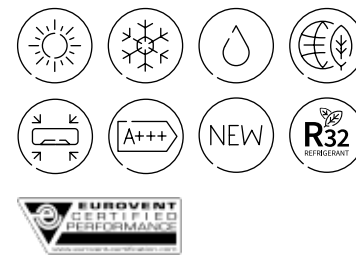


# Yutaki S

Compact, highly efficient system: heating, hot water and cooling



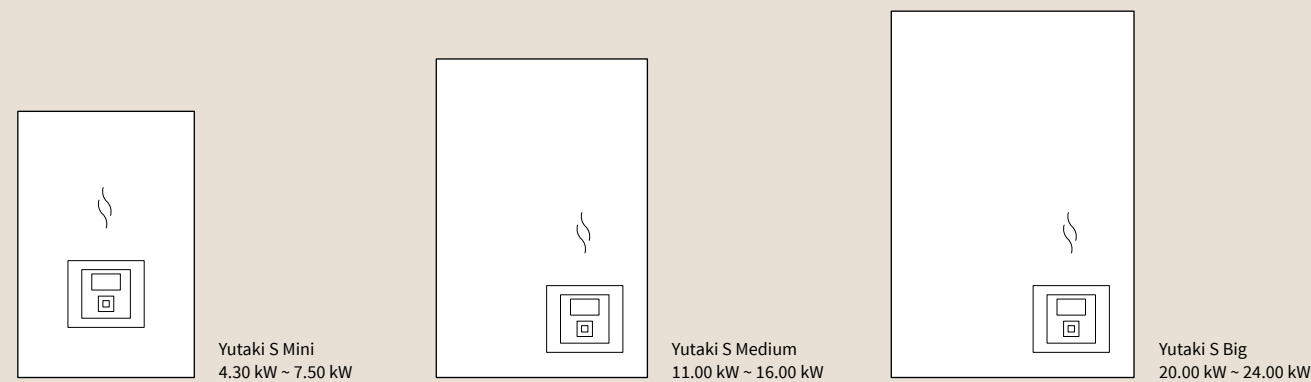
## Satisfies all demands

Extensive range of outputs from 1.85 kW to 32.00 kW for heating, and from 3.80 kW to 20.60 kW for cooling.  
25.50 and 32.00 kW models are unique on the market.

## Compact dimensions

Its compact size and easy installation make it the perfect system for confined spaces. Models from 4.30 to 7.50 kW, even fitting in a kitchen cabinet. (Fig. 1)

Fig. 1



## Best performance on the market\*

The Yutaki S has the **highest COP** compared to competing systems, which translates into lower energy consumption and bigger savings. All units have up to A+++ maximum energy efficiency.  
\*Depends on model.

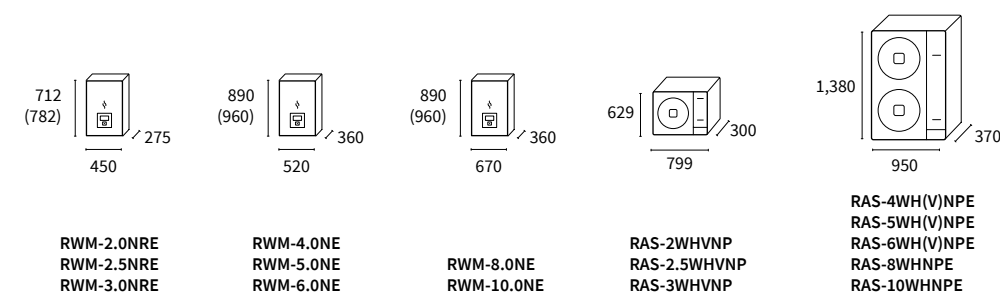
## Exclusive design to work in the most extreme conditions

Its broad operating range means the system can work in extreme outdoor conditions: **from -25°C to +46°C.**

## Reduced consumption

Unique on the market - water temperature up to 60 °C without the need for a backup heating element, achieving significant savings compared to other manufacturer models.

