HITACHI

Yutaki S Yutaki SCombi

Split air-to-water heat pump









The best solution for Heating, Cooling, & Domestic Hot water





INDEX

Discover the new generation of Yutaki S and Yutaki SCombi heat pumps. With their new design, high performances and best controls it is the perfect solution for all your projects!

04	Air-to-water heat pumps
04	Yutaki S & Yutaki SCombi line-up
05	Yutaki applications
06	Features & benefits
08	Controls and connectivity
10	Accessories and online tools
12	Technical data

Air-to-water heat pump

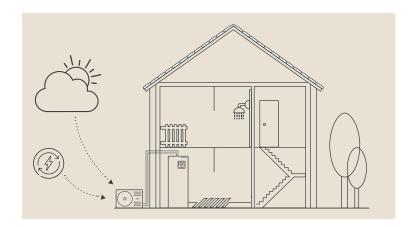
Renewable energy solution

Using renewable energy like air, Hitachi Yutaki air source heat pumps are generating high energy savings having low impact on environment.

Our products are the best support to the green transition and directly contribute to a sustainable and low carbon energy future. Among the best heating systems that suit for all kind of houses, air-to-water heat pumps are able to collect an important amount of energy using only few quantity of electricity.



(1) Keymark certification under process



ENERGY SAVINGS:

INDOOR UNITS

Hitachi air source heat pumps transform energy from outside air, providing perfect comfort at home and reducing energy consumption.

NEW YUTAKI S & SCOMBI LINE-UP

Model	kW	4.3	6	8	11	14	16	20	24
Yutaki S		•	•	•	•	•	•	•	•
Yutaki SCombi		•	•	•	•	•	•		

OUTDOOR UNITS



WIDE CAPACITY RANGE: Among the widest ranges on the market from 4.3 to 24kW!



Yutaki SCombi

Yutaki applications

Ideal solution for house renovation or new house building



VERSATILITY & HIGH EFFICIENCY

Yutaki S and Yutaki SCombi meet all your needs for Heating, Cooling or Domestic Hot Water with:

- External tank for wall mounted indoor units
- Integrated tank for floor standing units.

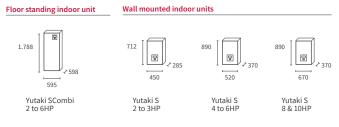
COMPACT DIMENSIONS: Yutaki SCombi cabinet is less than 600x600!



Yutaki can be connected to all kind of emitters such as underfloor heating, radiators or fancoils. Combination with other systems like boiler, solar panels or swimming pool is also easy to do as all controls are embedded in standard in Hitachi Yutaki.



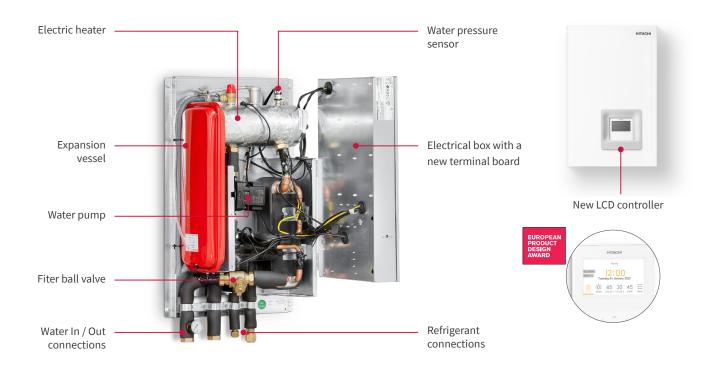
a new 220L stainless steel tank



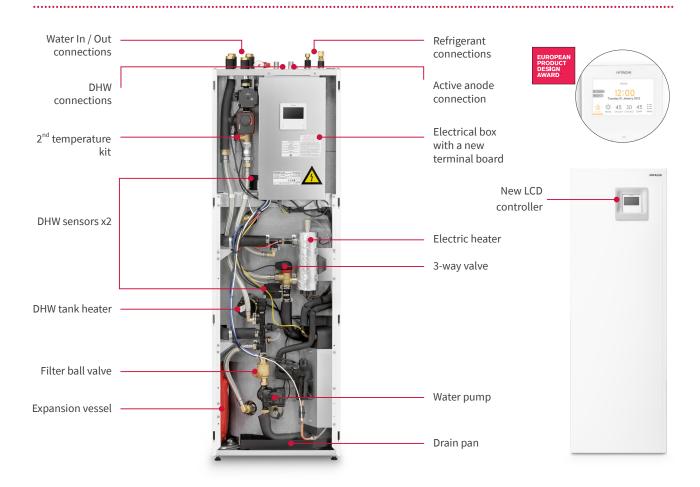
Features & benefits

New indoor unit design, more functionalities

YUTAKI S: A WIDE RANGE FROM 4.3 TO 24KW



YUTAKI SCOMBI: MOST COMPACT ALL-IN-ONE MODEL OF THE MARKET



Switch to low GWP refrigerant is

well underway at JCH

Best performances for a high level of comfort

The most efficient range all year long, whatever the function is

- Seasonal efficiency up to A+++
- Best efficiency: COP 5.25 and EER 5.4
- 60°C down to -10°C outside



work

house

controller

BEST PERFORMANCES FOR A HIGH LEVEL OF COMFORT

Keymark certified

100% of the range HP Keymark certified

Exclusive European-designed unit

Better support installers in their

• Optimized integration into the

• Reduced installation footprint

• Easy to get familiar with the LCD

- Unique European certification
- Highest level of quality and performances guaranteed



Connected solution

Take the control of Yutaki from anywhere!

