SAMSUNG



HVM R32

New cooling and heating solution

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HVM R32

It's a tried and tested design with a new refrigerant: introducing the HVM R32, which uses R32 refrigerant. The HVM system's water-based concept eliminates the need for refrigerant inside the building, making it a safe solution while being able to easy to transport and install.

Flash injection technology enables effective heating at low outdoor temperatures of down to - 25 °C. When connecting multiple Samsung HVM units within a single system, the workload is adjusted automatically for maximum efficiency.

A+*



R32

R32 Refrigerant

Easy installation

60°C LWT

* On the scale from A+++ (highest efficiency) to D (lowest efficiency)

Low Global Warming Potential

Thanks to the use of R32 refrigerant, the HVM R32[1] has a lower global warming potential (GWP) and needs less refrigerant than systems that use traditional refrigerants like R410A[2].

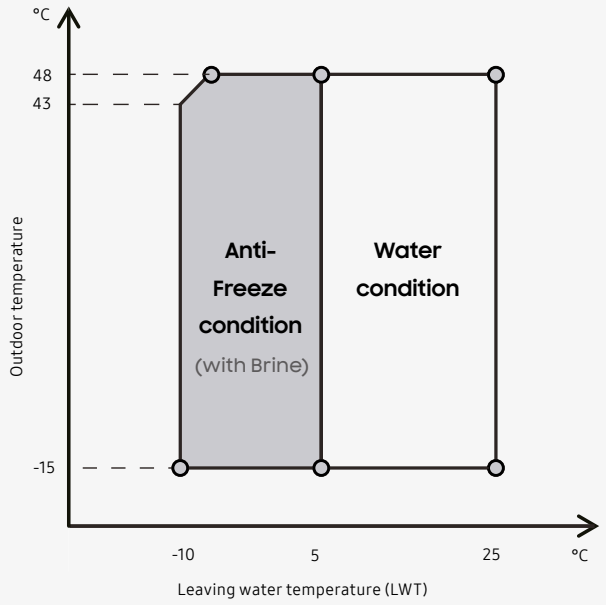
GWP R32	675
GWP R410A	2088

[1] R32 refrigerant charge 13.8kg tCO2e=9.32
[2] R410A refrigerant charge 18kg tCO2e=37.58

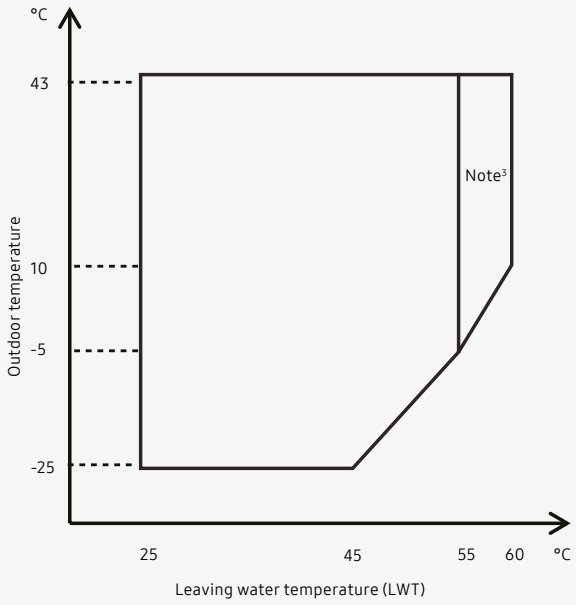
Great for wider outdoor temperature

The system can heat water even at low temperatures, which makes it a great choice for colder climates. The HVM R32 has a leaving water temperature (LWT) of up to 60°C, which is up to 5°C higher than that of systems with a traditional refrigerant like R410A.

Cooling



Heating



[3] It might work in part load in this area

Easy installation

The HVM R32 has a small footprint of 1.38m² and relatively low weight of 425kg, which is easy to transport and install in small spaces and on rooftops.

Easy Install

42/56 kW





Handle

Forklift



Transport

1 Ton Truck



Lift

Cargo Elevator



Line-up

Outdoor

Model Type	Image	42 kW	56 kW
Samsung HVM R32 (modular system, pump excluded) Combining modules allows each product to work at high capacity. You can combine up to 16 modules, with a total capacity of up to 896 kW.		•	•

Indoor

Model Type	Image	1.9 kW	2.6 kW	3.0 kW	4.2 kW	6.0 kW	7.2 kW	7.8 kW	9.0 kW	10.0 kW
WindFree™ 1-Way Cassette FCU			•	•	•					
WindFree™ 4-Way Cassette FCU						•	•		•	•
360 Cassette FCU						•	•		•	•
Concealed FCU		•		•	•		•	•		
Cased FCU		•		•	•		•	•		

Specification

Model Name			AG042FAVANG/EU	AG056FAVANG/EU
Mode			HEAT PUMP	HEAT PUMP
Capacity				
	Cooling	kW	42	56
	Heating	kW	42	56
Performance				
Efficency	SEER[1]	W/W	4.35	4.18
	SCOP[1]	W/W	3.46	3.34
	SCOP Class (35°C)[2]		A+	A+
Sound Pressure	Cooling	dB(A)	55	61
	Heating	dB(A)	56	59
Operating Water Temp. Range	Cooling	°C	5 ~ 25	5 ~ 25
	Cooling (If using brine)	°C	-10 ~ 25	-10 ~ 25
	Heating	°C	25 ~ 60	25 ~ 60
Operating Water Flow Range	Water Flow Rate	LPM	60 ~ 240	80 ~ 320
	Minimum water storage in the system	L	294	392
Operating Amb. Temp. Range	Cooling	°C	-15 ~ 48	-15 ~ 48
	Heating	°C	-25 ~ 43	-25 ~ 43
Electrical Data				
Power Supply		Φ, #, V, Hz	3,4,380-415,50/60	3,4,380-415,50/60
Power Input (Nominal)[3]	Cooling	kW	12.35	18.67
	Heating	kW	11.83	17.5
Current Input (Nominal)[3]	Cooling	A	20.5	30.5
	Heating	A	19.9	28.7
Compressor				
	Type	-	Scroll Inverter	Scroll Inverter
	Amount	-	2	2
Fan				
	Quantity	ea	2	2
	Air Flow Rate	CMM	314 (157 x 2)	314 (157 x 2)
		l/s	5233	5233
	External Static Pressure (max)	mmAq	8	8
		Pa	78.5	78.5
Refrigerant				
Refrigerant type[4]			R32 (GWP=675)	R32 (GWP=675)
Factory Charging		kg/tCO2e	13.8 / 9.32	13.8 / 9.32
Water Side Heat Exchanger				
Water Flow Rate (Cooling/Heating)		LPM	120 / 120	160 / 160
Pressure Drop (Set. Nominal)		kPa	60	100
Max Operating Pressure		MPa	1	1
Connection Type		-	FLANGE	FLANGE
Pipe Connection (Inlet/Outlet)		Φ, mm	40	40
		Φ, inch	1 1/2"	1 1/2"
Quantity		EA	2	2
External Dimension				
Net Weight		kg	425	425
Net Dimensions (WxHxD)		mm	1,795x1,695x765	1,795x1,695x765

[1] EER/COP(Pump input is included) and ESEER(Pump input is included) values are calculated based on EUROVENT condition.
[2] On the scale from A+++ (highest efficiency) to D (lowest efficiency).
[3] Pump input is not included.
[4] These products contain R32(GWP=675) which is fluorinated greenhouse gas.

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Find your flow.

Learn more about Samsung Climate Solutions at:
samsung-climatesolutions.com

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