

# Yutaki M

Without refrigerant connections:  
heating, cooling and DHW



## Ideal for small spaces

The monobloc heating solution is ideal for small spaces because it comprises a single unit installed outside. Your interior therefore remains unchanged.

## Easy installation

Installing a monobloc unit is quick and economical because all components are connected and there are no refrigerant connections.

## Cooling and heating in the same system all year round

By combining the Yutaki M monobloc with the reversible kit, the accessory for inverting heat pump operation, maximum comfort is guaranteed all year round. The installation provides heating in winter and cooling in summer.

## Easy, smart control

The LCD controller can plan daily and weekly programs, manage water production temperature, operating modes etc. (Fig. 1)

Fig. 1



PC-ARFH1E controller





# Yutaki M

Model	R32		R410A			
	YUTAKI M 4.3KW	YUTAKI M 8KW	YUTAKI M 11KW	YUTAKI M 14KW	YUTAKI M 16KW	
<b>Heating performances</b>						
Min/nom./max capacity heating (7°C ext/35°C water)	kW	1.85/4.3/6.5	2.1/8/11	11/15.2	14/16.7	16.0/17.8
Nom./max capacity heating (-7°C ext/35°C water)	kW	4.5/5.3	5.8/7.5	9.7/10.6	11.5/12	12/13
Nom./max capacity heating (-7°C ext/45°C water)	kW	/5	/6.7	10/10.3	11/11.6	11.5/12.5
Nom./max capacity heating (-7°C ext/55°C water)	kW	4/4.2	5/5.5	8.7/9.8	9.7/11.2	10.5/12
Power consumption heating (7°C ext/35°C water)	kW	1	1.94	2.2	2.97	3.5
COP (7°C ext/35°C water) acc. to EN14511		5.25	4.6	5	4.71	4.57
SCOP medium climate 35°C/55°C acc. to EN14825		4.73/3.48	4.55/3.25	4.8/3.5	4.48/3.43	3.9/3.23
Seasonal energy efficiency heating η <sub>s</sub> (35°C) Single/Three <sup>(1)</sup>	%	181	177	187/186	175/174	153/152
Seasonal energy efficiency heating η <sub>s</sub> (55°C) Single/Three <sup>(1)</sup>	%	133	125	136/135	133/133	125/125
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. water output temperature	°C	60°C down to -5 °C ext		60°C down to -10 °C ext		
<b>DHW performances</b>						
Nom./max capacity cooling (35°C ext/7°C water)(reversible)	kW	4/5	6.5/7	7.2/11.8	9.5/12.6	10.5/13.7
Power consumption cooling (35°C ext/7°C water)	kW	0.8	1.7	2.18	2.95	3.72
EER (reversible mode)		4	3.35	3.3	3.22	2.82
Reversible seasonal energy efficiency η <sub>s</sub> (35°C) Single/Three <sup>(1)</sup>	%	186	179	189	176	153
Reversible seasonal energy efficiency η <sub>s</sub> (55°C) Single/Three <sup>(1)</sup>	%	136	127	137	134	126
<b>Monobloc unit</b>						
Heating additional electrical heating element (option)	kW	6 (2 + 2 + 2)	6 (2 + 2 + 2)	6 (2 + 2 + 2)		
Weight	kg	76	78	131	133	133
Dimensions (HxWxD)	mm	704 x 1248 x 300		1380 x 1252/370		
Sound pressure level/sound power	dB(A)	46/61	54/67	-/64	-/65	-/67
Airflow	m <sup>3</sup> /h	2682	4800	4800	5400	6000
Operating ranges Cooling/Heating/DHW	°C	+10/+46 // -20/+25 // -20/+35		+10/+46 // -25/+25 // -20/+35		
Controller		Not included		Not included		
<b>Hydraulic specifications</b>						
Expansion tank	L	6		6		
Water flow (min/nom/max)	m <sup>3</sup> /h	0.5/0.77/1.9	0.6/1.29/2.1	1/1.89/2.8	1.1/2.41/3	1.2/2.75/3
Heating hydraulic connections (male-male valves supplied)	inch	1"		1" 1/4		
Minimum water volume for the installation	L	28		38	46	55
<b>Electrical specifications</b>						
Electrical power		230V/1Ph/50Hz		230V/1Ph/50Hz or 400V/3Ph/50Hz		
SINGLE-PHASE 230V	Max. current with additional heating element	A	10.6	16	30.8	30.8
	Cable diameter (mm <sup>2</sup> )/max. length (m)		3 x 2.5/14	3 x 4/16	3 x 6/	
	Max. current with additional heating element + tank heating element/Yutaki S Option	A	23.1	28.5	43.3	43.3
	Cable diameter (mm <sup>2</sup> )/max. length (m)		3 x 6/28		3 x 10	
THREE-PHASE 400V	Max. current with additional heating element		-	-	14.3	14.3
	Cable diameter (mm <sup>2</sup> )/max. length (m)		-	-	5 x 6	
	Max. current with additional heating element + tank heating element/Yutaki S Option		-	-	26.8	26.8
	Cable diameter (mm <sup>2</sup> )/max. length (m)		-	-	5 x 10	
<b>Refrigerant specifications</b>						
Initial refrigerant charge pre-charged	kg	1.2	1.3	2.8	3.1	3.1
Refrigerant		R32		R410A		
Compressor		SCROLL	ROTARY	SCROLL	SCROLL	SCROLL

