

HITACHI

—
**Heating Catalogue
2024/2025**



Cooling & Heating

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REPUTATION:

Why are we Ireland's number one?



Complete customer confidence

One of our philosophies is ensuring that our customers have complete confidence when they choose Pipelife. We achieve this by offering a one-stop shop for their needs with market-leading products, free initial advice, bespoke design, final commissioning, and 24/7 technical support. We are proud to be Ireland's top designer and supplier of home heating solutions.

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We provide industry-leading service standards to all of our customers. How do we accomplish this?

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- The security of our design indemnity insurance
- Top-quality materials
- Comprehensive before and after-sales technical support
- Pipelife is fully accredited to ISO 9001
- Selling exclusively through retailers makes purchasing our products and services simple, professional, and stress-free.

Each project is individually tailored to your needs

Whether residential or commercial, our in-house engineers offer comprehensive designs individually tailored to each project. This includes extensive product and accessory specifications, energy-saving estimations, and heat loss calculations.

An unrivalled full-service experience

Pipelife offers a full-service experience to every customer with professional support and expertise from our customer service team and specialist service engineers. Our in-house designers work with homeowners, contractors, architects, & consulting engineers across the country on projects ranging from residential homes, hospitals, and nursing homes to warehouses and car showrooms.

A nationwide distribution network in Ireland

You can find our full product range in all leading merchants throughout Ireland.

Our commitment to you!

Pipelife has been Ireland's leading and trusted supplier to the plumbing industry for the last 55 years. With this unmatched experience and the financial stability of being part of a leading multinational group, Pipelife Ireland offers complete support to our customers and full responsibility for the design of your system and the specification and supply of materials.

Peace of mind guaranteed

We also carry full design indemnity and product liability insurance covering all designs. When you choose Pipelife, you choose quality products, reliable systems, and Ireland's number-one after-sales commitment.

Speak to our professional team

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Johnson Controls-Hitachi Air Conditioning

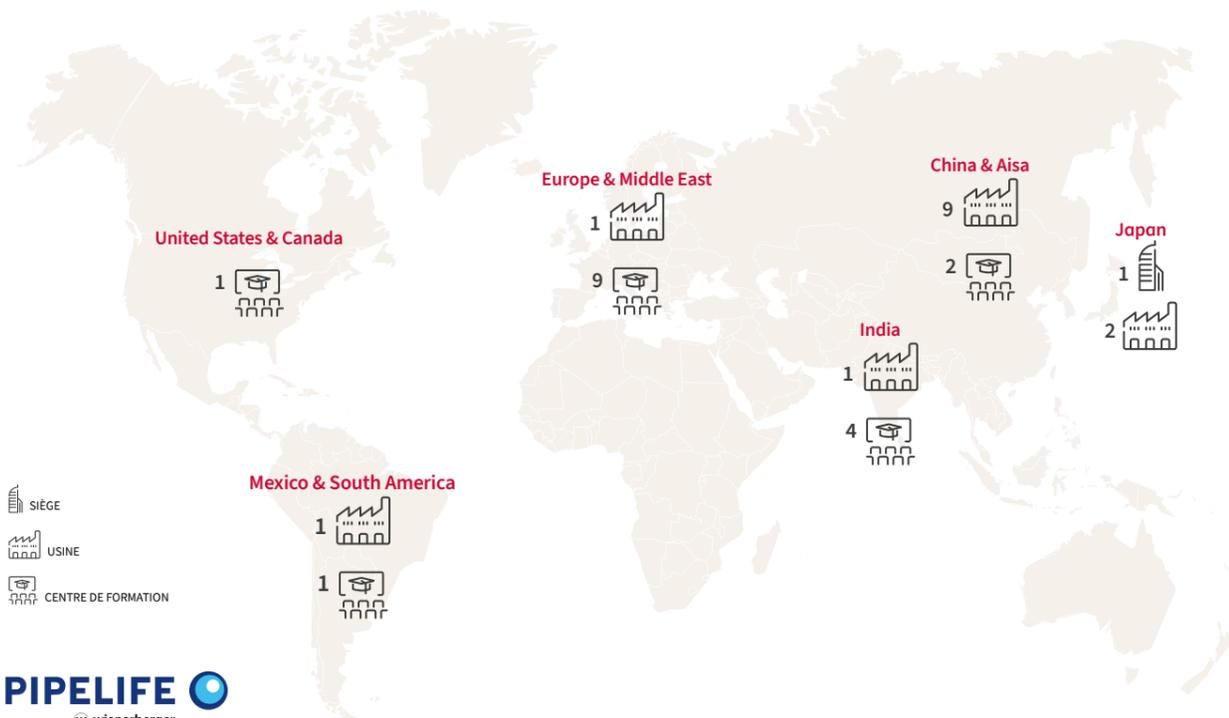


Johnson Controls-Hitachi Air Conditioning offers the most comprehensive range of heating, air conditioning air-conditioning and air-handling products in the world.

Always at the cutting edge of technology, we develop products for the comfort of all, in both professional and domestic environments, for the new-build and renovation markets.

Respect for the environment is also a priority, from product design to production, including installation and commissioning procedures.

Whatever your requirements, the Hitachi network is there to support you and offer the right solutions.



