



HUG silenced condensing units

Tropicalized to 46°C ambient temperature

CATALOGUES 2026





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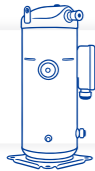
HUG 3HP/4HP YM

HUG 5HP/7HP YM

HUG 3HP/4HP YF

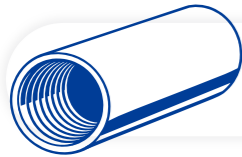
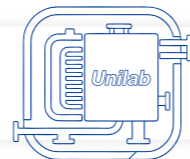
HUG 5HP/7HP YF

01 PRODUCT FEATURES



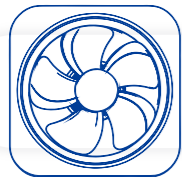
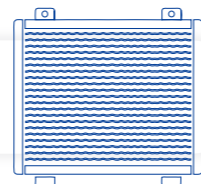
Internationally renowned scroll compressor, reliable quality, superior performance, low vibration, low noise, quieter operation.

Designed and simulated with the Italian Unilab professional heat exchanger design software, ensuring more reasonable heat exchange design and higher performance efficiency.



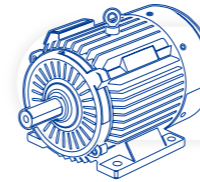
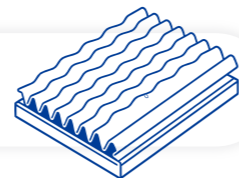
The heat exchanger uses small-diameter high-efficiency inner-grooved copper tubes, offering high heat exchange efficiency and low refrigerant charge, making it economical and environmentally friendly.

The fins are made of hydrophilic aluminum foil with polyurethane coating and corrugated design, providing excellent heat transfer performance and good corrosion resistance.



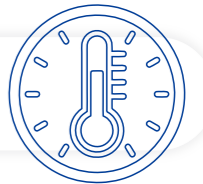
Glass-fiber reinforced ABS fan blades with optimized blade design, offering high strength, high heat resistance, large airflow, and high efficiency.

Wave-shaped sound-absorbing cotton is pasted inside the cabinet, effectively blocking noise and ensuring quieter operation.



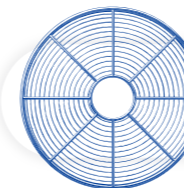
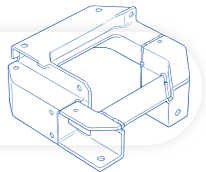
High-efficiency internal rotor 6-pole motor, low rotational speed, low noise, high efficiency.

Adaptable to ambient temperatures up to 45°C, significantly improving the operational reliability of the unit.



The unit is equipped with comprehensive protection measures, including high/low pressure protection and high discharge temperature protection.

Spiral flow-guiding fan guard ensures smoother airflow and better heat exchange efficiency.



New open-door structural design allows maintenance without removing the front panel, making servicing more convenient.



02 UNIT CONFIGURATION TABLE

Unit accessories.	Invotech unit configuration		Invotech unit configuration	
	HUG_YM_	HUG_YM_main switch	HUG_YF_	HUG_YF_main switch
Scroll compressor	●	●	●	●
Oil heating belt	●	●	●	●
Oil separator	●	●	●	●
Suction accumulator	●	●	●	●
Air-cooled condenser.	●	●	●	●
Liquid receiver with valve	●	●	●	●
Filter drier	●	●	●	●
Solenoid valve	●	●	●	●
High and low pressure gauges	●	●	●	●
Mechanical dual pressure control	●	●	●	●
Sight glass	●	●	●	●
Liquid injection assembly	○	○	●	●
Liquid receiver shut-off valve	●	●	●	●
Main switch	●	●	●	●
Contactora	●	○	●	○
Motor thermal protector	●	○	●	○
Phase sequence protection relay	●	○	●	○

Standard configuration. ● Optional configuration. ○ None. x

Schneider Electric high quality electrical components installed including main switch, contactora, motor thermal protector and phase sequence protection relay.

All CDU's are including receiver, oil separator and suction accumulator.

Suitable for Multi refrigerants use R404a / R507 / R448.