- Remote control
- Remote maintenance



Plug & Play units

Make installation easy and quick for all installers

- Connections aligned on the top
- Easy access to all components
- Exclusive functionalities on the LCD controller (Wizard, Live view, Commissioning menu)



Controls & connectivity

Newest LCD controller generation





Outstanding design and user experience.

With a sleek, award-winning design, our new advanced color controller offers elegance and ease-of-use.

New Yutaki S & SCombi LCD controller can be detached from indoor units and be used as a wired room thermostat.







INTUITIVE AND VISUAL INTERFACE WITH EXCLUSIVE FUNCTIONALITIES

LCD controller can operate as both unit controller and wired thermostat.

- All controls embedded in the LCD controller of Yutaki: second circuit, boiler combination, swimming pool operation, electric heater, etc.
- Configuration of the unit is done in few clicks through the LCD controller!
- ① WIZARD: An intuitive 10-question configuration assistant to get your installation up and running in just 2 minutes. Simple, fast, and always closest to your needs. Answering a short series of questions, unit is configured and ready to operate.
- ② **SYNOPTIC VIEW:** Sytem status can be checked easily directly on the LCD controller with the synoptic view showing unit's live operation information: 23 operating data registered every 5 min.
- ③ FAN COILS CONTROL: No more dedicated thermostat for fan coils is needed. With Yutaki, LCD controller can directly manage the fan coils speed and mode.
- **ENERGY CONSUMPTION:** Check and compare directly in Yutaki LCD controller, energy data (input power or capacity) for space heating, cooling, DHW, swimming pool or total of the installation.









(2) Synoptic view





(3) Fan coils control

(4) Energy consumption

HIKUMO & HIKUMO Pro applications



Control your Yutaki heat pump remotely with HIKUMO application:

- Set temperature for heating, cooling, domesitc hot water and swimming pool
- Activate Holiday mode or Weekly timer in few seconds
- Be notified in case of alarm on your system

Going even further with Hitachi remote maintenance system for

- Check live operational datas of all connected heat pumps
- Alarm notification by email

Installers HIKUMO Pro:

• Troubleshooting guide available in few clicks

Communication interfaces for HIKUMO app and HIKUMO Pro



Home Automation gateway

ATW-TAG-02



HiBox AHP-SMB-01

ROOM THERMOSTATS & CASCADE CONTROLLER

New Yutaki S and Yutaki SCombi are still compatible with our range of thermostat.

Intelligent wireless thermostat

(ATW-RTU-07)



Intelligent wireless thermostat (Circuit 2)

(ATW-RTU-06)



Wired thermostat

(PC-ARFH2E)



Cascade controller (NEW)



(ATW-YCC-03)



New cascade controller available for the new generation of Yutaki S and Yutaki SCombi. One central controller to coordinate Yutaki operation installed in cascade:

- Control up to 8 Yutaki in cascade
- Heating, Cooling and DHW
- Exclusive functions: rotary control, alarm control, intelligent defrost

Accessories & online tools

ACCESSORIES



Cooling kit Yutaki S ATW-CKS-01/02/03



Cooling kit Yutaki SC ATW-CKSC-02



Cooling kit Yutaki SC (drain pump inc)
ATW-CKSC-03



2nd outdoor temp. sensor ATW-20S-02



Indoor wired sensor ATW-ITS-01



Univ.water temp sensor ATW-WTS-02Y



Active anode ATW-CP-05



2nd temp. kit (wall) ATW-2TK-07



2nd temp. kit (integrated) ATW-2TK-08



Hydraulic separator ATW-HSK-01



DHW Tanks
DHWT-200/300S-3.0H2E



Aquastat ATW-AQT-01



3-way valve ATW-3WV-01



Water check valve ATW-WCV-01



Diff. pressure valve ATW-DPOV-01



KNX gateway



Modbus gateway ATW-MBS-02 HCA16MB



Auxiliary output signal box ATW-AOS-02

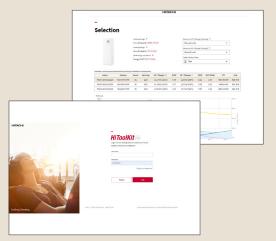
Accessories dedicated to protect outdoor units from severe climate conditions are available:

- Snow protections
- Air flow guide
- Wind protections
- Drain pan heater.

- · Easy to use and modern interface
- Wide range of functionalities:
 - Selection according to heating and cooling needs
 - Accessories' automatic selection
 - Installation cost
 - Complete report etc.
- Cascade configuration with all Yutaki available, with cascade controller option

Use this link:

https://www.hitachi-hitoolkit.com/yutaki/login

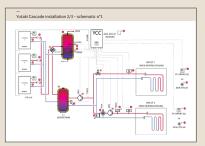


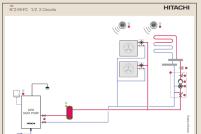
YUTAKI APPI ICATIONS

Exclusive online schematic librairy for Yutaki air-to-water heat pumps.