Focus on the Barcelona factory

More than 30 years in business

With over 30 years of expertise in the development of heating and air conditioning equipment, our Johnson Controls - Hitachi teams at the factory in Barcelona (Spain) work hard every day to supply products of the highest quality, combining innovation, performance and durability.

Today, all VRF systems, Yutaki air-to-water heat pump ranges and water-to-water chillers are produced at the Barcelona factory, which accounts for almost the entire Hitachi's equipment portfolio.

Our factory is also our European spare parts management centre. This proximity enables us to offer our customers unrivalled responsiveness and delivery times.



A factory committed to the environment...

Since 2017, the Johnson Controls-Hitachi European factory has been recycling 100% of its waste, as part of an ongoing commitment to sustainable development. It has received 4 "Zero Waste to Landfill" awards, a certificate of environmental excellence and an award for team dedication and commitment to the environment.

... which continues to grow

- 45,000 m² of factory space.
- A 750 m² showroom displaying almost 40 products, and a training centre with over 70 products in operation.
- 100% European production for VRF, Small Commercial, air-to-water heat pumps (IU & OU) & chillers ranges.



10 reasons to choose a Yutaki 2.0 air to water heat pump

 **RESIDENTIAL**



1 A thought for savings

Gas, oil, electricity... energy prices are soaring! Heat pumps use up to 70% free energy by extracting heat from the air.

UP TO ⁽¹⁾
70%
ENERGY SAVINGS

2 A thought for adaptability



In new builds or renovation, our Yutaki 2.0 air to water heat pumps provide up to 3 uses (**heating, cooling and/or domestic hot water with integrated or remote tank**) in the same indoor module.

The Yutaki range is fitted to a **radiator, underfloor heating or fan coil unit** network of your choice. There's a Yutaki for everyone!

3 A thought for comfort



Works in **heating down to -25°C** producing hot water up to 60°C, or cooling up to +46°C outside, the Yutaki 2.0 range is there for you whatever the climate.

For domestic hot water, the tank version can cover the needs of up to 5 people.

* Without secondary heat source needed down to -10 °C for R410A models, -5 °C for R32 models.

4 A thought for ecology

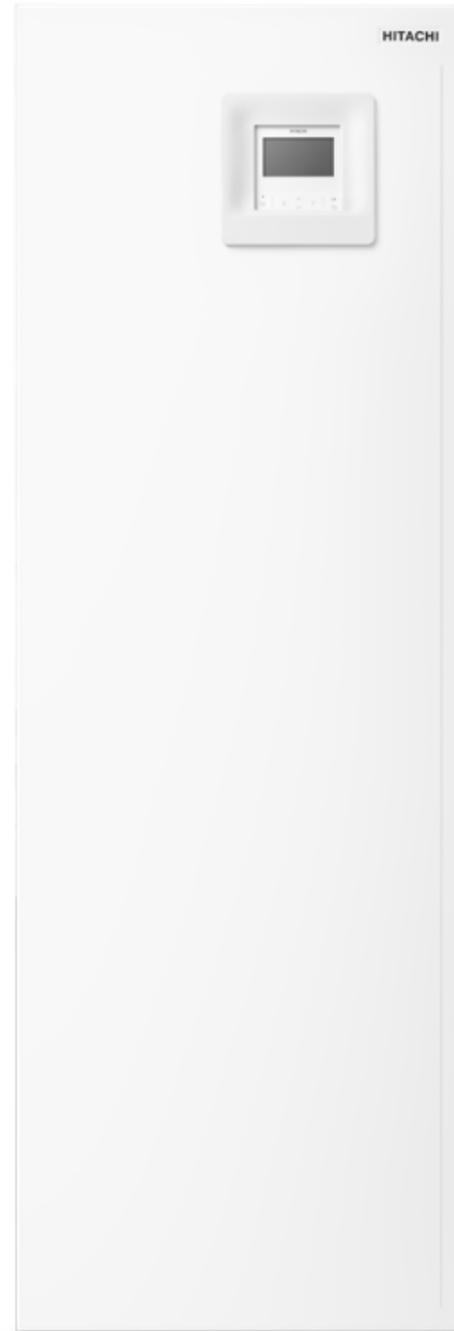


Thanks to their thermodynamics principle, heat pumps generate more energy than they consume. Smaller charge of the R32 refrigerant reduces the environmental impact further.

5 A thought for durability



Yutaki 2.0 modules come with high quality materials and components, including its Inverter compressor or **Duplex stainless steel tank**, making your air to water heat pump more resistant.



6 A thought for performance



A+++

Its high technology means the Yutaki 2.0 range offers COP for heating of up to 5.25* and for DHW of up to 3.2. This gives an energy rating of A++ or **A+++** for considerable savings, certified HP Keymark.

*COP at A7/W35°C, acc. to EN14511. Depending on models.

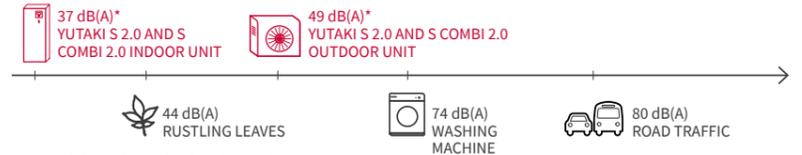
5,25
HIGH COP
1kW consumed
= 5,25 kW of heat

7 A thought for discretion



600x600

With its modern design and **XXS space requirements** (model S Combi 2.0 220L, **H1788 x W598 x D595mm**), the Yutaki 2.0 air to water heat pump is the perfect fit for your interior. You'll even forget it's there with its **low noise level** (37dB(A)).