### Indoor units

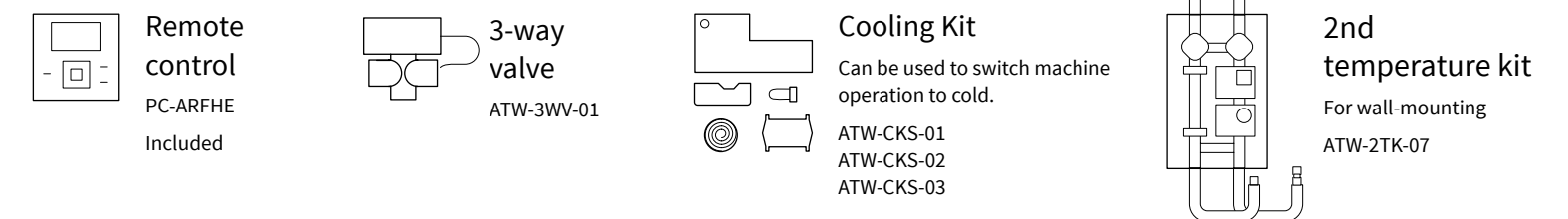


### Outdoor units

# Yutaki S

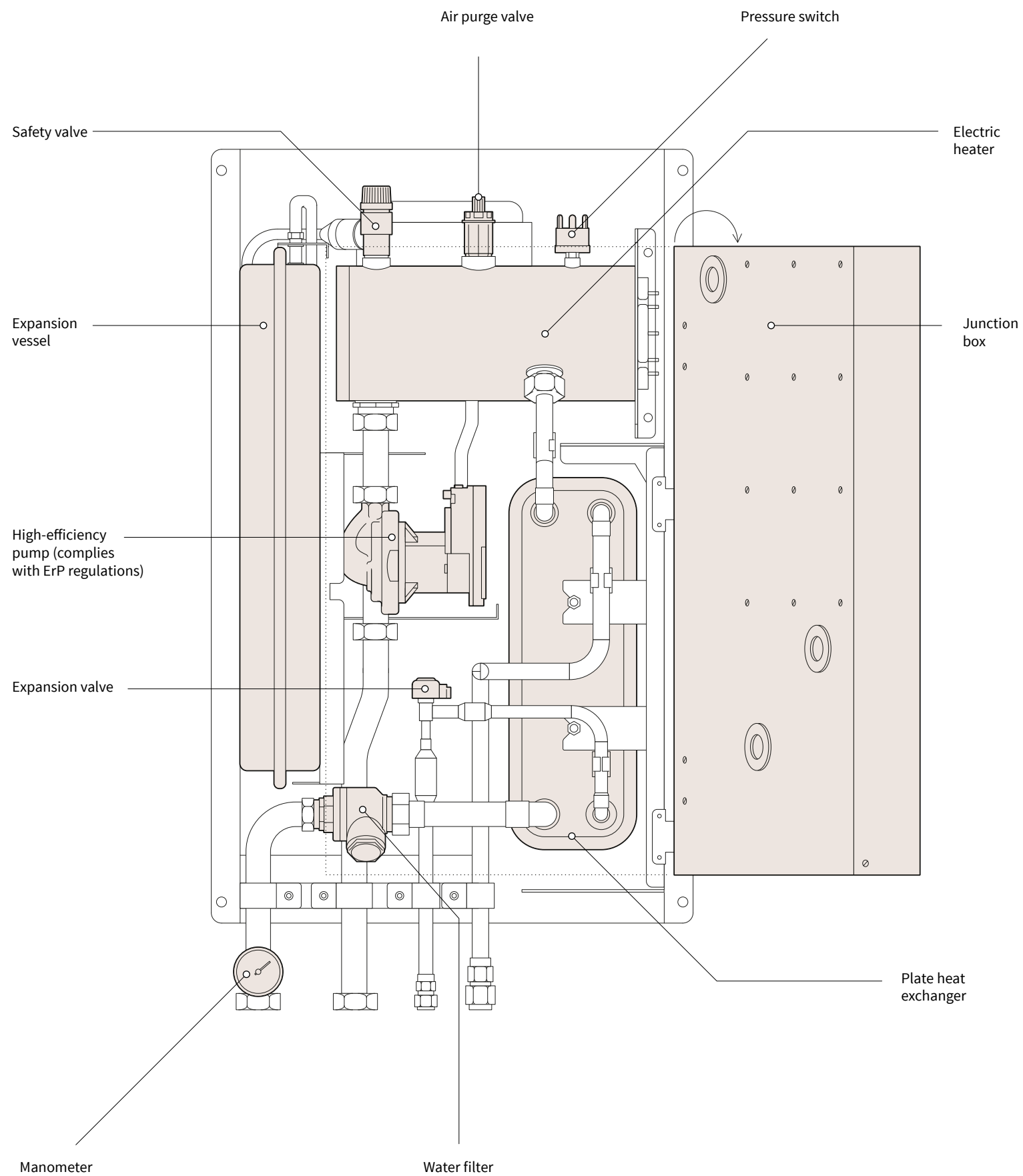
System			Yutaki S 2	Yutaki S 2.5	Yutaki S 3	Yutaki S 4	Yutaki S 5	Yutaki S 6	Yutaki S 8	Yutaki S 10
Capacity	Heating (Min/Nom/Max)	kW	1.85/4.30/7.00	1.85/6.00/8.60	2.10/8.00/11.00	4.30/11.00/15.20	4.80/14.00/16.70	5.50/16.00/17.80	9.00/20.00/25.50	10.00/24.00/32.00
	Cooling (Nom/Max)	kW	4.00/5.00	5.30/6.20	6.50/7.00	7.20/11.80	9.50/12.60	10.50/13.70	14.00/16.40	17.50/20.60
Consumption	Heating (Nom)	kW	0.82	1.25	1.74	2.20	2.97	3.50	4.65	5.59
	Cooling (Nom)	kW	1.00	1.47	1.94	2.18	2.68	3.17	4.48	6.22
Electrical power			1~230V 50Hz	1~230V 50Hz	1~230V 50Hz	1~230V 50Hz	1~230V 50Hz	1~230V 50Hz	-	-
			-	-	-	3N~400V 50 Hz	3N~400V 50 Hz	3N~400V 50 Hz	3N~400V 50 Hz	3N~400V 50 Hz
COP (Water 35°C, Ambient 7°C)	Nominal		5.25	4.80	4.60	5.00	4.71	4.57	4.30	4.29
EER (Water 7°C, Ambient 35°C)	Nominal		4.00	3.60	3.35	3.30	3.30	3.31	3.12	2.81
Energy rating at 35°C			A+++	A+++	A+++	A+++	A+++	A++	A++	A+
Seasonal efficiency at 35°C, SCOP / ηs			4.93/181	4.58/177	4.25/175	4.75/189	4.45/176	3.90/153	3.83/152	3.60/142
Energy rating at 55°C			A++	A++	A++	A++	A++	A++	A+	A+
Seasonal efficiency at 55°C, SCOP / ηs	Medium climate		3.58/133	3.38/130	3.25/125	3.50/137	3.43/134	3.23/126	3.13/122	2.98/118
ESEER			3.36	3.26	3.26	3.33	3.29	2.84	3.56	3.32
SEER / ηs	Single-phase		4.11/162	4.13/162	3.95/155	4.93/194	4.83/190	4.70/185	4.29/169	4.06/159