- Answering fewer than 10 questions, a simple hydraulic schematic is generated
- Numerous information on hydraulic installation, electrical connections to Yutaki terminal board and accessories needed for the installation (Hitachi / field supply)
- Single or cascade installations









Use this link:

www.yutaki-applications.com

Technical data

Model				R32				R410A		
Model			YUTAKI S 4.3kW	YUTAKI S 6kW	YUTAKI S 8kW	YUTAKI S 11kW	YUTAKI S 14kW	YUTAKI S 16kW	YUTAKI S 20kW	YUTAKI S 24kW
Heating perf	formances (preliminary data)									
Min./nom./m	nax. heating capacity (A7/W35)	kW	1.85 / 4.3 / 6.5	1.85 / 6 / 8.6	2.1/8/11	4.3 / 11 / 15.2	4.8 / 14 / 16.7	5.5 / 16 / 17.8	9 / 20 / 25.5	10 / 24 / 32
Nom./max. h	neating capacity (A-7/W35)	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
Nom./max. h	neating capacity (A-7/W45)	kW	-/5	- / 5.8	- / 6.67	10 / 10	11 / 11.6	11.5 / 12.5	15 / 16.6	16.5 / 18.5
	neating capacity (A-7/W55)	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
Nom. power input (A7/W35)		kW	0.82	1.25	1.74	2.2	2.97	3.5	4.65	5.59
COP (A7/W35) according to EN14511		-	5.25	4.8	4.6	5	4.71	4.57	4.3	4.29
SCOP average climate 35°C / 55°C according to EN14825		-	4.6 / 3.4	4.5 / 3.25	4.5 / 3.2	4.75 / 3.48	4.45 / 3.4	3.9 / 3.20	3.83 / 3.08	3.6 / 2.98
Seasonal heating energy efficiency ηs (35°C) 1~/3~		%	181	177	177	187 / 186	175 / 174	153 / 152	- / 150	- / 141
Seasonal heating energy efficiency ηs (55°C) 1~/3~		%	133	127	125	136 / 135	133 / 133	125 / 125	- / 120	-/116
Energy class		-		A+++/A++		A+++	-/A++	A++/A++ 20/60°C	A++/A+	A+/A+
	temperature range (heating mode)	°C		20/60°C						
Max. water te only	emperature outlet in thermodynamic mode	°C	60°C	down to -5 °C o	utside	60°C down to -10 °C outside				
Cooling perf	formances (optional) (preliminary data)									
Nom./max. c	cooling capacity (A35/W7)	kW	4/5	5.3 / 6	6.5 / 7	7.2 / 11.8	9.5 / 12.6	10.5 / 13.7	14 / 16.4	17.5 / 20.6
	input (A35/W7)	kW	1	1.47	1.94	2.18	2.95	3.72	4.48	4.08
EER		-	4	3.6	3.35	3.54	3.54	3.31	3.12	2.81
INDOOR UNI			RWM-2.0R1E	RWM-2.5R1E	RWM-3.0R1E	RWM4.0N1E	RWM5.0N1E	RWM6.0N1E	RWM8.0N1E	RWM10.0N1
Electric heat Net weight	er / 3 steps	kW kg	3 (1+1+1) 35	3 (1+1+1) 36	3 (1+1+1) 37	6 (2+2+2) 46	6 (2+2+2) 48	6 (2+2+2) 48	9 (3+3+3) 60	9 (3+3+3) 62
Dimensions	(H.v.L.v.D)		35	712 x 450 x 285		46	890 x 520 x 370			
Sound powe		mm dB(A)		37	,		39	,		70 x 370 47
Hydraulic da	ata									
Expansion ve	essel	L		6			6		1	.0
Water flow (r	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
Shutdown va	alves (male/male valves supplied)	inches		1"			1" 1/4		1"	1/4
Min. installation water volume		L		28		38	46	55	76	79
Electrical da	ata									
Power suppl	ly	-	230V / 1Ph	/ 50Hz or 400V	/ 3Ph / 50Hz	230V / 1Ph	/ 50Hz or 400V /	3Ph / 50Hz	400V / 3F	Ph / 50Hz
	Max. current with electric heater	Α		14.9			30.5			
4 2201/	Cable width (mm ²) / max. length (m) (1)	-		3 x 2.5 / 14			3 x 6 / 28	-		
1~ 230V	Max. current with electric heater + tank/	Α	29.3				45.5			
	Yutaki S Optional	^								
	Cable width (mm²) / max. length (m) (1)	-		3 x 6 / 28			3 x 10 / 30			
	Max. current with electric heater	-		5.3			10.3		15	