8 A thought for all-round control



Ambient thermostat, 2 zones heating control, control fan coil units or boiler, thermal solar panels... on Yutaki 2.0 air to water heat pumps, **everything comes as standard!**

9 A thought for your peace of mind



A **network of Hitachi experts** (Distributors and Installers) at your service, trained in the latest developments.

10 A thought for staying connected



■ Control Yutaki via the CSNET Home app with its installer PRO version for remote maintenance (optional gateway).

(1) Compared to electric heating. Example provided for information purposes only. Depending on installation, usage conditions and location.

The high-performance Yutaki range

Yutaki S 2.0 and S Combi 2.0: the heat pump designed by PROs, for PROs.

Designed for your peace of mind

- 
Top-of-the-range design
 Mostly copper and brass, with robust, high-performance components such as the stainless steel plate heat exchanger, Duplex 220L stainless steel hot water tank with impressed current anode (optional), electronic pressure sensor, low-consumption pumps, and more.
- 
Performance meets expectations
 - Stable capacity and water temperature (up to 60°C) at -10°C outside without electrical back-up*,
 - One of the highest levels of DHW comfort, with its 220 L tank offering a Vmax of 288 L at 40°C, and a record heating time of 1 hour and 5 minutes** for a COP of 3.1.
* Without electrical back-up at even -10°C for R410A models, -5°C for R32 models
 ** R410A models, 1h40 for R32 models
- 
Smart control for maximum savings and perfect comfort
 Thanks to its weather compensation system, which adapts the starting temperature based on the difference between the setpoint and the actual ambient temperature.
*(with PC-ARFH2E or ATW-RTU-07)
- 
Three-stage electrical back-up heater
 Built in as standard in case of need, for peace of mind in all situations.
- 
An emergency button
 Easily accessible while awaiting repair.
- 
Keymark certification
 Guaranteed confidence.

One of the most sophisticated and compact heat pumps on the market.



One of the widest ranges on the market, from 3.5 to 24 kW.



3.5 to 8 kW models

Designed to make your life easier

- 
A unique design, one of the most advanced
 Each component has a strategic place, with direct front panel access (valves, filter, pumps, sensors, etc.).
- 
A unique controller
 Simple and intuitive color LCD display with exclusive features: Wizard to help you with configuration, operation synoptic view, commissioning menu, assisted PumpDown procedure, and more.
- 
Details that count
 Status LED on the three-way valve (V3V), connections aligned on the top and spaced for the passage of tools, a drain valve at the bottom of the tank, a filter valve which can be cleaned without draining, and more.

Designed to meet all your expectations

- 
A unique design, one of the most advanced
 With a footprint of 0.35 m² (598 x 595 mm) and all connections on top, the Yutaki S Combi 2.0 can be placed in a standard 600 x 600 mm cupboard. Guaranteed to suit any project.
- 
2nd zone management
 With the 2nd zone mixing kit that integrates easily inside the unit body.
- All features come as standard**
 Thanks to its terminal block with customizable inputs/outputs: 2 zones, back-up boiler, remote DHW management, solar thermal panels, fan coil units, and more. The Yutaki 2.0 range meets all your requirements, with no additional cards.

Yutaki S 80 and S80 Combi: perfect for refurbished buildings

An exclusive two-level compression system

- 1 A first compression stage, in the outdoor unit as standard throughout the whole Yutaki R410A range.



- 2 A second compression stage for extremely low temperatures, in the hydraulic module.

5.00
A HIGH COP
1 kW consumed = 5.00 kW of heating

80°C

Yutaki S80
11.5 kW to 16 kW



Yutaki S80 Combi
200 l or 260 l
built-in DHW
tanks

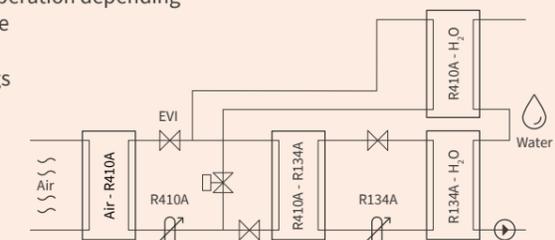
Uninterrupted comfort even in the coldest of winters

 Your heat pump warms up your home, over one or multiple floors. Even at outside temperatures of -15°C, the pump provides constant heating power while continuing to produce water at 65°C in your radiators, without the need for electrical back-up heaters.

Smart Cascade control

 The Yutaki S80 range has a Smart Cascade cycle. This exclusive feature from Hitachi automatically adjusts the heat pump's operation depending on heating needs. Based on a range of parameters, the regulation decides whether one or two compressors should operate. The result is significant energy savings and high annual performance figures.

 4 exchangers and Smart Cascade control to suit all needs with excellent results.



Yutaki controller & connectivity



Immediate operation

A modern controller

with a curved shape and color LCD screen. Our design won the European Product Design Award...

Simple and intuitive navigation

with exclusive features designed to meet the needs of both businesses and individuals.

Remote controller detachable from the unit

that can be used as a thermostat.



Concentrated technology for PROS



Operating data at a glance with the synoptic view.



The WIZARD configuration assistant makes commissioning more efficient through a series of questions in just 2 minutes.

For everyone...



