



APPROVALS



ENGINEERING CODE
513301722

APPROVED REFRIGERANT
R-290

POWER SUPPLY
115-127 V 60 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
L/MBP

COOLING CAPACITY
294 W

EFFICIENCY
1.77 W/W

MOTOR TYPE
RSCR

STARTING TORQUE
LST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	5.19 cm ³
Compressor Cooling	Fan/NotControlled/115
Expansion Device	Capillary Tube
Horse Power	1/4 hp
Power Supply	115-127 V 60 Hz
Evaporating Temperature Range	-35 °C to 0 °C

Electrical Data

Motor type	RSCR
Starting Torque	LST
Start Winding Resistance	7.28 Ω at 25° C
Run Winding Resistance	3.09 Ω at 25° C
Locked Rotor Amperage (LRA)	14.9 A
Rated Load Amperage (RLA) at 60 Hz	2.85 A

Mechanical Data

Oil Charge	150 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO10
Weight	6.8 Kg

Electrical Components

	Description
Motor Protection	4TM427NFBYY-53
Starting Device	PTC 8EA14C3 QPS2-A4R7MD3
Run Capacitor	12

External Characteristics

Tray Holder	No	
Connector	Internal Diameter	Shape
Suction	8.2 mm	Straight/Copper
Discharge	6.5 mm	Straight/Copper
Process	6.5 mm	Straight/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	-23.30°C	294 W	166 W	1.6 A	3.10 kg/h	1.77 W/W

Test Condition: ASHRAE, Fan/NotControlled/115, Return Gas 32.2°C, Evaporation -23.30°C, Condensing 54.40°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to ASHRAE guideline polynomial curve.

Performance Curve Data

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-35	193	115	1.11	1.99	1.68
-30	249	130	1.25	2.56	1.92
-25	317	145	1.38	3.25	2.18
-20	396	160	1.51	4.07	2.48
-15	487	173	1.62	5.01	2.81
-10	589	184	1.71	6.08	3.2
-5	703	193	1.79	7.28	3.65

Test Condition: ASHRAE, Fan/NotControlled/115, L/MBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-35	173	118	1.16	1.82	1.47
-30	228	135	1.31	2.38	1.68
-25	294	154	1.47	3.05	1.91
-20	372	172	1.63	3.85	2.16
-15	462	190	1.78	4.78	2.43
-10	564	207	1.92	5.84	2.73
-5	678	221	2.05	7.04	3.07

Test Condition: ASHRAE, Fan/NotControlled/115, L/MBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-30	203	137	1.36	2.18	1.49
-25	268	159	1.54	2.83	1.69
-20	344	181	1.73	3.61	1.9
-15	432	203	1.92	4.52	2.12
-10	533	225	2.11	5.56	2.36
-5	645	246	2.29	6.74	2.63

Test Condition: ASHRAE, Fan/NotControlled/115, L/MBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 65°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-35	127	114	1.21	1.48	1.11
-30	176	137	1.4	1.97	1.29
-25	238	161	1.61	2.59	1.47
-20	311	188	1.83	3.33	1.66
-15	397	215	2.06	4.21	1.85
-10	494	242	2.29	5.22	2.04

Test Condition: ASHRAE, Fan/NotControlled/115, L/MBP. Data in accordance to ASHRAE guideline polynomial curve.