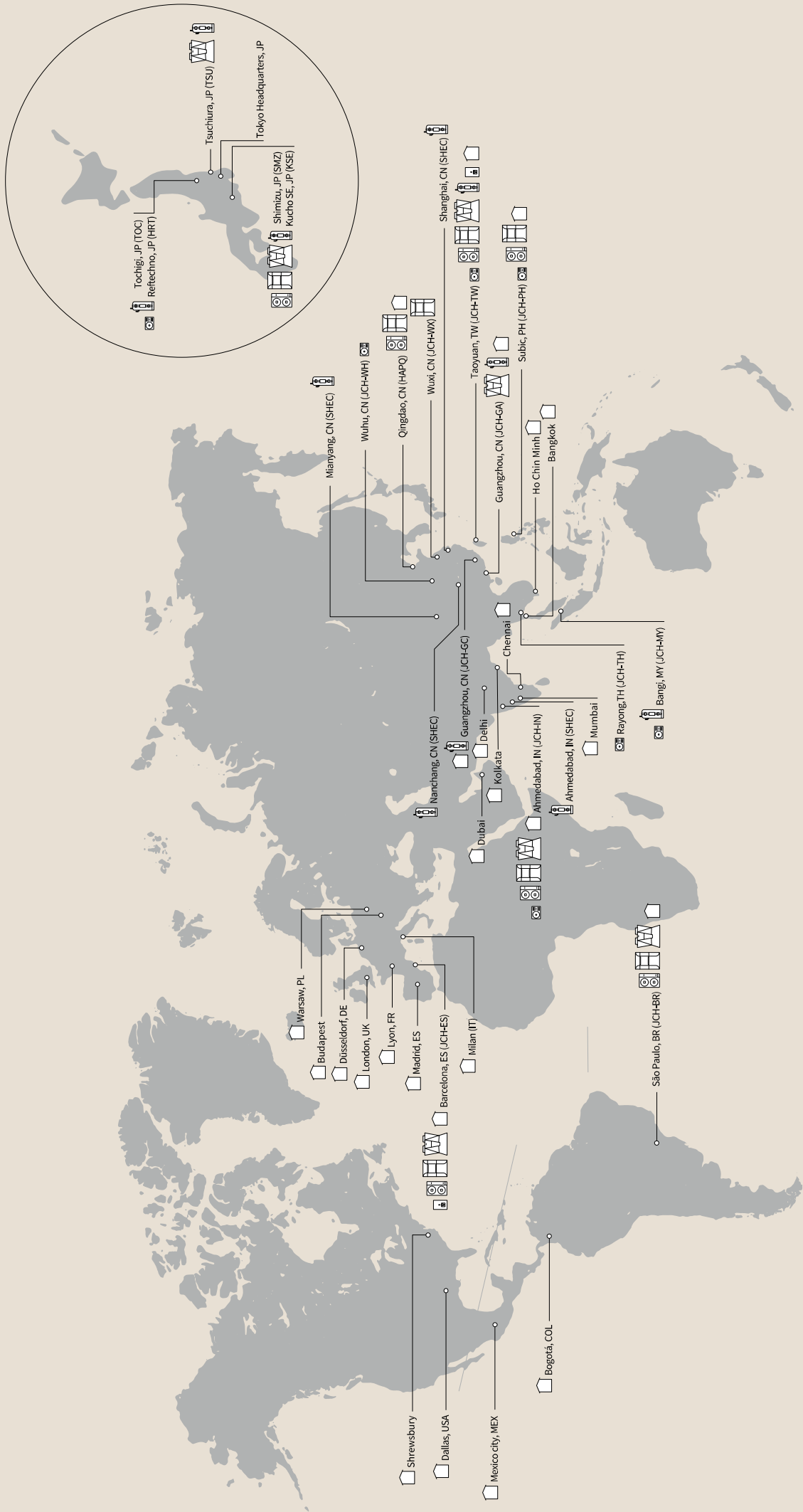
Hitachi is the global brand for premium climate control solutions, renowned for its ability to create unique spaces, understand installation requirements and meet customer demands.

By designing, engineering and manufacturing reliable, efficient, high-quality heating and cooling systems, we help people find their optimal air conditioning solution, always meeting their expectations.

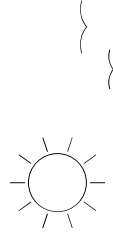
Our goal is to create a world where, thanks to our cutting-edge Japanese technology, people can live in harmony with themselves, with their families, and with the environment around them.

To ensure it reaches all over the world, Hitachi has 24 factories around the globe to produce its different climate control ranges and components: residential, commercial, heating, VRF, chillers and compressors.





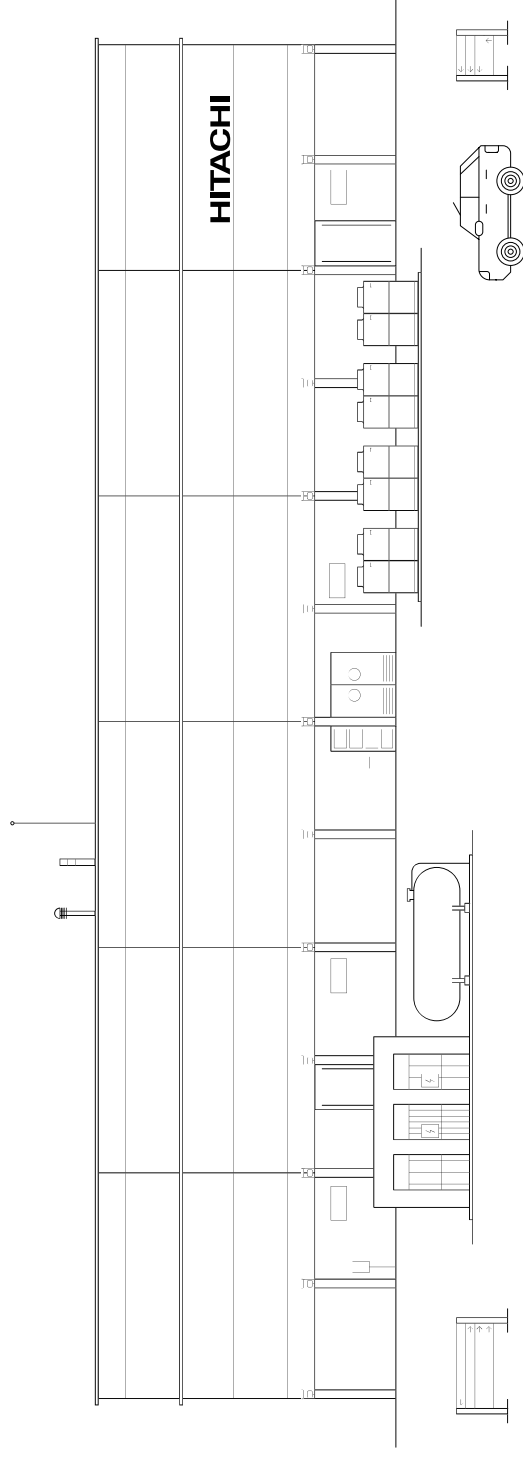
Hitachi's European climate control solutions factory, based in Spain



The Spanish factory in Vacarisses, Barcelona is responsible for designing, manufacturing and quality checking all climate control equipment made in Europe. It also supplies equipment to Africa, Australasia and parts of South America.

Its location within Europe means we can control the design and manufacturing process to ensure we meet the specific needs of our market. We also offer high availability of spare parts for fast replenishments.

The factory currently produces the following lines: Samurai L Chillers, VRF systems, Yutaki heat pumps, IVX commercial range and the System Free indoor units. This represents almost the entire Hitachi portfolio manufactured here in Europe for the European market.



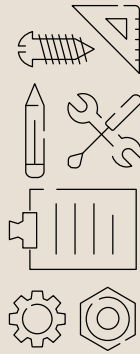
We design cutting-edge technology to meet your needs and desires



Quality you can count on

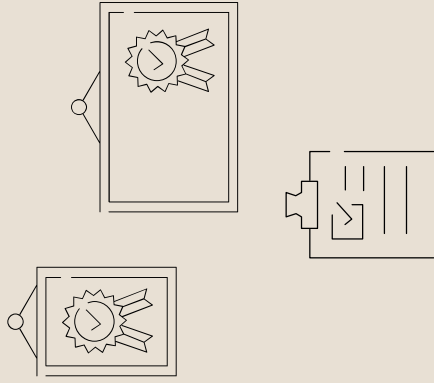
Quality guarantee

How do our products achieve this quality?



All components in our equipment are manufactured with the highest quality materials, provided by carefully selected suppliers. This guarantees the durability of our systems for lifetime climate control.

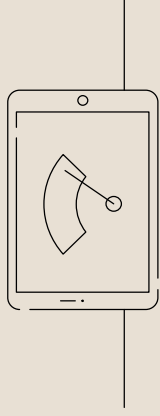
Quality assurance



All air conditioning systems are tested one by one rather than by sampling, ensuring the required quality standards and the reliability of all our units.

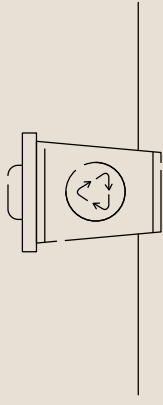
We support you to support the environment

Certified performance



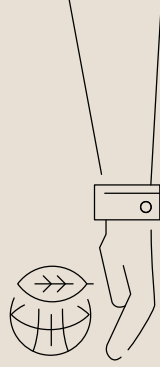
Several Hitachi ranges have the best seasonal performance on the market.

No waste goes to landfill



100% of waste generated in the factory is recycled or recovered. Our factory puts all waste to good use, helping to ensure the sustainability of the environment.

Environmental management certificate



Refrigerant



As a sign of Hitachi's commitment to the environment, many of our systems require less refrigerant to operate, making a positive contribution to both nature and society.

We're here to help you

Trusted systems with the customer service that you deserve

For product training dates and all the latest news from Hitachi, HVAC industry & renewables updates plus trends in engineering and social innovation follow us on twitter.

[@hitachiairconUK](https://twitter.com/hitachiairconUK)

Hitachi official technical service

For fast, efficient technical help please contact our Hitachi trained engineers. They have an in-depth knowledge of the whole Hitachi range and can attend site to aid commissioning and or troubleshooting if required.

UK & Ireland Technical
 (+44) 0203 901 0913
Aircon.technical@jci-hitachi.com

Spares

New European spares warehouse means most common spares available for immediate dispatch. Hi-Parts is an intuitive and simple to use online tool for spare parts enquiries and orders.

<http://www.hitachi-hvac.co.uk/apps>
 (+44) 0203 901 0912
Aircon.spares@jci-hitachi.com

Warranty

Login securely, place and track warranty claims online whenever it suits you. We believe in the quality of our product and so our warranty is with the equipment and remains it with it for the duration so you and your customers can believe in it too.

<http://www.hitachi-hvac.co.uk/apps>
 (+44) 0203 901 0913
Aircon.warranty@jci-hitachi.com

Standard warranty terms are:

- RAC – 3 years
- IX Utopia, System Free, Global PAC, Sigma VRF and Yutaki – 5 years (7 available subject to terms)
- Samurai L – 3 years
- Samurai M & Samurai S – 18 months.

Call us on:

Tel: + 44 (0)203 901 0912
 Business hours: Mon - Fri 9am - 5pm

Or send an email to:

aircon.uk@jci-hitachi.com or
aircon.ireland@jci-hitachi.com

Free product training

We run a series of one day product specific training courses run from our aircademy training centres in Maidenhead, Dublin and Glasgow.

Contact our training team for the latest available dates.

Aircon.training@jci-hitachi.com

A variety of useful tools are available for your use from our website

<https://www.hitachi-hvac.co.uk/apps>

Hi-toolkit for home

Online selection software for air to water heat pumps for domestic applications.

Yutaki Schematics

Access to hydraulic schematics and terminal board configuration for simplified installations.

Erp labels for Eco design

Generate energy labels for all products covered by the EcoDesign Directive, including Lot 1, Lot 2, Lot 6, Lot 10 and Lot 21 products.

Alarm Codes

24/7 Troubleshooting with explanations and error code descriptions.

BIM Library

Find BIM files of our products for your projects.

Eurovent Certification. First Japanese manufacturer to certify its products at Eurovent

Hitachi's climate control systems are Eurovent certified for full reassurance in all types of installations. Certification guarantees the performance of our systems under the most demanding conditions giving consultants, installers and end users the peace of mind that the Hitachi systems they have selected will perform as specified.



Discover the meaning of the technology icons.

We make your work selecting which units are suitable for your project easy by using technology icons to differentiate our models from each other.

Refer back to these icons to understand the unique features of each product.



Heating
This unit can operate in heating mode.



A+++
The highest possible energy class as certified by Eurovent.



Energy saving
The unit will operate in the most energy efficient way possible.



Power consumption
The consumption of your device will be displayed in heating and cooling modes.



Compatible with H-Link
The unit has an H-Link interface for connection to centralised controllers and a common communication bus.



Free Cooling
The unit uses the outside air for cooling.



External Expansion Valve
The external expansion valve can be installed away from the unit (in an adjoining corridor) in order to reduce noise.



Independent Louvre Control
Individual control of the exhaust louvres to manage the airflow.



Compatible with all System Free indoor units
Flexibility in the combination of indoor units and outdoor units.



Passivhaus Ready
Suitable for use in passive houses.



Wide operating range
Systems can perform in a wide range of ambient temperatures.



Cooling
This unit can operate in cooling mode.



Smart Cascade
Adjusts the operation automatically according to the thermal requirements.



80°C
The Tuluaki S80 produces water up to 80°C.



Automatic filter cleaning
Integrated filter self-cleaning robot.



4 Way Swing
For ideal air distribution, the air can be distributed in 4 different directions.



External Pressure
Adaptive pressure that allows installation with different sizes and lengths of ducts.