A programmable weekly timer can easily be set up in 2 minutes with the configuration wizard. Answer a few questions and you're ready to go.



Operating history for simpler diagnostics.



Error codes with descriptions ensure effective communication.

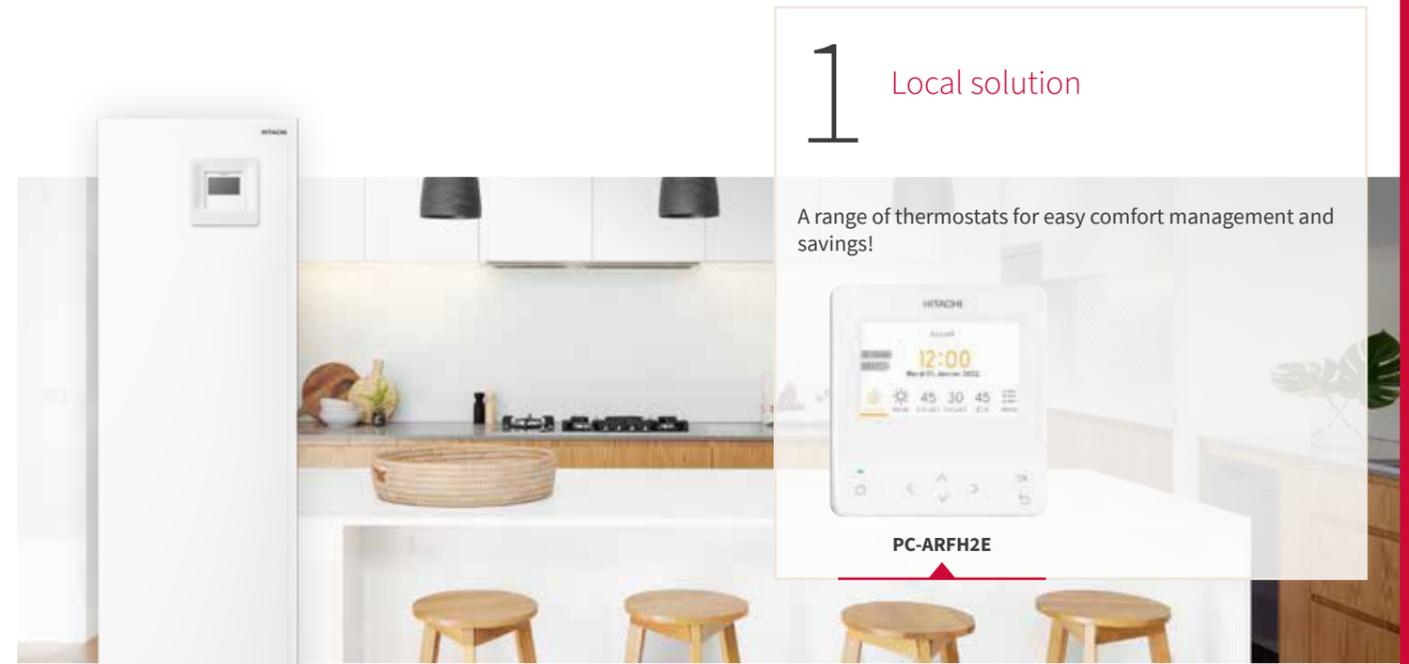


A simple and graphic view of energy data — by day, month and year.



The same controller can be used to manage everything. Manage fan coil units directly with the same device, without the need for an additional thermostat, for example for cooling your home down in summer.

Control solutions to get the most out of your Yutaki and much more!



1 Local solution

A range of thermostats for easy comfort management and savings!

PC-ARFH2E

2 CSNET Home connectivity

Hitachi **mobile and web application solution to stay in control** anywhere!



End customer

Remote comfort control
New end-user mobile and web application





Maintenance technician

Monitor your installations and take action remotely
New installer web application



Yutaki S Combi 2.0

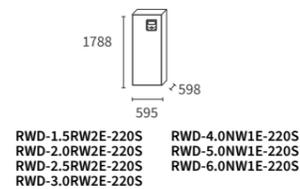
Split air-to-water heat pumps, 60°C, with integrated DHW
3.5 to 8kW (R32) & 11 to 16kW (R410A)



+ PERFORMANCE

- Power ratings for all types of projects, new build & renovation, even in cold weather, operation down to -25°C outdoor temperature and water temperature of 60°C down to -10°C with no back-up heat source.
- The Yutaki 2.0 range provides exceptional performance with Heating COP up to 5.25 and DHW up to 3.1.
- High resistance 220L stainless steel tank providing up to 288L of hot water at 40°C (L profile).