2 4001/	Cable width (mm²) / max. length (m) (1)	-	-	-	-		5 x 2.5 / 20		5 x 2.	5 / 20
3~400V	Max. current with electric heater + tank/ Yutaki S Optional	-		19.7			25.4		30).4
	Cable width (mm²) / max. length (m) (1)	-	-		-		5 x 6 / 20		5 x 6	/ 20
			RAS-	RAS-	RAS-	RAS-	RAS-	RAS-	RAS-	RAS-
OUTDOOR U			2WHVRP1	2.5WHVRP1	3WHVRP1	RAS- 4WH(V)NPE	5WH(V)NPE	RAS- 6WH(V)NPE	8WHNPE	10WHNPE
Sound press Heating mod	sure level at 1m / Sound power level in	dB(A)	46 / 61	47 / 63	54 / 64	49 / 64	50 / 65	50 / 67	59 / 73	60 / 74
Air flow rate		m³/h	24	36	2682	4800	5400	6000	7620	8040
Dimensions		mm	2.	629 x 799 x 300		1000		1380 x 950 x 370		00.10
Net weight	,	kg	4	5	44		103		137	139
Operating ra	anges in Cooling / Heating / DHW	°Č	+10~+46DB // -20~+25DB // -20~+35			+10~+46DB // -25~+25DB // -25~+35				
Refrigerant o	data									
	Piping diameter (Liquid - Gas) inches		1/4" - 5/8" 3 to 27m* 3/8" 5/8" 27 to 50m*		3/8" 5/8"			3/8" 1"	1/2" 1"	
Piping diame	eter (Liquid - Gas)			3 - 50 3 - 40		5 - 75			5	- 70
Min./max. pi	iping length	m								
Min./max. pi	, ,	m	30	/ 20	30 / 20		30 / 20			/ 20
Min./max. pi Height diff. b Refrigerant c	iping length			/ 20 1.3 for 10m / 15		3.3 for 15m / 60		15m / 60	30 5 for 15m / 65	
Min./max. pi Height diff. b Refrigerant c Refrigerant	iping length netween OU & IU – (Higher OU / Lower OU) charge / Additional refri. charge needeed	m	30 1.2 for 10m / 15	1.3 for 10m / 15 R32	30 / 20 1.3 for 10m / 30			R410A	5 for 15m	5.3 for 15m
Min./max. pi Height diff. b Refrigerant c Refrigerant Compressor	iping length between OU & IU – (Higher OU / Lower OU) charge / Additional refri. charge needeed	m	30 1.2 for 10m / 15	/ 20 1.3 for 10m / 15	30 / 20 1.3 for 10m				5 for 15m	5.3 for 15m
Min./max. pi Height diff. b Refrigerant c Refrigerant Compressor Electrical da	iping length between OU & IU – (Higher OU / Lower OU) charge / Additional refri. charge needeed	m kg/g /m - -	30 1.2 for 10m / 15	/ 20 1.3 for 10m / 15 R32 OLL	30 / 20 1.3 for 10m / 30 ROTARY	/ 60	3.4 for	R410A SCROLL	5 for 15m / 65	5.3 for 15m / 120
Min./max. pi Height diff. b Refrigerant c Refrigerant Compressor Electrical da Power suppl	iping length between OU & IU – (Higher OU / Lower OU) charge / Additional refri. charge needeed	m	30 1.2 for 10m / 15	1.3 for 10m / 15 R32	30 / 20 1.3 for 10m / 30 ROTARY	/ 60		R410A SCROLL	5 for 15m / 65	5.3 for 15m
Min./max. pi Height diff. b Refrigerant c Refrigerant Compressor Electrical da Power suppl	iping length between OU & IU – (Higher OU / Lower OU) charge / Additional refri. charge needeed ata y Max. current Cable width (mm²) / max. length (m) (ii)	m kg/g /m - - - A	30 1.2 for 10m / 15	/ 20 1.3 for 10m / 15 R32 OLL 30V / 1Ph / 50H	30 / 20 1.3 for 10m / 30 ROTARY	/ 60 230V / 1Ph	3.4 for 0 / 50Hz or 400V 30.5 3 x 6 / 30	R410A SCROLL / 3Ph / 50Hz	5 for 15m / 65 400V / 3	5.3 for 15m / 120
Min./max. pi Height diff. b Refrigerant c	iping length netween OU & IU – (Higher OU / Lower OU) charge / Additional refri. charge needeed nta ly Max. current	m kg/g /m - - A	30 1.2 for 10m /15 SCR	/ 20 1.3 for 10m / 15 R32 OLL 30V / 1Ph / 50H 12.9	30 / 20 1.3 for 10m / 30 ROTARY	230V/1Ph	3.4 for 0 / 50Hz or 400V 30.5	R410A SCROLL	5 for 15m / 65	5.3 for 15m / 120

