HITACHI

Yutaki H Yutaki HCombi

R32 Hydrosplit air-to-water heat pumps









Plug & Play R32 units from 11 to 16kW



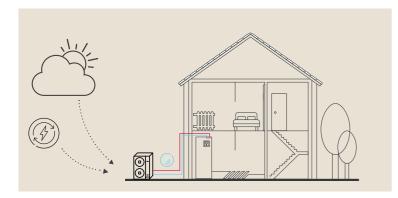


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Our products are the most suited to supporting the green transition towards net zero and a sustainable low carbon energy future. Hitachi Cooling & Heating air-to-water heat pumps are suited to all types of properties and can save considerable amounts of energy by using such a low amount of electricity.





Hydrosplit benefits

In a **hydrosplit system**, the refrigerant cycle is integrated within the outdoor unit (ODU), which is connected to the indoor unit (IU) via hydraulic **connections**. Depending on the IU, it can provide Heating, Cooling or Domestic Hot Water through an integrated or external tank.



Plug & play: Installation without refrigerant handling, only electrical and hydraulic connections, compatible with existing emitters.

YUTAKI H / HCOMBI R32: LINE-UP



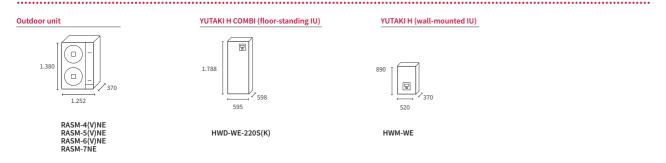






Model	kW	11	12	13	16
1 phase		•	•	•	
3 phase		•	•	•	•

DIMENSIONS



Eco-friendly Yutaki R32 range

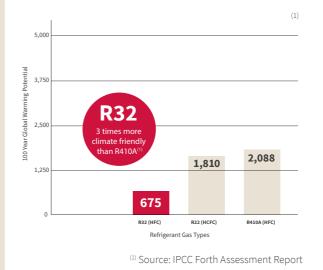
Perfect solution for cold climates



COMPLETE LINE-UP WITH "GREEN" R32 REFRIGERANT

Hitachi continues to meet the growing demand for energy efficient technologies and reduction of greenhouse emissions by expanding its Yutaki range of R32 models, which is in line with the current F-gas regulations.

R32 refrigerant has a low GWP (global warming potential) and a zero ozone layer depletion potential (ODP), and therefore, has a lower impact on the environment and CO₂ emissions. The update of the Yutaki line-up from R410a to a more environmentally friendly R32 refrigerant has increased the sustainability of the units and contributed to the greenhouse emissions reduction:



Eco-friendly refrigerant

- Better seasonal efficiency
- Wider working range
- Low environmental impact





(2) Switching all Yutaki monobloc range to R32 represents a reduction of Teq CO² equal to 2956 houses electricity consumption for 1 year of sales.

Insulation

Almost all the cabinet is insulated with an exclusive material considered one the best to improve acoustic performances.

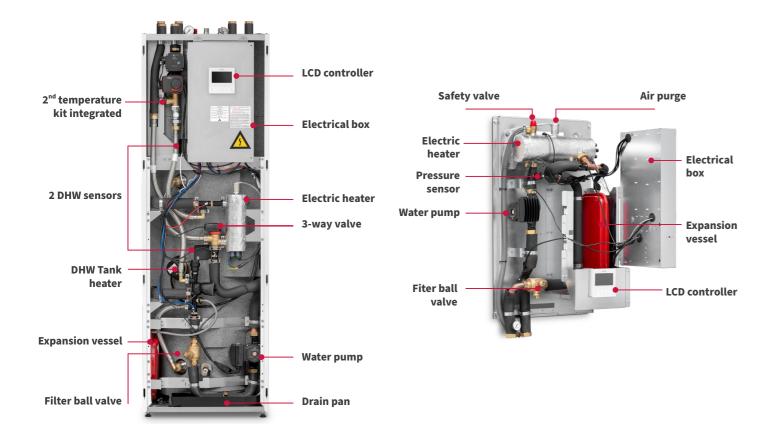
Air purge

Cross flow plate heat exchanger

Efficient design for low pressure drop.

New rotary compressor for exceptional performances.

