

Yutaki M

Compact unit for heating, hot water and cooling without refrigeration connections



Perfect for small spaces

The Hitachi monobloc system is designed for installation in any type of property, especially homes with limited space.

Being a compact system with a single unit installed outdoors means the available space indoors remains unchanged.

Easy to install

The monobloc system ensures all functions are achieved with a single outdoor unit, bringing significant cost savings. Furthermore, installation time is much shorter since practically no pipes are required, there are no cooling connections, and the product is pre-charged at the factory.

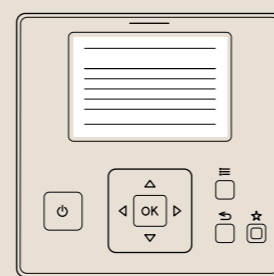
Heating and cooling in a single system all year round

By combining the Yutaki M and the **Cooling Kit**, the accessory used to reverse heat pump operation ensures maximum comfort can be enjoyed all year round. The system therefore offers heating in winter and cooling in summer, all with straightforward installation.

Easy, smart control

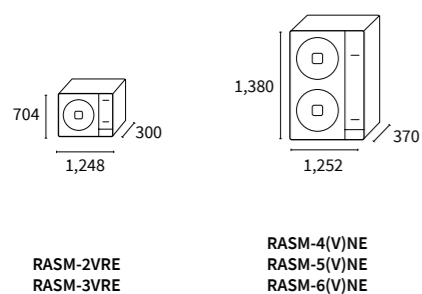
The control with LCD screen can be used for daily and weekly programming, managing water production temperature, operating modes, etc. (Fig. 1)

Fig. 1



PC-ARFHE control

Outdoor units

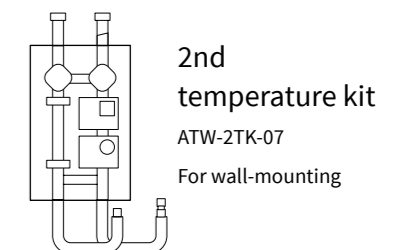
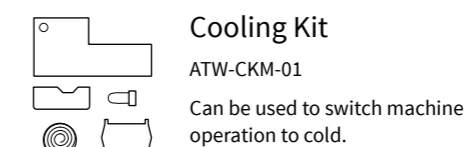
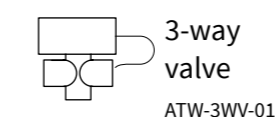
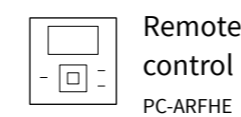


