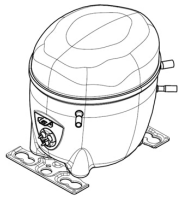
MODEL
FFU160UAX



APPROVALS

ENGINEERING CODE
513200863

APPROVED REFRIGERANT
R-290

POWER SUPPLY
115-127 V 60 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
L/MBP

COOLING CAPACITY
500 W (LBP)

EFFICIENCY
1.57 W/W (LBP)

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	7.95 cm³
Compressor Cooling	Fan/NotControled/115
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/2 hp
Power Supply	115-127 V 60 Hz
Evaporating Temperature Range	-35 °C to -5 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	3.75 Ω at 25° C
Run Winding Resistance	1.1 Ω at 25° C

Mechanical Data

Oil Charge	280 ml
Oil Type Configuration	ALQUILB
Oil Type Viscosity	ISO32
Weight	11.39 Kg

Electrical Components

	Description
Starting Device	Relay | 213516051*
Motor Protection	MST 26AFZ-5590 MST18AHZ-5590
Start Capacitor	378-454 Uf / 150 V

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	501 W	320 W	4.46 A	5.08 kg/h	1.57 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
-35	316	227	4.01	3.19	1.39
-30	396	251	4.09	4.01	1.58
-25	494	272	4.18	5.01	1.81
-20	611	292	4.29	6.22	2.09
-15	750	310	4.4	7.66	2.42
-10	912	325	4.51	9.36	2.8
-5	1099	338	4.6	11.34	3.25

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
-35	307	239	4.08	3.09	1.28
-30	386	267	4.18	3.91	1.45
-25	482	294	4.31	4.89	1.64
-20	597	320	4.46	6.07	1.86
-15	732	345	4.61	7.48	2.12
-10	889	369	4.76	9.13	2.41
-5	1072	391	4.9	11.06	2.74

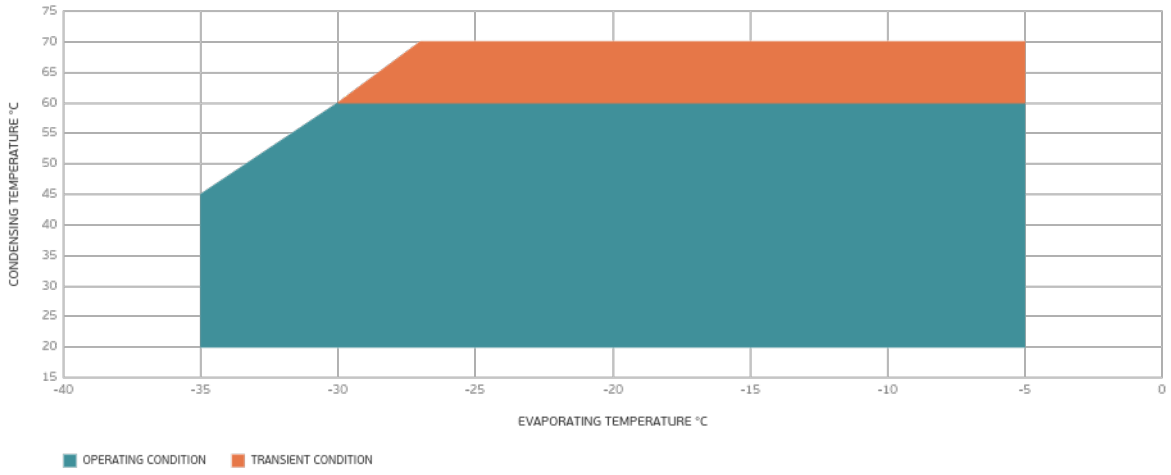
Test Condition: ASHRAELBP32, Fan/NotControled/115, Return Gas 32.2°C, Ambient 32.2°C , Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-35	289	247	4.1	2.92	1.17
-30	368	278	4.24	3.73	1.32
-25	463	310	4.41	4.70	1.49
-20	575	341	4.6	5.85	1.68
-15	707	373	4.8	7.23	1.9
-10	861	404	5	8.84	2.13
-5	1039	434	5.19	10.72	2.39

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