

Mbsm.pro, Compressor, EMBRACO,
EMT6170Z, HBP, R134a, 350 G,
220-240V/1F/50Hz, 1/4 hp++, 1/3
HP—, 7.69 cm³

Category: compressor

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Compressor EMBRACO EMT6170Z, HBP – R134a, 220-240V/1F/50Hz. Power: 1/4

HP. Stroke volume: 7.69 cm³. Motor type: CSIR. Oil filling: POE 22 180 ml. Starting current (LRA): 10.4 A. Power at +7.2 / +54.4 °C: 806 W. Cooling with fan. Air flow: 520 m³/h. Capillary tube/expansion valve operation. Weight: 7.8 kg Cooling capacity measured for condensation temperature 45°C, suction gas temperature 20°C, frequency 50 Hz, measurement conditions: EN12900

Compresseur Aspera – Embraco

50Hz 50-60Hz	LBP	VOLT. FREQ.	COOL. CAP. [W]	DISPL. [cc]	HBP	VOLT. FREQ.	COOL. CAP. [W]	DISPL. [cc]
EM	EMT22HLP	A	39	3,00	EMT37HDP	A / B	324	3,40
	EMT36HLP	A	58	3,97	EMT45HDR	A	375	3,97
	EMT43HLP	A	71	4,85	EMT50HDP	A / B	430	4,50
	EMT49HLP	A	83	5,19	EMT6144Z	A	520	5,19
	EMT60HLP	A	98	6,76	EMT6160Z	A	662	6,76
					EMT6170Z	A	730	7,69
					EMTE6187Z	A	786	2,31

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MODEL	DISPLACEMENT cm ³	HP	VOLTAGE FREQUENCY	MOTOR TYPE	RATED POINT - ASHRAE		RATED POINT - EN12900		CONDENSING TEMPERATURE °C	EVAPORATING TEMPERATURE °C	
					7.2 °C / 54.4 °C COOLING W	EFFICIENCY W/W	5 °C / 50 °C COOLING W	EFFICIENCY W/W		-15	-10
EMT37HDP	3,4	1/8	220-240V / 50Hz 1~	RSIR	351	2,55	323	2,50	55	119	11
EMT37HDP	3,4	1/8	200-230V 50Hz / 208-230V 60Hz 1~	RSIR	356	2,56	323	2,50	45	143	11
EMT45HDR	3,97	1/8+	220-240V 50Hz 1~	CSIR	421	2,66	375	2,56	55	148	11
EMT45HDR	3,97	1/8+	200-230V 50Hz / 208-230V 60Hz 1~	CSIR	421	2,66	375	2,56	45	172	21
EMT50HDP	4,5	1/6	220-240V 50Hz 1~	RSIR	474	2,57	430	2,58	55	161	20
EMT50HDP	4,5	1/6	200-230V 50Hz / 208-230V 60Hz 1~	RSIR	474	2,58	430	2,58	45	188	24
EMT50HDP	4,5	1/6	200-230V 50Hz / 208-230V 60Hz 1~	RSIR	474	2,58	430	2,58	55	161	20
EMT50HDP	4,5	1/6	200-230V 50Hz / 208-230V 60Hz 1~	RSIR	474	2,58	430	2,58	45	188	24
EMT6144Z	5,2	1/5	220-240V 50Hz 1~	CSIR	577	2,6	520	2,53	55	200	25
EMT6144Z	5,2	1/5	200-230V 50Hz / 208-230V 60Hz 1~	CSIR	577	2,6	520	2,53	45	234	25
EMT6160Z	6,76	1/4	220-240V 50Hz 1~	CSIR	720	2,39	662	2,39	55	262	31
EMT6160Z	6,76	1/4	200-230V 50Hz / 208-230V 60Hz 1~	CSIR	720	2,39	662	2,39	45	303	31
EMT6170Z	7,69	1/4+	220-240V 50Hz 1~	CSIR	806	2,27	730	2,19	55	285	31
EMT6170Z	7,69	1/4+	200-230V 50Hz / 208-230V 60Hz 1~	CSIR	806	2,27	730	2,19	45	333	41
EMTE6187Z	9,5	1/4	220-240 / 50 Hz 1~	CSIR	924	2,5	786	2,31	55	377	41
EMTE6187Z	9,5	1/4	200-230V 50Hz / 208-230V 60Hz 1~	CSIR	924	2,5	786	2,31	45	356	41
NEK6160Z	7,28	1/4	220-240V 50Hz 1~	CSIR	716	2,41	663	2,41	55	232	25
NEK6160Z	7,28	1/4	200-230V 50Hz / 208-230V 60Hz 1~	CSIR	716	2,41	663	2,41	45	281	31
NEK6160Z	7,28	1/4	220-240V 50Hz 1~	CSIR	716	2,41	663	2,41	55	226	25
NEK6160Z	7,28	1/4	200-230V 50Hz / 208-230V 60Hz 1~	CSIR	716	2,41	663	2,41	45	277	31
NEK6160Z	7,28	1/4	220-240V 50Hz 1~	CSIR	716	2,41	663	2,41	55	284	31

