



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 10 K Suction Superheat
- Maximum Evaporating Temperature
- Maximum Pressure Limit

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Ambient °C	Cooling Capacity, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
27.0	5.40	7.02	8.70	10.50	12.50	14.65	17.10	18.15	19.80
32.0		6.47	8.09	9.82	11.70	13.80	16.10	17.05	18.65
38.0			7.36	8.99	10.75	12.70	14.85	15.75	17.20
43.0				8.32	9.98	11.80			
46.0				7.92	9.52				
49.0									

50 Hz

MC-R7-ZB45KE-TFD

R449A Dew Point

Ambient °C	Total Power Input, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
27.0	3.85	4.00	4.15	4.31	4.50	4.73	5.01	5.13	5.34
32.0		4.46	4.62	4.79	4.99	5.22	5.51	5.64	5.85
38.0			5.26	5.44	5.64	5.88	6.18	6.31	6.53
43.0				6.03	6.25	6.49			
46.0				6.42	6.64				
49.0									

Ambient °C	Current at 400 V, A								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
27.0	7.72	7.98	8.16	8.32	8.51	8.80	9.23	9.46	9.86
32.0		8.55	8.74	8.90	9.09	9.37	9.78	10.00	10.39
38.0			9.58	9.72	9.89	10.14	10.52	10.72	11.08
43.0				10.51	10.65	10.86			
46.0				11.02	11.14				
49.0									

Ambient °C	Mass Flow, g/s								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
27.0	30.50	40.30	51.00	63.20	77.20	93.90	114.00	123.00	138.50
32.0		39.00	49.90	62.10	76.20	92.90	113.00	122.50	138.00
38.0			48.40	60.80	75.00	91.80	112.50	121.50	137.50
43.0				59.80	74.20	91.30			
46.0				59.40	73.90				
49.0									

CONDENSING UNIT MECHANICAL AND PHYSICAL DATA

Condenser/Fan Type	R7/271
Number of Fans	2
Total Fan Power Input, W	470
Depth/Width, mm	680/1130
Height, mm	633
Base mounting (hole dia), mm	1095 x 350 (14)
Gross Weight, kg	141
Net Weight, kg	101
Receiver Capacity, l	7.9
Liquid Line, inch	1/2
Air Flow, m ³ /s	1.97
Suction Type	Rotalock Valve
Suction Diameter, inch	7/8
Sound Pressure @ 10m, dBA	50

CONDENSING UNIT ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Condenser Fan Current for 1 fan (single phase)	1.15 / 1.4
Compressor Maximum Operating Current, A	13.1
Compressor Locked Rotor Current, A	74

ACCESSORIES INCLUDED

Crankcase Heater	70 W External
Electric box (W x H x D), mm	140 x 205 x 60
HP/LP Switch	ALCO PS2-W7A

ACCESSORIES OPTIONAL

Housing	RCR
Fan speed control	ALCO FSX41S for R134a
Fan speed control	ALCO FSX42S

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00