Yutaki M

Name of the system			Yutaki M 2	Yutaki M 3	Yutaki M 4	Yutaki M 5	Yutaki M 6
Outdoor unit			RASM-2VRE	RASM-3VRE	RASM-4(V)NE	RASM-5(V)NE	RASM-6(V)NE
Capacity	Heating (Min/Nom/Max)	kW	1.85/4.30/6.50	2.1/8.00/11.00	4.30/11.00/15.20	4.80/14.00/16.70	5.50/16.00/17.80
	Cooling (Nom/Max)	kW	4.00/5.00	6.50/7.00	7.20/11.80	9.50/12.60	10.50/13.70
Consumption	Heating (Nom)	kW	0.82	1.74	2.20	2.97	3.50
	Cooling (Nom)	kW	1.00	1.94	2.18	2.68	3.17
Electrical power	Single-phase		1 ~230V 50Hz	1 ~230V 50Hz	1 ~230V 50Hz	1 ~230V 50Hz	1 ~230V 50Hz
	Three-phase		-	-	3N ~400V 50 Hz	3N ~400V 50 Hz	3N ~400V 50 Hz
COP (Water 35°C, Ambient 7°C)	Nominal		5.25	4.60	5.00	4.71	4.57
EER (Water 7°C, Ambient 35°C)	Nominal		4.00	3.35	3.54	3.54	3.31
Energy rating at 35°C			A+++	A+++	A+++	A+++	A++
Seasonal efficiency at 35°C, SCOP / ηs			4.93/181	4.25/177	4.75/187	4.45/175	3.90/153
Energy rating at 55°C			A++	A++	A++	A++	A++
Seasonal efficiency at 55°C, SCOP / ηs	Medium climate		3.58/133	3.25/125	3.48/136	3.40/133	3.30/125
ESEER			3.36	3.26	3.33	3.29	2.84
SEER / ηs	Single-phase		4.11/162	3.95/155	4.93/194	4.83/190	4.70/185
	Three-phase		-	-	5.05/199	4.92/194	4.78/188
Outdoor operating temperatures	Heating (DB)	°C	-20 to 25	-20 to 25	-25 to 25	-25 to 25	-25 to 25
	Hot water (DB)	°C	-20 to 35	-20 to 35	-25 to 35	-25 to 35	-25 to 35
	Cooling (DB)	°C	10 to 46	10 to 46	10 to 46	10 to 46	10 to 46
Water production temperatures	Heating	°C	20 to 60	20 to 60	20 to 60	20 to 60	20 to 60
	Hot water	°C	30 to 75	30 to 75	30 to 75	30 to 75	30 to 75
	Cooling	°C	5 to 22	5 to 22	5 to 22	5 to 22	5 to 22
Maximum current	Single-phase		12.7	17.2	30.8	30.8	30.8
	Three-phase		-	-	14.3	14.3	16.3
Water pipe diameter	Input-output	inches	1-1	1-1	1-1/4 - 1-1/4	1-1/4 - 1-1/4	1-1/4 - 1-1/4
Minimum water volume of the installation		l	28	28	38	46	55
Water flow	(Min/Nom/Max)	m3/h	0.50 - 0.77 - 1.90	0.60 - 1.29 - 2.10	1.00 - 1.89 - 2.80	1.10 - 2.41 - 3.00	1.20 - 2.75 - 3.00
Air flow		m3/h	2,526	2,982	4,800	5,400	6,000
Sound power		dB(A)	61	69	64	65	69
Compressor			Scroll DC Inverter	Rotary DC Inverter	Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter
Refrigerant			R32	R32	R410A	R410A	R410A
Refrigerant charge		kg (m)	1.20	1.30	2.80	3.10	3.10
Dimensions (H x W x D)		mm	704 x 1,248 x 300	704 x 1,248 x 300	1,380x1,252x370	1,380x1,252x370	1,380x1,252x370
Weight	Single-phase	kg	76	78	131	133	133
	Three-phase		-	-	130	132	132

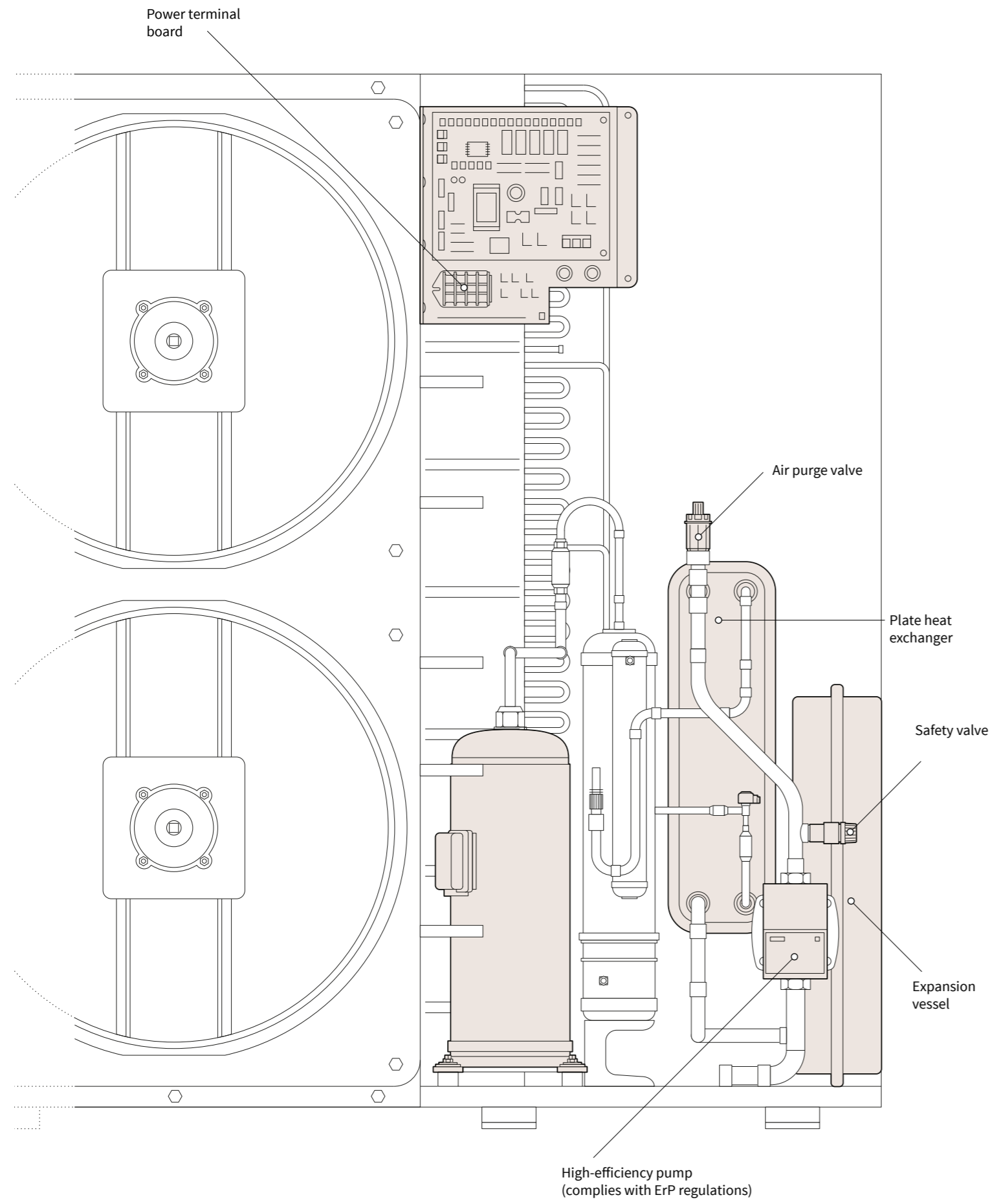
*The control must be purchased for operation.