Constant air flow
The fan motor adjusts the air pressure whilst maintaining a constant air flow.



Adaptable
Change the air outlet easily depending on installation requirements.



Independent Control
Control the individual temperature from each indoor unit.



Air Curtain
Compatible with a range of commercially available air curtains.



R32
Equipment uses new sustainable R32 refrigerant.



Hot water
Produces hot water for your house.



ECO-Motion sensor
Detects movements in the room and adjusts the operation of the unit to save energy.



Hi-Kumo
Compatible with the control app from Hitachi.



7 day schedule
Program the units operation for a whole week.



CO2-Sensor
Control the air quality with connection to CO2-Sensors.



Compact
The cassette panel fits perfectly into a standard ceiling tile.



Guaranteed comfort
The new louvre guarantee the best comfort for users.



Independent louvres control
Amend the louvre direction to adjust the air flow.



Energy Recovery
Produces hot water for free by the use of heat recovery.



Product Certification
Eurovent and Keymark certification ensure products are tested to the highest standards in Europe for a piece of mind installations.



Reduced dimensions
Compact and lightweight equipment for easier more aesthetic installations.



Renewable technologies
Climate friendly solutions without direct CO2 emissions.



Silent
Unit has very quiet operation.



Energy Class
Unit meets the high requirements of EU directives.



Integral H-Link
Integrated H-Link control protocol and ability to connect to central controls.



Multizone compatibility
Indoor unit is compatible with Multizone outdoor units.



Exclusive to Hitachi
Unique and exclusive products to Hitachi.



Smooth Drive
Compressor speed is regulated in steps of 0.1Hz. This enables pinpoint accuracy in power control and comfort.



Heat pump or Heat recovery
Units can be used as either 2 pipe heat pumps or as 3 pipe heat recovery systems with CH boxes.



High H Speed
An extra speed setting has been added to make 4 in total. Ideal for applications with high ceilings.



New to Hitachi
Discover Hitachi's latest range of innovative products.



Frost Wash
Automatic cleaning of the heat exchanger in the indoor unit for fresher air.

The Yutaki range is part of the product group known as air source heat pumps, systems that use the latent heat in ambient air to generate energy and provide all the heating and hot water needs in the home.

Begur, Son Richi housing development, air conditioned with Hitachi's Yutaki air to water heat pumps.



— Yutaki Air to water heat pumps





Yutaki S



Yutaki S Combi



Yutaki S80



Quick selection table

	Yutaki S	Yutaki S Combi	Yutaki S80	Yutaki M	Yutaki T
Range	RWM-2-10 NE	RWD-2-6 NW/(SE - (200/260)K(S)	RWH-4-6 (V)NF(W)E	RASM-3-6(V)NE	TAW-(190/270)NHB
Applications	Low temperature radiators, underfloor heating, fan coil, hot water and pool heating. Ideal for new builds and for replacing wall-mounted boilers.	Low temperature radiators, underfloor heating, fan coil, built-in hot water and pool heating. Ideal for homes with little space, thanks to the integrated hot water tank.	High and/or low temperature radiators, underfloor heating, fan coil, hot water and pool heating. Ideal for installations requiring high temperatures, e.g. replacing diesel boilers.	Low temperature radiators, underfloor heating, fan coil, hot water and pool heating. Compact unit, ideal for installations with little indoor space.	Hot water production.
Heating capacity kW (built-in min)/max)	1.85 - 32.00	1.85 - 17.80	4.30 - 17.80	2.10 - 17.80	—
COP up to 7 °C out/ 30 - 35 °C water	5.25	5.25	5.00	5.00	3.20
Cooling capacity (built-in min)/max)	3.80 - 20.60	3.80 - 13.70	—	6.00 - 13.70	—
EER up to 35 °C out/ 7 - 12 °C water	3.54	3.54	—	3.54	—
Production temperature (up to) °C	60	60	80	60	—
Heating operating range °C	-25 ~ 25	-25 ~ 25	-25 ~ 25	-25 ~ 25	—
Cooling operating range °C	10 ~ 46	10 ~ 46	—	10 ~ 46	—
Domestic hot water operating range °C	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-15 ~ 37
Compressor	Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter	Rotary
Efficiency	A+++	A+++	A+++	A+++	—

Yutaki M



Yutaki T



Benefits

Yutaki air to water heat pumps

1

Your needs change, Yutaki adapts

The day to day needs of your customers will change from heating in winter to cooling in summer and sanitary hot water all year round. They may want to connect solar panels and heat their swimming pools. It's therefore important to have a system able to meet all these needs; able to connect to any style of emitter, new or existing: radiators, underfloor or fan coils.

Able to supply two different zones with different flow temperatures simultaneously such as underfloor downstairs and radiators upstairs.

2

Renewable energy, guaranteed savings



Air source heat pumps are considered one of the most energy efficient technologies around, on account that they produce more energy in heat than they consume in electricity.

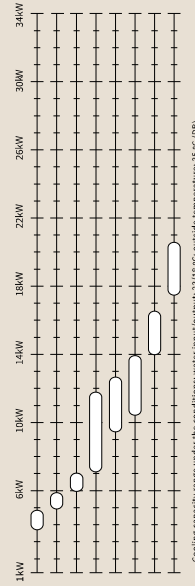
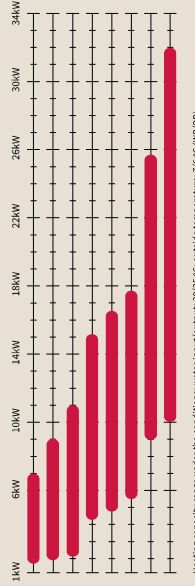
The Yutaki range has the maximum A+++ energy classification in all its ranges ensuring you make savings on your energy bills, reduce electricity consumption and the impact on the environment.

3

Hitachi now offers the widest range of R32 air source heat pumps on the market. The new 4.3 kW R32 monobloc is ideal for new builds

	Min - Max
RAS-2WHV/NP	1.85 - 7.0
RAS-2.5WHV/NP	1.99 - 9.0
RAS-3HRV/NP	2.1 - 11.0
RAS-4WHV/NPE	4.3 - 15.2
RAS-5WHV/NPE	4.8 - 16.7
RAS-6WHV/NPE	5.5 - 17.8
RAS-8WHV/NPE	9.0 - 25.5
RAS-10WHNPE	10.0 - 32.0

	Min-Max
RAS-2NHV/NP	3.8 - 4.9
RAS-2.5NHV/NP	5.0 - 5.8
RAS-3WHV/NP	6.0 - 7.0
RAS-4NHV/NPE	7.2 - 11.8
RAS-5NHV/NPE	9.5 - 12.6
RAS-6NHV/NPE	10.5 - 13.7
RAS-8WHNPE	14.0 - 16.4
RAS-10WHNPE	17.5 - 20.6



4 Hitachi high-efficiency Scroll Compressor

4



The Hitachi DC Inverter Scroll compressor has been designed to increase seasonal performance and reliability while reducing energy consumption.

The compressor is particularly efficient in intermediate seasons, offering high performance at low partial charges.

5 Proven quality

5



SG Ready

Hitachi heat pumps can be integrated into the smart energy grids of the future to help provide the low cost heating systems required to meet carbon reduction targets.

Proven quality

All heat pumps and water heaters in the European market are continuously tested by various certification schemes. These are usually the basis for qualifying for state subsidies. Hitachi heat pumps meet the high standards of the following quality accreditation schemes: Eurovent, MCS, Keymark, NF PAC, KIWA, EHPA.



Benefits

Yutaki air to water heat pumps

6 Savings from the very first bill

Performance (%)	Conventional gas boiler	Condensation gas boiler	Diesel boiler	Electricity (MWh/1000h)	Heat pump (Yutaki ASHP)
Energy consumption (kWh/year)	21,042.39	17,760.55	21,751.69	19,359.00	4,236.11
Energy cost (€/MWh)	0.0542	0.0542	0.08	0.15	0.15
Energy cost (€/year)	1,140.50	962.62	1,740.13	2,903.85	635.42
Gas emissions (kg CO ₂ /kWh)	0.252	0.252	0.311	0.331	0.357
Gas emissions (tonne CO ₂ /year)	5.30	4.48	6.76	6.40	1.51
Easy installation	Medium	Medium	High	Low	Medium
Maintenance	Medium	Medium	High	Low	Low
Additional energy costs compared to the heat pump installation	505.08	327.21	1,104.72	2,266.43	-

Estimate based on a 150 m² single-family property.
 Energy demand for heating = hot water: (kWh/m²): 129.06.
 Energy demand for heating = hot water: (kWh/year): 19,359.
 Information sources:
 - CO₂ emission values taken from the report prepared by the Ministry of Energy, Tourism and Digital Agenda.
 - Energy prices taken from the Energy Prices Report: Fuels, data correct at 20th December 2016.



7 Hitachi Experience

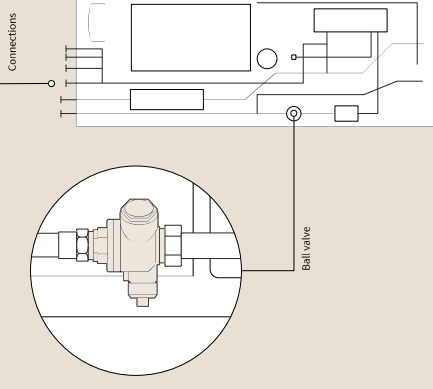
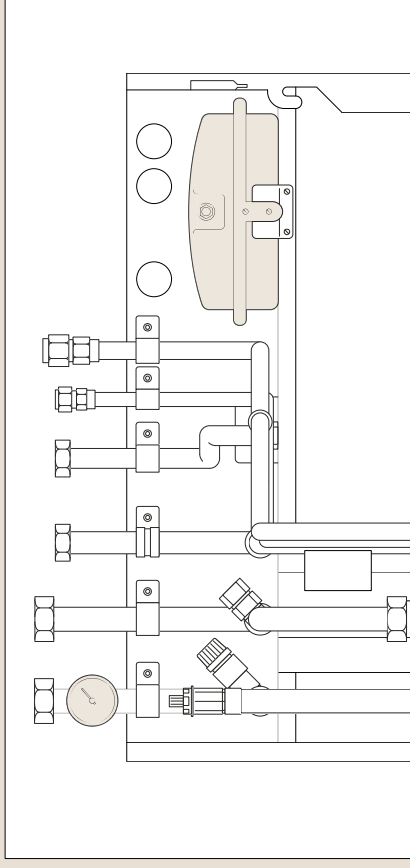
Hitachi has more than 60 years' experience in manufacturing heating equipment, with over 4.5 million ASHP systems produced and in excess of 400,000 customers throughout Europe. Our European factory produces the entire Yutaki ASHP range, designing it to meet the needs of the local European market. Its nearby location means we can control the whole design and manufacture process, thus guaranteeing the highest levels of quality, reliability and durability in all our equipment.

8 Optimised performance with the highest efficiency

The Yutaki range can provide heat with outside temperatures down to -25, uniquely to the market. It can also produce hot water up to 60°C without the need for a backup heater. Yutaki systems are designed to work without backup electrical heaters but some have them factory fitted and for others they are an optional extra. Even when fitted the user can use the simple control systems to disable them.

9 Simple installation with easy maintenance

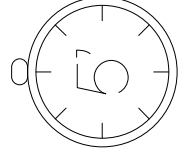
Unlike other models on the market, all Yutaki systems are designed for easy access to the components, thus allowing straightforward maintenance and ensuring cost savings.



- Filter Plus shut-off valve: Yutaki units are fitted with a ball valve containing an interchangeable cylindrical filter that is easy to inspect and remove for maintenance work. The individual valve has two important functions: to perfectly seal the ball valves and to carefully filter the fluid, with its high-reliability protecting all the components in Hitachi's Yutaki systems.
- Compared to traditional use of three components (one filter and two shut-off valves), the Filter Plus guarantees lower charge losses, in addition to the obvious benefits in terms of cost, installation and space.
- Accessibility: easy access to all components from the front of the machine.
- Pipes: the pipes are perfectly aligned at the back of the unit, making installation much easier compared to other manufacturers.

10

Yutaki, configured in under 5 minutes



Quick, easy configuration thanks to its intuitive new wizard set-up interface. Having the same control throughout the range means any Yutaki can be configured in just 5 minutes.

Benefits

Yutaki air to water heat pumps

11

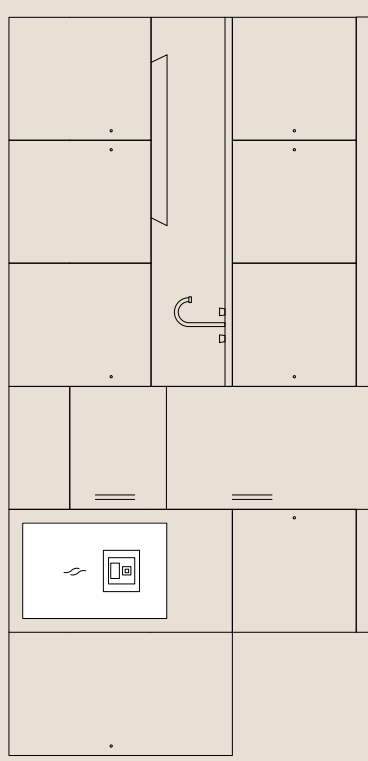
Easy, smart control



Hitachi has the same controller and functions for all ranges. Designed to be user-friendly, handling all system functions: heating, cooling, hot water and swimming pool settings. The control, with an LCD display and thermostat, centralises all applications without the need for external elements. It can be used for straightforward control of operations such as daily and weekly programming, managing water production temperature, operating modes, etc. It can also be used as a zone thermostat, and even combined with Hitachi's wireless thermostat.

12

Yutaki adapts to the needs of modern properties



All Yutaki models have been designed to ensure space is not a problem. Their compact size means they can be hidden away in confined spaces, even inside a kitchen cabinet. Yutaki models are compact and lightweight, designed for smaller surfaces, without sacrificing power and efficiency.