	Three-phase		-	-	-	5.05/199	4.92/194	4.78/188	-	-
Outdoor operating temperatures	Heating (DB)	°C	-20 to 25	-20 to 25	-20 to 25	-25 to 25	-25 to 25	-25 to 25	-25 to 25	-25 to 25
	Hot water (DB)	°C	-20 to 35	-20 to 35	-20 to 35	-25 to 35	-25 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	10 to 46	10 to 46	10 to 46
Water production temperatures	Heating	°C	20 to 55	20 to 55	20 to 55	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	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	5 to 22	5 to 22	5 to 22
Refrigerant pipe diameter	Liquid-gas	inches	1/4-1/2	1/4-1/2	1/4-5/8	3/8-5/8	3/8-5/8	3/8-5/8	3/8-1	1/2-1
Water pipe diameter	Input-output	inches	1-1	1-1	1-1	1-1/4 - 1-1/4	1-1/4 - 1-1/4	1-1/4 - 1-1/4	1-1/4 - 1-1/4	1-1/4 - 1-1/4
<b>Indoor unit</b>			<b>RWM-2.0NRE</b>	<b>RWM-2.5NRE</b>	<b>RWM-3.0NRE</b>	<b>RWM-4.0NE</b>	<b>RWM-5.0NE</b>	<b>RWM-6.0NE</b>	<b>RWM-8.0NE</b>	<b>RWM-10.0NE</b>
Minimum water volume of the installation	l		28	28	28	38	46	55	76	79
Water flow	(Min-Nom-Max)	m <sup>3</sup> /h	0.50 - 0.77 - 1.90	0.60 - 1.03 - 2.00	0.60 - 1.29 - 2.10	1.00 - 1.89 - 2.90	1.10 - 2.41 - 3.00	1.2 - 2.75 - 3.00	2.00 - 3.44 - 4.50	2.20 - 4.13 - 4.60
Emergency heating element in primary	Steps/Capacity	n°/kW	3 / 1 - 1 - 1	3 / 1 - 1 - 1	3 / 1 - 1 - 1	3 / 2 - 2 - 2	3 / 2 - 2 - 2	3 / 2 - 2 - 2	3 / 3 - 3 - 3	3 / 3 - 3 - 3
Sound power		dB(A)	37	37	37	39	39	39	47	47
