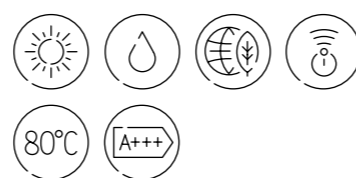


Yutaki S80

Water temperature up to 80 °C for heating and hot water without an electric heater



Maximum efficiency with smart cascade cycle

Yutaki S80 uses two refrigerants: R410A and R134a. Thanks to the unique **Smart Cascade cycle**, the equipment automatically adjusts operation according to heating requirements. When the heating requirement is lower (water temperature up to 53 °C), it only uses the R410A refrigerant; when this requirement increases (water temperature up to 80 °C), it activates the second cycle of R134a refrigerant. Consumption is under control and comfort is guaranteed at all times. (Fig. 1)

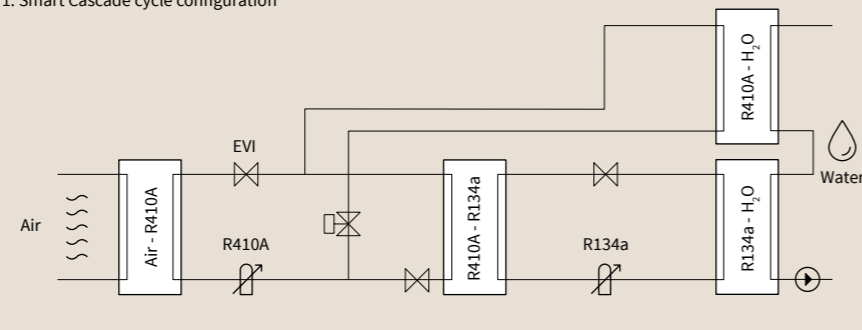
Maximum heating capacity

It can heat water up to 80°C using renewable energy, even at extreme temperatures down to -25°C.

Easy installation and maintenance

Its design allows easy access to the water and refrigerant connections, which are fitted in the top of the indoor unit and at the back of the tank unit.

Fig. 1: Smart Cascade cycle configuration

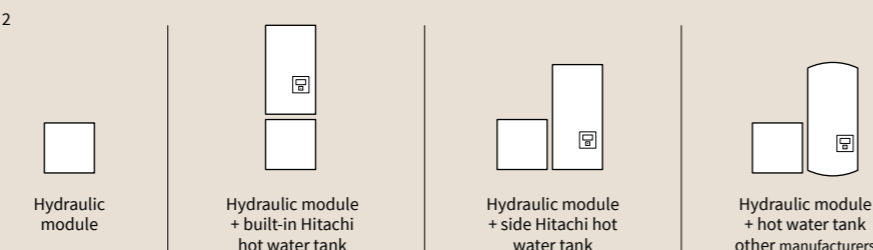


Adapted to each installation

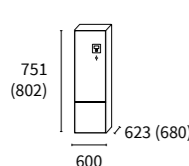
The Yutaki S80 is available in two models, adapting to any needs which may arise: one for heating, and one for heating and hot water.

There are two tanks, with 200 and 260-litre capacity, that can be installed as a built-in unit on or next to the indoor unit. (Fig. 2)*