13

No matter where you are



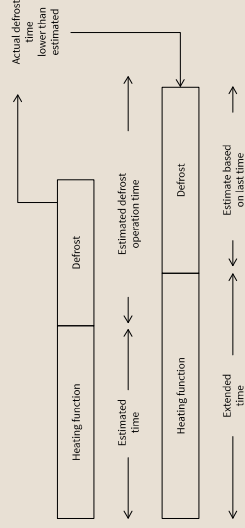
Turn the system on and off and regulate the temperature, or turn on pool heating from anywhere thanks to Yutaki's Hi-Box pack and the free Hi-Kumo app.

14

Smart defrost cycle

Optimised refrigerant cycle thanks to smart defrost control and a hot-gas bypass to the outdoor unit's heat exchanger, making defrosting virtually unnoticeable.

This exclusive improvement reduces time between defrosts, improves energy efficiency, and guarantees machine power at low temperatures, avoiding the need for the backup heating element.

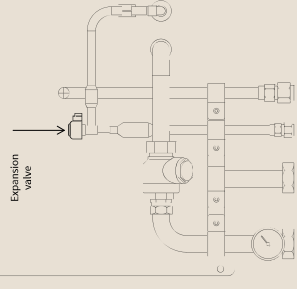


15

Additional benefits

Having an expansion valve in the indoor unit allows longer pipe installations while minimising energy losses in the cooling section.

Thanks to the longer pipe length, the Yutaki range can supply greater cooling power to the installation in the summer cycle without affecting the system's electrical consumption.



Resources

Yutaki air to water heat pumps

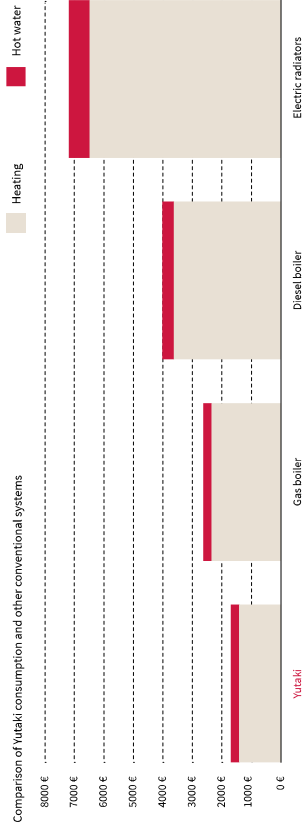
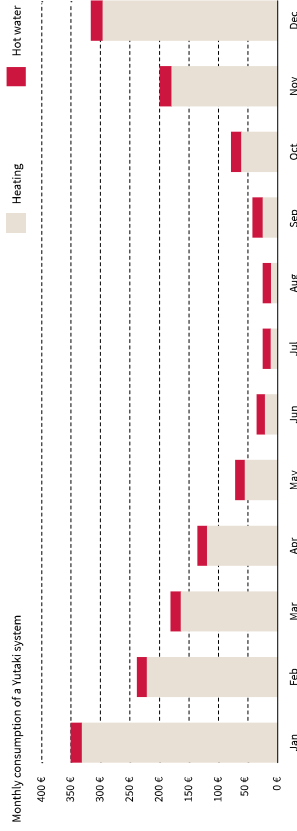
Hi-Toolkit for Home
Yutaki ASHP energy simulation and sizing software



This functional software can be used to quickly and easily select all the systems in Hitachi's Yutaki Air source heat pump range, generating a detailed report with information about the selected machine.

It has a complete database of the main cities in the UK & Ireland and their annual temperatures, in order to carry out an annual energy simulation for the 8,760 hours of the year. Once the simulation is complete, the software compares energy consumption and CO2 emissions with other conventional heating systems in order to evaluate the energy savings that can be achieved when installing Yutaki Air source heat pump equipment.

The website can be found at:
www.hitachi-hitoolkit.com/heating

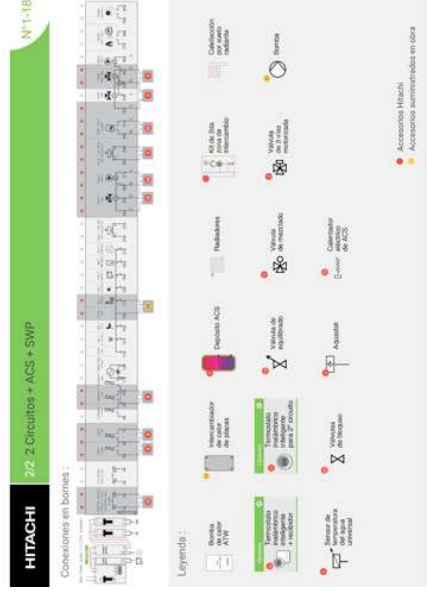
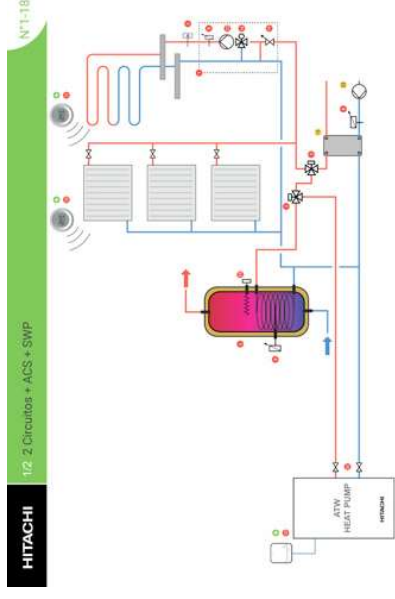


Hitachi has a free online tool for simplified hydraulic configurations of its whole Yutaki ASHP range.

The main elements of the installation can be configured in a few simple steps by simply answering a series of basic questions.

This also makes it easier to install the system, as it indicates directly where each sensor, pump and all other elements on the machine's connections board go.

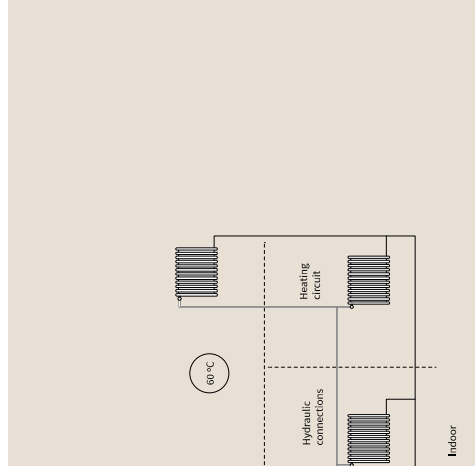
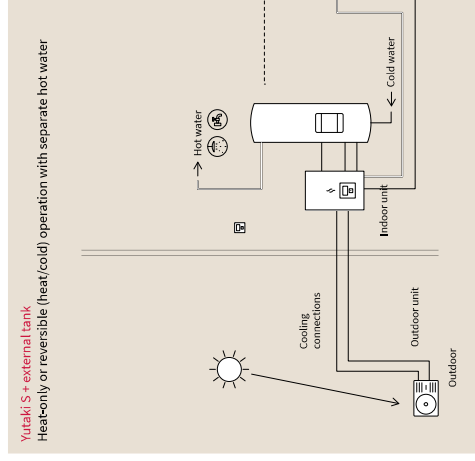
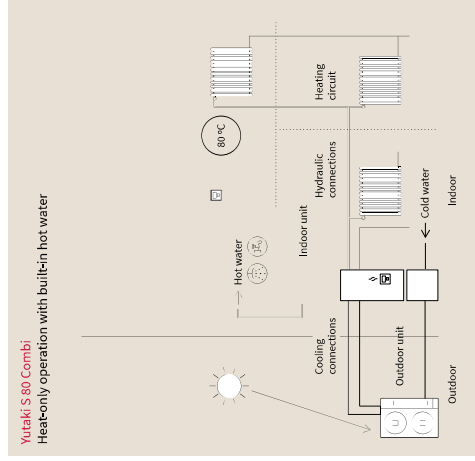
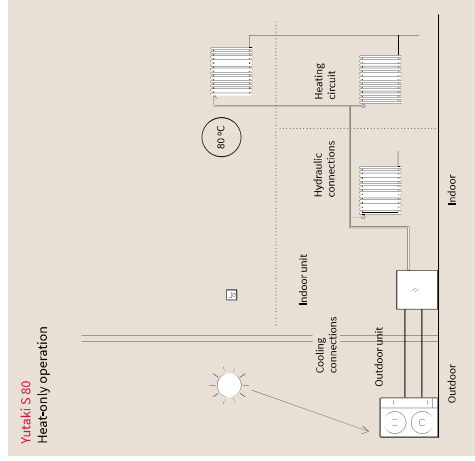
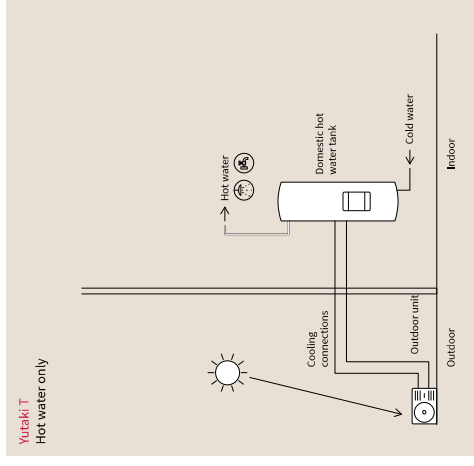
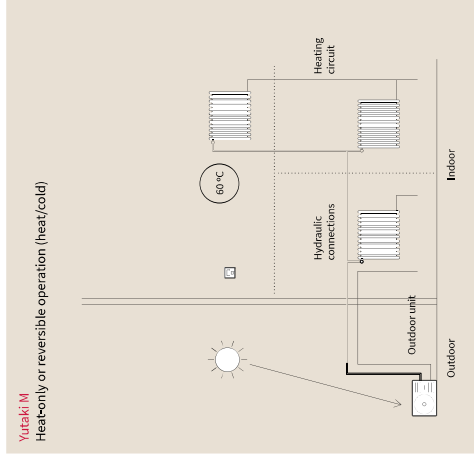
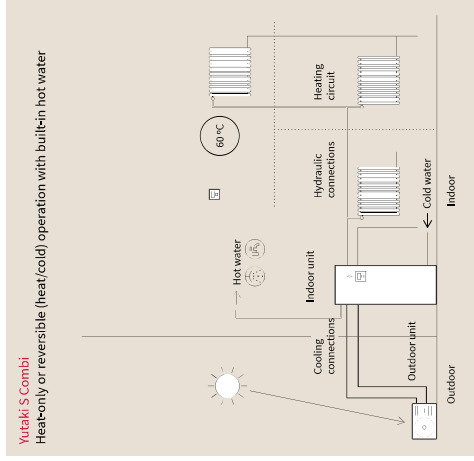
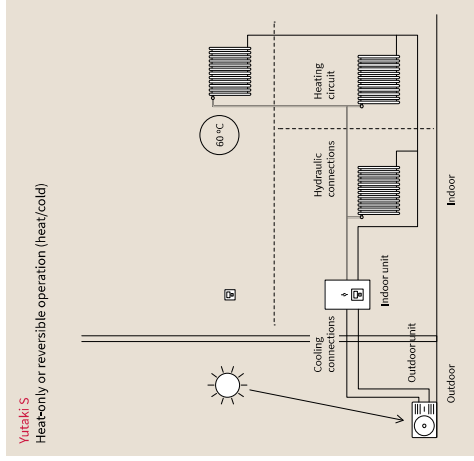
The website can be found at:
www.yutaki-applications.com/en



Multiple installation options Yutaki air to water heat pumps

All your projects have different requirements and so you need flexible solutions. The Yutaki range is adaptable to the needs of each project from the simplest heating only set up to more complex configurations.