YUTAKI HYDROSPLIT: INDOOR UNITS KEY COMPONENTS



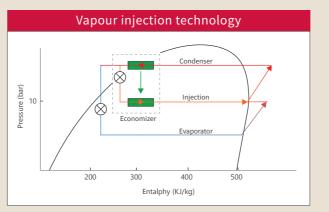
ENHANCED VAPOUR INJECTION TECHNOLOGY

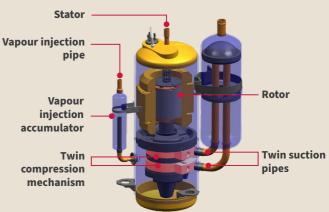
Yutaki Hydrosplit outdoor units are equipped with a new high tech twin-rotary compressor, which provides high capacities at low ambient temperatures.

Enhanced Vapour Injection Twin-Rotary compressor

The Economizer EV is adjusted to control the discharge temperature by injecting vapour into the compression chamber.

Performance at very low ambient temperature is enhanced and the unit can supply 55°C water even at -20°C ambient temperature.





Twin-Rotary compressor

Improved efficiency

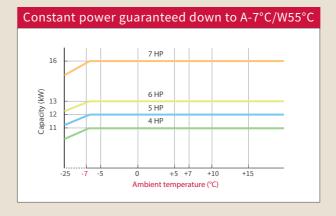
- Economizer circuit controlled by a dedicated Expansion Valve
- Improved capacity at low ambient temperature
- · Higher water outlet temperature at very cold ambient

GUARANTEED COMFORT EVEN IN EXTREME WEATHER CONDITIONS

New Yutaki Hydrosplit heat pumps are the best choice for all residential refurbishment projects. They meet Heating and DHW needs even at very low ambiant temperatures.

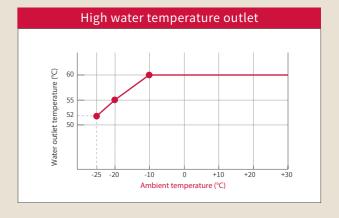
Constant power

Hitachi exclusivity: New twin-rotary compressor with enhanced vapour injection port maintains high capacities down to sub-zero temperatures!



Working range

Additionally to high capacities, new Yutaki units guarantee a high water temperature outlet even at very low ambient temperatures.



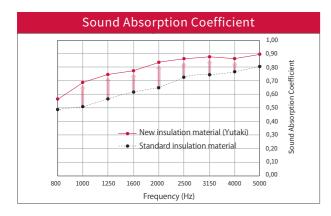
DISCREET UNITS FOR BETTER COMFORT

Hitachi wants to offer high performances and, at the same time, create a quiet and peaceful environment for customers. Therefore, design of the new outdoor unit was improved to guarantee to end-users discreet operation of the system.

Night shift

Sound power level can be reduced further thanks to the Night shift mode easily programmable directly on the LCD

Set time period (for example, during the night) and capacity reduction of the heat pump and sound power level will be even lower.







Yutaki Hydrosplit R32

Discreet operation

- New technology for quiet operation
- Additional settings to increase comfort
- Sound power level: 61dB
- *Every 3dB of noise reduction represents a halving of sound energy.

ECO-FRIENDLY HEAT PUMP FOR HIGH PERFORMANCES

Easy installation

- Plug & Play: only hydraulic & electrical connections to be done. No refrigerant handling.
- **Easy access** to components and connections aligned on the top
- Included as standard (2nd circuits, boiler combination, SWP combination etc)
- Perfect integration inside a house: small footprint (floor standing unit is less than 600 x 600 mm)

Comfort Comfort

- All-in-one solution: Heating / Cooling / DHW with an external
- **High performances** all year long
- Silent outdoor units
- Compatible with underfloor heating, radiators and fancoils

Higher performances

- Wide line-up from 11 to 16kW: Exclusive **POWER+** models
- Exclusive technology for higher efficiency
- Constant power: Heating or Cooling capacities maintained
- Best working range on the market

(\$) Savings

- High seasonal efficiency A+++
- High efficiency: generates more than 4 times more thermal energy than electrical energy used
- COP 4.66 and EER 4.8
- Contributes to reduced energy consumption and, therefore, costs

|量| Controls

- Latest generation of **LCD controller** with exclusive functionalities
- Remote control and remote maintenance
- Wide range of room thermostats
- Exclusive Cascade controller

Best quality

- · Designed and manufactured in JCH factory in **Europe**
- HP KEYMARK certification for all









Exclusive compact design Our compact Yutaki indoor unit with a modern design will integrate perfectly your home thanks to its small footprint (600 x 600 mm). HITACH

Controls & connectivity

New generation LCD controller

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

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







INTUITIVE AND VISUAL INTERFACE WITH EXCLUSIVE FUNCTIONALITIES



① WIZARD:

An intuitive 10-question configuration assistant to get your installation up and running in just 2 minutes. Simple, fast, and always meets your needs.