Dimensions (H (with connections) x W x D)		mm	712(782) x450x275	712(782) x450x275	712(782) x450x275	890(960) x520x360	890(960) x520x360	890(960) x520x360	890(960) x670x360	890(960) x670x360
Weight		kg	35	36	37	46	48	48	60	62
Maximum current	Single-phase	A	28.9	28.9	28.9	43.4	43.4	43.4	-	-
	Three-phase	A	-	-	-	24.2	24.2	24.2	29.2	29.2
<b>Outdoor unit</b>			<b>RAS-2WHVNP</b>	<b>RAS-2.5WHVNP</b>	<b>RAS-3WHVNP</b>	<b>RAS-4WH(V)NPE</b>	<b>RAS-5WH(V)NPE</b>	<b>RAS-6WH(V)NPE</b>	<b>RAS-8WHNPE</b>	<b>RAS-10WHNPE</b>
Air flow		m <sup>3</sup> /h	2,526	2,526	2,982	4,800	5,400	6,000	7,620	8,040
Sound pressure		dB(A)	46	47	50	49	50	50	59	60
Sound power		dB(A)	61	63	64	64	65	67	73	74
Minimum pipe length		m	3	3	3	5	5	5	5	5
Maximum pipe length		m	50	50	50	75	75	75	70	70
Maximum height difference (highest OU/lowest OU)		m	30/20	30/20	30/20	30/20	30/20	30/20	30/20	30/20
Compressor			Scroll DC Inverter	Scroll DC Inverter	Rotary DC Inverter	Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter
Refrigerant			R32	R32	R32	R410A	R410A	R410A	R410A	R410A
Refrigerant charge (length without additional charge)		kg (m)	1.2 (10)	1.3 (10)	1.3 (10)	3.3 (15)	3.4 (15)	3.4 (15)	5.0 (15)	5.3 (15)
Additional refrigerant charge		g/m	15	15	15	60	60	60	65	65
Dimensions (H x W x D)		mm	629x799x300	629x799x300	629x799x300	1,380x950x370	1,380x950x370	1,380x950x370	1,380x950x370	1,380x950x370
Weight		kg	45	45	44	103	103	103	137	139
Maximum current	Single-phase		13	13	17	30	30	30	-	-
	Three-phase		-	-	-	14	14	16	24	24