<sup>(1)</sup> Seasonal energy efficiency with integrated controller(V) = single.

## Controls and controllers

 **Wired controller**  
PC-ARFH1E  
Pre-tax price:  
Not included

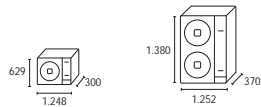
 **Wireless controller**  
ATW-RTU-07  
Pre-tax price:

### Others\*:

- 2nd zone kit with a 3-way valve and wall mounted circulator ATW-2TK-07
- Hi-Box AHP-SMB-01
- Hi Kumo gateway for Hi-Box ATW -TAG-02

\* All prices are pre-tax

### Outdoor units

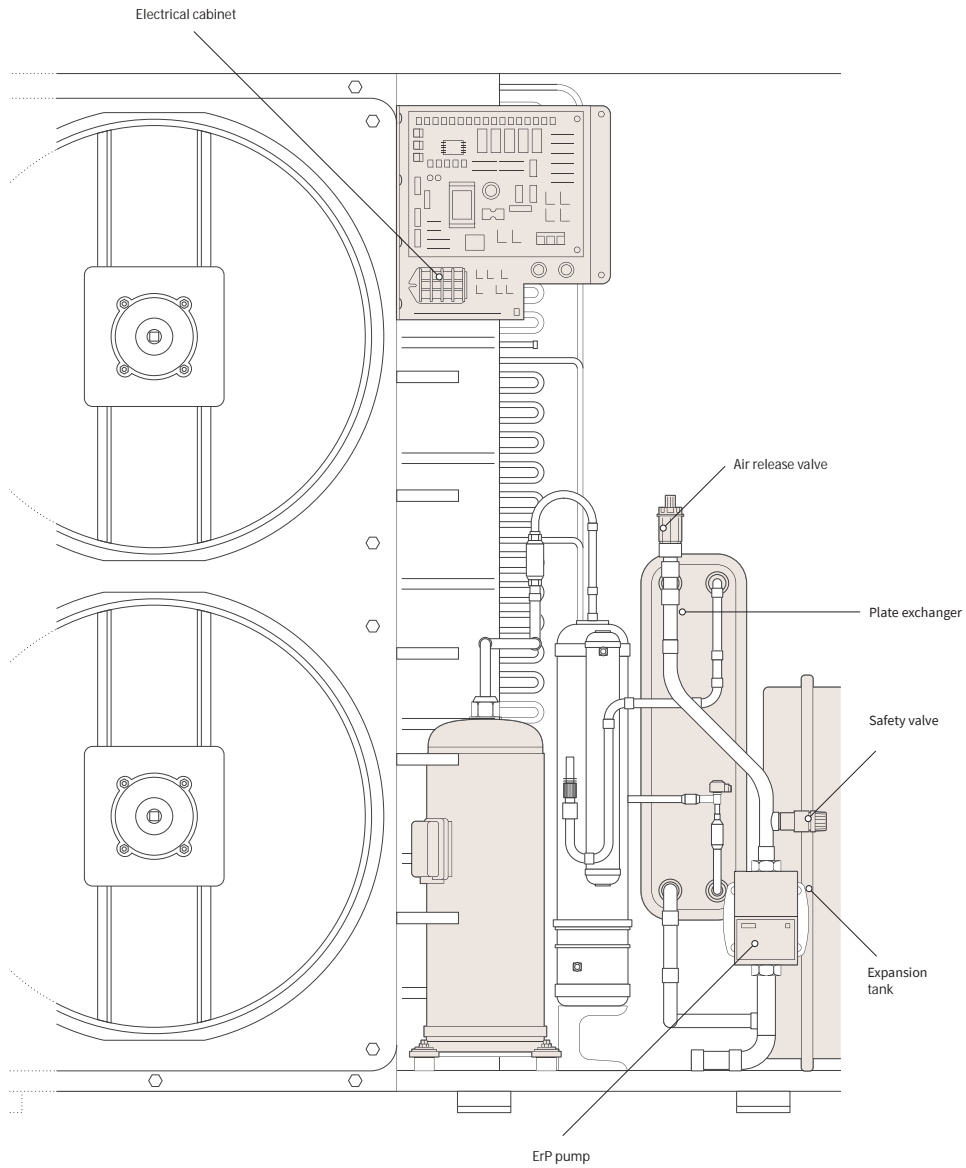


RASM-2VRE  
RASM-3VRE

RASM-4(V)NE  
RASM-5(V)NE  
RASM-6(V)NE

# Internal design

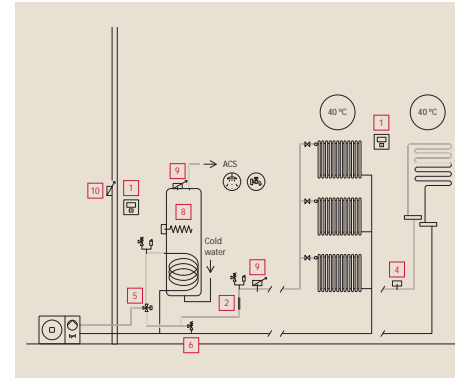
Yutaki M



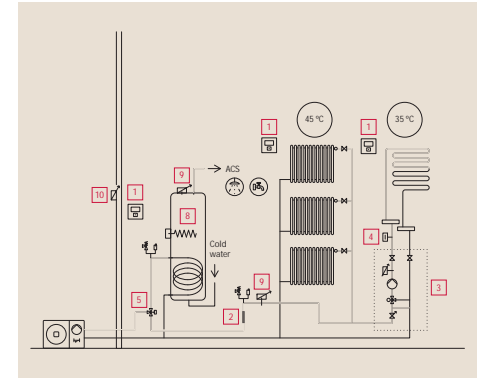
# Hydraulic configurations

## Yutaki M

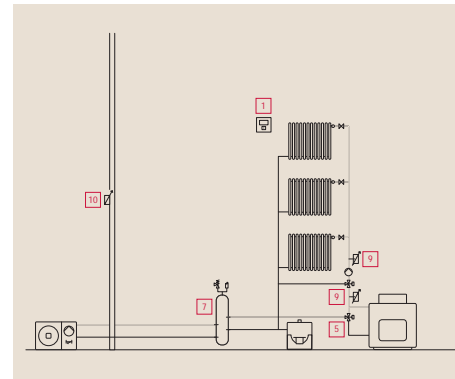
Air to water heat pumps



Application for new build and renovation



Application for new build and renovation



Application for renovation

1 See P. 76 for the accessories.