② SYNOPTIC VIEW:

System 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.



4 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.



5 WEEKLY TIMER:

Setting the weekly timer in 1 minute is now possible thanks to Timer wizard: 3 questions to answer and your weekly timer is configured according to your



6 NIGHT SHIFT:

Night shift mode can be configured easily directly on LCD controller of the unit. It enables a further reduction of sound power level during a certain period of time.

CONTROL YOUR YUTAKI HEAT PUMP REMOTELY

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 Cooling & Heating remote maintenance system for Installers HIKUMO Pro:

- Check live operational data of all connected heat pumps
- Alarm notification by email
- Troubleshooting guide available in a few clicks

Communication interfaces for HIKUMO app and HIKUMO Pro



Home Automation gateway

ATW-TAG-02



AHP-SMB-01

(*) Available while supplies last.

ROOM THERMOSTATS & CASCADE CONTROLLER

New Yutaki Hydrodplit R32 is compatible with Hitachi Cooling & Heating range of thermostats.

Intelligent wireless thermostat

(ATW-RTU-07)



Intelligent wireless thermostat (Circuit 2) (ATW-RTU-06)



Wired thermostat

(PC-ARFH2E)



Cascade controller

(ATW-YCC-03)



New cascade controller available for the new generation of Yutaki Hydrosplit R32. One central controller to coordinate Yutaki operation installed in cascade:

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

HITOOLKIT FOR HOME

ACCESSORIES



Cooling kit Yutaki H ATW-CKS-02



Cooling kit Yutaki HCombi ATW-CKSC-02



Cooling kit Yutaki HCombi ATW-CKSC-03 (with drain pump)



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



Universal water temp sensor ATW-WTS-02Y



Active anode ATW-CP-05



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



Indoor wired temp, sensor

ATW-ITS-01

Drain pan heater(*) DH-SP280A



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



ATW-DPOV-01



Diff. pressure valve



KNX gateway ATW-KNX-02



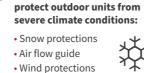
Modbus gateway ATW-MBS-02 HCA16MB



Auxiliary output signal box ATW-AOS-02



Front cover panel ATW-FCP-03



Accessories designed to

The best selection software to help installers to make the most relevant proposal to customers.

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

For more details, please visit: https://www.hitachi-hitoolkit.com/yutaki/login

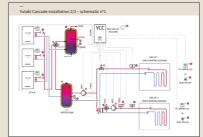


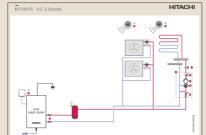
YUTAKI APPLICATIONS

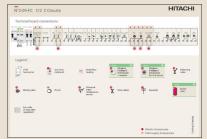
Exclusive online schematic library for Yutaki air-to-water heat pumps.

