MODEL
EM2X3121U

APPROVALS

ENGINEERING CODE
513300455

APPROVED REFRIGERANT
R-290

POWER SUPPLY
115-127 V 60 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
L/MBP

COOLING CAPACITY
331 W (LBP)

EFFICIENCY
1.73 W/W (LBP)

MOTOR TYPE
RSCR

STARTING TORQUE
LST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	5.54 cm³
Compressor Cooling	Fan/NotControled/115
Expansion Device	Capillary Tube
Horse Power	1/4 hp
Power Supply	115-127 V 60 Hz
Evaporating Temperature Range	-40 °C to 0 °C

Electrical Data

Motor type	RSCR
Starting Torque	LST
Start Winding Resistance	5.27 Ω at 25° C
Run Winding Resistance	3.04 Ω at 25° C
Locked Rotor Amperage (LRA)	26.7 A
Rated Load Amperage (RLA) at 60 Hz	3 A

Mechanical Data

Oil Charge	150 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Weight	7.8 Kg

Electrical Components

	Description
Run Capacitor	20
Motor Protection	4TM427NFBYY-53 DRB44N61A2
Starting Device	PTC | 8EA14C3 8EA14E62 8EA14E63 QP2-4.7

External Characteristics

Tray Holder	No

Connector	Internal Diameter	Shape
Suction	6.1 mm	Slanted 40? up + 45? to Back/Copper
Discharge	4.9 mm	Slanted 0? up + 24? to Back/Copper
Process	6.1 mm	Slanted 40? 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	331 W	191 W	1.69 A	3.36 kg/h	1.73 W/W

Test Condition: ASHRAELBP32, Fan/NotControled/115, 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	200	120	1.04	2.01	1.67
-35	244	134	1.18	2.47	1.82
-30	307	149	1.31	3.11	2.06
-25	386	164	1.44	3.92	2.36
-20	482	178	1.56	4.91	2.71
-15	593	191	1.68	6.06	3.1
-10	719	203	1.78	7.38	3.55
-5	858	212	1.88	8.86	4.06
0	1011	218	1.95	10.49	4.64

Test Condition: ASHRAELBP32, Fan/NotControled/115, 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	181	122	1.08	1.82	1.49
-35	220	140	1.23	2.22	1.58
-30	276	158	1.39	2.80	1.75
-25	349	176	1.54	3.54	1.98
-20	438	195	1.7	4.45	2.24
-15	541	213	1.85	5.53	2.54
-10	658	230	1.99	6.76	2.86
-5	789	246	2.13	8.14	3.21
0	931	259	2.25	9.67	3.6

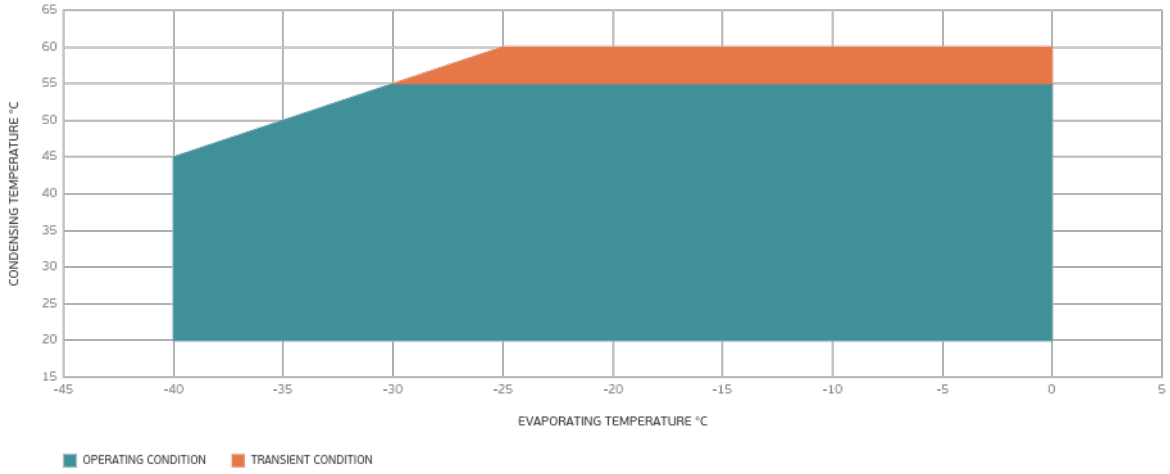
Test Condition: ASHRAELBP32, Fan/NotControled/115, Return Gas 32.2°C, Ambient 32.2°C , Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-40	156	121	1.07	1.57	1.29
-35	188	140	1.25	1.90	1.34
-30	237	162	1.44	2.40	1.47
-25	302	184	1.63	3.07	1.64
-20	382	207	1.82	3.89	1.85
-15	477	229	2.02	4.87	2.08
-10	585	252	2.21	6.00	2.32
-5	705	273	2.4	7.28	2.58
0	838	293	2.58	8.69	2.86

Test Condition: ASHRAELBP32, Fan/NotControled/115, 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