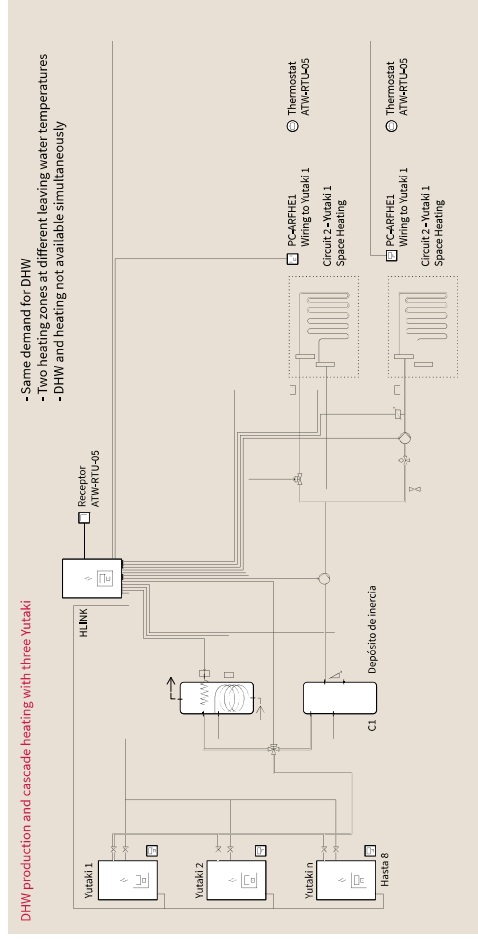
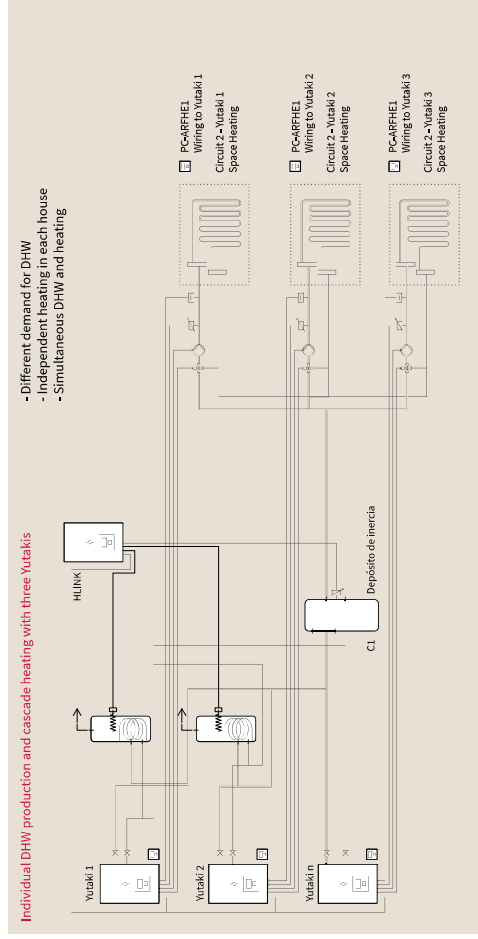
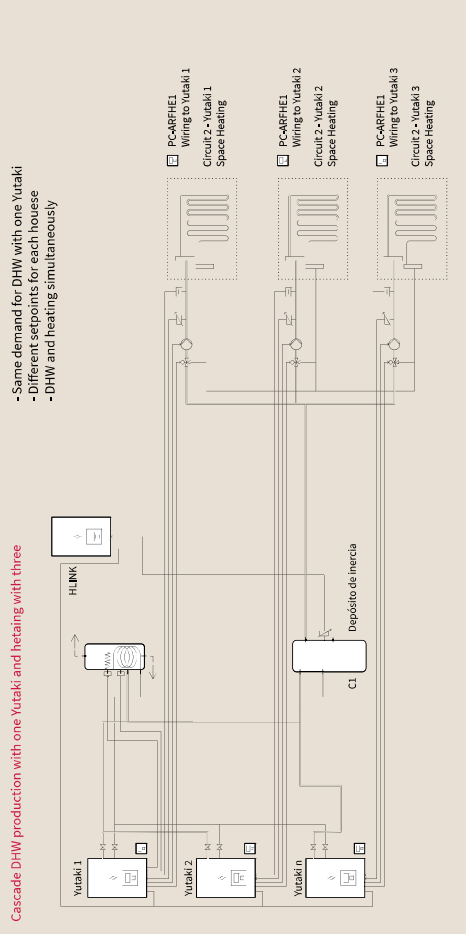
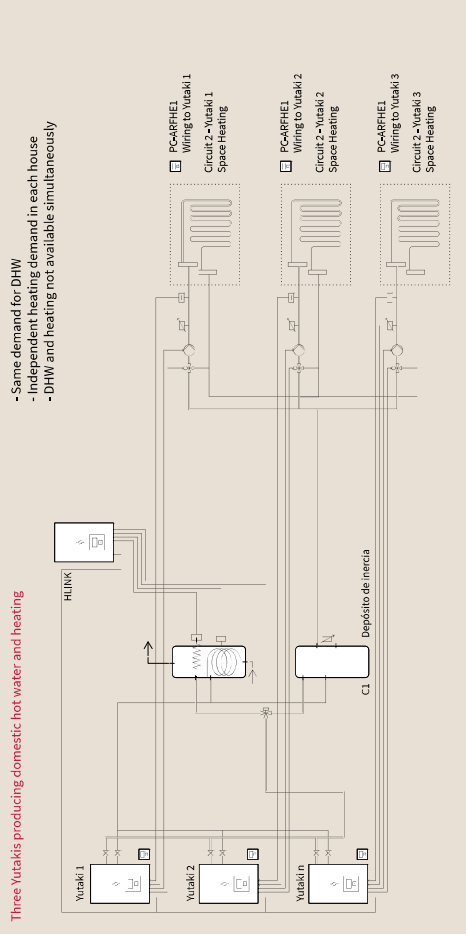
Below are some simplified configurations, as examples of the most common installations. Please contact our Technical Service team department if you would like further details about them or their components, or information about more complex configurations.



Multiple installation options Air source heat pumps with cascade control

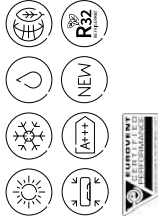
To cover the larger installations where a high thermal load is required an optional cascade controller can be installed (ATW-YCC-01). This intelligent controller manages up to

8 Yutaki ASHPs capable of producing 256 kW of renewable heat. Each unit works together as one to deliver the most efficient solution for your building whatever the requirements.



Yutaki S

Compact, highly efficient system: heating, hot water and cooling



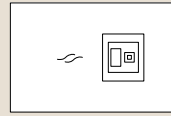
Satisfies all demands

Extensive range of outputs from 1.85 kW to 32.00 kW for heating, and from 3.80 kW to 20.60 kW for cooling, and from 3.80 kW to 20.60 kW for hot water. 23.50 and 32.00 kW models are unique on the market.

Compact dimensions

Its compact size and easy installation make it the perfect system for confined spaces. Models from 4.30 to 7.50 kW, even fitting in a kitchen cabinet. (Fig. 1)

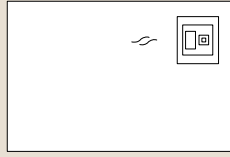
Fig. 1



Yutaki S Mini
4.30 kW - 7.50 kW

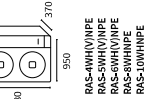
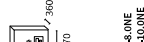
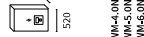
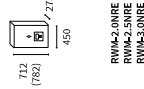


Yutaki S Medium
11.00 kW - 16.00 kW

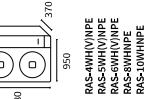


Yutaki S Big
20.00 kW - 24.00 kW

Indoor units



Outdoor units

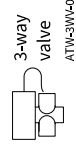


System	Yutaki S.2	Yutaki S.2.5	Yutaki S.3	Yutaki S.4	Yutaki S.5	Yutaki S.6	Yutaki S.8	Yutaki S.10
Capacity	1.85/4.30/7.00	1.85/6.00/8.60	2.10/8.00/11.00	4.30/11.00/16.70	4.80/14.00/17.80	5.50/16.00/20.00	9.00/20.00/25.50	10.00/24.00/32.00
Heating (Min/Max)	4.00/5.00	5.30/6.20	6.80/7.00	7.20/11.00	9.50/12.60	10.50/13.70	14.00/16.40	17.50/20.60
Cooling (Nom/Max)	0.82	1.25	1.74	2.20	2.97	3.50	4.65	5.59
Heating (Nom)	1.00	1.47	1.94	2.18	2.86	3.17	4.48	6.22
Cooling (Nom)	1.20/30V 50Hz	1.20/30V 50Hz	1.20/30V 50Hz	1.20/30V 50Hz	1.20/30V 50Hz	1.20/30V 50Hz	1.20/30V 50Hz	1.20/30V 50Hz
Electrical power	1.20/30V 50Hz	1.20/30V 50Hz	1.20/30V 50Hz	1.20/30V 50Hz	1.20/30V 50Hz	1.20/30V 50Hz	1.20/30V 50Hz	1.20/30V 50Hz
COP (Water 35°C, Ambient 7°C)	5.25	4.80	4.60	5.00	4.71	4.57	4.30	4.29
EER (Water 7°C, Ambient 35°C)	4.00	3.60	3.35	3.30	3.30	3.31	3.12	2.81
Energy rating at 35°C	A+++	A+++	A+++	A+++	A+++	A+++	A++	A+
Seasonal efficiency at 35°C, SCOP / ηs	4.93/1.81	4.58/1.77	4.25/1.75	4.75/1.89	4.45/1.76	3.90/1.52	3.83/1.52	3.60/1.42
Energy rating at 55°C	A++	A++	A++	A++	A++	A++	A+	A+
Seasonal efficiency at 55°C, SCOP / ηs	3.50/1.33	3.38/1.30	3.25/1.25	3.50/1.37	3.43/1.34	3.23/1.28	3.13/1.22	2.98/1.18
ESEER	3.36	3.26	3.26	3.33	3.29	2.84	3.56	3.32
SEER / ηs	4.11/1.62	4.13/1.62	3.95/1.55	4.93/1.94	4.83/1.90	4.70/1.85	4.29/1.69	4.06/1.59
Single-phase	-	-	-	-	-	-	-	-
Three-phase	-	-	-	-	-	-	-	-
Outdoor operating temperatures	-20 to 25	-20 to 25	-20 to 25	-25 to 25	-25 to 25	-25 to 25	-25 to 25	-25 to 25
Hot water (DB)	-20 to 35	-20 to 35	-20 to 35	-25 to 35	-25 to 35	-25 to 35	-25 to 35	-25 to 35
Cooling (DB)	10 to 46	10 to 46	10 to 46	10 to 46	10 to 46	10 to 46	10 to 46	10 to 46
Water production temperatures	20 to 55	20 to 55	20 to 55	20 to 60	20 to 60	20 to 60	20 to 60	20 to 60
Hot water	30 to 75	30 to 75	30 to 75	30 to 75	30 to 75	30 to 75	30 to 75	30 to 75
Cooling	5 to 22	5 to 22	5 to 22	5 to 22	5 to 22	5 to 22	5 to 22	5 to 22
Refrigerant pipe diameter	1/4-1/2	1/4-1/2	1/4-5/8	3/8-5/8	3/8-5/8	3/8-5/8	3/8-1	1/2-1
Water pipe diameter	1-1	1-1	1-1	1-1/4-1-1/4	1-1/4-1-1/4	1-1/4-1-1/4	1-1/4-1-1/4	1-1/4-1-1/4
Indoor unit	RWM-2.ONRE	RWM-2.5HRE	RWM-3.ONRE	RWM-4.ONRE	RWM-5.ONRE	RWM-6.ONRE	RWM-10.ONRE	RWM-10.ONRE
Minimum water volume of the installation	1	28	28	28	38	46	55	76
Water flow (litre-litre/Min-Max)	0.50-0.77-1.90	0.60-1.03-2.00	0.60-1.29-2.10	1.00-1.80-2.90	1.10-2.41-3.00	1.2-2.75-3.44	2.00-3.44-4.60	2.20-4.13-4.60
Emergency heating element in primary	3/1-1-1	3/1-1-1	3/1-1-1	3/2-2-2	3/2-2-2	3/2-2-2	3/3-3-3	3/3-3-3
Sound power (dB(A))	37	37	37	37	39	39	39	47
Dimensions (H x W x D) (With connections) (kW/D)	713/750/450x275	713/750/450x275	713/750/450x275	800/850/520x380	800/850/520x380	800/850/520x380	800/850/520x380	800/850/520x380
Weight	35	36	37	46	48	48	60	62
Maximum current	A	28.9	28.9	28.9	43.4	43.4	43.4	-
Three-phase	A	-	-	-	24.2	24.2	24.2	29.2
Outdoor unit	RAS-2WHWP	RAS-2.5HWP	RAS-3WHWP	RAS-4WHNPE	RAS-5WHNPE	RAS-6WHNPE	RAS-10WHNPE	RAS-10WHNPE
Air flow	2326	2526	2382	2839	5400	5400	6000	6000
Sound pressure	46	47	50	49	50	50	59	60
Sound power	61	63	64	64	65	67	73	74
Minimum pipe length	m	3	3	3	5	5	5	5
Maximum height difference (highest OU/lowest OU)	m	50	50	75	75	75	75	70
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
Refrigerant	R32	R32	R32	R410A	R410A	R410A	R410A	R410A
Refrigerant charge (length without additional charge)	1.2 (10)	1.3 (10)	1.3 (10)	3.3 (15)	3.4 (15)	3.4 (15)	5.0 (15)	5.3 (15)
Additional refrigerant charge	g/m	15	15	15	60	60	60	65
Dimensions (H x W x D)	629x799x300	629x799x300	629x799x300	629x799x300	629x799x300	629x799x300	629x799x300	629x799x300
Weight	kg	45	45	44	103	103	103	137
Maximum current	Single-phase	13	13	17	30	30	30	-
Three-phase	-	-	-	14	14	14	16	24

Compatible controls and accessories:



Remote control
PC-ARFHE
Included



3-way valve
ATW-3WV-01

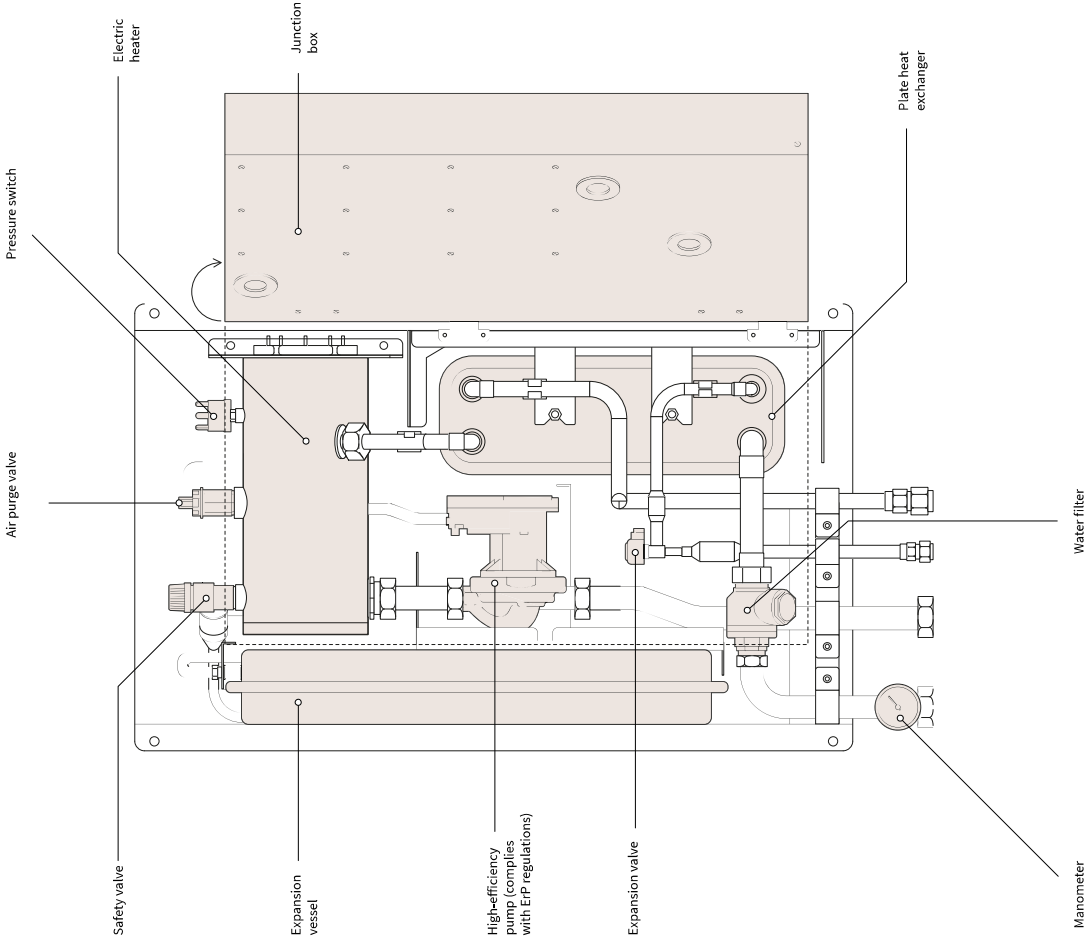


Cooling Kit
Can be used to switch machine operation to cold.
ATW-CK-01
ATW-CK-02
ATW-CK-03