⁽¹⁾ Data given for reference purposes only. Compliant with the applicable electrical standards. (V) = mono. * 2/2.5/3HP R32 models have different diameters for the cooling gas pipes, cooler connection groups, and indoor units. For that reason, use the adapters provided with the outdoor unit.

R410A

Yutaki SCombi

Model										
Model			YUTAKI SCOMBI 4.3kW	YUTAKI SCOMBI 6kW	YUTAKI SCombi 8kW	YUTAKI SCOMBI 11kW	YUTAKI SCOMBI 14kW	YUTAKI SCOMB 16kW		
Heating performa	nces (preliminary data)									
Min./nom./max. heating capacity (A7/W35)		kW	1.85 / 4.3 / 6.5	1.85 / 6 / 8.6	2.1 / 8 / 11	4.3 / 11 / 15.2	4.8 / 14 / 16.7	5.5 / 16 / 17.8		
	g capacity (A-7/W35)	kW	4.5 / 5.3	5.3 / 6.2	5.8 / 7.5	9.7 / 10.6	11.5 / 12	12 / 13		
Nom./max. heating capacity (A-7/W45)		kW	-/5	- / 5.8	- / 6.67	10 / 10	11 / 11.6	11.5 / 12.5		
,										
	g capacity (A-7/W55)	kW	4 / 4.2	4.7 / 5	5 / 5.5	8.7 / 9.7	9.7 / 11.2	10.5 /12		
lom. power input		kW	0.82	1.25	1.74	2.2	2.97	3.5		
COP (A7/W35) acco	ording to EN14511	-	5.25	4.8	4.6	5	4.71	4.57		
SCOP average climate 35°C / 55°C according to EN14825		-	4.6 / 3.4	4.5 / 3.25	4.5 / 3.2	4.8 / 3.5	4.48 / 3.43	3.9 / 3.23		
Seasonal heating e	energy efficiency ηs (35°C) 1~/3~	%	181	177	177	187 / 186	175 / 174	153 / 152		
_	energy efficiency ηs (55°C) 1~/3~	%	133	127	125	136 / 135	133 / 133	125 / 125		
		70	133	A+++ / A++	123	A+++		A++ / A++		
Energy class 35°C /						ATTT	,	ATT / ATT		
Water outlet temperature range (heating mode) Max. water temperature outlet in thermodynamic mode		°C	60	20 / 60°C °C down to -5 °C outsi	ido	20 / 60°C 60°C down to -10 °C outside				
only		C	00	e down to 5 e outsi	ide	00	e down to 10 e outs	ide		
OHW performance OHW COP (220L) ac	es (preliminary data)	-		3.2			3.1			
	•	%		130						
	fficiency η _{wh} (L cycle)	9/0					127			
Energy class		-		A+		A+				
leat up time		h:min		1:55			1:05			
Stand-by power in	put (Pes)	W		30			34			
	able hot water (Vmax)	L		288			288			
lemperature range	e of water outlet (DHW mode)	°C		30 / 55°C			30 / 55°C			
<u> </u>	nces (optional) (preliminary data)	1344	4 / 5	F2/6	65/7	72/110	0.5./*0.6	105/105		
,	g capacity (A35/W7)	kW	4/5	5.3 / 6	6.5 / 7	7.2 / 11.8	9.5 / 12.6	10.5 / 13.7		
Nom. power input	(A35/W7)	kW	1	1.47	1.94	2.18	2.95	3.72		
ER		-	4	3.6	3.35	3.54	3.54	3.31		
NDOOR UNITS			RWD-2.0RW1E-	RWD-2.5RW1E-	RWD-3.0RW1E-	RWD-4.0NW1E-	RWD-5.0NW1E-	RWD-6.0NW1E		
Electric heater / 3 s	steps	kW	3 (1+1+1)	220S 3 (1+1+1)	3 (1+1+1)	6 (2+2+2)	220S 6 (2+2+2)	6 (2+2+2)		
ank's heater		kW	2.7	2.7	2.7	2.7	2.7	2.7		
let weight		kg	120	120	121	124	126	126		
Dimensions (H x L >	v D)	mm	120	1788 x 595 x 598		12.1	1788 x 595 x 598	120		
	X D)									
Sound power	/ + i - l	dB(A)		37		39 220 / Punley				
DHW tank volume ,	/ material	L		220 / Duplex			220 / Duplex			
Hydraulic data										
Expansion vessel		L		6			6			
Nater flow (min./ne	om./max.)	m³/h	0.5 / 0.77 / 1.9	0.6 / 1.03 / 2	0.6 / 1.29 / 2.1	1 / 1.89 / 2.7	1.1 / 2.41 / 2.8	1.2 / 2.75 / 2.8		
Shutdown valves ((male/male valves supplied)	inches		1"			1" 1/4			
Connections for DF	HW .	inches		3/4"			3/4"			
Min. installation wa		L		28		38	46	55		
	ater votume	L		20		36	40			
Power supply		_	230V / 1	Ph / 50Hz or 400V / 3P	h / ₹94/20	230V / 1E	Ph / 50Hz or 400V / 3F	Ph / 50Hz		
	Max. current with electric heater	А	2507/11	27.1	117 30112	44.8				
L~ 230V	+ tank heater			21.1		3 x 10 / 30				
	Cable width (mm ²) / max. length (m) ⁽¹⁾			2 6/20						
	May current with electric heater	-		3 x 6 / 28			,			
1~ 400V	Max. current with electric heater + tank heater	-	-	3 x 6 / 28	-		24.7			
1~ 400V		-	-	3 x 6 / 28 - -	-		,			
	+ tank heater	-	- - RAS-2WHVRP1	3 x 6 / 28 - - - RAS-2.5WHVRP1	- - RAS-3WHVRP1	RAS-4WH(V)NPE	24.7	RAS-6WH(V)NI		
OUTDOOR UNITS Sound pressure lev	+ tank heater	- - dB(A)	- - RAS-2WHVRP1 46 / 61	-	- - RAS-3WHVRP1	RAS-4WH(V)NPE 49 / 64	24.7 5 x 6 / 20	RAS-6WH(V)NF 50 / 67		
OUTDOOR UNITS Sound pressure lev Heating mode	+ tank heater Cable width (mm²) / max. length (m) ⁽¹⁾	- - dB(A)	46 / 61	- RAS-2.5WHVRP1 47 / 63	54 / 67	49 / 64	24.7 5 x 6 / 20 RAS-5WH(V)NPE 50 / 65			