Indoor units



Outdoor units



Controls and compatible accessories (see P. 67)

Controls and connectivity



Wired controller
Ref: PC-ARFH2E
Included



Ambient compensation
wireless controller 1st
circuit.
Ref: ATW-RTU-07



Simplified wired thermostat
Ref: PC-ARCHE



Front cover
To be used if the controller
serves as thermostat in
a room.
Ref: ATW-FCP-03



CSNET Home connectivity
gateway
Ref: ATW-IOT-01
Read more P. 68

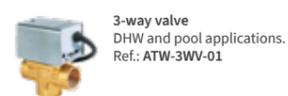


Wireless thermostat
1st / 2nd circuit
Ref: ATW-RTU-11/12

Hydraulic accessories



Integrable 2nd zone mixing
kit with 3-way valve and
pump (220L tank only).
Ref.: ATW-2TK-08



3-way valve
DHW and pool applications.
Ref.: ATW-3WV-01



Universal water
temperature sensor
2nd circuit, pool, solar
circuit.
Ref.: ATW-WTS-02Y

Options



Cooling operation kit
Equipment required to
operate in cooling mode.
Ref.: ATW-CKSC-02
(insulation + clip)

Yutaki S Combi 2.0

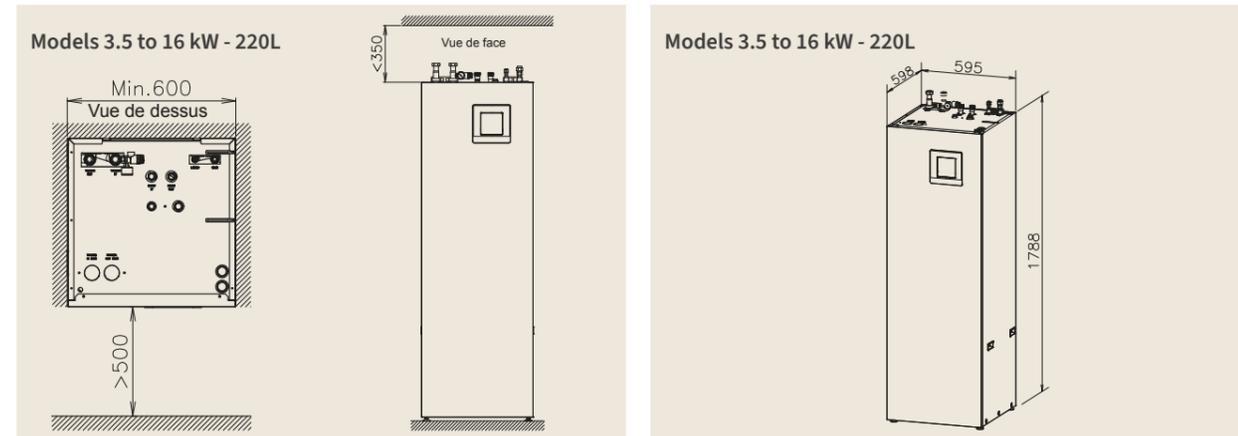
Model	Unit	R32 REFRIGERANT				R410A REFRIGERANT		
		3.5kW	4,3kW	6kW	8kW	11kW	14kW	16kW
Heating performances								
Min./nom./max capacity heating (7°C ext./35°C water)	kW	- / 3.5 / 6.32	1.85/4.30/6.50	1.85/6.00/8.60	2.10/8.00/11.00	4.30/11.00/15.20	4.80/14.00/16.70	5.50/16.00/17.80
Nom./max. heating capacity (-7°C out./35°C water)	kW	3.00/5.21	4.5 / 5.5	5.3 / 6.2	5.8 / 7.5	9.7 / 10.6	11.5 / 12.0	12.0 / 13.0
Nom./max. heating capacity (-7°C out./45°C water)	kW	- / -	-/5.00	-/5.80	-/6.67	10.00 / 10.00	11.00 / 11.60	11.50 / 12.50
Nom./max. heating capacity (-7°C out./55°C water)	kW	3/3.84	4.0 / 4.77	4.7 / 5.0	5.0 / 5.5	8.7 / 9.7	9.7 / 11.2	10.5 / 12.0
Power consumption heating (7°C ext./35°C water)	kW	0.69	0.86	1.20	1.74	2.20	2.97	3.50
COP (7°C ext / 35°C water) acc. to EN14511	-	5.1	5.00	5.00	4.60	5.00	4.71	4.57
SCOP medium climate 35°C / 55°C acc. to EN14825	-	- / -	4.57 / 3.32	4.50 / 3.25	4.50 / 3.20	4.65/3.45	4.65/3.39	4.12 / 3.42
Seasonal energy efficiency heating η _s (35°C) Single/Three ⁽¹⁾	%	175 / -	175	175	175	183/182	183 / 182	162 / 163
Seasonal energy efficiency heating η _s (55°C) Single/Three ⁽¹⁾	%	125 / -	125	126	125	135/135	133 / 135	134 / 134
Energy class 35°C / 55°C	-	-	A+++/A++			A+++/A++		A++/A++
Water output temperature range (heating mode)	°C	-	20 / 60°C			20 / 60°C		
Max temperature water out thermodynamics only	°C	-	60°C down to -5 °C ext			60°C down to -10 °C ext		
DHW performances								
COP DHW (220L) acc. to EN16147	-	-	3			3.1		
Seasonal energy efficiency n _{wh} (220L - L profile)	%	-	125			127		
DHW energy class	-	-	A+			A+		
Heating time ⁽²⁾	h:mm	-	1h40			1h05		
Standby power input (Pes)	W	-	30			34		
V _{max} at 40°C acc. to EN16147	L	-	288			288		
Water output temperature range (DHW mode)	°C	-	30 / 55°C			30 / 55°C		
Cooling Performances (option)								
Nom./max cooling power (35°C ext / 7°C water) (reversible)	kW	3.5/4.69	4.0 / 5.1	5.3 / 6.0	6.5 / 7.0	7.2 / 11.8	9.5 / 12.6	10.5 / 13.7
Power consumption cooling (35°C ext/7°C water)	kW	1.05	1.05	1.47	1.94	2.18	2.95	3.72
EER (reversible model)	-	3.82	3.82	3.60	3.35	3.54	3.54	3.31
Hydraulic modules								
Additional electrical heating element as standard/three-stage	kW	3 (1+1+1)	3 (1+1+1)	3 (1+1+1)	3 (1+1+1)	6 (2+2+2)	6 (2+2+2)	6 (2+2+2)
DHW additional electrical heating element as standard	kW	2.7	2.70	2.70	2.70	2.70	2.70	2.70
Weight	kg	108	108	110	110	124	126	126
Dimensions (H x W x D)	mm	1788 x 595 x 598			1788 x 595 x 598			
Sound power level	dB(A)	-			39			
DHW tank volume/DHW tank material	L	220L / stainless steel Duplex			220L / stainless steel Duplex			
Controller	-	Included			Included			
Hydraulic specifications								
Expansion tank	L	6			6			
Water flow (min / max)	m ³ /h	0.50 / 2.20	0.50 / 2.20	0.50 / 2.70	0.60 / 2.70	1.00 / 2.70	1.10 / 2.80	1.20 / 2.80
Heating hydraulic connections (Male/male valves supplied)	inch	1"			1"			
Hydraulic connections DHW	inch	3/4"			3/4"			
Minimum water volume for the installation	L	28			38			
Electrical specifications								
Electrical power	-	230V/1Ph/50Hz			230V/1Ph/50Hz or 400V/3Ph/50Hz			
SINGLE-PHASE 230V	A	25.6			38.7			
Max. current with additional heating element + tank element	-	3 x 6/28			3 x 10/30			
Cable diameter (mm ²) / max length (m) ⁽²⁾	-	-			-			
THREE-PHASE 400V	A	12.6	12.6	12.6	12.6	24.7		
Max. current with additional heating element + tank element	-	5 x 2.5			5 x 6/20			
Cable diameter (mm ²) / max length (m) ⁽²⁾	-	-			-			
Outdoor units								
Sound pressure level 1 m - full load / power level - part load (heating mode) ⁽³⁾	dB(A)	44 / 50	50 / 50	53 / 51	53 / 51	49 / 58	50 / 59	50 / 60
Airflow	m ³ /h	2754	2754	3420	3420	4800	5400	6000
Dimensions (H x W x D)	mm	628 x 882 x 305			1380 x 950 x 370			
Weight	kg	45			103			
Operating ranges Cooling/Heating/DHW	°C	+10→+46 // -20→+25 // -20→+35			+10→+46 // -25→+25 // -25→+35			
Refrigerant cycle								
(Only RAS-3WHVRP2E subject to PED Cat. II)								
Refrigerant pipe diameter (Liq/gas)	inch	1/4" x 1/2"			3/8" 5/8"			
Min. - max. length/Max height difference	m	3 - 30/20			5 - 75/20			
Initial refrigerant charge/Additional charge	kg/g/m	1.1 for 10m/15	1.1 for 10m/15	1.2 for 10m/15	1.2 for 10m/15	3.3 for 15m/60	3.4 for 15m/60	
Refrigerant	-	R32			R410A			
Compressor	-	ROTARY			SCROLL			
Electrical specifications								
Electrical power	-	230V/1Ph/50Hz			230V/1Ph/50Hz or 400V/3Ph/50Hz			
SINGLE-PHASE 230V	A	12.6	12.6	16.5	16.5	30.5		
Max. current	-	3 x 2.5/28			3 x 6/30			
Cable diameter (mm ²) / max length (m) ⁽²⁾	-	-			-			
THREE-PHASE 400V	A	-	-	-	-	14	16	
Max. current	-	-			5 x 2.5/16			
Cable diameter (mm ²) / max length (m) ⁽²⁾	-	-			5 x 2.5/16			
Int/Ext wiring section (shielded)	mm ²	2 x 0.75			2 x 0.75			