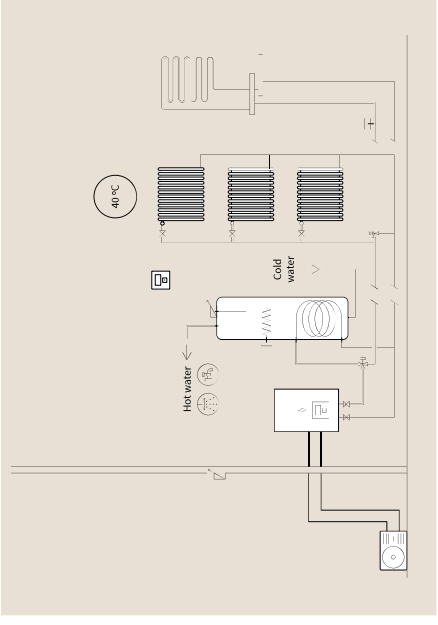
2nd temperature kit
For wall-mounting
ATW-2TK-07

Internal design

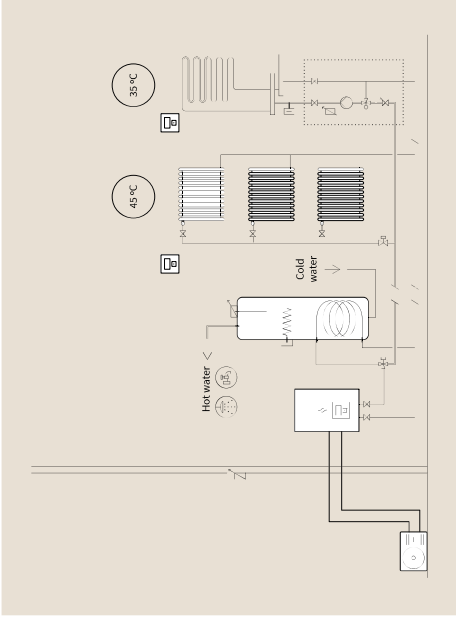


Configurations

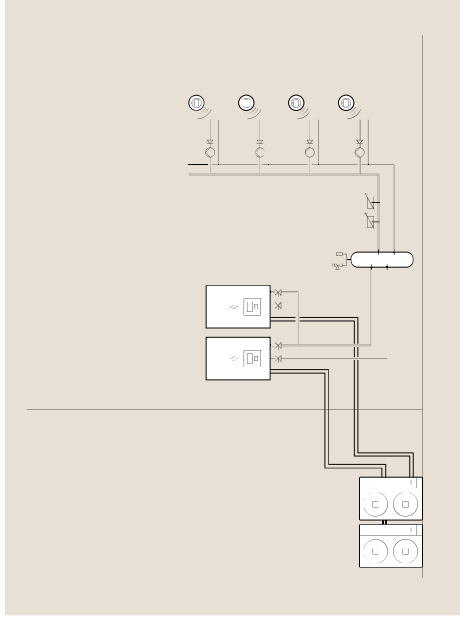
Radiator and underfloor heating at the same temperature; one zone + hot water by external tank.



Radiator and underfloor heating at different temperatures; two zones + hot water by external tank.

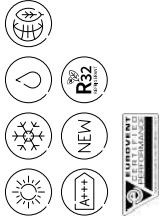


Cascade operation. Heating or cooling.



Yutaki S Combi

Compact all-in-one system: heating, hot water and cooling with integrated stainless steel tank



Extensive range of models

The Yutaki S Combi is designed for any type of installation thanks to its wide range of models. From 1.85 kW to 17.80 kW for heating, and from 3.80 kW to 13.70 kW for cooling.

Space-saving and ultraquiet

The Yutaki S Combi can be installed in the kitchen thanks to its compact size and low noise level.
The large space saving of up to 70 % compared to other system is due to the innovative hot water tank integrated into the indoor unit.

Choose your size

The only compact model fitted with a hot water tank with backup heating element for emergency hot water, activated with a single button.
Moreover, the 2nd temperature kit can be incorporated into the 200 L unit.

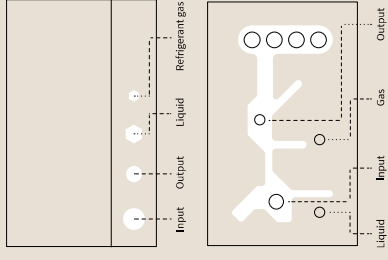
Easy installation and maintenance

Compared to a split system (indoor unit-hot water tank), the Yutaki S Combi allows fast installation with minimal costs since:
- All water and refrigerant connections are aligned at the top. (Fig.1)
- Most components are accessible from the front of the unit.
- Easy access to information from the LCD control without having to open the indoor unit.

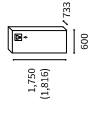
Stainless steel tank with built-in heating element

The only compact model fitted with a hot water tank with backup heating element for emergency hot water, activated with a single button.

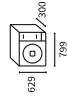
Fig. 1



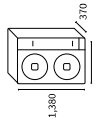
Indoor units



RWD-2-ONRWSE RWD-4-ONRWSE RWD-5-5NRWSE RWD-6-ONRWSE



RAS-2-5WHVWRP RAS-2-5WHVWRP RAS-3-5WHVWRP



RAS-4-6WHVWPE RAS-5-6WHVWPE RAS-6-6WHVWPE

Outdoor units

Yutaki S Combi

System

Capacity	Yutaki S 2 Combi/Yutaki S 2.5 Combi		Yutaki S 3 Combi		Yutaki S 4 Combi		Yutaki S 5 Combi		Yutaki S 6 Combi	
Heating (Min/Nom/Max) kW	1.85/4.30/6.50	1.85/6.00/8.60	2.10/8.00/11.00	4.30/11.00/15.20	4.80/14.00/16.70	5.50/16.00/17.80				
Cooling (Nom/Max) kW	4.00/5.00	5.30/6.00	6.50/7.00	7.20/11.80	9.50/12.60	10.50/13.70				
Heating (Nom) kW	0.82	1.25	1.65	2.20	2.97	3.50				
Cooling (Nom) kW	1.00	1.47	1.94	2.18	2.68	3.17				
Electrical power	1 ~ 230V 50Hz		1 ~ 230V 50Hz		1 ~ 230V 50Hz		3N ~ 400V 50 Hz		3N ~ 400V 50 Hz	

COP (Water 35°C, Ambient 7°C)	5.25	4.80	4.60	5.00	4.71	4.57				
EER (Water 7°C, Ambient 35°C)	3.12	3.60	3.35	3.54	3.54	3.31				
Hot water energy rating (Profile L-200)	A+	A+	A+	A+	A+	A+				
Seasonal efficiency hot water, COP _{SWH} / % (Profile L-200)	3.30/132	3.30/132	3.30/132	3.25/130	3.25/130	3.25/130				
Hot water energy rating (Profile XL-260)	A+	A+	A+	A+	A+	A+				
Seasonal efficiency hot water, COP _{SWH} / % (Profile XL-260)	3.40/136	3.40/136	3.40/136	3.35/134	3.35/134	3.35/134				
Energy rating at 35°C	A+++	A+++	A+++	A+++	A+++	A+++				
Seasonal efficiency at 35°C, SCOP / %	4.93/181	4.93/177	4.25/175	4.80/189	4.48/176	3.90/153				
Energy rating at 55°C	A++	A++	A++	A++	A++	A++				
Seasonal efficiency at 55°C, SCOP / %	3.58/133	3.38/130	3.25/125	3.50/137	3.43/134	3.23/126				
ESEER	3.26	3.26	3.26	3.26	3.29	2.84				
SEER / %	4.11/162	4.13/162	3.95/155	4.83/194	4.83/190	4.70/185				

Outdoor operating temperatures	Hot water (DB) °C	-20 to 25	-20 to 25	-20 to 25	-25 to 25	-25 to 25	46				
	Cooling (DB) °C	-20 to 35	-20 to 35	-20 to 35	-25 to 35	-25 to 35	46				
Water production temperatures	Hot water °C	10 to 46	10 to 46	10 to 46	10 to 46	10 to 46	46				
	Hot water °C	20 to 60	20 to 60	20 to 60	20 to 60	20 to 60	60				
	Hot water °C	30 to 75	30 to 75	30 to 75	30 to 75	30 to 75	75				
	Hot water °C	5 to 22	5 to 22	5 to 22	5 to 22	5 to 22	22				
Refrigerant pipe diameter	Liquid-gas inches	1/4-1/2	1/4-3/8	1/4-3/8	3/8-5/8	3/8-5/8	3/8-5/8				
Water pipe diameter	Input-output inches	1-1	1-1	1-1	1-1/4-1-1/4	1-1/4-1-1/4	1-1/4-1-1/4				
Hot water pipe diameter	Input-output inches	3/4-3/4	3/4-3/4	3/4-3/4	3/4-3/4	3/4-3/4	3/4-3/4				

Indoor unit	28	28	28	38	46	55					
Minimum water volume of the installation	28	28	28	38	46	55					
Water flow (Min-Nom-Max)	m ³ /h	0.50-0.77-1.80	0.60-1.03-1.90	0.60-1.03-1.90	1.00-1.89-2.70	1.10-2.41-2.80	1.20-2.75-2.80				
Emergency heating element in primary	n°/kW	3/1-1-1	3/1-1-1	3/1-1-1	3/2-2-2	3/2-2-2	3/2-2-2				
Hot water emergency heating element	n°/kW	1/2-7	1/2-7	1/2-7	1/2-7	1/2-7	1/2-7				
Sound power	dB(A)	37	37	37	39	39	39				
Dimensions (H (with connections) x W x D)	mm	1,750 (L) x 600 (W) x 733 (H)	1,750 (L) x 600 (W) x 733 (H)	1,750 (L) x 600 (W) x 733 (H)	1,750 (L) x 940 (W) x 370 (H)	1,750 (L) x 940 (W) x 370 (H)	1,750 (L) x 940 (W) x 370 (H)				
Tank weight 200 / 260 / 260 solar	kg	121/131/133	127/132/132	127/132/132	120/130/130	127/132/132	127/132/132				
Solar pipe diameter (260 solar tank)	inches	1/2-1/2	1/2-1/2	1/2-1/2	1/2-1/2	1/2-1/2	1/2-1/2				
Solar exchange surface (260 solar tank)	m ²	0.37	0.37	0.37	0.37	0.37	0.37				
Maximum current	A	27	27	27	27	27	27				
Single-phase	A	-	-	-	-	-	-				
Three-phase	A	-	-	-	-	-	-				

Outdoor unit	RAS-2-5WHVWRP	RAS-2-5WHVWRP	RAS-3-5WHVWRP	RAS-3-5WHVWRP	RAS-4-6WHVWPE	RAS-5-6WHVWPE	RAS-6-6WHVWPE				
Air flow	m ³ /h	2,526	2,526	2,882	4,800	5,400	6,000				
Sound pressure	dB(A)	46	47	50	49	50	50				
Sound power	dB(A)	61	63	64	64	64	65				
Minimum pipe length	m	3	3	3	3	5	5				
Maximum pipe length	m	50	50	50	50	75	75				
Maximum height difference (Highest OU/lowest OU)	m	30/20	30/20	30/20	30/20	30/20	30/20				
Compressor	Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter				
Refrigerant	R32	R32	R32	R410A	R410A	R410A	R410A				
Refrigerant charge (length without additional charge)	kg (m)	1.2 (10)	1.3 (10)	1.3 (10)	3.3 (15)	3.4 (15)	3.4 (15)				
Additional refrigerant charge	g/m	15	15	15	60	60	60				
Dimensions (H x W x D)	mm	600x792x400	600x792x400	600x792x400	1,380x950x370	1,380x950x370	1,380x950x370				
Weight	kg	45	45	44	103	103	103				
Maximum current	Single-phase/Three-phase	13/-	13/-	17/-	30/14	30/14	30/16				

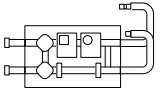
Compatible controls and accessories:



