

HITACHI

Yutaki S and S Combi

Heating and domestic hot water
(integrated or remote)



Air/water heat pump splits

* Range from 4.3 to 8 kW. ** Range from 11 to 24 kW



Cooling & Heating



WHY CHOOSE A HITACHI HEAT PUMP?

HOW DOES IT WORK?

The outdoor unit of the **Yutaki heat pump extracts the heat energy contained in the ambient air**, and transfers it inside your accommodation as usable heat through the indoor unit.

THE COST-SAVING SOLUTION!

The Yutaki heat pump **was designed to use 70% of free power** (heat energy in the air) and only 30% of electricity.

HERE'S WHAT YOU NEED TO KNOW!

The power savings generated are directly proportional to the coefficient of operating performance (COP).

With the Yutaki S and S Combi, for every 1 kW of power consumed, up to 5.25 kW of heat energy is generated (under normal operating conditions).

The Yutaki S and S Combi are among the best on the market!

ECOLOGICALLY RESPONSIBLE COMMITMENT

With its thermodynamic system, the **Yutaki heat pump produces more power than it consumes**.

A TECHNOLOGY THAT REALLY PERFORMS!

Quiet and compact, these heat pumps currently represent **the best performing technology to equip your house**.

THINK ABOUT IT:

4.00*

HIGH EER

i.e. **1kW** consumed

= 4.00 kW cooling

5.25*

HIGH COP

i.e. **1kW** consumed

= 5.25 kW heating

Hi Kumo®

Stay connected and control your Yutaki remotely via an application created especially for you.



Hi Kumo PRO

The remote maintenance solution.



Hi Kumo
PRO

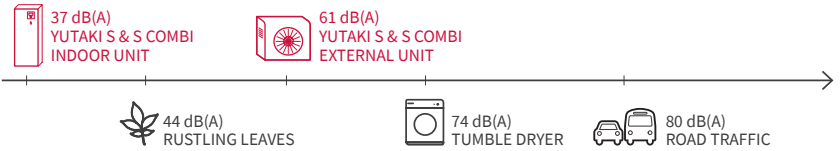
* 7°C ext./35°C water.

UP TO
70%⁽¹⁾
ENERGY SAVINGS

MORE COMFORT

- Operation guaranteed down to an outdoor temperature of -25°C (depending on model).
- The indoor unit is ultra-silent at only 37 dB(A) (depending on model).

Low sound pressure level (at 1 meter from the unit, decibels dependent on the model).



MORE ECONOMICAL

Hitachi products combine performance with great economy and have some of the highest energy efficiency ratings.

A high-performance boiler

heating mode

A

DHW mode

B



Yutaki S and S Combi 4kW

heating mode

A+++*

DHW mode

A+*



MORE ECOLOGICAL

Hitachi is committed to environmental protection through the introduction of the new R32 refrigerant in its heat pumps.

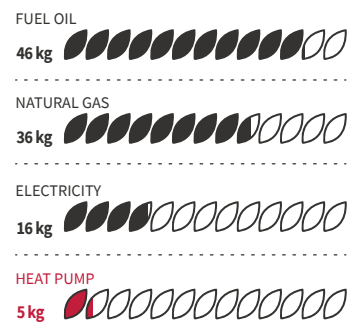
- Our new R32 models are 5 to 15% more efficient than the R410A.
- More environmentally responsible, R32 reduces the volume of refrigerant in our units by 30% while also delivering better performance.

Contrary to classic heating boilers, Hitachi heat pumps have no direct CO₂ emissions. (CO₂ only linked to the production of electricity).

Unique amongst heating systems, this is the only one capable of producing more power than it consumes.



Emission rate of CO₂ annually and by m²



Emission level of CO₂ annually and by m² of the structure for a 125 m² house built in 1980 in the Rhône region. Energy costs in accordance with www.developpement-durable.gouv.fr. Depending on location and use of the compared systems. (Jan 2013, base 100).