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R134a - HBP Applications			
COMPRESSOR	FREQUENCY	DIMENSION	
		(from -15°C to -5°C evap. temp.)	(from -5°C to +10°C evap. temp.)
NB5125Z	50 Hz	0.78 mm I.D. × 2.5 m	0.91 mm I.D. × 2.4 m
	60 Hz	0.78 mm I.D. × 2.1 m	0.91 mm I.D. × 2.0 m
NB5128Z	50 Hz	0.78 mm I.D. × 2.4 m	0.91 mm I.D. × 2.3 m
	60 Hz	0.78 mm I.D. × 2.0 m	0.91 mm I.D. × 1.9 m
NB5132Z - NB6132Z	50 Hz	0.78 mm I.D. × 2.3 m	0.91 mm I.D. × 2.2 m
	60 Hz	0.78 mm I.D. × 1.9 m	0.91 mm I.D. × 1.8 m
NB5144Z - NB6144Z NEK5144Z - EMT6144Z	50 Hz	0.91 mm I.D. × 2.9 m	1.06 mm I.D. × 2.7 m
	60 Hz	0.91 mm I.D. × 2.4 m	1.06 mm I.D. × 2.3 m
NE5160Z - NE6160Z NEK6160Z - EMT6160Z	50 Hz	0.91 mm I.D. × 2.4 m	1.06 mm I.D. × 2.5 m
	60 Hz	0.91 mm I.D. × 2.1 m	1.06 mm I.D. × 2.2 m
NE5170Z - NE6170Z NEK5170Z - NEK6170Z EMT6170Z	50 Hz	1.06 mm I.D. × 3.2 m	1.27 mm I.D. × 3.3 m
	60 Hz	1.06 mm I.D. × 2.65 m	1.27 mm I.D. × 2.75 m
NE5187Z - NE6187Z NEK6187Z	50 Hz	1.24 mm I.D. × 4.0 m	1.37 mm I.D. × 3.3 m
	60 Hz	1.24 mm I.D. × 3.4 m	1.37 mm I.D. × 2.9 m
NE6210Z - NEK6210Z	60 Hz	1.37 mm I.D. × 3.5 m	1.50 mm I.D. × 3.3 m
NEK6212Z	60 Hz	1.37 mm I.D. × 3.3 m	1.50 mm I.D. × 3.1 m
T6213Z	50 Hz	1.37 mm I.D. × 3.5 m	1.50 mm I.D. × 3.3 m
	60 Hz	1.37 mm I.D. × 3.1 m	1.50 mm I.D. × 2.9 m





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1 Commercial designation	1/3 -	[hp]
2 Displacement	7.69	[cm ³] (0.469 cu.in)
2.1 Bore [mm]	24.000	
2.2 Stroke [mm]	17.000	
3 Lubricant charge	180	[ml] (6.09 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight (with oil charge)	7.8	[kg] (17.20 lb.)
5 Nitrogen charge	-	[kgf/cm ²]
C - ELECTRICAL DATA		
1 Nominal Voltage/Frequency/Number of Phases	220-240 V 50 Hz 1 ~ (Single phase)	
2 Starting device type	Current Relay	
2.1 Starting device	MTRP-38	
3 Start capacitor	43-53(330)	[µf(VAC minimum)]
4 Run capacitor	-	[µf(VAC minimum)]
5 Motor protection	T0971/G6	
6 Start winding resistance	20.66	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	10.77	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (50 Hz)	-	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (50 Hz)	-	[A]
10 FLA - Full Load Amperage HBP (50 Hz)	-	[A]
11 Approval boards certification	VDE	

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Capacitor : Starting capacitor: 53-64 UF

Refrigerant: R134a

Dimensions (length × width × height): 22,80 × 15,50 × 16,60 cm

Scope of application: HBP

Power (W): 806

Cooling capacity (W): 411

Cooling capacity (W) at To -15°C: 330

Cooling capacity (W) at To -10°C: 418

Cooling capacity (W) at To -5°C: 771

Cooling capacity (W) at To 0°C: 559

Cooling capacity (W) at To 5°C: 522

Cooling capacity (W) at To 10°C: 915

starting torque: HST

Connection: solder terminals

Connection size:	4,94 mm
Design type:	Hermetic , reciprocating
Manufacturer:	Aspera , Embraco Aspera
Hubvolumen (cm3):	7.69
Info:	Oil pre-filled
Contents:	1.00 pcs.
Condensation temperature:	45°C
Performance condition:	+7.2°C to +54.4°C
Power range (C):	-15 C to +10 C
Power range (hp):	0-2
Power range (W):	401 – 500 W 701 – 1000 W
Max. starting current (A):	10.4
Measurement conditions:	EN12900
Engine type:	CSIR
Rated power (hp):	0.3
suction side:	6,1 mm
Series:	EMT
Tension:	220-240V
Power supply:	230 V
Compressor type:	reciprocating
Condensing Units Compressors:	compressor
To be used with:	Capillary/expansion
Olmenge (l):	0.18
Oil type:	IS022, POE22 IS022