

FMXY9C



ENGINEERING CODE
513908063

REFRIGERANT
R-600a

POWER SUPPLY
220-240 V 50-60 Hz

APPLICATION
L/MBP

MOTOR TYPE
BPM

STANDARD
ASHRAE

COOLING CAPACITY (4000 RPM)
188 W

EFFICIENCY (4000 RPM)
1.74 W/W



DATA

GENERAL DATA

Model	FMXY9C
Type	Hermetic Reciprocating
Technology	VCC
Compressor Application	L/MBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
HP	1/7
Starting Torque	LST
Plant	CHINA

ELECTRICAL DATA

Start Winding Resistance	20.0 Ω at 25°C
Run Winding Resistance	20.0 Ω at 25°C

MECHANICAL DATA

Displacement	8.74 cm ³
Oil Charge	175 ml
Oil Type	ALQUILB
Oil Viscosity	ISO5
Weight	4.9 Kg

ELECTRICAL COMPONENTS

CSR CSIR BOX	No
Starting Device Type	INVERTER
Overload Protection	INVERTER CF02D01 M 0
Inverter	CF02D01 M 0.0 X
Inverter Description	CF02D01 M 0.0 X

EXTERNAL CHARACTERISTICS

Base Plate	SMALL FMX
Tray Holder	YES

Connector	Internal Diameter	Shape	Material
Suction	6.1 mm	SLANTED 45° UP + 45° TO BACK	COPPER
Discharge	4.94 mm	SLANTED 0° UP + 37° TO BACK	COPPER
Process	6 mm	SLANTED 45° UP + 57° TO BACK	COPPER(OD)

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-600a
Tested Application	LBP
Tested Standard	ASHRAE
Tested Cooling	Static
Tested Voltage	220 V
Refrigerant Temperature	Dew

Performance on Compressor Speed: 1300 RPM

RATED POINTS

Condensing Temperature °C	Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
54.4	-23.3	62	1.61	39	0.32	0.67

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-35	38	1.69	23	0.22	0.41
-30	51	1.86	28	0.25	0.55
-25	68	2.13	32	0.27	0.73
-20	88	2.49	35	0.31	0.95
-15	112	2.91	38	0.34	1.21
-10	140	3.41	41	0.36	1.51
-5	173	3.96	44	0.38	1.88

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-35	34	1.55	22	0.22	0.36
-30	47	1.66	28	0.25	0.50
-25	62	1.86	34	0.29	0.67
-20	82	2.10	39	0.33	0.88
-15	105	2.39	44	0.37	1.13
-10	133	2.70	49	0.40	1.44
-5	166	3.01	55	0.43	1.79

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	41	1.38	29	0.26	0.44
-25	56	1.53	36	0.31	0.60
-20	75	1.71	44	0.36	0.80
-15	97	1.91	51	0.41	1.05
-10	124	2.12	59	0.47	1.34
-5	156	2.32	67	0.51	1.69

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

Performance on Compressor Speed: 2000 RPM

RATED POINTS

Condensing Temperature °C	Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
54.4	-23.3	98	1.77	55	0.46	1.05

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-35	57	1.64	35	0.31	0.61
-30	77	1.89	41	0.36	0.83
-25	102	2.17	47	0.40	1.10
-20	133	2.50	53	0.44	1.43
-15	171	2.88	59	0.48	1.84
-10	215	3.31	65	0.53	2.32
-5	266	3.80	70	0.59	2.88

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-35	53	1.46	36	0.31	0.57
-30	72	1.67	43	0.37	0.77
-25	96	1.90	51	0.42	1.03
-20	126	2.16	58	0.47	1.36
-15	162	2.44	67	0.52	1.75
-10	206	2.75	75	0.58	2.22
-5	256	3.10	83	0.66	2.77

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	65	1.49	44	0.38	0.70
-25	88	1.69	52	0.44	0.95
-20	117	1.90	62	0.50	1.26
-15	153	2.12	72	0.57	1.64
-10	194	2.37	82	0.64	2.10
-5	244	2.63	93	0.73	2.64

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

Performance on Compressor Speed: 3000 RPM

RATED POINTS

Condensing Temperature °C	Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
54.4	-23.3	145	1.79	81	0.64	1.56

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-35	82	1.56	52	0.43	0.88
-30	114	1.84	62	0.49	1.23
-25	155	2.12	73	0.56	1.66
-20	203	2.41	84	0.65	2.19
-15	260	2.73	95	0.74	2.80
-10	325	3.10	105	0.82	3.51
-5	398	3.53	113	0.88	4.30