Fig. 2

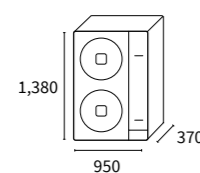


Indoor units



RWH-4.0VNF
RWH-5.0VNF
RWH-6.0VNF

Outdoor units



RAS-4WH(V)NPE
RAS-5WH(V)NPE
RAS-6WH(V)NPE

* Two tank options not available in the UK

Yutaki S80

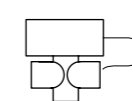
System		Yutaki S80 4	Yutaki S80 5	Yutaki S80 6
Capacity	Heating (Min/Nom/Max) kW	4.30/11.00/15.20	4.80/14.00/16.70	5.50/16.00/17.80
Consumption	Heating (Nom) kW	2.12	2.90	3.43
Electrical power		1 ~230V 50Hz	1 ~230V 50Hz	1 ~230V 50Hz
		3N ~400V 50 Hz	3N ~400V 50 Hz	3N ~400V 50 Hz
COP	Nominal	5.00	4.71	4.57
Energy rating at 35°C		A+++	A++	A++
Seasonal efficiency at 35°C, SCOP / ηs	Medium climate	4.75/187	4.43/174	3.88/152
Energy rating at 55°C		A++	A++	A++
Seasonal efficiency at 55°C, SCOP / ηs		3.63/142	3.35/131	3.23/126
Outdoor operating temperatures	Heating (DB) °C	-25 to 25	-25 to 25	-25 to 25
	Hot water (DB) °C	-25 to 35	-25 to 35	-25 to 35
Water production temperatures	Heating °C	20 to 80	20 to 80	20 to 80
	Hot water °C	30 to 75	30 to 75	30 to 75
Refrigerant pipe diameter	Liquid-gas inches	3/8-5/8	3/8-5/8	3/8-5/8
Water pipe diameter	Input-output inches	1-1/4 - 1-1/4	1-1/4 - 1-1/4	1-1/4 - 1-1/4
Hot water pipe diameter	Input-output inches	3/4-3/4	3/4-3/4	3/4-3/4
Indoor unit (without tank)		RWH-4.0VNF	RWH-5.0VNF	RWH-6.0VNF
Indoor unit (with hot water tank)		RWH-4.0VNFWE	RWH-5.0VNFWE	RWH-6.0VNFWE
Minimum water volume of the installation	l	40	50	50
Water flow	(Min/Nom/Max) m ³ /h	1.00 - 1.26 - 2.80	1.10 - 1.64 - 3.20	1.20 - 1.83 - 3.20
Sound power	dB(A)	57	57	58
Refrigerant		R-134A	R-134A	R-134A
Refrigerant charge	kg	1.90	1.90	1.90
Compressor		Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter
Dimensions model S80 (H (with connections) x W x D)	mm	751(802)x600x623	751(802)x600x623	751(802)x600x623
Dimensions model S80 COMBI (H x W x D (with connections))	mm	751x600x623(680)	751x600x623(680)	751x600x623(680)
Model weight without tank	Single-phase kg	125	129	129
	Three-phase kg	127	136	136
Model weight with tank	Single-phase kg	135	139	139
	Three-phase kg	137	146	146
Maximum current	Single-phase	36	40	43
	Three-phase	22	22	22
Outdoor unit		RAS-4WH(V)NPE	RAS-5WH(V)NPE	RAS-6WH(V)NPE
Air flow	m ³ /h	4,800	5,400	6,000
Sound pressure	dB(A)	49	50	50
Sound power	dB(A)	61	63	64
Minimum pipe length	m	5	5	5
Maximum pipe length	m	75	75	75
Maximum height difference (highest OU/lowest OU)	m	30/20	30/20	30/20
Compressor		Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter
Refrigerant		R410A	R410A	R410A
Refrigerant charge (length without additional charge)	kg (m)	3.3 (15)	3.4 (15)	3.4 (15)
Additional refrigerant charge	g/m	60	60	60
Dimensions (H x W x D)	mm	1,380x950x370	1,380x950x370	1,380x950x370
Weight	kg	103	103	103
Maximum current	Single-phase	20	25	25
	Three-phase	14	14	16
Outdoor unit	Single-phase £	2,665	2,928	3,311
	Three-phase £	2,851	3,095	3,499
Indoor unit	Single-phase £	5,075	5,482	5,961
	Three-phase £	5,638	5,991	6,627

*The control must be purchased when installing the tankless version.

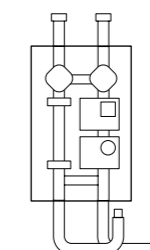
Compatible controls and accessories:



