



APPROVALS



ENGINEERING CODE
513300342

APPROVED REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
LBP

COOLING CAPACITY
280 W (LBP)

EFFICIENCY
1.39 W/W (LBP)

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	9.5 cm ³
Compressor Cooling	Fan/NotControlled/220
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/3 hp
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-45 °C to -10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	22.33 Ω at 25° C
Run Winding Resistance	7.89 Ω at 25° C
Locked Rotor Amperage (LRA)	26.7 A
Rated Load Amperage (RLA) at 60 Hz	3 A

Mechanical Data

Oil Charge	210 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Weight	8.6 Kg

Electrical Components

	Description
Starting Device	Relay MTRP-0028* QL2-6.4*
Motor Protection	MST304AMZ-3259 T0806/G6
Start Capacitor	88-108 Uf / 330 V

External Characteristics

Tray Holder	Yes	
Connector	Internal Diameter	Shape
Suction	8.2 mm	Slanted 40° up + 45° to Back/Copper
Discharge	6.1 mm	Slanted 0° up + 24° to Back/Copper
Process	6.2 mm	Slanted 40° up + 45° to Back/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
40.00°C	-35.00°C	280 W	203 W	3.11 kg/h	1.39 W/W

Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Evaporation -35.00°C, Condensing 40.00°C, Ambient 35°C, Liquid 40°C, Subcooling 0K. Data are an indication of performance based simulation.

Performance Curve Data

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-45	191	158	2.10	1.21
-40	233	177	2.56	1.32
-35	300	200	3.28	1.5
-30	387	225	4.26	1.72
-25	496	251	5.47	1.97
-20	622	275	6.89	2.26
-15	764	297	8.51	2.57
-10	920	314	10.30	2.93
-5	1088	324	12.25	3.36
0	1267	325	14.34	3.9
5	1454	317	16.55	4.59
10	1647	296	18.86	5.56

Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-45	161	164	1.92	0.98
-40	191	185	2.29	1.03
-35	242	211	2.92	1.15
-30	313	241	3.78	1.3
-25	402	272	4.87	1.48
-20	505	302	6.15	1.67
-15	623	331	7.62	1.88
-10	752	357	9.25	2.11
-5	891	376	11.03	2.37
0	1037	389	12.94	2.67
5	1190	392	14.95	3.03
10	1346	385	17.06	3.49

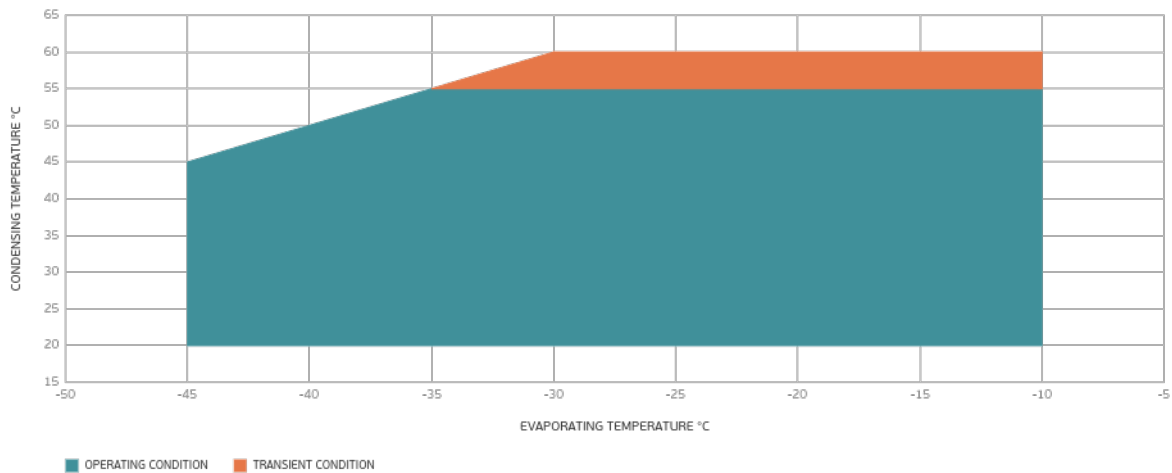
Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-45	125	167	1.65	0.75
-40	144	190	1.92	0.75
-35	181	220	2.42	0.82
-30	235	253	3.16	0.93
-25	304	290	4.10	1.05
-20	386	327	5.23	1.18
-15	479	363	6.54	1.32
-10	582	397	8.00	1.46
-5	692	427	9.59	1.62
0	807	451	11.30	1.79
5	926	467	13.11	1.98
10	1046	473	15.00	2.21

Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Operating Envelope



External Dimensions

