#### PANASONIC TRANSCRITICAL CO2 OUTDOOR CONDENSING UNIT

# 2HP MT/LT

OCU-CR200VF5A STANDARD COATING



### ENHANCED ENERGY EFFICIENCY & VERSATILITY





#### **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 $\pm$ 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

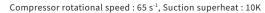
Test room Climate class	Dry bulb temperature °C	Relative humidity %	Dew point °C	Water vapour mass in dry air g/kg		
0	20	50	9.3	7.3		
1	16	80	12.6	9.1		
2	22	65	15.2	10.8		
3	25	60	16.7	12.0		
4	30	55	20.0	14.8		
6	27	70	21.1	15.8		
8	23.9	55	14.3	10.2		

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	
		т	-10 °C	-35 °C	onit	
32 °C	Rated Cooling capacity	P <sub>A</sub>	3.70	1.92	kW	
	Rated Power input	D <sub>A</sub>	1.79	1.63	kW	
	Rated COP	COP <sub>A</sub>	2.10	1.18	-	
25 °C	Cooling capacity	P <sub>2</sub>	3.87	2.01	kW	
	Power input	D <sub>2</sub>	1.55	1.44	kW	
	СОР	COP <sub>2</sub>	2.50	1.40	-	
43 °C	Cooling capacity	Ρ <sub>3</sub>	3.17	1.60	kW	
	Power input	D <sub>3</sub>	2.03	1.88	kW	
	СОР	COP3	1.56	0.87	-	



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# RATED SPECIFICATIONSItemRatingUnitPower source~50 Hz 220/230/240VPower input1.80/1.79/1.79kWCurrent8.31/7.94/7.60A

#### Conditions

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

#### CO2 REFRIGERANT GRADE

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

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)	



#### 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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