



Model: EMT2125GK  
Code: 912DA67

**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:	5.96 cm <sup>3</sup>

### 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

<b>Cooling capacity</b>	<b>Power consumption</b>	<b>Mass flow rate</b>	<b>Efficiency</b>
354.45 W	248.64 W	8.24 kg/h	1.43 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:	9.8 / -
		FLA - full load amperage HBP [A] 50 Hz / 60 Hz:	- / -

### MECHANICAL DATA

Bore:	22.5 mm	Stroke:	7.5 mm
		Displacement:	5.96 cm <sup>3</sup>

### 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	4.86
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	263.51	262.84	9.30	1.00	392.42	1.49
ASHRAE LBP 32	354.45	248.64	8.24	1.43	491.48	1.98
CECOMAF LBP	243.29	238.71	7.58	1.02	374.70	1.57
EN12900 LBP**	200.92	177.77	5.04	1.13	293.57	1.65
EN12900 MBP**	571.52	316.31	15.70	1.81	741.10	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	206.16	156.07	3.99	1.32	283.66	1.82
-35.00	266.02	174.43	5.16	1.53	355.82	2.04
-30.00	339.74	194.84	6.61	1.74	442.28	2.27
-25.00	430.23	216.97	8.40	1.98	545.71	2.52
-20.00	539.93	239.93	10.59	2.25	668.00	2.78
-15.00	671.21	262.47	13.23	2.56	810.80	3.09
-10.00	826.61	282.99	16.39	2.92	975.87	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	177.56	158.84	3.73	1.12	257.56	1.62
-35.00	232.70	180.43	4.91	1.29	327.63	1.82
-30.00	297.65	203.77	6.30	1.46	407.23	2.00
-25.00	376.74	229.59	8.00	1.64	501.45	2.18
-20.00	473.03	257.62	10.09	1.84	613.17	2.38
-15.00	589.05	286.97	12.63	2.05	744.39	2.59
-10.00	727.24	316.31	15.70	2.30	896.81	2.84

## 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	139.59	154.24	3.23	0.91	214.88	1.39
-35.00	196.33	182.39	4.55	1.08	292.82	1.61
-30.00	255.52	209.58	5.95	1.22	369.70	1.76
-25.00	324.41	238.71	7.58	1.36	455.82	1.91
-20.00	407.43	270.78	9.57	1.50	556.55	2.06
-15.00	507.70	305.61	12.00	1.66	674.94	2.21
-10.00	627.82	342.32	14.94	1.83	813.05	2.38

## ELECTRICAL ACCESSORIES

Kit:	1
Starter device:	CURRENT RELAY
Engineering code:	MTRP-36
Run capacitor:	--
Starting capacitor:	64-77

Thermal protector: T0571/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