Remote control
PC-ARFHE
Included



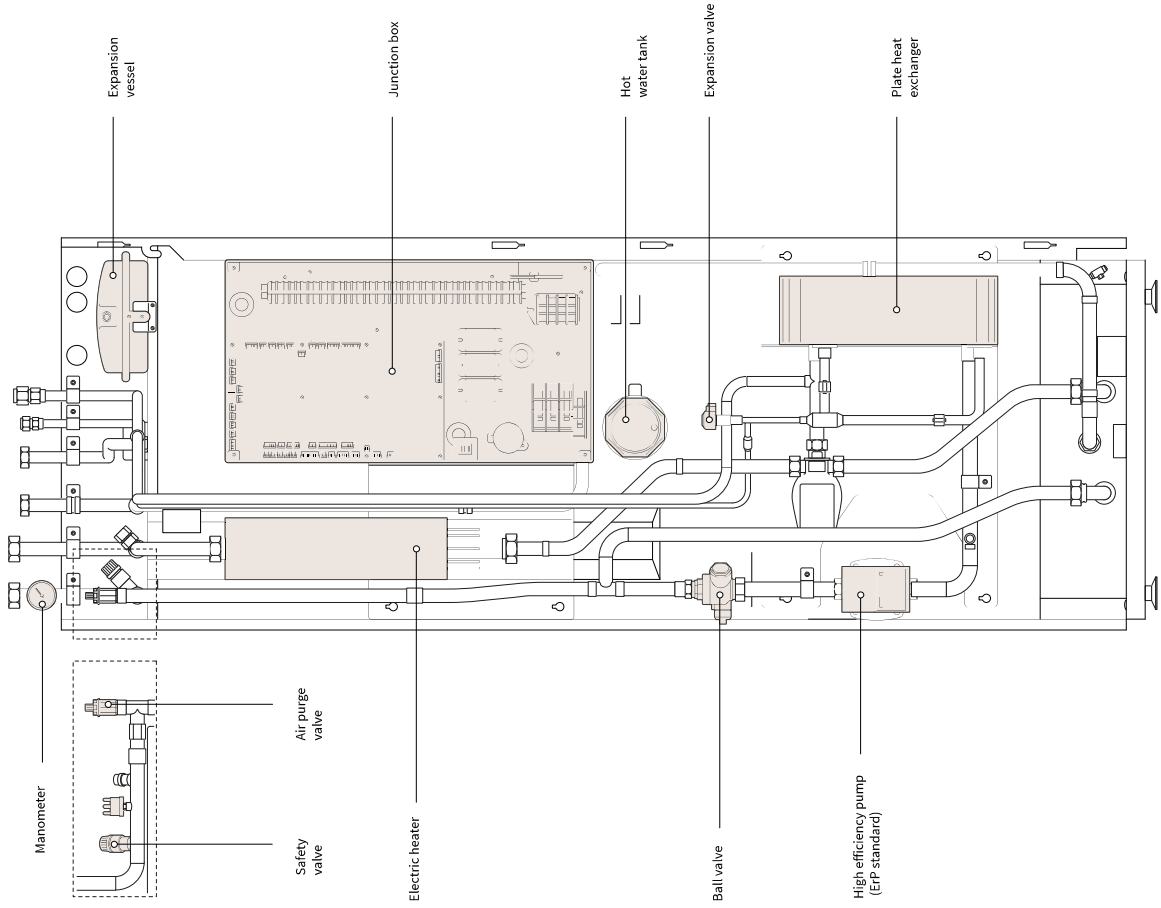
Cooling Kit
ATW-CAM-01
Can be used to switch machine operation to cold.



2nd temperature kit
ATW-2TK-05
Only compatible with built-in Yutaki S Combi 200L.

ATW-2TK-07

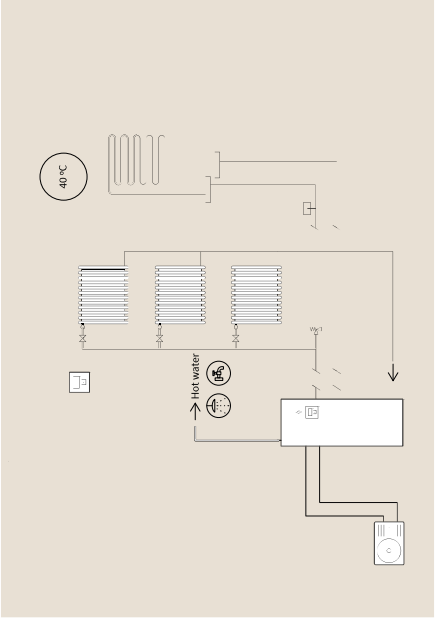
For wall-mounting. Compatible with the entire Yutaki range



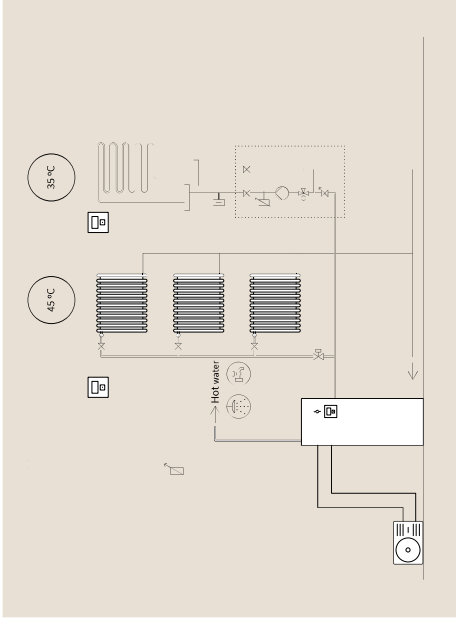
Yutaki S Combi

Configurations

Radiator and underfloor heating at the same temperature; one zone + hot water by built-in tank.



Radiator and underfloor heating at different temperatures; two zones + hot water by built-in tank.

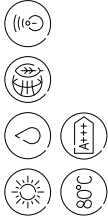


Yutaki ASHP



Yutaki S80

Water temperature up to 80 °C for heating and hot water without an electric heater



Maximum efficiency with smart cascade cycle

Yutaki S80 uses two refrigerants: R410A and R134a. Thanks to the unique **Smart Cascade cycle**, the equipment automatically adjusts operation according to heating requirements. When the heating requirement is lower (water temperature up to 53 °C), it only uses the R410A refrigerant; when this requirement increases (water temperature up to 80 °C), it activates the second cycle of R134a refrigerant. Consumption is under control and comfort is guaranteed at all times. (Fig. 1)

Fig. 1: Smart Cascade cycle configuration

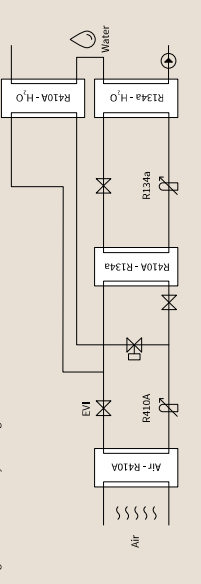
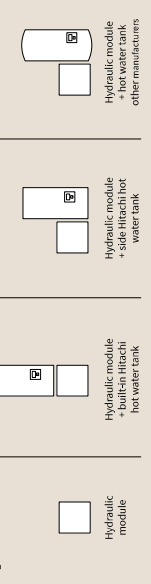


Fig. 2



Adapted to each installation

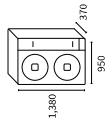
The Yutaki S80 is available in two models, adapting to any needs which may arise: one for heating, and one for heating and hot water. There are two tanks, with 200 and 260-litre capacity, that can be installed as a built-in unit on or next to the indoor unit. (Fig. 2) *

Indoor units



- RWH-4.0VWFE
- RWH-5.0VWFE
- RWH-6.0VWFE

Outdoor units



- RAS-4WHVWPE
- RAS-5WHVWPE
- RAS-6WHVWPE

* Two tank options not available in the UK

Yutaki S80

System	Yutaki S80 4	Yutaki S80 5	Yutaki S80 6
Capacity	4,300/11,000/15,200	4,800/14,000/18,700	5,500/16,000/17,800
Consumption	2.12	2.90	3.43
Electrical power	1 ~ 230V/50Hz 3N ~ 400V/50 Hz	1 ~ 230V/50Hz 3N ~ 400V/50 Hz	1 ~ 230V/50Hz 3N ~ 400V/50 Hz
COP	5.00	4.71	4.57
Energy rating at 35°C	A+++	A++	A++
Seasonal efficiency at 35°C, SCOP / η _s	4.75/187	4.43/174	3.88/152
Energy rating at 55°C	A++	A++	A++
Seasonal efficiency at 55°C, SCOP / η _s	3.63/142	3.35/131	3.23/126
Outdoor operating temperatures	-25 to 25	-25 to 25	-25 to 25
Hot water (DB) °C	-25 to 35	-25 to 35	-25 to 35
Heating °C	20 to 80	20 to 80	20 to 80
Hot water °C	30 to 75	30 to 75	30 to 75
Refrigerant pipe diameter	3/8-5/8	3/8-5/8	3/8-5/8
Water pipe diameter	1-1/4 - 1-1/4	1-1/4 - 1-1/4	1-1/4 - 1-1/4
Hot water pipe diameter	3/4-3/4	3/4-3/4	3/4-3/4
Input-output	inches	inches	inches
Indoor unit (without tank)	RWH-4.0VWFE	RWH-5.0VWFE	RWH-6.0VWFE
Indoor unit (with hot water tank)	RWH-4.0VWFE	RWH-5.0VWFE	RWH-6.0VWFE
Minimum water volume of the installation	l	50	50
Water flow	(Min/Nom/Max)	ms/h	ms/h
Sound power	dB(A)	57	58
Refrigerant	R-134A	R-134A	R-134A
Refrigerant charge	kg	1.90	1.90
Compressor	Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter
Dimensions model S80 (H x W x D) (with connections) x W x D	751(802)x600x623	751(802)x600x623	751(802)x600x623
Dimensions model S80 COH(H) (H x W x D) (with connections)	751x600x623(680)	751x600x623(680)	751x600x623(680)
Model weight without tank	kg	125	129
Single-phase	kg	127	136
Three-phase	kg	135	139
Model weight with tank	kg	137	146
Three-phase	kg	137	146
Maximum current	Single-phase	36	40
Three-phase	22	22	22
Outdoor unit	RAS-4WHVWPE	RAS-5WHVWPE	RAS-6WHVWPE
Air flow	m ³ /h	4,800	5,400
Sound power	dB(A)	49	50
Sound power	dB(A)	61	63
Minimum pipe length	m	5	5
Maximum pipe length	m	75	75
Maximum height difference (highest OU/lowest OU)	m	30/20	30/20
Compressor	Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter
Refrigerant	R410A	R410A	R410A
Refrigerant charge (length without additional charge)	kg (m)	3.3 (15)	3.4 (15)
Additional refrigerant charge	g/m	60	60
Dimensions (H x W x D)	mm	1,380x950x370	1,380x950x370
Weight	kg	103	103
Maximum current	20	25	25
	14	14	16

*The control must be purchased when installing the tankless version.

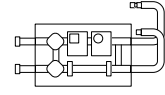
Compatible controls and accessories:



Remote control
PC-ARFHE



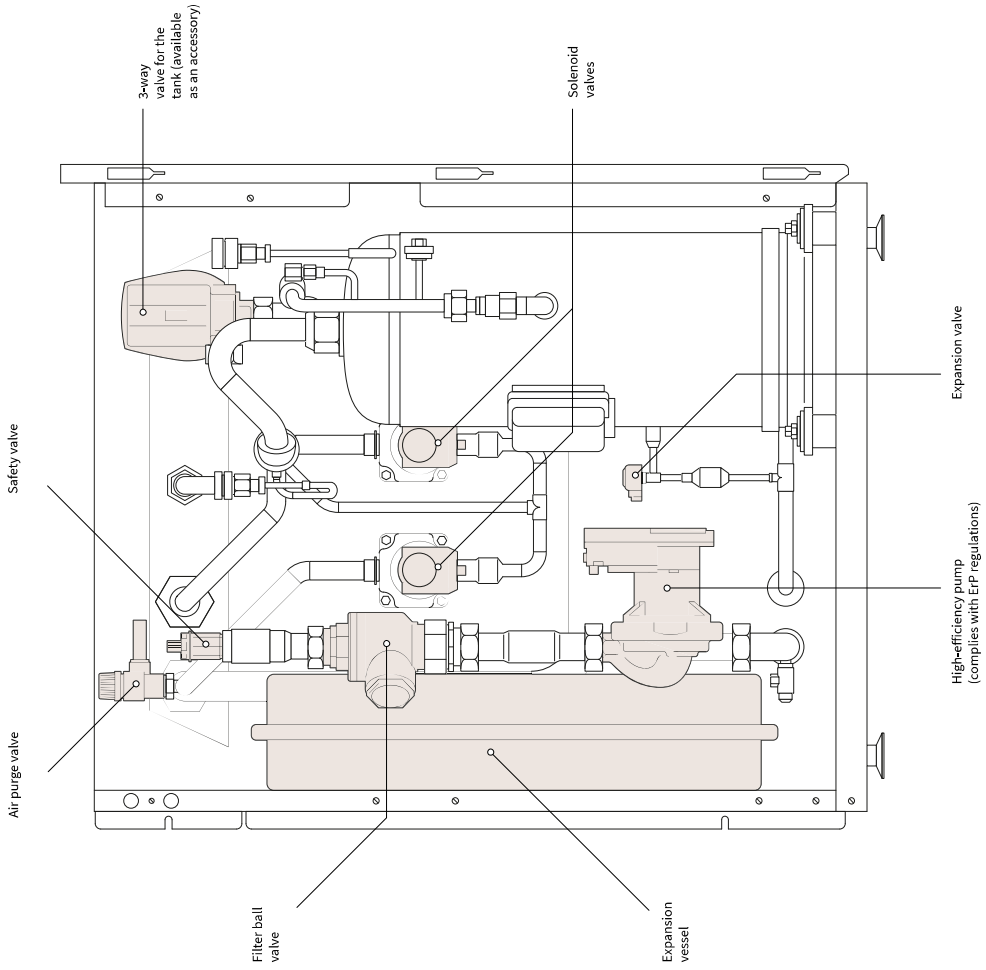
3-way valve
ATW-3WV-01



2nd temperature kit
ATW-2T-07
For wall-mounting

Others:
- Heating element: WEH-DE.
- Price: E660
- Kit for installation with tank next to the S80 indoor unit. mod. ATW-FMP-02

