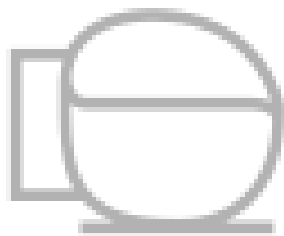


FMXY6C



ENGINEERING CODE
513908223



REFRIGERANT
R-600a



POWER SUPPLY
220-240 V 50-60
Hz



APPLICATION
L/MBP



MOTOR TYPE
BPM



STANDARD
CECOMAF



COOLING CAPACITY
(4000 RPM)
86 W



EFFICIENCY
(4000 RPM)
1.3 W/W

DATA

GENERAL DATA

Model	FMXY6C
Type	Hermetic Reciprocating
Technology	VCC
Compressor Application	L/MBP
Expansion Device	Capillary Tube
Compressor Cooling	Static/220
HP	1/10
Starting Torque	LST
Plant	CHINA

ELECTRICAL DATA

Start Winding Resistance	18.5 Ω at 25°C
Run Winding Resistance	18.5 Ω at 25°C
Locked Rotor Amperage (LRA) 60Hz	1.7 A
Rated Load Amperage (LMBP) at 60 Hz	1.7 A
Rated Load Amperage (HBP) at 60 Hz	1.7 A

MECHANICAL DATA

Displacement	6.23 cm³
Oil Charge	175 ml
Oil Type	ALQUILB
Oil Viscosity	ISO5
Weight	4.8 Kg

ELECTRICAL COMPONENTS

CSR CSIR BOX	No
Starting Device Type	INVERTER
Starting Device Description	CF02D01 M 0.0 X
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 + 11° TO BACK	COPPER
Discharge	5.1 mm	SLANTED 45° 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	CECOMAF
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
55	-25	28	1.21	23	0.21	0.36
Test Condition: Subcooling 0 K, Return Gas 32 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.						

Test Condition: Subcooling 0 K, Return Gas 32 °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	23	1.52	15	0.16	0.25
-30	32	1.77	18	0.17	0.35
-25	44	2.06	21	0.19	0.48
-20	59	2.40	24	0.21	0.64
-15	76	2.77	27	0.24	0.83
-10	95	3.21	30	0.26	1.05
-5	117	3.73	31	0.28	1.29

Test Condition: Subcooling 0 K, Return Gas 32 °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	18	1.19	15	0.17	0.21
-30	25	1.37	18	0.18	0.30
-25	35	1.59	22	0.20	0.42
-20	48	1.84	26	0.23	0.57
-15	63	2.10	30	0.26	0.75
-10	80	2.38	34	0.29	0.96
-5	100	2.69	37	0.32	1.21

Test Condition: Subcooling 0 K, Return Gas 32 °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	20	1.05	19	0.19	0.26
-25	28	1.21	23	0.21	0.36
-20	38	1.39	28	0.24	0.50
-15	51	1.58	32	0.28	0.67
-10	66	1.78	37	0.32	0.87
-5	84	1.99	42	0.36	1.11

Test Condition: Subcooling 0 K, Return Gas 32 °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
55	-25	45	1.31	35	0.29	0.59
Test Condition: Subcooling 0 K, Return Gas 32 °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	37	1.60	23	0.20	0.41
-30	52	1.84	28	0.22	0.57
-25	69	2.11	33	0.26	0.76
-20	90	2.42	37	0.30	0.99
-15	116	2.79	41	0.34	1.27
-10	145	3.23	45	0.38	1.60
-5	180	3.78	48	0.40	1.99
Test Condition: Subcooling 0 K, Return Gas 32 °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	29	1.25	23	0.22	0.34
-30	41	1.46	28	0.24	0.49
-25	57	1.68	34	0.28	0.68
-20	76	1.91	40	0.33	0.91
-15	99	2.18	46	0.38	1.18
-10	126	2.48	51	0.43	1.51
-5	158	2.83	56	0.47	1.90
Test Condition: Subcooling 0 K, Return Gas 32 °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	32	1.12	28	0.25	0.41
-25	45	1.31	35	0.29	0.59
-20	62	1.50	41	0.34	0.81
-15	83	1.71	48	0.40	1.08
-10	107	1.93	56	0.46	1.41
-5	136	2.17	63	0.51	1.79
Test Condition: Subcooling 0 K, Return Gas 32 °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
55	-25	71	1.35	52	0.4	0.92
Test Condition: Subcooling 0 K, Return Gas 32 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.						

Test Condition: Subcooling 0 K, Return Gas 32 °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	55	1.54	35	0.29	0.60
-30	75	1.78	42	0.32	0.83
-25	102	2.05	50	0.37	1.12
-20	134	2.35	57	0.44	1.48
-15	174	2.70	64	0.50	1.91
-10	220	3.13	70	0.55	2.43
-5	274	3.65	75	0.58	3.03

Test Condition: Subcooling 0 K, Return Gas 32 °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	45	1.22	37	0.31	0.53
-30	64	1.46	44	0.33	0.76
-25	88	1.69	52	0.39	1.04
-20	117	1.92	61	0.47	1.39
-15	152	2.18	70	0.55	1.81
-10	193	2.46	78	0.62	2.31
-5	240	2.80	86	0.67	2.89

Test Condition: Subcooling 0 K, Return Gas 32 °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	49	1.13	44	0.35	0.64
-25	71	1.35	52	0.40	0.92
-20	97	1.56	62	0.48	1.26
-15	128	1.76	72	0.57	1.67
-10	164	1.97	83	0.65	2.15
-5	205	2.21	93	0.72	2.70

Test Condition: Subcooling 0 K, Return Gas 32 °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
55	-25	86	1.3	67	0.57	1.12
Test Condition: Subcooling 0 K, Return Gas 32 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.						

Test Condition: Subcooling 0 K, Return Gas 32 °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	64	1.37	47	0.35	0.70
-30	89	1.59	56	0.44	0.97
-25	122	1.83	66	0.53	1.33
-20	163	2.09	78	0.62	1.79
-15	213	2.38	90	0.70	2.35
-10	272	2.71	100	0.78	3.00
-5	340	3.11	109	0.85	3.76

Test Condition: Subcooling 0 K, Return Gas 32 °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	55	1.14	48	0.37	0.65
-30	76	1.35	57	0.46	0.91
-25	105	1.55	68	0.55	1.25
-20	142	1.74	81	0.64	1.69
-15	186	1.95	95	0.73	2.22
-10	237	2.18	109	0.83	2.84
-5	297	2.43	122	0.92	3.57

Test Condition: Subcooling 0 K, Return Gas 32 °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	61	1.11	55	0.48	0.80
-25	86	1.30	67	0.57	1.12
-20	118	1.46	80	0.67	1.54
-15	156	1.63	96	0.77	2.04
-10	201	1.79	112	0.87	2.63
-5	253	1.97	129	0.98	3.32

Test Condition: Subcooling 0 K, Return Gas 32 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