RANGE ELIGIBLE FOR FINANCIAL SUBSIDIES.**

RHI

FINANCIAL ASSISTANCE WITH RHI



MCS CERTIFICATE

Learn more about your Hitachi premium products⁽²⁾

For more information about financial assistance, consult this website (energysavingtrust.org.uk/renewable-energy/installation/renewable-heat-incentive).

** In accordance with financial arrangements currently in place.

⁽¹⁾ Compared to electric heater. Example provided as a guide. In accordance with installation conditions, use and location.

A SUMMARY OF A TECHNOLOGY DESIGNED TO DELIVER PERFORMANCE

Discover all the benefits of the Yutaki S and S COMBI which combine **performance, savings, design and ease of use.**

① A LOW-CONSUMPTION PUMP

.....
This low-consumption pump adapts its flow rate to the needs of domestic heating, achieving cost-savings of up to 60% compared to a traditional pump.

② A SOLUTION TO SUIT YOUR REQUIREMENTS

.....
Even in the case of additional heating needs, three stage backup heaters ensure guaranteed levels of comfort for heating and domestic hot water are maintained.

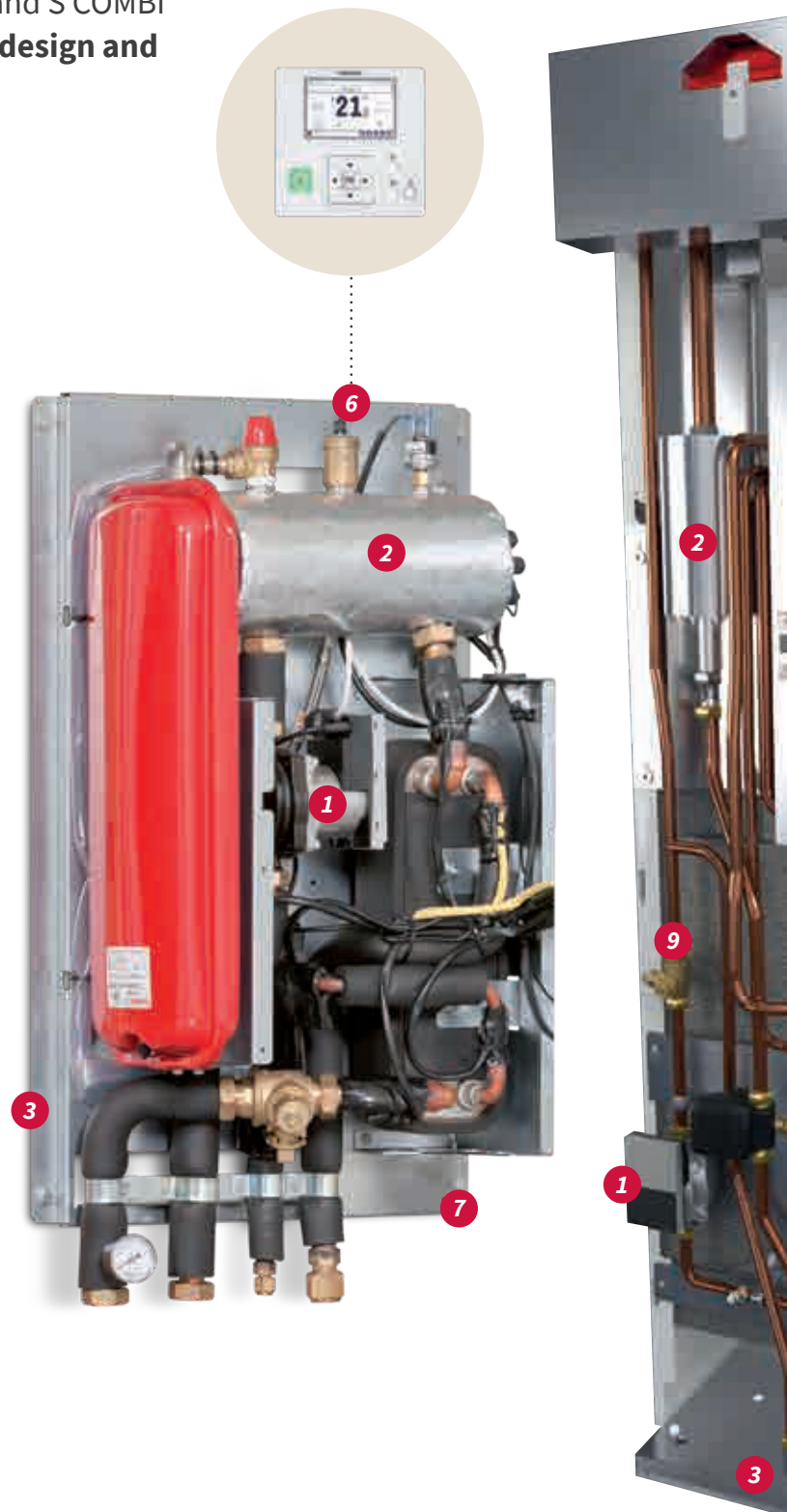
③ REVERSIBLE FOR ALL YEAR ROUND COMFORT

.....
Enjoy the dual function providing heating in the winter and cooling in the summer (underfloor heating or convector fans only).

④ INTEGRATED DOMESTIC HOT WATER (optional for Yutaki S)

.....
Domestic hot water cylinders (200L to 260L) enable you to assure the hot water needs of a family of up to 6 people.

.....
The cylinder has dual protection for outstanding durability: treated passivation film + magnesium anode.



WITH HITACHI,
PLACE YOUR
CONFIDENCE IN
THE EXPERTS



WITH **60** YEARS

OF EXPERIENCE IN
AIR-CONDITIONING
AND HEATING



WITH **4.5 MILLION**

HEATING SYSTEMS
MANUFACTURED
WORLDWIDE EACH YEAR



WITH **1000s**

OF CUSTOMERS
IN THE UK & IRELAND

**MANUFACTURER
GUARANTEES**