⁽¹⁾ Seasonal energy efficiency non-regulation, acc. to EN14825. ⁽²⁾ Diameters provided for information purposes. Comply with applicable electrical standards. (V) = single. ⁽³⁾ from 10 °C to 55 °C with T_{out} = 20 °C.

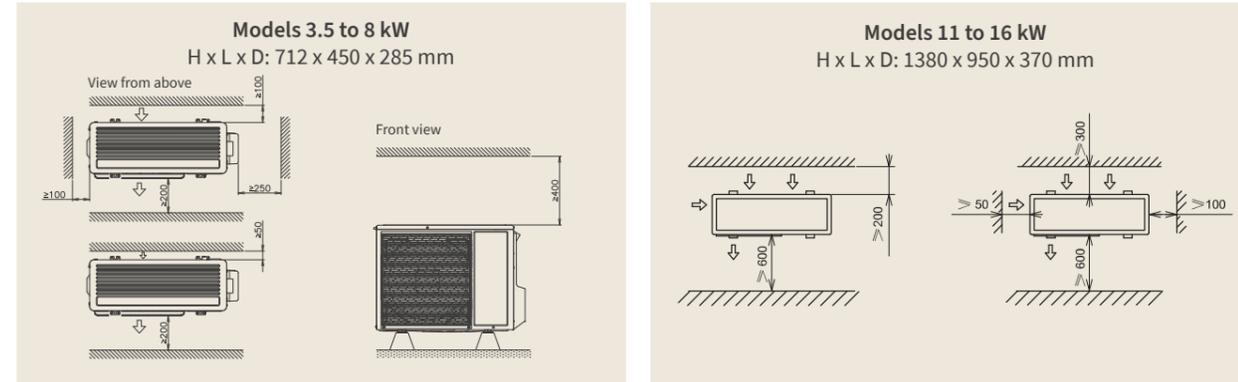
⁽⁴⁾ Acc. to EN12102-1.