DUTDOOR UNITS Sound pressure lev Heating mode Air flow rate	+ tank heater Cable width (mm²) / max. length (m) ⁽¹⁾ vel at 1m / sound power level in	- - dB(A) m ³ /h	46 / 61	- - RAS-2.5WHVRP1 47 / 63			24.7 5 x 6 / 20 RAS-5WH(V)NPE 50 / 65 5400			
DUTDOOR UNITS Sound pressure level eating mode Air flow rate Dimensions (H x L x	+ tank heater Cable width (mm²) / max. length (m) ⁽¹⁾ vel at 1m / sound power level in	dB(A) m³/h mm	46 / 61	- RAS-2.5WHVRP1 47 / 63	54 / 67	49 / 64	24.7 5 x 6 / 20 RAS-5WH(V)NPE 50 / 65 5400 1380 x 950 x 370	50 / 67		
DUTDOOR UNITS Sound pressure level eating mode Air flow rate Dimensions (H x L x	+ tank heater Cable width (mm²) / max. length (m) ⁽¹⁾ vel at 1m / sound power level in	- - dB(A) m ³ /h	46 / 61 24	- - RAS-2.5WHVRP1 47 / 63	54 / 67	49 / 64	24.7 5 x 6 / 20 RAS-5WH(V)NPE 50 / 65 5400	50 / 67		
OUTDOOR UNITS Sound pressure lev Heating mode Air flow rate Dimensions (H x L x Net weight	+ tank heater Cable width (mm²) / max. length (m) ⁽¹⁾ vel at 1m / sound power level in	dB(A) m³/h mm	46 / 61 24	RAS-2.5WHVRP1 47 / 63 36 629 x 799 x 300	54 / 67 2682 44	49 / 64 4800	24.7 5 x 6 / 20 RAS-5WH(V)NPE 50 / 65 5400 1380 x 950 x 370	50 / 67 6000		
Heating mode Air flow rate Dimensions (H x L) Net weight	+ tank heater Cable width (mm²) / max. length (m)(1) vel at 1m / sound power level in x D)	dB(A) m³/h mm kg	46 / 61 24	RAS-2.5WHVRP1 47 / 63 4629 x 799 x 300	54 / 67 2682 44 ~+35	49 / 64 4800	24.7 5 x 6 / 20 RAS-5WH(V)NPE 50 / 65 5400 1380 x 950 x 370 103	50 / 67 6000		
DUTDOOR UNITS Sound pressure leveleating mode hir flow rate Dimensions (H x L x Det weight Deparating ranges in Refrigerant data Piping diameter (Li	+ tank heater Cable width (mm²) / max. length (m)(1) vel at 1m / sound power level in x D) n Cooling / Heating / DHW iquid - Gas)	dB(A) m³/h mm kg	46 / 61 24	RAS-2.5WHVRP1 47 / 63 136 629 x 799 x 300 15 -+46 // -20-+25 // -20-	54 / 67 2682 44 ~+35	49 / 64 4800	24.7 5 x 6 / 20 RAS-5WH(V)NPE 50 / 65 5400 1380 x 950 x 370 103	50 / 67 6000		
DUTDOOR UNITS Sound pressure levileating mode size flow rate Dimensions (H x L x Det weight Deparating ranges in Defrigerant data Piping diameter (Li Min./max. piping le	+ tank heater Cable width (mm²) / max. length (m)(1) wel at 1m / sound power level in x D) n Cooling / Heating / DHW iquid - Gas)	dB(A) m³/h mm kg °C inches	46 / 61 24 4 +10- 1/4" -	RAS-2.5WHVRP1 47 / 63 336 629 x 799 x 300 35+46 // -20~+25 // -20- 1/2"*	54/67 2682 44 *+35 1/4"-5/8" 3 to 27m* 3/8"5/8" 27 to 50m* 3-40	49 / 64 4800	24.7 5 x 6 / 20 RAS-5WH(V)NPE 50 / 65 5400 1380 x 950 x 370 103 +46 // -25~+25 // -25 3/8" 5/8" 5 - 75	50 / 67 6000		
DUTDOOR UNITS Sound pressure leveleating mode livin flow rate Dimensions (H x L x Det weight Departing ranges in Defrigerant data Diping diameter (Li Jin./max. piping le Defeight diff. betwee	+ tank heater Cable width (mm²) / max. length (m)(1) wel at 1m / sound power level in x D) n Cooling / Heating / DHW iquid - Gas) ength en OU & IU - (Higher OU / Lower OU)	dB(A) m³/h mm kg °C inches m m	46 / 61 24 4 +10- 1/4" - 3 - 30,	RAS-2.5WHVRP1 47 / 63 336 629 x 799 x 300 15+46 // -20+25 // -20- 1/2"* 50 / 20	54/67 2682 44 -+35 1/4" - 5/8" 3 to 27m* 3/8"5/8" 27 to 50m* 3-40 30/20	49 / 64 4800 +10·	24.7 5 x 6 / 20 RAS-5WH(V)NPE 50 / 65 5400 1380 x 950 x 370 103 +46 // -25 -+25 // -25 3/8" 5/8" 5 - 75 30 / 20	50 / 67 6000 ~+35		
DUTDOOR UNITS Sound pressure leveleating mode livin flow rate Dimensions (H x L x Det weight Departing ranges in Defrigerant data Diping diameter (Li Jin./max. piping le Defeight diff. betwee	+ tank heater Cable width (mm²) / max. length (m)(1) wel at 1m / sound power level in x D) n Cooling / Heating / DHW iquid - Gas)	dB(A) m³/h mm kg °C inches	46 / 61 24 4 +10- 1/4" -	RAS-2.5WHVRP1 47 / 63 336 629 x 799 x 300 35+46 // -20~+25 // -20- 1/2"*	54/67 2682 44 *+35 1/4"-5/8" 3 to 27m* 3/8"5/8" 27 to 50m* 3-40	49 / 64 4800	24.7 5 x 6 / 20 RAS-5WH(V)NPE 50 / 65 5400 1380 x 950 x 370 103 +46 // -25 -+25 // -25 3/8" 5/8" 5 - 75 30 / 20	50 / 67 6000		