## Compatible controls and accessories:



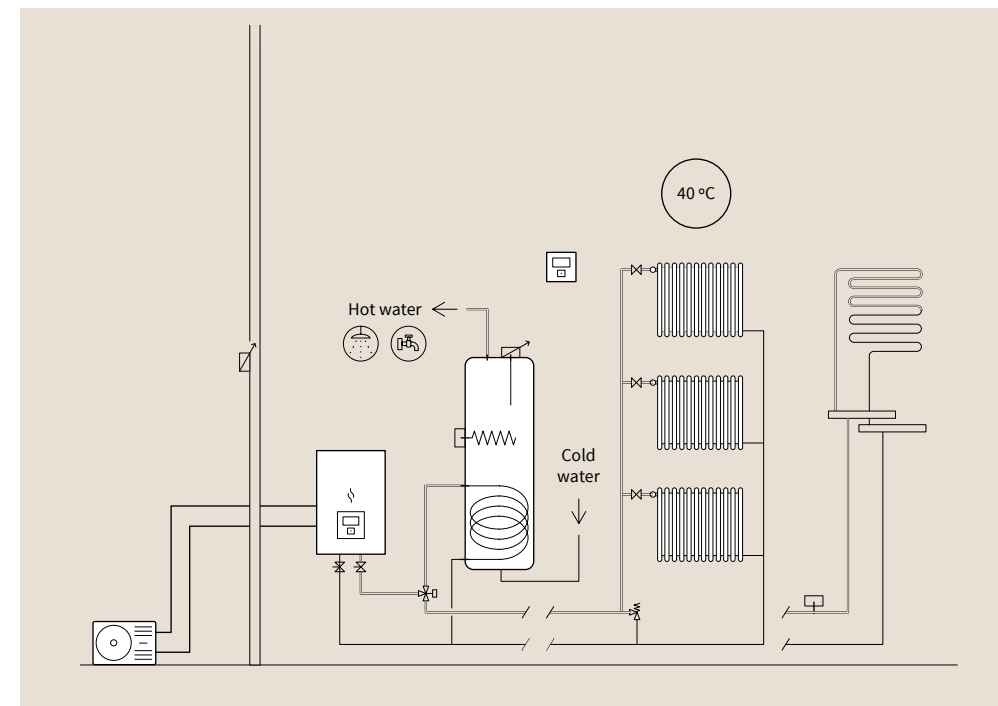
# Internal design

Yutaki S

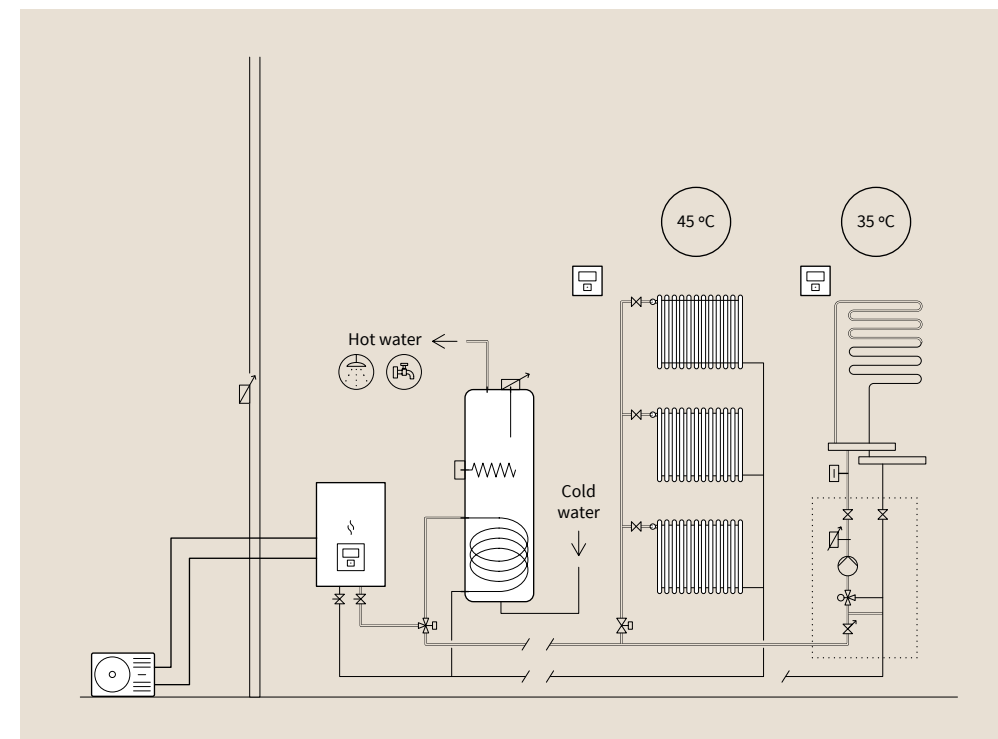


# Configurations

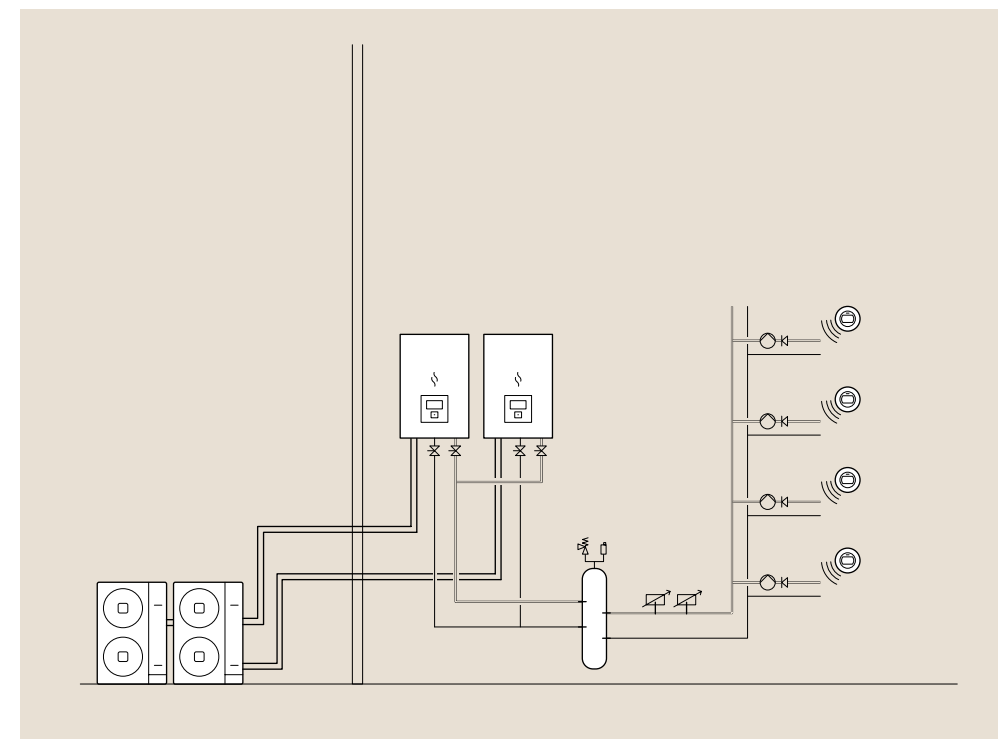
Radiator and underfloor heating at the same temperature; one zone + hot water by external tank.



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



Cascade operation. Heating or cooling.



Yutaki ASHP