GUARANTEE ON THE
COMPRESSOR



GUARANTEE ON THE OTHER
COMPONENTS

⑤ CLEAN WATER

The domestic hot water cylinder (200L or 260L) prevents the proliferation of bacteria thanks to its anti-*Legionella* function, even during extended periods of inactivity.

⑥ CONTROL SIMPLIFIED BY HITACHI

Hitachi had a dream of simplicity! You will appreciate:

- The new intuitive interface.
- Weekly programmable timer
- Control of your space heating and hot water.
- The scope for managing a second heating zone.
- Heating management for your swimming pool.
- Electrical consumption reduced in standby mode.
- Management of your backup boiler.
- The control interface can also be used as a room thermostat (wired).

⑦ ENERGY SAVINGS WITH INVERTER TECHNOLOGY

The compressor developed and manufactured by Hitachi incorporates inverter technology. This enables the heat pump to modulate its operating performance to meet the needs of residential heating precisely. Inverter technology reduces consumption by 30% compared to a traditional compressor, creating a reduction in your electricity bill.

⑧ PREMIUM INSULATION ON THE DHW CYLINDER

NEOPOR technology offers significantly higher insulating properties compared to other insulating material. Ecological and efficient, Neopor needs less thickness (5mm) for better performance and reduced energy losses.

⑨ SIMPLIFIED CLEANING

The filter ball valve allows for easy cleaning without purging the system.



MADE-TO-MEASURE INSTALLATION

FOR NEW PROPERTIES & RETROFITS



1. External unit



2. Yutaki S
internal unit



3. Yutaki S Combi
internal unit



4. Suitable for both
radiators and underfloor
heating



5. Wireless remote
control handset

SIMPLIFIED INSTALLATION

The Yutaki S and S Combi can be used with all types of heating system: radiators, underfloor heating, convector fan...