03 MAIN TECHNICAL PARAMETERS

Air cooled medium / low temperature

Unit model		HUG 3HP YM	HUG 4HP YM	HUG 5HP YM	HUG 7HP YM	
Power supply		380V/3PH/50 HZ				
Applicable room temperature (°C)		-20°C ~5 °C				
Compressor	Model	YM50E1G-621	YM70E1G-621	YM86E1G-621	YM115E1G-621	
	Maximum operating current (A)	6.7	10.3	12.2	17.1	
Condenser	Model	L41-7-32E	L41-9,1-32E	L60-7-48E	L60-9,1-48E	
	Fan power (W).	85	85	170	170	
	Current (A)	0.68	0.68	1.36	1.36	
Liquid receiver	Volume (L)	3	3	8	8	
Compressor capacity and power	Evaporating, -5°C	Cooling capacity (kW)	5.23	7.44	9.14	12.22
		Power. (kW)	2.64	3.68	4.43	6.2
	Evaporating, -10°C	Cooling capacity (kW)	4.25	6.1	7.5	10.02
		Power. (kW)	2.56	3.54	4.25	5.96
	Evaporating, -25°C	Cooling capacity (kW)	2.12	3.18	3.91	5.23
		Power. (kW)	2.23	3.06	3.68	5.17
Connection	Liquid supply connection. (mm)	12	12	16	16	
	Suction connection. (mm)	22	22	28	28	
Weight.(kg)		104	105	130	133	
Noise.dB(A)@10m		60	60	61	61	
Overall dimensions	A (mm)	1130	1130	1130	1130	
	B (mm)	420	420	420	420	
	C (mm)	850	850	1250	1250	
Installation dimensions. (a×b) (mm)		635*375	635*375	635*375	635*375	

Note: The CDU capacity data shown above is based on an ambient temperature of 35°C.

The design ambient temperature of 46°C remains applicable.

03 MAIN TECHNICAL PARAMETERS

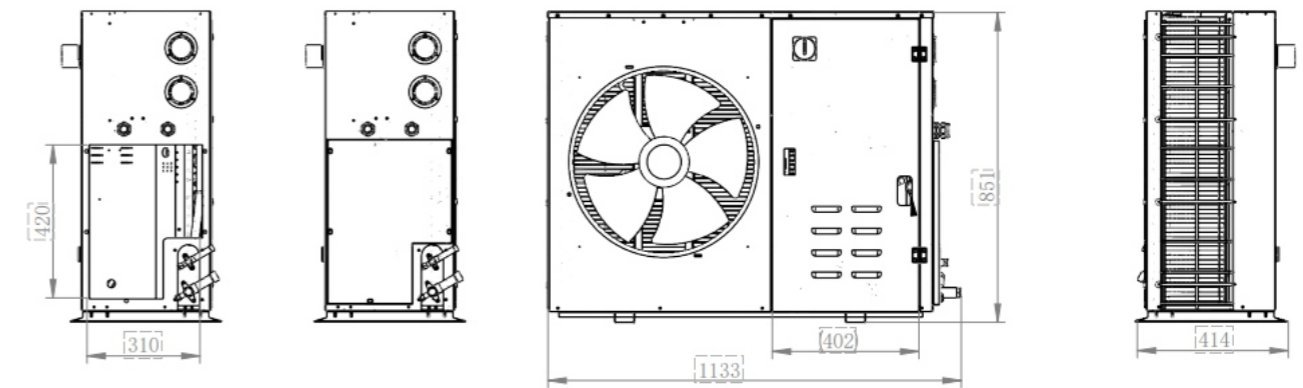
Air cooled medium / low temperature

Unit model		HUG 3HP YF	HUG 4HP YF	HUG 5HP YF	HUG 7HP YF	
Power supply		380V/3PH/50 HZ				
Applicable room temperature (°C)		-20°C ~5 °C				
Compressor	Model	YF20E1G-Q621	YF29E1G-Q621	YF35E1G-Q621	YF45E1G-Q621	
	Maximum operating current (A)	5.8	8.8	10.3	13.2	
Condenser	Model	L46-7-36E	L46-9,1-36E	L60-7-48E	L60-9,1-48E	
	Fan power (W).	85	85	170	170	
	Current (A)	0.68	0.68	1.36	1.36	
Liquid receiver	Volume (L)	3	3	8	8	
Compressor capacity and power	Evaporating. -20°C	Cooling capacity (kW)	2.67	4.05	4.8	6.17
		Power. (kW)	2.41	3.33	3.83	4.62
	Evaporating. -25°C	Cooling capacity (kW)	2.14	3.24	3.84	4.94
		Power. (kW)	2.3	3.17	3.65	4.41
	Evaporating. -30°C	Cooling capacity (kW)	1.69	2.56	3.04	3.91
		Power. (kW)	2.19	3.02	3.47	4.19
Connection	Liquid supply connection. (mm)	12	12	16	16	
	Suction connection. (mm)	22	22	28	28	
Weight.(kg)		105	106	131	134	
Noise.dB(A)@10m		60	60	61	61	
Overall dimensions	A (mm)	1130	1130	1130	1130	
	B (mm)	420	420	420	420	
	C (mm)	950	950	1250	1250	
Installation dimensions. (a×b) (mm)		635*375	635*375	635*375	635*375	

