



Model: EMT2121GK
Code: 912CA67

embraco POWER IN.
CHANGE ON

Type:	On-off
Voltage [V] / Frequency [Hz] / Phases	220-240 V 50 Hz 1 ~
Refrigerant:	R-404A
Application:	LBP

Motor type:	CSIR
Starting torque:	HST
HP:	1/3
Displacement:	5.19 cm ³

OPERATING CONDITION : ASHRAE LBP 32

Evaporation Temp.	-23.3 °C	Return Temp.	32.2 °C	Superheating	55.5 K
Condensing Temp.	54.4 °C	Liquid Temp.	32.2 °C	Subcooling	22.2 K

Cooling capacity	Power consumption	Mass flow rate	Efficiency
307.07 W	218.11 W	7.13 kg/h	1.41 W/W

APPLICATION

Evaporating temperature range:	-40 to -10 °C	Cooling type:	Fan Cooling
Permanent operating temperature (peak) :	55 (60) °C	Air Flow	--
Expansion device:	Capillary tube or Expansion valve	Maximum motor temperature:	130 °C

SEE OUR CAPILLARY TUBE SIZING SUGGESTION FOR PRELIMINARY TESTS

Number of capillaries	Length [m]	Internal diameter [mm]	Application
1.00	4.00	0.91	LBP

ELECTRICAL DATA

Start winding resistance at 25°C (77°F):	0 Ω +/- 8%	Run winding resistance at 25°C (77°F):	0 Ω +/- 8%
FLA - full load amperage L/MBP [A] 50 Hz / 60 Hz:	- / -	LRA (A) 50 Hz / 60 Hz:	8.5 / -
		FLA - full load amperage HBP [A] 50 Hz / 60 Hz:	- / -

MECHANICAL DATA

Bore:	21 mm	Stroke:	7.5 mm
		Displacement:	5.19 cm ³

OTHER INFORMATION

Weight:	7.8 kg	Oil charge:	180 ml
Lubricant type:	Polyolester ISO22	Nitrogen charge:	No

EXTERNAL SETTINGS

-	Shape	Material	Diameter [mm]
Suction connector	Slanted 42°	Copper	6.10
Discharge connector	Straight	Copper	4.94
Process connector	Slanted 42°	Copper	6.10

Base plate:	European Standard	Tray holder:	Yes
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PERFORMANCES AT STANDARD CHECK-POINTS

Checkpoint	Cooling capacity	Power consumption	Gas flow rate	Cooling Efficiency	Heating capacity +/-	Heating Efficiency
	+/-5%	+/-5%	+/-5%	+/- 7%	5% *	+/- 7%
	W	W	kg/h	W/W	W	W/W
ARI LBP	229.07	230.37	8.09	0.99	341.13	1.48
ASHRAE LBP 32	307.07	218.11	7.13	1.41	425.79	1.95
CECOMAF LBP	210.66	209.54	6.56	1.01	324.45	1.55
EN12900 LBP**	172.97	155.53	4.34	1.11	252.72	1.62
EN12900 MBP**	493.88	273.81	13.56	1.80	640.41	2.34

* Calculations performed considering isentropic compression and a housing loss of 10%. This is an estimated heat amount discarded in the discharge pipe and the condenser combined.

CONDENSING TEMP. 35 °C

(SUBCOOLING : 22.2 K, RETURN TEMP.: 32 °C)

Evaporating temperature °C	Cooling capacity	Power consumption	Gas flow rate	Cooling Efficiency	Heating capacity +/-	Heating Efficiency
	+/-5%	+/-5%	+/-5%	+/- 7%	5% *	+/- 7%
	W	W	kg/h	W/W	W	W/W
-40.00	177.13	136.23	3.43	1.30	243.72	1.79
-35.00	229.04	152.44	4.44	1.50	306.37	2.01
-30.00	293.28	170.32	5.71	1.72	381.80	2.24
-25.00	371.77	189.32	7.26	1.96	471.56	2.49
-20.00	466.31	208.60	9.15	2.24	576.91	2.77
-15.00	578.79	227.05	11.41	2.55	699.16	3.08
-10.00	711.32	243.39	14.10	2.92	839.76	3.45

CONDENSING TEMP. 45 °C

(SUBCOOLING : 22.2 K, RETURN TEMP.: 32 °C)

Evaporating temperature °C	Cooling capacity	Power consumption	Gas flow rate	Cooling Efficiency	Heating capacity +/-	Heating Efficiency
	+/-5%	+/-5%	+/-5%	+/- 7%	5% *	+/- 7%
	W	W	kg/h	W/W	W	W/W
-40.00	154.58	139.84	3.25	1.11	224.23	1.60
-35.00	200.61	158.15	4.23	1.27	282.44	1.79
-30.00	256.88	178.54	5.43	1.44	351.46	1.97
-25.00	325.88	201.01	6.92	1.62	433.75	2.16
-20.00	409.56	225.02	8.74	1.82	530.89	2.36
-15.00	509.77	249.67	10.93	2.04	644.20	2.58
-10.00	628.44	273.81	13.56	2.30	774.97	2.83

CONDENSING TEMP. 55 °C

(SUBCOOLING : 22.2 K, RETURN TEMP.: 32 °C)

Evaporating temperature °C	Cooling capacity	Power consumption	Gas flow rate	Cooling Efficiency	Heating capacity +/-	Heating Efficiency
	+/-5%	+/-5%	+/-5%	+/- 7%	5% *	+/- 7%
	W	W	kg/h	W/W	W	W/W
-40.00	129.33	140.08	2.99	0.92	199.08	1.42
-35.00	171.94	161.53	3.99	1.06	256.45	1.59
-30.00	221.25	184.31	5.15	1.20	320.10	1.74
-25.00	280.91	209.54	6.56	1.34	394.69	1.88
-20.00	353.41	237.30	8.30	1.49	482.76	2.03
-15.00	440.74	267.08	10.41	1.65	585.92	2.19
-10.00	544.75	297.96	12.96	1.83	705.46	2.37

ELECTRICAL ACCESSORIES

Kit:	1
Starter device:	CURRENT RELAY
Engineering code:	MTRP-34
Run capacitor:	--
Starting capacitor:	43-53

Thermal protector: T0827/G6

Institutes approved for this electric kit:



If purchased without electricals consult Embraco to verify the supplier of electricals approved for this compressor

MECHANICAL ACCESSORIES

Rubber damper: Yes

Metal bushing: Optional