DUTDOOR UNITS Sound pressure levileating mode livin flow rate Dimensions (H x L x Det weight Departing ranges in Defrigerant data Diping diameter (Li Din./max. piping le Defrigerant charge	+ tank heater Cable width (mm²) / max. length (m)(1) wel at 1m / sound power level in x D) n Cooling / Heating / DHW iquid - Gas) ength en OU & IU - (Higher OU / Lower OU)	dB(A) m³/h mm kg °C inches m m	46 / 61 24 4 +10- 1/4" - 3 - 30,	RAS-2.5WHVRP1 47 / 63 336 629 x 799 x 300 15+46 // -20+25 // -20- 1/2"* 50 / 20	54/67 2682 44 -+35 1/4" - 5/8" 3 to 27m* 3/8"5/8" 27 to 50m* 3-40 30/20	49 / 64 4800 +10·	24.7 5 x 6 / 20 RAS-5WH(V)NPE 50 / 65 5400 1380 x 950 x 370 103 +46 // -25 -+25 // -25 3/8" 5/8" 5 - 75 30 / 20	50 / 67 6000 ~+35		
DUTDOOR UNITS Sound pressure levelating mode sir flow rate bimmensions (H x L) let weight Operating ranges in Refrigerant data Piping diameter (Li din./max. piping le leight diff. betwee Refrigerant charge	+ tank heater Cable width (mm²) / max. length (m)(1) wel at 1m / sound power level in x D) n Cooling / Heating / DHW iquid - Gas) ength en OU & IU - (Higher OU / Lower OU)	dB(A) m³/h mm kg °C inches m m	46 / 61 24 4 +10- 1/4" - 3 - 3 0, 1.2 for 10m / 15	RAS-2.5WHVRP1 47 / 63 36 629 x 799 x 300 15+46 // -20+25 // -20- 1/2"* 50 / 20 1.3 for 10m / 15	54/67 2682 44 -+35 1/4" - 5/8" 3 to 27m* 3/8"5/8" 27 to 50m* 3-40 30/20	49 / 64 4800 +10·	24.7 5 x 6 / 20 RAS-5WH(V)NPE 50 / 65 5400 1380 x 950 x 370 103 +46 // -25 -+25 // -25 3/8" 5/8" 5 - 75 30 / 20 3.4 for 1	50 / 67 6000 ~+35		
DUTDOOR UNITS Sound pressure leveleating mode lain flow rate Dimensions (H x L x) Let weight Departing ranges in Refrigerant data Priping diameter (Li Ain./max. piping le Leight diff. betwee Refrigerant charge Refrigerant Compressor	+ tank heater Cable width (mm²) / max. length (m)(1) wel at 1m / sound power level in x D) n Cooling / Heating / DHW iquid - Gas) ength en OU & IU - (Higher OU / Lower OU)	dB(A) m³/h mm kg °C inches m m	46 / 61 24 4 +10- 1/4" - 3 - 3 0, 1.2 for 10m / 15		54 / 67 2682 44 -+35 1/4" - 5/8" 3 to 27m* 3 to 27m* 3 to 50m* 3 - 40 3 0 / 20 1.3 for 10m / 30	49 / 64 4800 +10·	24.7 5 x 6 / 20 RAS-SWH(V)NPE 50 / 65 5400 1380 x 950 x 370 103 -+46 // -25-+25 // -25 3/8" 5/8" 5 - 75 30 / 20 3.4 for 1 R410A	50 / 67 6000 ~+35		
DUTDOOR UNITS Sound pressure leveleating mode Air flow rate Dimensions (H x L) Net weight Diperating ranges in Refrigerant data Piping diameter (Li Min./max. piping le Height diff. betwee Refrigerant charge Refrigerant Compressor Electrical data	+ tank heater Cable width (mm²) / max. length (m)(1) wel at 1m / sound power level in x D) n Cooling / Heating / DHW iquid - Gas) ength en OU & IU - (Higher OU / Lower OU)	dB(A) m³/h mm kg °C inches m m	46 / 61 24 4 +10- 1/4" - 3 - 3 0, 1.2 for 10m / 15		54 / 67 2682 44 -+35 1/4" - 5/8" 3 to 27m* 3 to 27m* 3 to 50m* 3 - 40 3 0 / 20 1.3 for 10m / 30	49 / 64 4800 +10-	24.7 5 x 6 / 20 RAS-SWH(V)NPE 50 / 65 5400 1380 x 950 x 370 103 -+46 // -25-+25 // -25 3/8" 5/8" 5 - 75 30 / 20 3.4 for 1 R410A	50 / 67 6000 ~+35		
DUTDOOR UNITS Sound pressure leveleating mode Air flow rate Dimensions (H x L x) Net weight Deparating ranges in Refrigerant data Piping diameter (Li Alin,/max. piping leeleight diff. betwee Refrigerant charge Refrigerant Compressor Electrical data Power supply	+ tank heater Cable width (mm²) / max. length (m)(1) wel at 1m / sound power level in x D) n Cooling / Heating / DHW iquid - Gas) ength en OU & IU - (Higher OU / Lower OU) / Additional refri. charge needeed	dB(A) m³/h mm kg °C inches m kg/g	46 / 61 24 4 +10- 1/4" - 3 - 3 0, 1.2 for 10m / 15	RAS-2.5WHVRP1 47 / 63 36 629 x 799 x 300 15 ++46 // -20-+25 // -20- 1/2"* 50 1.3 for 10m / 15 R32	54 / 67 2682 44 *+35 11/4" - 5/8" 3 to 27m* 3/8" 5/8" 27 to 50m* 3-40 30 / 20 1.3 for 10m / 30 ROTARY	49 / 64 4800 +10-	24.7 5 x 6 / 20 RAS-5WH(V)NPE 50 / 65 5400 1380 x 950 x 370 103 -+46 // -25-+25 // -25 3/8" 5/8" 5 - 75 30 / 20 3.4 for 1 R410A SCROLL	50 / 67 6000 ~+35		