Compatible controls and accessories:



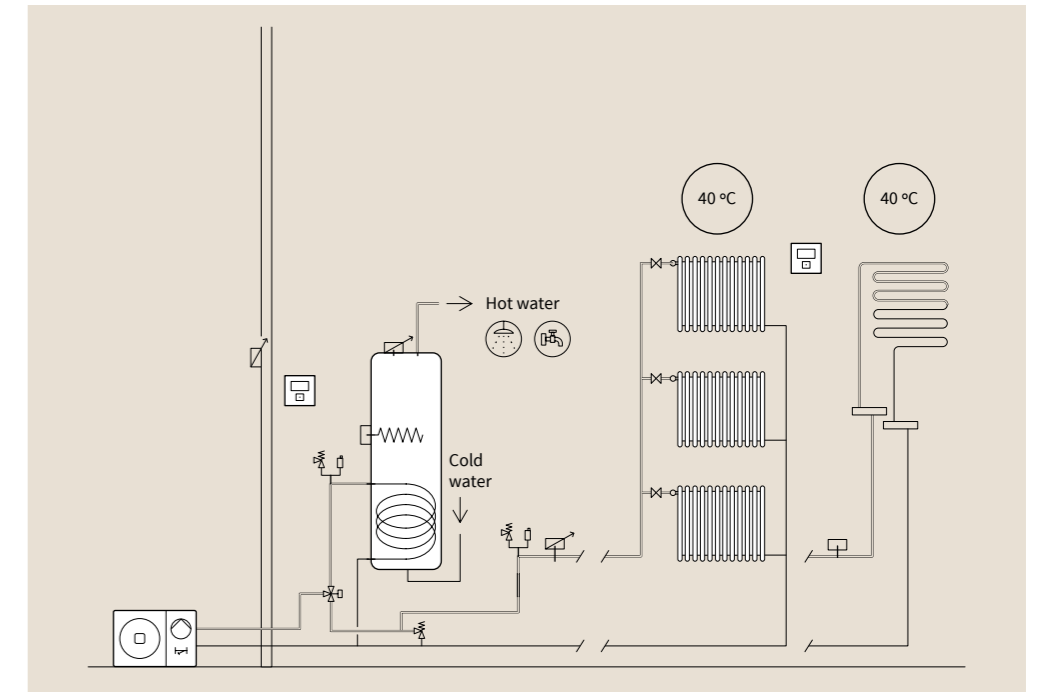
Internal design

Yutaki M



Configurations

Radiator and underfloor heating at the same temperature; one zone + hot water by external tank.



Yutaki ASHP

Radiator and underfloor heating at different temperatures; two zones + hot water by external tank.