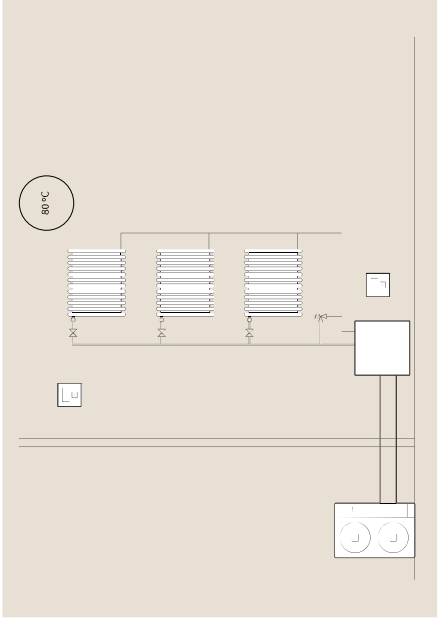
Internal design



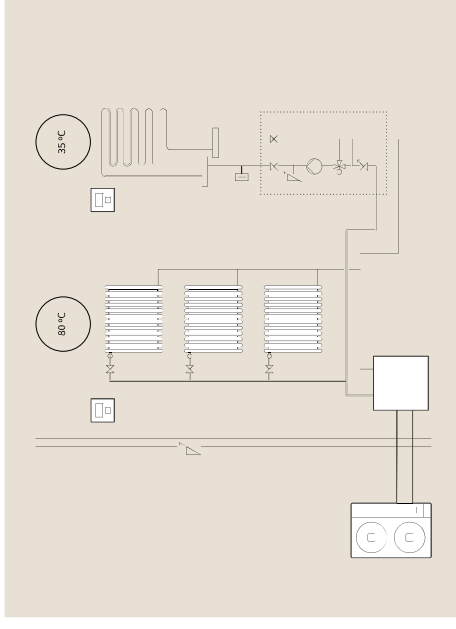
Its flexible design allows different installation possibilities and flexible pipe connection.

- Hydraulic module.
- Hydraulic module + built-in Hitachi hot water tank (not available in the UK).
- Hydraulic module + Hitachi hot water tank on one side (not available in the UK).
- Hydraulic module + third-party hot water tank.

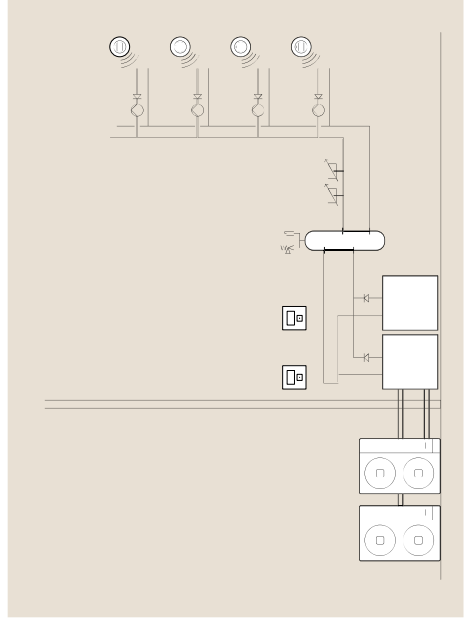
Configurations



Heating, one circuit.



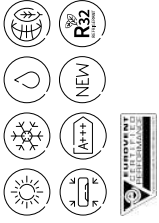
Heating, radiators and underfloor heating at different temperatures; two zones.



Heating, cascade operation.

Yutaki M

Compact unit for heating, hot water and cooling without refrigeration connections



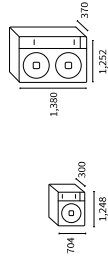
Perfect for small spaces

The Hitachi monobloc system is designed for installation in any type of property, especially homes with limited space.

Being a compact system with a single unit installed outdoors means the available space indoors remains unchanged.

Easy to install

The monobloc system ensures all functions are achieved with a single outdoor unit, bringing significant cost savings. Furthermore, installation time is much shorter since practically no pipes are required, there are no cooling connections, and the product is pre-charged at the factory.



RAS-M-2VRE
RAS-M-3VRE

RAS-M-4VINE
RAS-M-5VINE
RAS-M-6VINE

Fig. 1

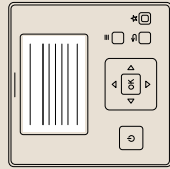
Heating and cooling in a single system all year round

By combining the Yutaki M and the Cooling Kit, the accessory used to reverse heat pump operation ensures maximum comfort can be enjoyed all year round. The system therefore offers heating in winter and cooling in summer, all with straightforward installation.

Easy, smart control

The control with LCD screen can be used for daily and weekly programming, managing water production temperature, operating modes, etc.

(Fig. 1)



PC-ARFHE control

Yutaki M

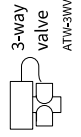
Name of the system	Yutaki M 2	Yutaki M 3	Yutaki M 4	Yutaki M 5	Yutaki M 6
Outdoor unit	RAS-M-2VRE	RAS-M-3VRE	RAS-M-4VINE	RAS-M-5VINE	RAS-M-6VINE
Capacity	1.85/4.30/6.50	2.18/6.09/11.00	4.30/11.00/15.20	4.80/14.00/16.70	5.90/16.00/17.80
	4.00/5.00	6.50/7.00	7.20/11.80	9.50/12.60	10.50/13.70
Consumption	0.82	1.74	2.20	2.97	3.50
	1.00	1.94	2.18	2.68	3.17
Electrical power	1-230V 50Hz	1-230V 50Hz	1-230V 50Hz	1-230V 50Hz	1-230V 50Hz
	-	-	3N-400V 50 Hz	3N-400V 50 Hz	3N-400V 50 Hz
COP (Water 35°C, Ambient 7°C)	5.25	4.60	5.00	4.71	4.57
EER (Water 7°C, Ambient 35°C)	4.00	3.35	3.54	3.71	3.31
Energy rating at 35°C	A++	A++	A++	A++	A++
Seasonal efficiency at 35°C, SCOP / %	4.93/181	4.25/177	4.75/187	4.45/175	3.90/152
Energy rating at 55°C	A++	A++	A++	A++	A++
Seasonal efficiency at 55°C, SCOP / %	3.58/133	3.25/125	3.46/136	3.40/133	3.30/125
ESEER	3.36	3.26	3.33	3.29	2.84
SEER / %	4.11/162	3.59/155	4.92/194	4.87/190	4.70/185
	-	-	5.05/199	4.92/194	4.78/188
Outdoor operating temperatures	-20 to 25	-20 to 25	-25 to 25	-25 to 25	-25 to 25
Hot water (DB)	-20 to 35	-20 to 35	-25 to 35	-25 to 35	-25 to 35
Cooling (DB)	10 to 46	10 to 46	10 to 46	10 to 46	10 to 46
Heating	20 to 60	20 to 60	20 to 60	20 to 60	20 to 60
Hot water	30 to 75	30 to 75	30 to 75	30 to 75	30 to 75
Cooling	5 to 22	5 to 22	5 to 22	5 to 22	5 to 22
Maximum current	12.7	17.2	30.8	30.8	30.8
	-	-	14.3	14.3	16.3
Water pipe diameter	1-1	1-1	1-1/4 - 1-1/4	1-1/4 - 1-1/4	1-1/4 - 1-1/4
Minimum water volume of the installation	28	28	38	46	55
Water flow	0.56-0.77-1.90	0.60-1.29-2.10	1.00-1.89-2.80	1.10-2.41-3.00	1.20-2.75-3.00
Air flow	2,526	2,882	4,800	5,400	6,000
Sound power	61	69	64	65	69
Compressor	Scroll DC Inverter	Rotary DC Inverter	Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter
Refrigerant	R32	R32	R410A	R410A	R410A
Refrigerant charge	1.20	1.30	2.80	3.10	3.10
Dimensions (HxWxD)	704 x 1,248 x 300	704 x 1,248 x 300	1,380x1,252x370	1,380x1,252x370	1,380x1,252x370
Weight	76	78	131	133	133
	-	-	130	132	132

*The control must be purchased for operation.

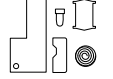
Compatible controls and accessories:



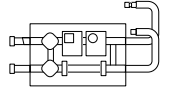
Remote control
PC-ARFHE



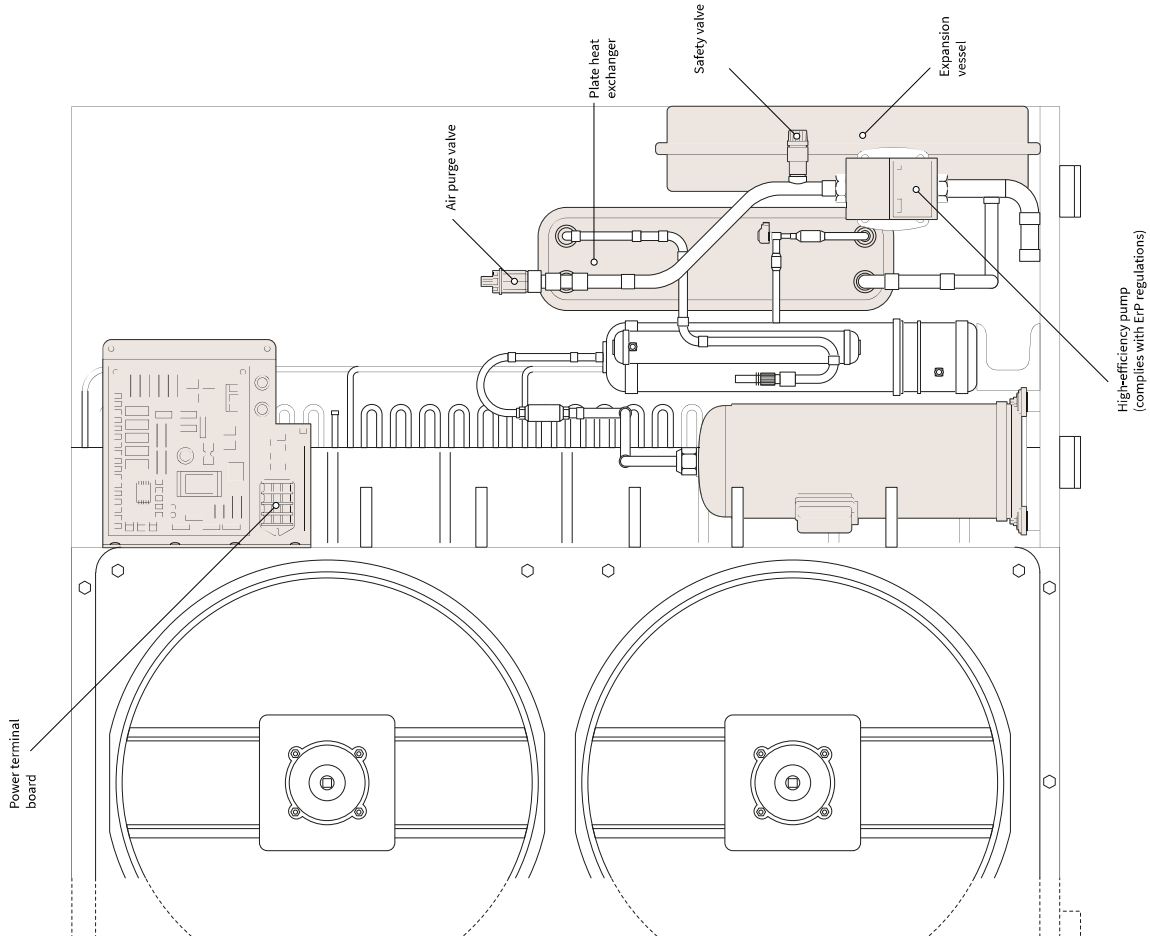
3-way valve
ATW-3WV-01



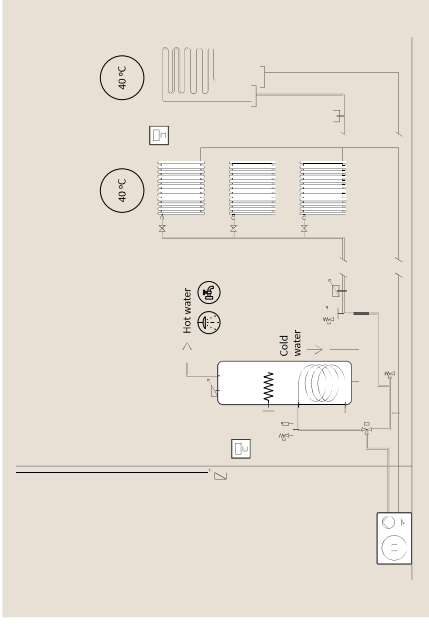
Cooling Kit
ATW-CKM-01
Can be used to switch machine operation to cold.



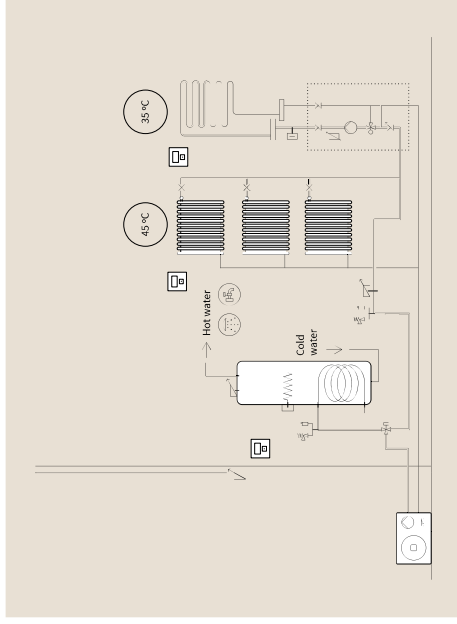
2nd temperature kit
ATW-2TK-07
For wall-mounting



Radiator and underfloor heating at the same temperature; one zone + hot water by external tank.