- 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









For more details, please visit: www.yutaki-applications.com

Technical data

Yutaki H

Model			YUTAKI H 11kW	YUTAKI H 12kW	YUTAKI H 13kW	YUTAKI H 16kW	
Heating perf	formances (preliminary data)						
	nax. heating capacity (A7/W35)	kW	4.3 / 11 / 14	4.8 / 12 / 15	5.5 / 13 / 16	6/16/18	
	neating capacity (A-7/W35)	kW	11 / 11	12 / 12.5	13 / 14	16 / 16	
	neating capacity (A-7/W55)	kW	11 / 11	12 / 12	13 / 13	16 / 16	
	5) according to EN14511	-	4.66	4.48	4.48	4.42	
	ge climate according to EN14825 (35°C) 1~/3~	-	4.45 / 4.24	4.45 / 4.13	4.45 / 4.15	-/3,97	
	ge climate according to EN14826 (55°C) 1~/3~		3.38 / 3.21	3.40 / 3.26	3.41 / 3.28	-/3,21	
	ating energy efficiency ns (35°C) 1~/3~	%	175 / 166	175 / 162	175 / 163	156	
	ating energy efficiency ηs (55°C) 1~/3~	%	132 / 125	133 / 127	133 / 128	125	
Energy class 35°C 1~/3~		-	,	A+++ / A++	,	A++	
Energy class				A++ / A++		A++	
	temperature range (heating mode)	°C	20 / 60°C				
	emperature outlet in thermodynamic mode	°C		- 7			
only		٠.(60°C down to	-10°C outside		
Cooling perf	ormances (optional) (preliminary data)						
	cooling capacity (A35/W7)	kW	11 / 12	12 / 13	13 / 14.7	14 / 16	
EER 1~/3~			3.37 / 3.32	3.30	3.22	3.16	
	cooling capacity (A35/W18)	kW	11 / 15	12 / 16	14 / 17	15 / 18	
EER 1~/3~		-	4.82 / 5.04	4.71	4.65	4.60	
INDOOR UNI	ITS			HWI	M-WE		
Electric back	sup heater / 3 steps	kW			6		
Net weight		kg		4	18		
Dimensions	(H x W x D)	mm		556 x 5	20 x 730		
Sound powe	r	dB(A)		4	19		
Hydraulic da	ata						
Expansion ve	essel	L			6		
Water flow (r	min./nom./max.)	m³/h	1.6 / 1.89 / 2.8	1.1 / 2.06 / 3	1.2 / 2.24 / 3	1.2 / 2.75 / 3	
Shutdown va	alves (male/male valves supplied)	inches		1"	1/4		
Min. installat	tion water volume	L	50	55	55	65	
Electrical da	ta						
Power suppl	y	-	230	V / 1ph / 50Hz or 400V / 3ph / 5	0Hz	400V / 3ph / 50H	
	Max. current with electric heater	Α		27.6			
	Cable width (mm²) / max. length (m)	-		2 x 6 +GND			
1~ 230V	Max. current with electric heater + tank/	А		40.6			
	Yutaki H Optional Cable width (mm²) / max. length (m)						
	Max. current with electric heater	A		2 x 10 +GND	0.1		
	Cable width (mm²) / max. length (m)	А	10.1 4 x 2.5 + GND				
3~400V	Max. current with electric heater + tank/	-					
3 4000	Yutaki S Optional	A					
	Cable width (mm²) / max. length (m)	-		4 x 6	+ GND		
OUTDOOR U	INITS		RASM-4(V)RW1E	RASM-5(V)RW1E	RASM-6(V)RW1E	RASM-7RW1E	
	ure level at 1m / Sound power level in	dB(A)	61	63	63	65	
Heating mod	le	. ,					
Air flow rate		m3/h	7920	8280	8280	8640	
Dimensions	(H x W x D)	mm			252 x 370		
Net weight	ngos in Cooling / Hosting / DUW	kg °C	127	135	135	135	
	nges in Cooling / Heating / DHW	C		+1U~+46 / -25	5~+25 / -25~35		
Refrigerant					T T		
Refrigerant charge / Additional refri. charge needeed		kg	2.6	3	3	3	
Refrigerant		-			32		
Compressor		-		TWIN-	ROTARY		
Electrical da							
Power suppl	у	-	230V / 1ph / 50Hz or 400V / 3ph / 50Hz 400V / 3ph / 50Hz				
1~230V	Max. current	A			8.5		
1 2301	Cable width (mm²) / max. length (m) (1)	-	2 x 6 + GND				
3~400V	Max. current	A	16				
	Cable width (mm²) / max. length (m) (1)	- 2			+ GND		
iransmitting	insmitting cables (shielded) mm ² 2 x 0.75						

 $^{^{(}l)}$ Data given for reference purposes only. Compliant with the applicable electrical standards. (V) = mono.