Prepare your installation Yutaki S Combi 2.0

1. How much space will I need for my hydraulic module?



2. How much space will I need for my outdoor unit?



3. What hydraulic and refrigerant piping do I need?

Hydraulic specifications	Unit	3.5 to 8 kW	11 to 16 kW
Heating hydraulic connections (male/male valves supplied)	inch	1"	1"
Hydraulic connections DHW	inch	3/4"	3/4"
Refrigerant specifications		3.5 to 8 kW	11 to 16 kW
Refrigerant pipe diameter (Liq - Gas)	inch	1/4" - 1/2"	3/8" 5/8"

4. What electrical connections do I need?

Please note these data are provided for installations with active el. back-up heater for heating and DHW tank. If you do not want to use a secondary source, please refer to the technical catalogue. Data provided for information purposes, please refer to the applicable electrical standard.

Electrical power supply					Bus
Outdoor units	Current 230 V	Circuit breaker 230 / 400 V	Cable diameter 230 V	Max cable length 230 V	Lycy shielded cable 2 x 0.75 mm ²
	Max A	A / curve	mm ²	m	
RAS-1.5WHVRP2E	12.6	16 / D	3G2,5	28	
RAS-2WHVRP2E	12.6	16 / D	3G2,5	28	
RAS-2.5WHVRP2E	16.5	20 / D	3G4	24	
RAS-3WHVRP2E	16.5	20 / D	3G4	34	

Electrical power supply					Bus
Outdoor units	Current 230 / 400 V	Circuit breaker 230 / 400 V	Cable section 230 / 400 V	Max. cable length 230 / 400 V	Lycy shielded cable 2 x 0.75 mm ²
	Max A	A / curve	mm ²	m	
RAS-4WHVNP / WHNPE	30 / 14	32 / 16 - D	3G10 / 5G4	30 / 16	
RAS-5WHVNP / WHNPE	30 / 14	32 / 16 - D	3G10 / 5G4	30 / 16	
RAS-6WHVNP / WHNPE	30 / 16	32 / 20 - D	3G10 / 5G4	30 / 16	

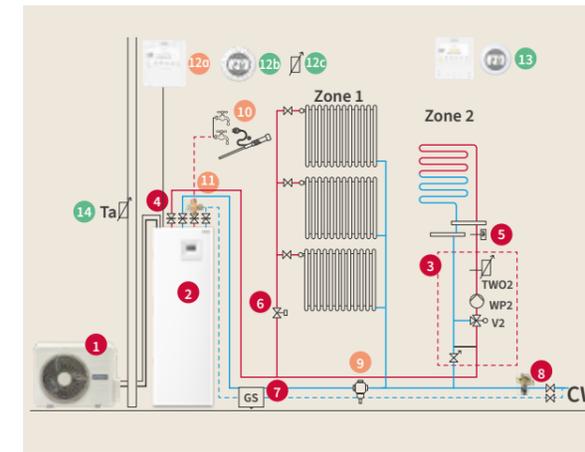
Electrical power supply					Bus
Hydraulic modules	Current 230 / 400 V	Circuit breaker 230 / 400 V	Cable diameter 230 / 400 V	Max cable length 230 / 400 V	Lycy shielded cable 2 x 0.75 mm ²
	Max A	A / curve	mm ²	m	
RWD-4.0NW1E-220S	38.7 / 18	50 / 25 - C	3G10 / 5G6	28 / 20	
RWD-5.0NW1E-220S	38.7 / 18	50 / 25 - C	3G10 / 5G6	28 / 20	
RWD-6.0NW1E-220S	38.7 / 18	50 / 25 - C	3G10 / 5G6	28 / 20	

Hydraulic configurations Yutaki S Combi 2.0

Your configurations in just a few clicks at yutaki-applications.com

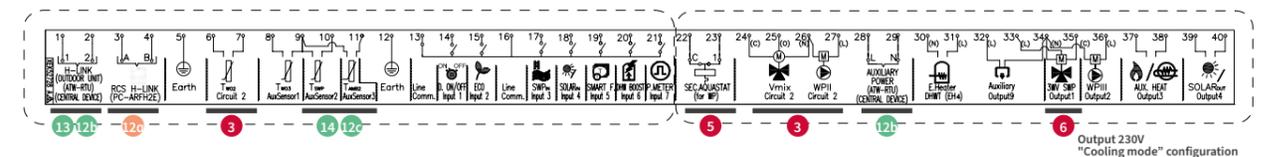


2 control zones: direct hydraulic system with radiators and underfloor heating (reversible)