DUTDOOR UNITS Sound pressure level eating mode Air flow rate Dimensions (H x L x) Net weight Diperating ranges in Refrigerant data Priping diameter (Li Min./max. piping leeleight diff. betwee Refrigerant charge Refrigerant Compressor Electrical data Power supply	+ tank heater Cable width (mm²) / max. length (m)(1) wel at 1m / sound power level in x D) n Cooling / Heating / DHW iquid - Gas) ength en OU & IU – (Higher OU / Lower OU) / Additional refri. charge needeed Max. current	dB(A) m³/h mm kg °C inches m m kg/g	46 / 61 24 4 +10- 1/4" - 3 - 30, 1.2 for 10m / 15 SCR	RAS-2.5WHVRP1 47 / 63 336 629 x 799 x 300 15 ++46 // -20~+25 // -20- 1/2"* -50 /20 1.3 for 10m / 15 R32	54 / 67 2682 44 **35 **35 **27m** 3/8" 5/8" 27 to 50m* 3 - 40 30 / 20 1.3 for 10m / 30 ROTARY	49 / 64 4800 +10-	24.7 5 x 6 / 20 RAS-5WH(V)NPE 50 / 65 5400 1380 x 950 x 370 103 -+46 // -25 -+25 // -25 3/8" 5/8" 5 - 75 30 / 20 3.4 for 1 R410A SCROLL	50 / 67 6000 ~+35		
OUTDOOR UNITS Sound pressure level Heating mode Air flow rate Dimensions (H x L x) Net weight Operating ranges in Refrigerant data Piping diameter (Li Min./max. piping le Height diff. betwee	+ tank heater Cable width (mm²) / max. length (m)(1) wel at 1m / sound power level in x D) n Cooling / Heating / DHW iquid - Gas) ength en OU & IU - (Higher OU / Lower OU) / Additional refri. charge needeed Max. current Cable width (mm²) / max. length (m)(1)	dB(A) m³/h mm kg °C inches m kg/g /m	46 / 61 24 4 +10- 1/4" - 3 - 3 0, 1.2 for 10m / 15	RAS-2.5WHVRP1 47 / 63 36 629 x 799 x 300 15 ++46 // -20-+25 // -20- 1/2"* 50 1.3 for 10m / 15 R32	54 / 67 2682 44 *+35 11/4" - 5/8" 3 to 27m* 3/8" 5/8" 27 to 50m* 3-40 30 / 20 1.3 for 10m / 30 ROTARY	49 / 64 4800 +10- 3.3 for 15m / 60	24.7 5 x 6 / 20 RAS-5WH(V)NPE 50 / 65 5400 1380 x 950 x 370 103+46 // -25 +25 // -25 3 / 8" 5 / 8" 5 - 75 30 / 20 3.4 for 1 R410A SCROLL Ph / 50Hz or 400V / 3F 30.5 3 x 6 / 30	50 / 67 6000 ~+35		
DUTDOOR UNITS Sound pressure leveleating mode Air flow rate Dimensions (H x L x) Net weight Diperating ranges in Refrigerant data Piping diameter (Li Min./max. piping lee Height diff. betwee Refrigerant charge Refrigerant Compressor Electrical data Power supply	+ tank heater Cable width (mm²) / max. length (m)(1) wel at 1m / sound power level in x D) n Cooling / Heating / DHW iquid - Gas) ength en OU & IU – (Higher OU / Lower OU) / Additional refri. charge needeed Max. current	dB(A) m³/h mm kg °C inches m m kg/g	46 / 61 24 4 +10- 1/4" - 3 - 30, 1.2 for 10m / 15 SCR	RAS-2.5WHVRP1 47 / 63 336 629 x 799 x 300 15 ++46 // -20~+25 // -20- 1/2"* -50 /20 1.3 for 10m / 15 R32	54 / 67 2682 44 **35 **35 **27m** 3/8" 5/8" 27 to 50m* 3 - 40 30 / 20 1.3 for 10m / 30 ROTARY	49 / 64 4800 +10- 3.3 for 15m / 60	24.7 5 x 6 / 20 RAS-5WH(V)NPE 50 / 65 5400 1380 x 950 x 370 103 -+46 // -25 -+25 // -25 3/8" 5/8" 5 - 75 30 / 20 3.4 for 1 R410A SCROLL	50 / 67 6000 ~+35		

R32

(1) Data given for reference purposes only. Compliant with the applicable electrical standards. (V) = mono. * 2/2.5/3HP R32 models have different diameters for the cooling gas pipes, cooler connection groups, and indoor units. For that reason, use the adapters provided with the outdoor unit.

Notes



Johnson Controls - Hitachi Air Conditioning Europe S.A.S.

ADDRESS

2 Rue de Lombardie, Parc Aktiland II 69800 Saint Priest FRANCE Tel: +33-4-3742-0002







HITACHI. CERTIFIED QUALITY





The specifications of this catalog may change without prior notice to allow Hitachi Cooling & Heating to incorporate the latest innovations for its customers. The information contained in this catalog is merely informative. Hitachi Cooling & Heating declines any responsibility in the broadest sense, for damage, direct or indirect, arising from the use and / or interpretation of the recommendations in this catalog.

Find the products Hitachi Cooling & Heating with the best service and conditions at your