Yutaki HCombi

Model			YUTAKI HC 11kW	YUTAKI HC 12kW	YUTAKI HC 13kW	YUTAKI HC 16kW		
Heating perforn	mances (preliminary data)							
Min./nom./max.	. heating capacity (A7/W35)	kW	4.3 / 11 / 14	4.8 / 12 / 15	5.5 / 13 / 16	6/16/18		
Nom./max. heat	ting capacity (A-7/W35)	kW	11 / 11	12 / 12.5	13 / 14	16 / 16		
Nom./max. heat	ting capacity (A-7/W55)	kW	11 / 11	12 / 12	13 / 13	16 / 16		
	ccording to EN14511	-	4.66	4.48	4.48	4.42		
	limate according to EN14825 (35°C) 1~/3~		4.45 / 4.24	4.45 / 4.13	4.45 / 4.15	-/3,97		
		-	,					
	limate according to EN14826 (55°C) 1~/3~	0'	3.38 / 3.21	3.40 / 3.26	3.41 / 3.28	-/3,21		
	ng energy efficiency ηs (35°C) 1~/3~	%	175 / 166	175 / 162	175 / 163	156		
Seasonal heatin	ng energy efficiency ηs (55°C) 1~/3~	%	132 / 125	133 / 127	133 / 128	125		
Energy class 35°	°C 1~/3~	-		A+++ / A++		A++		
Energy class 55°				A++ / A++		A++		
	mperature range (heating mode)	°C		20 /	50°C			
	perature outlet in thermodynamic mode			,				
max. water temp only	peracare outlet in thermoughamic mode	°C	60°C down to -10°C outside					
DHW performar	NCES (preliminary data)							
	COP (220L) according to EN16147	-		2.7				
	nal energy efficiency ηwh (L cycle)	%		110				
		,,,		Α				
Energy L~ 230V Heat II		humi-						
110000		h:min		01:10				
	-by power input (Pes)	W		41				
	olume of usable hot water (Vmax)	L		288				
	erature range of water outlet (DHW mode)	°C		30~55				
	COP (220L) according to EN16147	-		2.				
	nal energy efficiency ηwh (L cycle)	%		9				
Energy		-		I I				
3~ 400V Heat u	ıp time	h:min		01:	10			
Stand-	-by power input (Pes)	W		5	6			
	volume of usable hot water (Vmax)	L		28				
	erature range of water outlet (DHW mode)	°C		30-				
Cooling perform	mances (optional) (preliminary data)							
	ling capacity (A35/W7)	kW	11/12	12 / 13	13 / 14.7	14 / 16		
EER 1~/3~	6 Pacity (100/111)		3.37 / 3.32	3.30	3.22	3.16		
,	ling capacity (A3E/M10)	L/M/	,	12 / 16	14 / 17	15 / 18		
	ling capacity (A35/W18)	kW	11/15	,	·	,		
EER 1~/3~		-	4.82 / 5.04	4.71	4.65	4.60		
INDOOR UNITS				HWD-WE-	220S(-K)			
	heater / 3 stens	kW		f				
Electric backup			6 48					
	neater / 3 steps							
Net weight		kg		4	8			
Net weight Dimensions (H x					8 20 x 730			
Net weight		kg mm		556 x 52	8 20 x 730			
Net weight Dimensions (H x Sound power Hydraulic data	x W x D)	kg mm dB(A)		4 556 x 52 4	8 20 x 730 9			
Net weight Dimensions (H x Sound power Hydraulic data Expansion vesse	x W x D)	kg mm dB(A)		4 556 x 52 4	8 00 x 730 9			
Net weight Dimensions (H x Sound power Hydraulic data Expansion vesse	x W x D)	kg mm dB(A)	1.6/1.89/2.8	4 556 x 52 4	8 20 x 730 9	1.2/2.75/3		
Net weight Dimensions (H x Sound power Hydraulic data Expansion vesse Water flow (min	x W x D)	kg mm dB(A)	1.6/1.89/2.8	4 556 x 52 4	8 20 x 730 9 6 1.2 / 2.24 / 3	1.2/2.75/3		
Net weight Dimensions (H x Sound power Hydraulic data Expansion vesse Water flow (min Shutdown valve	el /nom./max.) es (male/male valves supplied)	kg mm dB(A)		4 556 x 52 4 1.1/2.06/3	8 20 x 730 9 6 1.2 / 2.24 / 3	1.2/2.75/3		
Net weight Dimensions (H x Sound power Hydraulic data Expansion vesse Water flow (min Shutdown valve	el /nom./max.) es (male/male valves supplied)	kg mm dB(A)	1.6/1.89/2.8 50	4 556 x 52 4 1.1/2.06/3	8 20 x 730 9 6 1.2 / 2.24 / 3			
Net weight Dimensions (H x Sound power Hydraulic data Expansion vesse Water flow (min Shutdown valve Min. installation	el /nom./max.) es (male/male valves supplied)	kg mm dB(A)		4 556 x 52 4 1.1/2.06/3	8 20 x 730 9 6 1.2 / 2.24 / 3			
Net weight Dimensions (H x Sound power Hydraulic data Expansion vesse Water flow (min Shutdown valve Min. installation Electrical data	el /nom./max.) es (male/male valves supplied)	kg mm dB(A)	50	4 556 x 52 4 1.1/2.06/3	8 80 x 730 9 6 1.2 / 2.24 / 3 1/4 55	65		