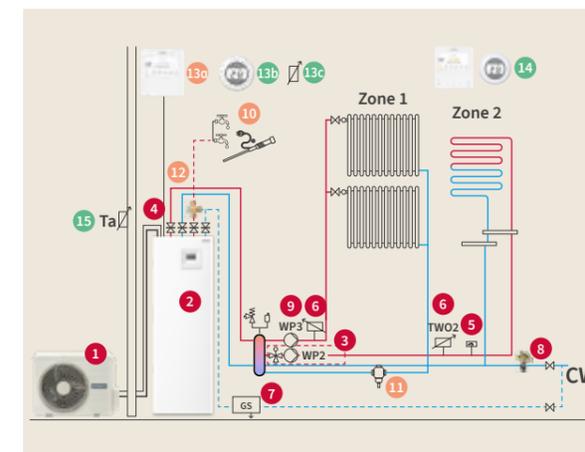


Component	Requirement	Supplier
Outdoor unit	Mandatory	Supplied by Hitachi
Hydraulic module (6L expansion tank supplied)	Mandatory	Supplied by Hitachi
2nd zone mixing kit with 3-way valve, balancing valve, pump, temperature sensor, bypass	Mandatory	Hitachi Option (ATW-2TK-08)
Isolation valves heating 1st zone	Mandatory	Supplied by Hitachi (supplied on site for 2nd zone)
Underfloor heating safety aquastat	Mandatory	Hitachi Option (ATW-AQT-01)
Motorised valve	Mandatory (if cooling)	Not supplied
Sanitary back up unit	Mandatory (in some countries)	Not supplied
Water check valve	Mandatory	Not supplied
Filter / Sludge remover	Recommended (Mandatory if flooring)	Not supplied
Titanium active anode	Recommended	Option (ATW-CP-05)
Thermostatic mixing valve	Recommended	Not supplied
Wired compensation thermostat zone 1: remote PC-ARFH2E	Recommended	Supplied by Hitachi (with module)
Wireless compensation thermostat zone 1	Option	Hitachi Option (ATW-RTU-07)
Wired ambient sensor	Option	Hitachi Option (ATW-ITS-01)
Compensation thermostat zone 2: PC-ARFH2E or ATW-RTU-06 if RTU-07 zone 1	Option	Hitachi Option
Outdoor sensor	Option	Hitachi Option (ATW-2OS-02)

Please note: check the heat pump circulator can cope with load losses in the network and guarantee the nominal flow required by the heat pump. Otherwise a hydraulic decoupling is required. - Ensure the minimum water volume required by the heat pump is sufficient, otherwise add a buffer volume. - Always rinse the heating network before final connection and filling. Use a compatible inhibitor acc. to manufacturer recommendations. - Check the expansion tank included with the machine is sufficient for the total volume in the installation. - Configurations provided for information purposes. The installation is carried out in compliance with applicable regulations (DTU, professional standards).

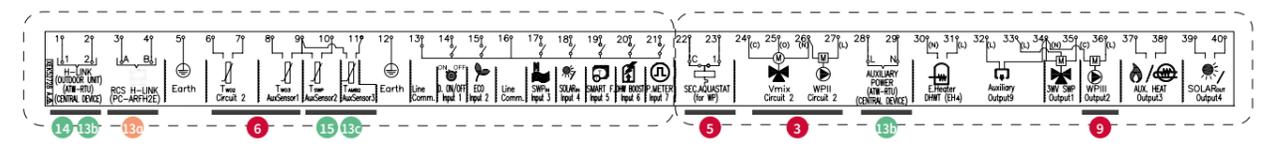


2 control zones: decoupled hydraulic system with radiators and underfloor heating (parallel - reversible mode)



Component	Requirement	Supplier
Outdoor unit	Mandatory	Supplied by Hitachi
Hydraulic module (6L expansion tank supplied)	Mandatory	Supplied by Hitachi
2nd zone mixing kit with 3-way valve, balancing valve, pump, temperature sensor, bypass	Mandatory	Not supplied
Heating isolation valves	Mandatory	Supplied by Hitachi (with module)
Underfloor heating safety aquastat	Mandatory	Hitachi Option (ATW-AQT-01)
Universal temperature sensor	Mandatory	Hitachi Option (ATW-WTS-02Y)
Sanitary back up unit	Mandatory (in some countries)	Not supplied
Water check valve	Mandatory	Not supplied
Secondary pump	Mandatory	Not supplied
Titanium active anode	Recommended	Option (ATW-CP-05)
Filter / Sludge remover	Recommended	Not supplied
Thermostatic mixing valve	Recommended	Not supplied
Wired compensation thermostat zone 1: remote PC-ARFH2E	Recommended	Supplied by Hitachi (with module)
Wireless compensation thermostat zone 1	Option	Hitachi Option (ATW-RTU-07)
Wired ambient sensor	Option	Hitachi Option (ATW-ITS-01)
Compensation thermostat zone 2: PC-ARFH2E or ATW-RTU-06 if RTU-07 zone 1	Option	Hitachi Option
Outdoor sensor	Option	Hitachi Option (ATW-2OS-02)

Please note: check the heat pump circulator can cope with load losses in the network and guarantee the nominal flow required by the heat pump. Otherwise a hydraulic decoupling is required. - Ensure the minimum water volume required by the heat pump is sufficient, otherwise add a buffer volume. - Always rinse the heating network before final connection and filling. Use a compatible inhibitor acc. to manufacturer recommendations. - Check the expansion tank included with the machine is sufficient for the total volume in the installation. - Configurations provided for information purposes. The installation is carried out in compliance with applicable regulations (DTU, professional standards).



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