COMPACT AND SILENT

Thanks to their compact size (Yutaki S 45 cm wide and Yutaki S Combi 60 cm wide), the internal module of the heat pump is as compact as a standard size kitchen cabinet. The internal unit also has a noise level similar to that of a premium refrigerator.

COMFORT ALL YEAR ROUND

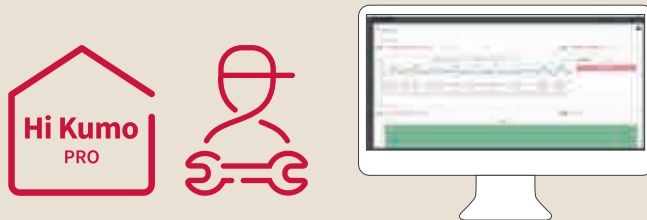
The Yutaki S and S Combi provide heating and cooling for your accommodation, over one or more floors.

Whatever the temperature outdoors, your heat pump provides perfect heating comfort.

WOULD YOU LIKE TO LEARN MORE ABOUT OUR HEAT PUMP MODELS?

Learn more about your Hitachi premium products at www.hitachi-hvac.co.uk

CONTROL YOUR LEVEL OF COMFORT



HI KUMO PRO

The remote maintenance solution. Your maintenance company will have remote access to monitoring and controlling your heat pump, for a service which is second to none.

- Access to operating data in real time and the history, from over 80 settings.
- Alarm and troubleshooting assistance information.
- Remote control.



WIRED ROOM TEMPERATURE SENSOR (optional for 2nd zone)

Let your heat pump manage things for you

Your comfort is improved by the responsiveness of your control system.



INTELLIGENT WIRELESS ROOM REMOTE CONTROL HANDSET

Appreciate its simplicity

- You manage the internal temperature of your home very simply indeed.
- You can add an extra wireless thermostat to control two different zones in your property.



WIRED REMOTE CONTROL (included)

WIRED PROGRAMMABLE THERMOSTAT

Multiple range of functions. As well as essential functions, you will have access to:

- **weekly programming:** enables you to configure up to 5 different temperature ranges each day;
- **the «holiday» function:** assures an ideal temperature for your property while you are away from home, using setpoint temperatures that you set up before leaving;
- **the frost protection function :** protects your system in winter;
- **your annual energy consumption levels** are stored and displayed.



HI KUMO®

Stay connected with your Hi Kumo® from Hitachi:

- Remote control of your heat pump via smartphone, tablet, PC;
- the full range of functions can be accessed easily;
- control temperatures, ventilation;
- weekly programming;
- holiday function ;
- assistant function: program your heating configuration in advance simply by answering 3 questions ;
- SMART TIP function : in a single click, lower your setpoint temperatures and save up to 7% on energy costs.



TAHOMA BY SOMFY®

Experience Somfy® domestic control with all of your Hitachi products and all compatible elements in your home:

- remote control of your home using your smartphone, tablet or PC;
- manage more than 100 items of compatible equipment using just 1 application;
- your TAHOMA box from Somfy® enables you to control your heat pump, your roller blinds, your gates, your garage door, your lighting ...