Remote control
PC-ARFHE



3-way valve
ATW-3WV-01

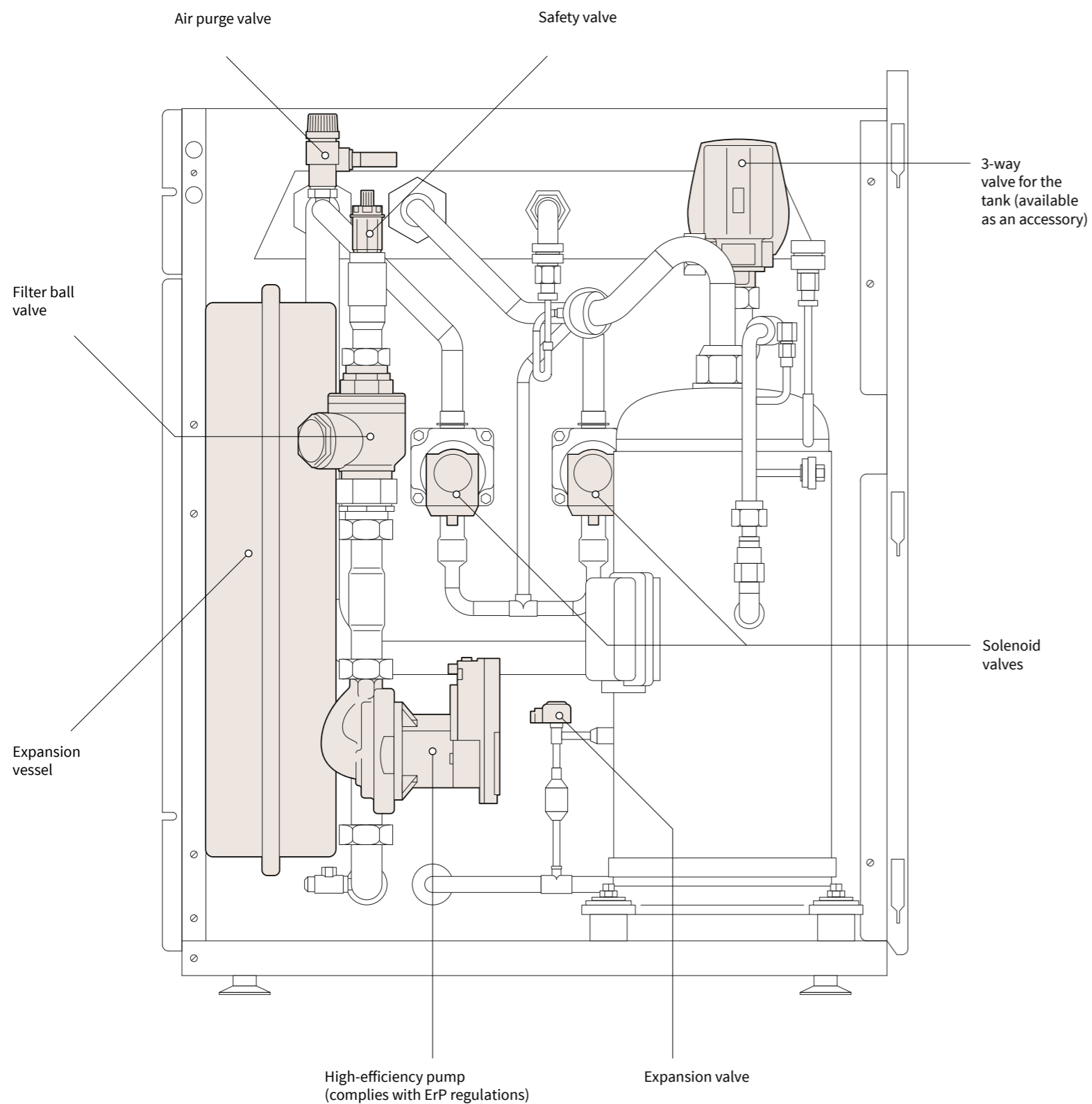


2nd temperature kit
ATW-2T-07
For wall-mounting

Others:

- Heating element. WEH-6E. Price: £660
- Kit for installation with tank next to the S80 indoor unit. mod. ATW-FWP-02

