





APPROVALS




 **ENGINEERING CODE**
513306233


 **APPROVED REFRIGERANT**
R-290

 **POWER SUPPLY**
220-240 V 50 Hz

 **STANDARD CONDITIONS**
ASHRAE

 **APPLICATION**
LBP

 **COOLING CAPACITY**
300 W (LBP)

 **EFFICIENCY**
1.48 W/W (LBP)

 **MOTOR TYPE**
CSIR

 **STARTING TORQUE**
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	5.96 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	-40 °C to -10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	19.15 Ω at 25° C
Run Winding Resistance	11.3 Ω at 25° C
Rated Load Amperage (RLA) at 50 Hz	1.35 A

Mechanical Data

Oil Charge	180 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Weight	7.75 Kg

Electrical Components

	Description
Starting Device	Relay MTRP-36*
Start Capacitor	64-77 Uf / 330 V
Motor Protection	MSP61AMK-3259

External Characteristics

Tray Holder	Yes	
Connector	Internal Diameter	Shape
Suction	6.1 mm	Slanted 42° up + 45° to Back/Copper
Discharge	4.94 mm	Slanted parallel BP+24° to Back/Copper
Process	6.1 mm	Slanted 45° up + 45° to Back/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	-23.30°C	300 W	203 W	1.43 A	3.05 kg/h	1.48 W/W

Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Evaporation -23.30°C, Condensing 54.40°C, Ambient 32.2°C, Liquid 32.2°C, Subcooling 22.2K. Data in accordance to EN

12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

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
-40	151	130	1.26	1.52	1.15
-35	196	146	1.29	1.98	1.34
-30	249	161	1.32	2.52	1.55
-25	311	174	1.35	3.15	1.78
-20	382	187	1.38	3.89	2.04
-15	464	199	1.42	4.74	2.34
-10	557	209	1.45	5.72	2.67

Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-40	137	133	1.27	1.38	1.04
-35	181	150	1.3	1.83	1.21
-30	234	168	1.34	2.36	1.39
-25	295	186	1.38	2.99	1.59
-20	365	203	1.43	3.72	1.8
-15	447	220	1.48	4.57	2.03
-10	540	236	1.53	5.55	2.29

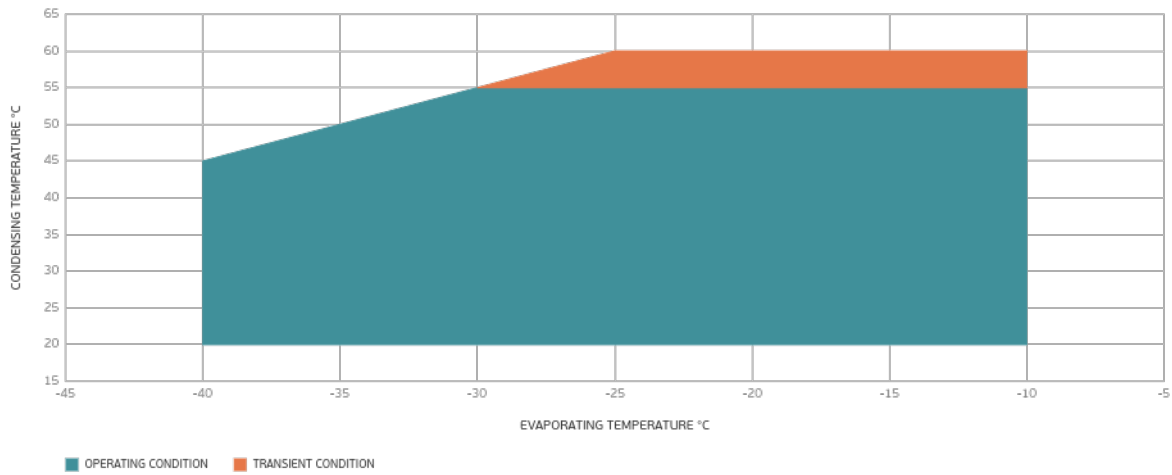
Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-40	124	136	1.27	1.25	0.91
-35	166	155	1.31	1.68	1.07
-30	217	175	1.36	2.20	1.24
-25	277	195	1.41	2.81	1.42
-20	347	217	1.47	3.53	1.6
-15	428	238	1.53	4.38	1.8
-10	521	259	1.6	5.35	2.01

Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Operating Envelope



External Dimensions