YUTAKI S AND S COMBI

HEATING AND HOT WATER / HEATING ONLY MODULES		R32 REFRIGERANT					R410A REFRIGERANT			
		YUTAKI S YUTAKI S COMBI	UNIT	RWM-2.0NRE RWD-2.0NRWE- (200/260)S / K	RWM-2.5NRE RWD-2.5NRWE- (200/260)S / K	RWM-3.0NRE RWD-3.0NRWE- (200/260)S / K	RWM-4.0NE RWD-4.0NWE- (200/260)S / K	RWM-5.0NE RWD-5.0NWE- (200/260)S / K	RWM-6.0NE RWD-6.0NWE- (200/260)S / K	RWM-8.0NE RWD-8.0NWE- (200/260)S / K
Nominal capacity /max. heating (7°C ext/35°C water)	kW		4.3/6.5	6/8.6	8/11	11/15.2	14/16.7	16/17.8	20/25.5	24/32
Nominal capacity /max. heating (-7°C ext/35°C water)	kW		4.5/5.3	5.3/6.2	5.8/7.5	9.7/10.6	11.5/12	12/13	14.2/17.9	16.5/21
Nominal capacity /max. heating (-7°C ext/55°C water)	kW		4/4.2	4.7/5	5/5.5	8.7/9.7	9.7/11.2	10.5/12	12.5/14.5	15.5/17.3
Nominal capacity cooling (35°C ext/7°C water) (reversible)	kW		4	5.3	6.5	7.2	9.5	10.5	14	17.5
Electrical backup heater (3 stages)	kW		3	3	3	6	6	6	9	9
Electrical backup heater DHW Yutaki S COMBI	kW		3	3	3	3	3	3	-	-
Net weight/Yutaki S	kg		35	36	37	46	48	48	60	62
Net weight (200L/260L)/Yutaki S COMBI	kg		120/135	120/135	121/136	120/130	122/132	122/132	-	-
Dimensions (HxWxD)/Yutaki S and S COMBI	mm		712 x 450 x 275//1750 x 600 x 733			890 x 520 x 360//1750 x 600 x 733			890 x 670 x 360	
Sound power	dB(A)		37			39			47	
DHW cylinder volume/DHW cylinder material/Yutaki S COMBI	L					200 or 260L/Stainless steel				
Expansion vessel	L		6			6			10	
Water flow rate (min/nom/max)	m³/h		0.5/0.77/1.9	0.6/1.03/2	0.6/1.29/2.1	1/1.89/2.9	1.1/2.41/3	1.2/2.75/3	2/3.44/4.5	2.2/4.13/4.6
Minimum water volume in the system	L		28			38			46	
Power supply			230V/1Ph/50Hz			230V/1Ph/50Hz or 400V/3Ph/50Hz			400V/3Ph/50Hz	
Max. current with heater	A		14.6			30.5			-	
Cable size (mm²)/max length (m)			3 x 2.5/14			3 x 6/28			-	
Max. current with backup heater + cylinder immersion/Yutaki S Option/Yutaki S Combi	A		28.9/27.1			45.5/44.8			-	
Cable size (mm²)/max. length (m)/Yutaki S/Yutaki S Combi			3 x 6/28			3 x 10/30/3 x 10/34			-	
Max. current with heater	A		-	-	-	10.3			15.3	
Cable size (mm²)/max length (m)			-	-	-	5 x 2.5/20			5 x 4/14	
Max. current with backup heater + cylinder immersion/Yutaki S Option/Yutaki S Combi	A		-	-	-	25.4/24.7			30.4	
Cable size (mm²)/max. length (m)/Yutaki S/Yutaki S Combi			-	-	-	5 x 6/30			5 x 10/29	
Hydraulic heating connections (male/male valves supplied)	inches		1"			1"1/4			-	
DHW hydraulic connections/Yutaki S Combi	inches		3/4"			3/4"			-	
Outlet temperature range of water (heating mode)	°C					20/60°C			-	
Outlet temperature range of water (DHW mode)/Yutaki S Combi	°C		30/55			30/60			-	
PREMIUM OUTDOOR UNITS			RAS-2WHVRP	RAS-2.5WHVRP	RAS-3WHVRP	RAS-4WH(V) NPE	RAS-5WH(V) NPE	RAS-6WH(V) NPE	RAS-8WHNPE	RAS-10WHNPE
Nominal power input heating (7°C ext/35°C water)	kW		0.77	1.21	1.6	2.2	2.97	3.5	4.65	5.59
COP/SCOP at 35°C			5.25/4.6	4.8/4.5	4.6/4.5	5/4.8	4.71/4.48	4.57/3.9	4.3/3.88	4.29/3.6
Nominal power input cooling (35°C ext/7°C water)	kW		1.17	1.54	2.14	2.18	2.95	3.72	4.48	4.08
EER (reversible model)			4	3.6	3.35	3.54	3.54	3.31	3.12	2.81