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-35	74	1.36	54	0.42	0.79
-30	104	1.62	64	0.49	1.12
-25	143	1.87	76	0.58	1.53
-20	190	2.12	89	0.68	2.04
-15	245	2.38	103	0.79	2.64
-10	309	2.67	116	0.88	3.34
-5	381	2.99	128	0.96	4.13

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	94	1.47	64	0.50	1.01
-25	130	1.71	76	0.61	1.40
-20	175	1.93	91	0.72	1.89
-15	229	2.16	106	0.84	2.47
-10	291	2.39	122	0.96	3.15
-5	362	2.65	137	1.06	3.92

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

Performance on Compressor Speed: 4000 RPM

RATED POINTS

Condensing Temperature °C	Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
54.4	-23.3	188	1.74	108	0.85	2.02

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-35	96	1.50	64	0.50	1.03
-30	142	1.76	80	0.64	1.52
-25	199	2.00	99	0.78	2.13
-20	264	2.23	119	0.93	2.84
-15	337	2.48	136	1.05	3.63
-10	414	2.79	149	1.14	4.47
-5	494	3.20	154	1.18	5.34

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-35	86	1.28	67	0.51	0.92
-30	128	1.55	83	0.64	1.38
-25	182	1.78	102	0.79	1.96
-20	246	2.00	123	0.94	2.64
-15	317	2.22	143	1.08	3.42
-10	394	2.48	159	1.20	4.25
-5	473	2.80	169	1.28	5.13

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

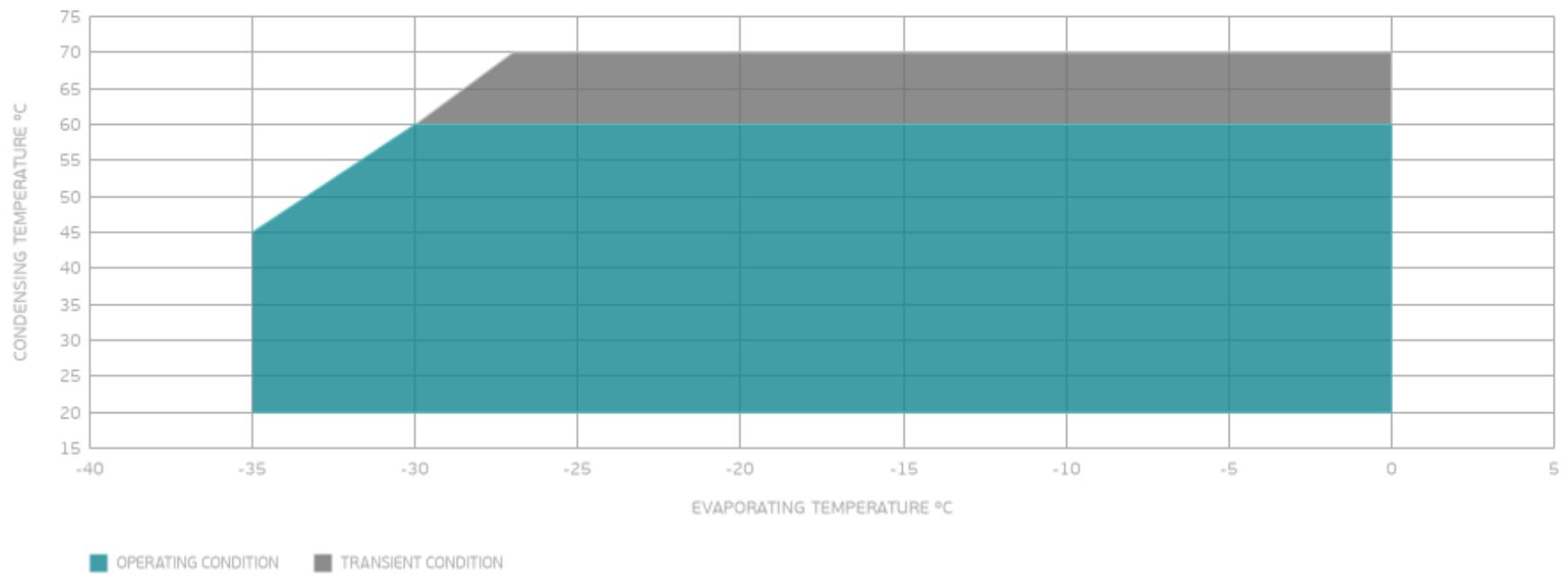
PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	118	1.43	82	0.66	1.27
-25	168	1.66	101	0.80	1.80
-20	228	1.87	122	0.96	2.45
-15	297	2.08	142	1.12	3.20
-10	372	2.31	161	1.26	4.01
-5	451	2.59	174	1.37	4.88

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

ENVELOPE



EXTERNAL DIMENSIONS

