

PANASONIC TRANSCRITICAL CO2 OUTDOOR CONDENSING UNIT

2HP MT/LT

OCU-CR200VF5ASL SALT PROOF COATING



ENHANCED ENERGY EFFICIENCY
& VERSATILITY

HUSSmann®



SCOPE OF APPLICATION, SPECIFICATIONS

This refrigeration unit operates with a rotary compressor.

USE THE REFRIGERATION UNIT WITHIN THE RANGE SHOWN BELOW		
Item	Standard Value	Remarks
Refrigerant	R744	The charge supply amount shall be adequate
Evaporating temperature	-45 °C to -5 °C	Temperature conversion of inlet pressure
Suction pressure	0.73MPa to 2.95MPa	Unit inlet pressure
Compressor rotational speed	37 s ⁻¹ to 65 s ⁻¹	*(RPS)
Suction gas temperature	18 °C or below	Unit inlet (suction gas) pipe temperature
Superheat at suction	10 K or above	Difference between evaporating temperature and compressor inlet temperature
Discharge pressure	12.0MPa or below	Compressor outlet pressure
Discharge gas temperature	115 °C or below	Compressor outlet temperature
Oil temperature	100 °C or below (Ambient temperature +10 K or above)	
Ambient temperature	-20 °C to +43 °C	Gas cooler intake air temperature
Power source	~50 Hz 220 V / 230 V / 240 V	Within ± 10 % of Rate Voltage
Installation inclination angle	1° or below	
ON/OFF cycle period	10 minutes or longer for ON/OFF cycle	Oil return shall be ensured
Installation	Outdoor	The foundation shall be rigid enough
Climatic class	0/1/2/3/4/6/8	Please see below "CLIMATIC CLASS"
Sound pressure level(A-weight)	35.5 dB(A)	10m distance (calculated value from a measured value at a distance of 1m)

* Operation may not be possible depending on the installed condition.

CLIMATIC CLASS				
Test room Climate class	Dry bulb temperature °C	Relative humidity %	Dew point °C	Water vapour mass in dry air g/kg
0	20	50	9.3	7.3
1	16	80	12.6	9.1
2	22	65	15.2	10.8
3	25	60	16.7	12.0
4	30	55	20.0	14.8
6	27	70	21.1	15.8
8	23.9	55	14.3	10.2

Excerpt from: EN ISO 23953

COUNTERMEASURES IN A COLD WEATHER OPERATION

In order to prevent excessive reduction of high pressure in a cold weather location, surrounding around the refrigeration unit should be made.

PERFORMANCES (230 V)					
Ambient temperature	Item	Symbol	Evaporating temperature		Unit
			-10 °C	-35 °C	
32 °C	Rated Cooling capacity	P _A	3.70	1.92	kW
	Rated Power input	D _A	1.79	1.63	kW
	Rated COP	COP _A	2.10	1.18	-
25 °C	Cooling capacity	P ₂	3.87	2.01	kW
	Power input	D ₂	1.55	1.44	kW
	COP	COP ₂	2.50	1.40	-
43 °C	Cooling capacity	P ₃	3.17	1.60	kW
	Power input	D ₃	2.03	1.88	kW
	COP	COP ₃	1.56	0.87	-

Compressor rotational speed : 65 s⁻¹, Suction superheat : 10K

RATED SPECIFICATIONS		
Item	Rating	Unit
Power source	~50 Hz 220/230/240	V
Power input	1.80/1.79/1.79	kW
Current	8.31/7.94/7.60	A

Conditions

1. Evaporating temperature: -10 °C
2. Ambient temperature: 32 °C
3. Compressor rotational speed : 65 s⁻¹
4. Suction superheat : 10K

CO2 REFRIGERANT GRADE	
Item	Specifications
Purity	> 99.9 % (volume)
Moisture	< 0.005 % (volume)
Total sulfur	< 0.03 ppm (weight)
Inert gas (H2, N2, O2, Ar)	< 0.01 % (volume)

Charge CO2 refrigerant (R744) that is compatible with following specifications.



Additional Information

All Dimensions shown in Millimetres (mm) unless otherwise stated. Dimensions and features are subject to change. Please obtain current technical information prior to order confirmation.

NOTE: We reserve the right to change or revise specifications and product design in connection with any feature of our products. Such changes do not entitle the buyer to corresponding changes, improvements, additions or replacements for equipment previously sold or Shipped.

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