Net weight Dimensions (H x Sound power Hydraulic data Expansion vesse Water flow (min Shutdown valve Min. installation Electrical data Power supply	el /nom./max.) es (male/male valves supplied) n water volume	kg mm dB(A)	50	4 556 x 52 4 1.1/2.06/3 1"3 55	8 800 x 730 9 1.2 / 2.24 / 3 1/4 55			
Net weight Dimensions (H x Sound power Hydraulic data Expansion vesse Water flow (min Shutdown valve Min. installation Electrical data Power supply Max. c	el L/nom./max.) ss (male/male valves supplied) n water volume current with electric heater	kg mm dB(A)	50	4 556 x 52 4 4 556 x 52 4 5 5 6 x 52 5 6 7 5 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7	8 80 x 730 9 6 1.2 / 2.24 / 3 4/4 55	65		
Net weight Dimensions (H x Sound power Hydraulic data Expansion vesse Water flow (min Shutdown valve Min. installation Electrical data Power supply Max. 6 Cable Cable	el/nom./max.) es (male/male valves supplied) u water volume current with electric heater e width (mm²) / max. length (m)	kg mm dB(A) L m3/h inches L - A	50	4 556 x 55	8 20 x 730 9 5 1.2 / 2.24 / 3 1/4 55 Hz 6 GND	65		
Net weight Dimensions (H x Sound power Hydraulic data Expansion vesse Water flow (min in installation Electrical data Power supply Max. c Cable Max. C Cable Max. C	el/nom./max.) es (male/male valves supplied) a water volume current with electric heater e width (mm²) / max. length (m) current with electric heater + tank	kg mm dB(A)	50	4 556 x 52 4 6 6 1.1 / 2.06 / 3 1": 55 00V / 1ph / 50Hz or 400V / 3ph / 50 27 2 x 64 39	8 20 x 730 9 5 1.2 / 2.24 / 3 1/4 55 Hz .6 GND	65		
Net weight Dimensions (H x Sound power Hydraulic data Expansion vesse Water flow (min in installation Electrical data Power supply Max. c Cable Max. C Cable Max. C	el/nom./max.) es (male/male valves supplied) u water volume current with electric heater e width (mm²) / max. length (m)	kg mm dB(A) L m3/h inches L - A	50	4 556 x 55	8 20 x 730 9 5 1.2 / 2.24 / 3 1/4 55 Hz .6 GND	65		
Net weight Dimensions (H x Sound power Hydraulic data Expansion vesse Water flow (min Shutdown valve Min. installation Electrical data Power supply Max. 6 Cable Max. 6 Cable Gable	el/nom./max.) es (male/male valves supplied) a water volume current with electric heater e width (mm²) / max. length (m) current with electric heater + tank	kg mm dB(A)	50	4 556 x 52 4 6 6 1.1 / 2.06 / 3 1": 55 00V / 1ph / 50Hz or 400V / 3ph / 50 27 2 x 64 39	8 10 x 730 9 6 1.2 / 2.24 / 3 1/4 55 Hz 6 GND 5 + GND	65		
Net weight Dimensions (H x Sound power Hydraulic data Expansion vesse Water flow (min Linstallation Electrical data Power supply Max. c Cable Max. c Cable	et L/nom/max.) ss (male/male valves supplied) n water volume current with electric heater e width (mm²) / max. length (m) current with electric heater + tank e width (mm²) / max. length (m) current with electric heater	kg mm dB(A) L m3/h inches L - A - A	50	4 556 x 52 4 1.1/2.06/3 1"3 55 0V/1ph/50Hz or 400V/3ph/50 27 2 x 64 39 2 x 10	8 80 x 730 9 6 1.2 / 2.24 / 3 1/4 55 Hz .6 GND .5 + GND	65		
Net weight Dimensions (H x Sound power Hydraulic data Expansion vesse Water flow (min Shutdown valve Min. installation Electrical data Power supply Max. 6 Cable	el/nom./max.) es (male/male valves supplied) it water volume current with electric heater e width (mm²) / max. length (m) current with electric heater + tank e width (mm²) / max. length (m) current with electric heater e width (mm²) / max. length (m)	kg mm dB(A)	50	4 556 x 55	8 80 x 730 9 6 1.2 / 2.24 / 3 1/4 55 Hz 6 6 6 GND .5 + GND .9 GND	65		
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 $[\]label{eq:condition} \mbox{\sc (I)} \mbox{Data given for reference purposes only. Compliant with the applicable electrical standards. (V) = mono.$



Notes



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