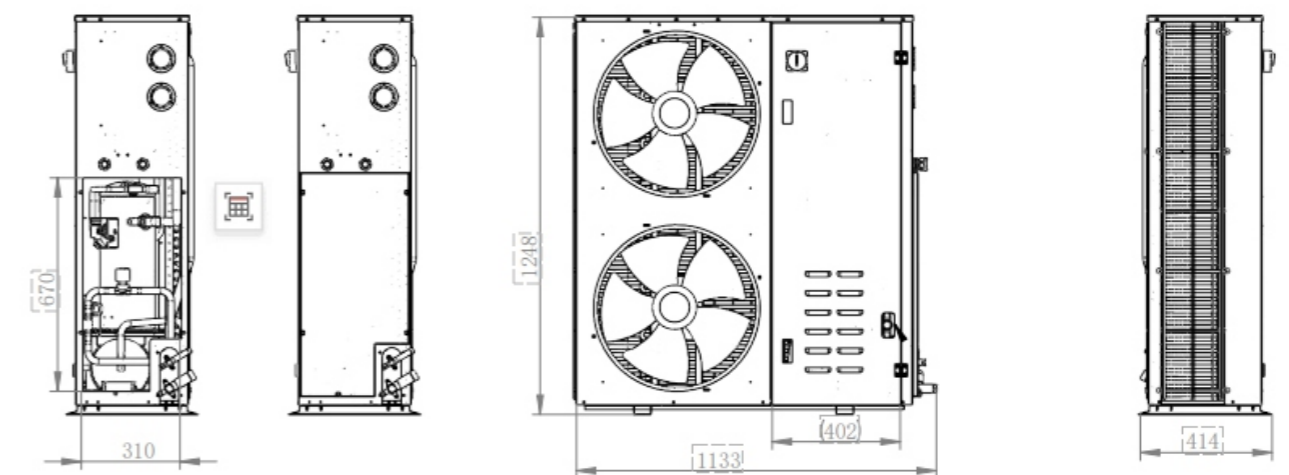
Note: The CDU capacity data shown above is based on an ambient temperature of 35°C.
The design ambient temperature of 46°C remains applicable.

04 DRAWINGS

HUG 3HP/4HP YM

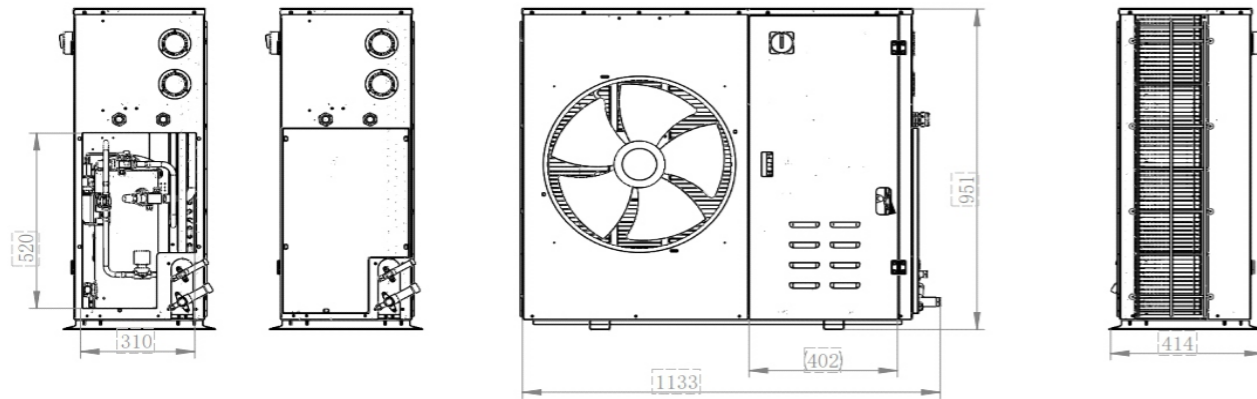


HUG 5HP/7HP YM



04 DRAWINGS

HUG 3HP/4HP YF



HUG 5HP/7HP YF