Radiator and underfloor heating at different temperatures; two zones + hot water by external tank.



Yutaki T

The simplest and most economical way to produce hot water



Maximum comfort, minimum consumption

The unit absorbs heat from the outdoor air, and transfers it to the tank to heat the water up to 55 °C. This achieves **savings of 70%** compared to traditional heaters.

Greater durability

Yutaki tanks are now coated with duplex stainless steel, a material that offers greater resistance to high temperatures and corrosion.

More ecological

By using renewable energy to heat the water, it does not emit CO₂, and allows smart management of operation thanks to the weekly programmable clock.

Bespoke tank

The Yutaki T range is made up of two models, 190 and 270 litre-capacity, tailored to the needs of each home. The compact 190 litre model can be installed in standard 600 x 600 mm cabinets. It is now also 10 kilos lighter and has a refrigerant coil on the outside, thus increasing the volume of refrigerant.

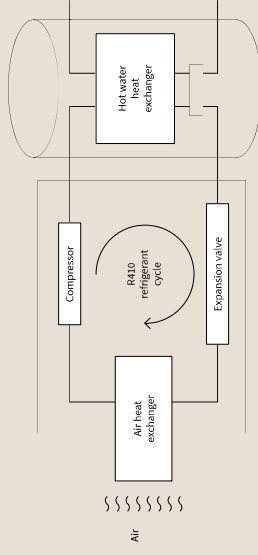
Control operation from anywhere

The smart function allows operation to be programmed in advance, bringing significant savings in consumption. It can also be connected to MODBUS for home automation.

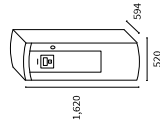
Error identifier

The equipment has a self-diagnostic system, allowing errors to be identified easily thanks to the flashing LED on the indoor and outdoor units.

Yutaki T configuration



Hot water tank



Outdoor units



TAW-190NH
TAW-270NH

RAW-35NH

Yutaki T

Hot water tank

	TAW-190NH	TAW-270NH
Capacity	190	270
Hot water energy rating	A+	A+
Seasonal efficiency hot water, COP DHW / (hp Medium climate)	3.10/123	3.20/125
Material	Duplex stainless steel	
Declared charge profile	L XL	
Energy consumed in standby mode	24.90	20.00
Maximum volume of usable water (At 40°C)	296	356
Heating time	3:15	3:35
Maximum water temp. (with heating element)	55 (75)	55 (75)
Electrical power	1 ~ 230V 50HZ	
Electrical power	inches 1.4-3/8	
Hot water pipe diameter	inches 3/4-3/4	
Dimensions (H x W x D)	mm 1,620x520x594	
Weight	kg 49	
Outdoor unit	RAW-35NH	RAW-35NH
Air flow	1,620	1,620
Sound power	63	63
Minimum pipe length	5	5
Maximum pipe length	20	20
Maximum height difference-highest OU	m	
Outdoor operating temperatures	Hot water (DB) °C -15 to 37	
Compressor	Rotary	
Refrigerant	R410A	
Refrigerant charge (length without additional charge)	1.2 (20)	
Additional refrigerant charge	not required	
Dimensions (H x W x D)	mm 548x412x35	
Weight	kg 33	
Electrical power	1 ~ 230V 50HZ	

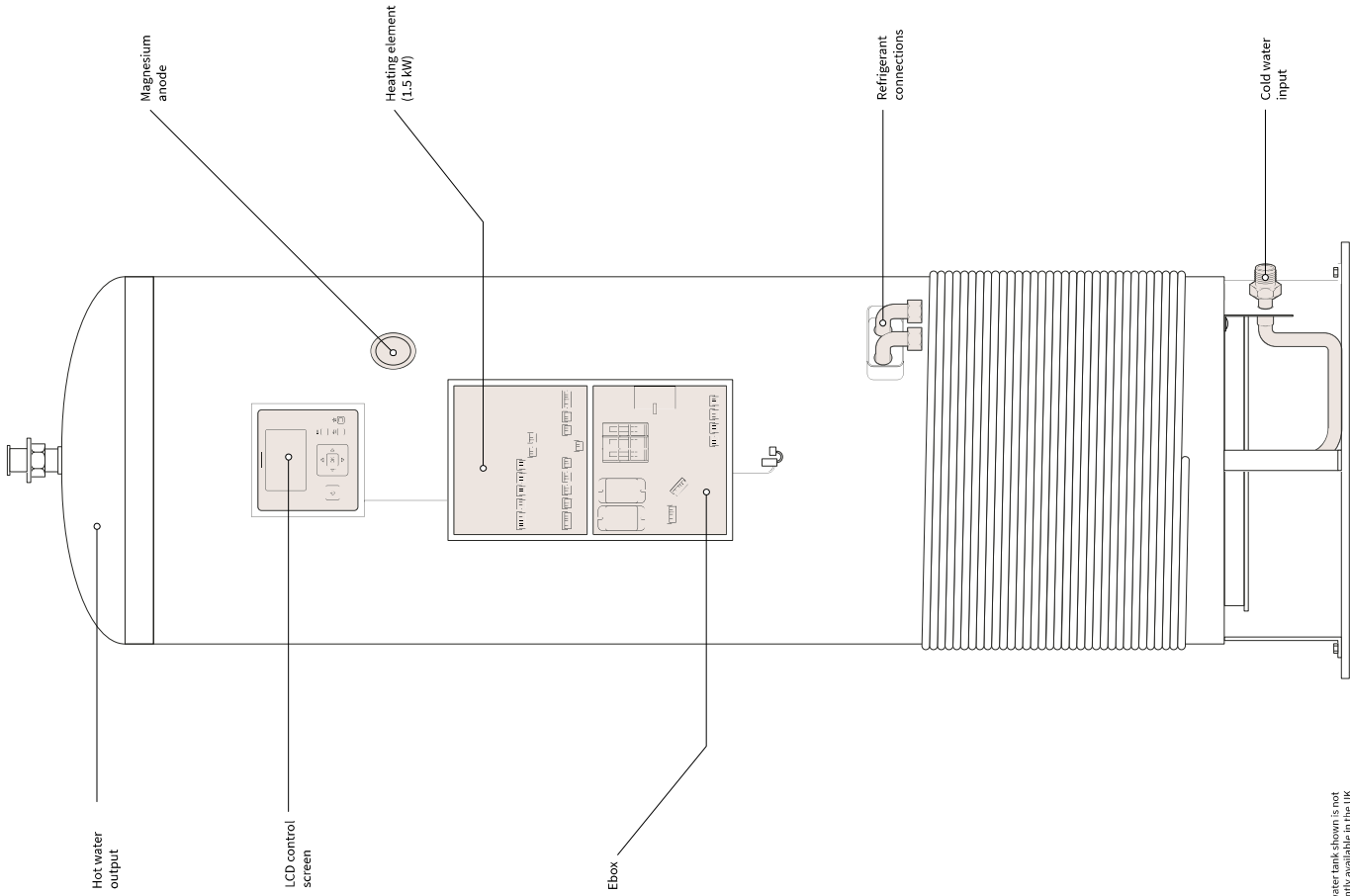
Compatible controls and accessories:



HI-Kumo

* Product range is not currently available in the UK.

Internal design



Hot water tank shown is not currently available in the UK



Controls



Wireless thermostat ON/OFF
ATW-RTL-04

- Includes receiver.
- ON/OFF function.
- Easy to install.

Compatibility: Entire Yutaki range.



Smart wireless thermostat
ATW-RTU-05

- Includes receiver.
- Multifunction.
- Easy to install.

Compatibility: Entire Yutaki range.



Wired control
PC-ARFHE

- Weekly programming.
- Multifunction modes, temperatures.
- Eco mode.
- Configure, set and display operating parameters.
- Several languages.

Compatibility: Entire Yutaki range.



Wireless thermostat for second circuit
ATW-RTL-06

- Multifunction.
- Easy to install.
- To control the temperature of a second circuit.

Compatibility: Entire Yutaki range.



KNX Interface
ATW-KNX-02

- Centralises the control.
- Allows the Yutaki range to be integrated in KNX home automation systems.

Compatibility: Entire Yutaki range.



Modbus for Yutaki
ATW-MBS-02

- Centralises the control.
- Allows the Yutaki range to be integrated in Modbus systems.

Compatibility: Entire Yutaki range.



Cascade control
ATW-CC-01

- Suitable for high power installations.
- Centralised control of up to 8 Yutaki units.
- Different control options: cascade, rotary, smart defrost....

Compatibility: The entire Yutaki range except for Yutaki T.



How to enjoy Hi-Kumo

1. Connect the Hi-Box to the router and the adapter to the Yutaki.
2. Download the app to your smartphone, tablet or computer.
3. Configure by simply searching for connected units and pairing them with the app.



Wi-Fi adapter for Hi-Kumo app
ATW-TAG-02

- Connect the Yutaki range using the Hi-Kumo app in order to manage it from any mobile device.
- Requires Hi-Box AHP-SMB-01.



Hi-Box Yutaki
AHP-SMB-01

- Accessory for the ATW-TAG-02 Wi-Fi adapter.
- Ensures compatibility with the Hi-Kumo app, in order to manage the Yutaki system from any mobile device.

Accessories



Hydraulic separator
ATW-HSK-01

- Non-corrosive (brass).
- 4 connection paths.
- With insulation.

Compatibility: Entire Yutaki range.



Second temperature kit
ATW-2TK-06

- Incorporated into 200 L hot water tank.

Compatibility: Yutaki S Combi with 200 L hot water tank.



Second temperature kit
ATW-2TK-07

- Wall-mounted model.

Compatibility: Entire Yutaki range.



Safety aquastat ATW-AQ1-01

- Recommended for underfloor heating applications.

Compatibility: Entire Yutaki range.



3-way valve ATW-3WV-01

- Valve to allow operation in heating/hot water.

Compatibility: Entire Yutaki range.



Proportional discharge valve ATW-DPOV-01

- Proportional for variable flow installations.
- Included as standard in UK version tanks.

Compatibility: Entire Yutaki range.



Second outdoor ambient temperature sensor ATW-2OS-02

- Used to measure outside temperatures in the area where the outdoor unit is installed.

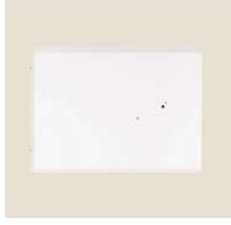
Compatibility: Entire Yutaki range.



Mirror box ATW-MM-01

- Simplifies installation when the Yutaki M1 is far from the property, avoiding the need to install large cable runs, using just two communication cables.

Compatibility: Yutaki M1.



Auxiliary output signal box ATW-AOS-02

- Relay box for additional output signals.

Compatibility: Entire Yutaki range.



Yutaki Range Cooling Kit ATW-CKS-01/ATW-CKS-02/ATW-CKS-03/ATW-CKSC-01/ATW-CKW-01

- Used to switch the Yutaki range to work in both heat and cold.
- ATW-CKS-01 (Yutaki S 2-3HP);
- ATW-CKS-02 (Yutaki S 4-6HP);
- ATW-CKS-03 (Yutaki S 8-10HP);
- ATW-CKSC-01 (Yutaki S Comb);
- ATW-CKW-01 (Yutaki M);
- Compatibility: The entire range except for Yutaki S80.



Domestic hot water tank 200/300 L DHWT-200/300 S-3.0H2E

Compatibility: Yutaki S, Yutaki S80, Yutaki M.

Hitachi tanks not currently available in the UK. G3 compliant Kingspan DHW cylinders are optional - speak to your Hitachi area sales manager or distributor for details.

	DHWT200S-3.0H2E	DHWT300S-3.0H2E	
Water accumulator	Volume L	200	300
	Maximum temperature	-4C	75
	Maximum pressure	bar	10
Water heat exchanger	Maximum coil temperature	-4C	99
	Maximum coil pressure	bar	10
	Exchanger surface	m ²	1.4
Type of insulation	Polyurethane	mm	50
Auxiliary heating element	Power	kW	3
Hydraulic connection	In DHW	inches	3/4 (f)
	Out DHW	inches	3/4 (f)
	Recirculation DHW	inches	3/4 (f)
	In coil water	inches	3/4 (f)
	Out coil water	inches	3/4 (f)
Accessories	Thermometer	Yes	Yes
	Safety thermostat	Yes	Yes



Wired wall-mounted sensor for indoor ambient temperature ATW-ITS-01

Compatibility: Entire Yutaki range.



Universal water temperature sensor ATW-WTS-02Y

Compatibility: Entire Yutaki range.



Backup heating element WEH-6E

- 6 kW single/three phase.
- 3 x 2 kW stages.
- Built-in power relay.
- Steel body with external insulation.

Compatibility: Yutaki S80, Yutaki M.



Unit controller cover ATW-FCP-01

- Used to cover the gap left in the indoor unit when removing the programmer control and using it as a thermostat in any area.

Compatibility: Entire Yutaki range.



Domestic hot water tank 200 and 260 L DHWS200/260 S-2.7H2E

Compatibility: Yutaki S80.

	DHWS200S-2.7H2E	DHWS260S-2.7H2E
Power	1-230 V/50 Hz	1-230 V/50 Hz
Dimensions	mm	1282 (L380) * 1591 (L2280) *
	Separate tank height (built-in tank height)	mm
	Width	mm
	Depth (with connections)	mm
Weight	kg	62
Net capacity	L	200
Maximum operating temperature		75
Pipe diameter	Water input	G 3/4 male
	Water output	G 3/4 male
Wired control	PC-ARFHE	PC-ARFHE

Hot water tank shown is not currently available in the UK.