Seasonal energy efficiency rating heating ηs (35°C)/energy efficiency class ⁽¹⁾	%		183	179	175	189/188	177/176	155/154	152	143
Seasonal energy efficiency rating heating ηs (55°C)/energy efficiency class ⁽¹⁾	%		135	132	125	138/137	135/135	127/127	122	118
Reversible seasonal energy efficiency ratio ηs (35°C)/energy efficiency class ⁽¹⁾	%		188	182	178	191/191	178/178	155/155	154	144
Reversible seasonal energy efficiency ratio ηs (55°C)/energy efficiency class ⁽¹⁾	%		138	134	127	139/139	136/136	128/128	124	120
Seasonal energy efficiency ratio nwh (200L cycle L/260L cycle XL)	%		132/136			130/134			-	
Sound power level/ sound pressure 1m	dB(A)		61/46	63/47	67/54	64/49	65/50	67/50	73/59	74/60
Air flow rate	m³/h		2436			4800	5400	6000	7620	8040
Dimensions (H x L x D)	mm		629 x 799 x 300			1380 x 950 x 370				
Net weight	kg		45			44	103		137	139
Power supply			230V/1Ph/50Hz			230V/1Ph/50Hz or 400V/3Ph/50Hz			400V/3Ph/50Hz	
Max. current	A		10.4	12.9	15.8	30.5			-	
Cable size (mm²)/max length (m)			3 x 2.5/28	3 x 2.5/24	3 x 4/21	3 x 6/30			-	
Max. current	A		-	-	-	14	14	16	24	
Cable size (mm²)/max length (m)			-	-	-	5 x 2.5/14			5 x 6/26	
Int/Ext connection (shielded)	mm²		2 x 0.75			2 x 0.75			2 x 0.75	
Diameter of refrigeration pipes (Liq - Gas)	inches		1/4" - 1/2"		1/4" 5/8" from 3 to 27m* 3/8" 5/8" from 27 to 50m*	3/8" - 5/8"		3/8" - 1"1/8	1/2" - 1"1/8	
Max. Length/Height difference	m		50/20			75/20			70/20	
Initial charge of pre-charged refrigerant/Additional charge	kg/g/m		1.2 for 10m/15	1.3 for 10m/15	1.3 for 10m/32	3.3 for 15m/60		3.4 for 15m/60	5 for 15m/65	5.3 for 15m/65
Cooling/Heating/DHW operating ranges	°C		+10~+46// -20~+25// -20~+35			+10~+46// -20~+25// -20~+35				
Refrigerant			R32			R410A				
Compressor			SCROLL			ROTARY	SCROLL		SCROLL	

 SINGLE-PHASE
230V

THREE-PHASE
400V

 SINGLE-PHASE
230V

THREE-PHASE
400V

JOHNSON CONTROLS - HITACHI AIR CONDITIONING EUROPE SAS

Your installation technician, a source of expertise, a professional
 He will know how to select products suited to your needs, to perform installation to state-of-the-art standards and to provide after-sales support through a maintenance contract.

hitachi-hvac.co.uk

Keymark certification

The commercial guarantees offered by Hitachi relate to the components used in our machines. Without reservation, they apply to an installation that complies with our technical specifications and they are contingent upon regular maintenance of equipment items by skilled personnel. The frequency of maintenance work is linked to the conditions of use of the hardware and to prevailing legislation. Contact your installation technician for advice.

Registered address Bldg 7, Foundation Park, Roxborough Way, Maidenhead, SL6 3UD

⁽¹⁾ Seasonal energy efficiency class with integrated controller. * For the 2/2.5/3HP R32 models, the diameters of the refrigerant pipes for the outdoor units and interior units are different. Therefore, adapters provided with the outdoor unit should be used. Refer to the technical catalog table.