Internal design

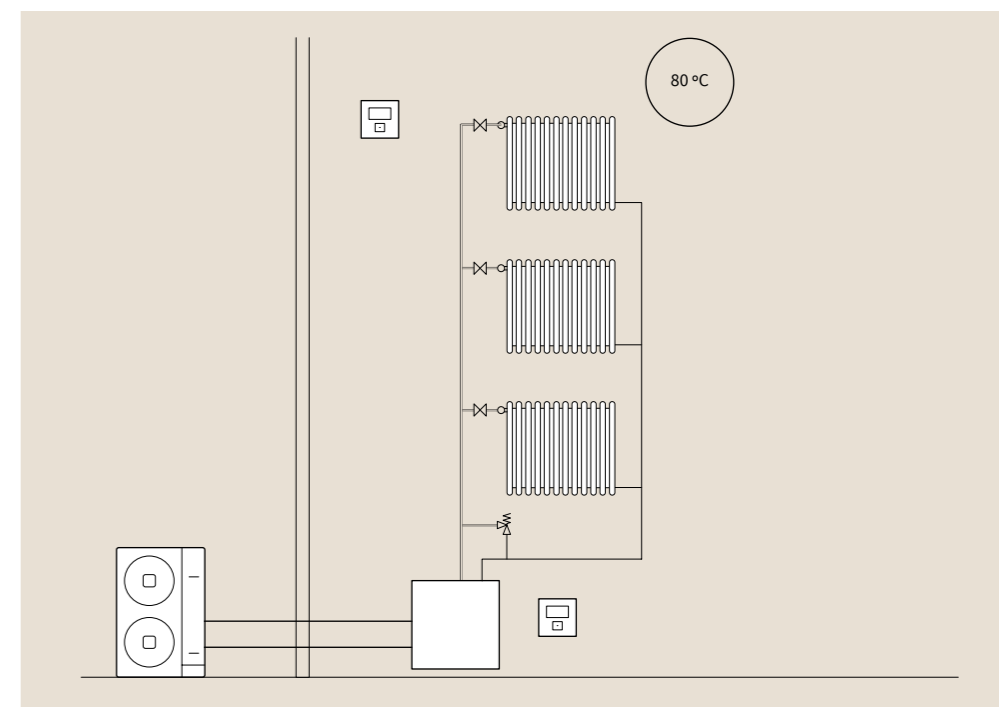


Its flexible design allows different installation possibilities and flexible pipe connection.

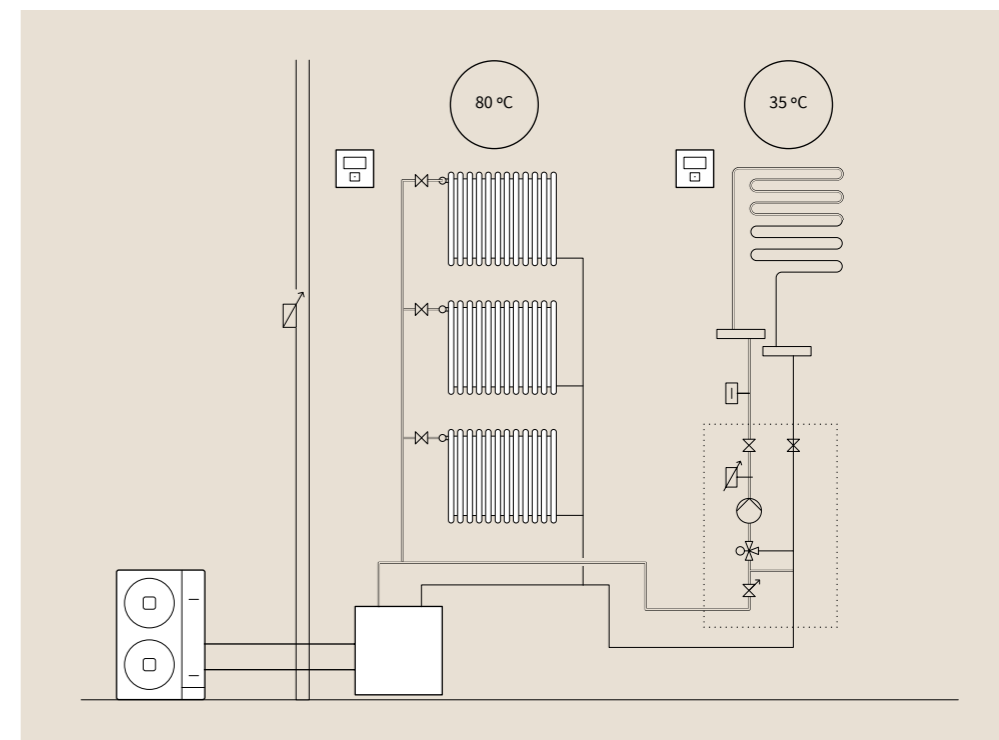
- Hydraulic module.
- Hydraulic module + built-in Hitachi hot water tank (not available in the UK).
- Hydraulic module + Hitachi hot water tank on one side (not available in the UK).
- Hydraulic module + third-party hot water tank.

Configurations

Heating, one circuit.



Heating, radiators and underfloor heating at different temperatures; two zones.



Heating, cascade operation.

