Compresseurs Embraco, ,EMU70HLC , R134a, 220 V, 50Hz, 1/5 HP, 149 watts , 180 mL

Category: Technologie,Tester ok
written by www.mbsm.pro | 26 April 2020



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Embraco / Embraco piston compression EMU70HLC detailed parameters:

Refrigerant:	R-134a	Exhaust volume (cm³):	5.96
Voltage:	220 V 50Hz 1 ~	Lubricating oil category:	ISO10
Frequency (Hz):	50	Lubricating oil amount (ml):	180
application:	LBP	motor model:	RSCR
horsepower:	1/5	Starting torque:	LST
efficiency:	1.40	Test type:	ASHRAE32
Cooling capacity:	165		

ID: 513306157

Appearance

	shape	Material	Dimensions (mm)
Inhalation interface	Slanted 42? Up + 45 ° to Back	Copper	6.50
Exhaust interface	Slanted parallet BP + 24 ° to Back	Copper	4.94
Process interface	Slanted 45 ° up + 45 ° to Back	Copper	6.50

Oil cooler:	
Anchor plate:	European Standard EUEM
bracket:	No
Weight (kg):	8.11

application

Maximum ambient temperature (° C):	43
Expansion device:	Capillary
cool down:	Direct cooling

Air flow rate:	

Mechanical data

Bill of materials:	513306157
Starting torque:	Low starting torque
Bore (mm):	22.50
Stroke (mm):	7.50
Weight (kg):	8.11

digital data

motor model:	RSCR
Wire group resistance (25 ° C)-start (25 ° C)-start:	14.95
Wire group resistance (26 ° C)-operation (25 ° C)-operation:	17.98

Checkpoint-Condensation temperature 54.4 ° C

Evaporation temperature	Cooling capacity +/- 5%			Energy consumption +/- 5%	Now energy efficiency +/- 5%	Energy efficiency +/- 7%		
° C	(kcal / h)	(W)	(Btu / h)	(W)	(A)	(kcal / Wh)	(W / W)	(Btu / Wh)
-23.3	142	165	563	118	0.69	1.21	1.40	4.79

Condensation temperature 35 ° C

Evaporation temperature	Cooling capacity +/- 5%			Energy consumption +/- 5%	Now energy efficiency +/- 5%	Gas flow rate +/- 5%	Energy efficiency +/- 7%		
° C	(kcal / h)	(W)	(Btu / h)	(W)	(A)	(kg / h)	(kcal / Wh)	(W / W)	(Btu / Wh)
-35	77	89	304	83	0.57	1.72	0.93	1.08	3.68
-30	115	133	455	97	0.62	2.58	1.18	1.37	4.67
-25	157	182	622	111	0.67	3.53	1.42	1.65	5.62
-20	203	236	804	123	0.70	4.57	1.65	1.92	6.56
-15	252	293	1.000	133	0.73	5.71	1.89	2.20	7.52
-10	305	354	1.210	142	0.75	6.93	2.14	2.49	8.50

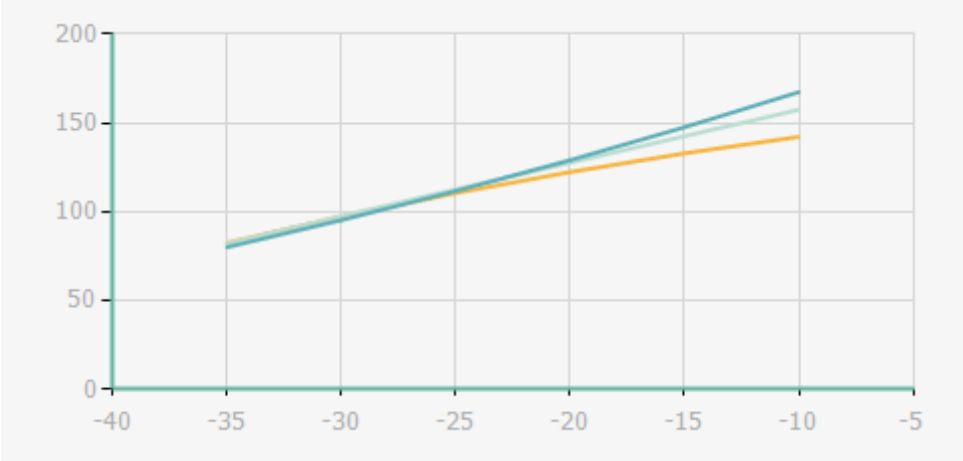
Condensation temperature 45 ° C

Evaporation temperature	Cooling capacity +/- 5%			Energy consumption +/- 5%	Now energy efficiency +/- 5%	Gas flow rate +/- 5%	Energy efficiency +/- 7%		
° C	(kcal / h)	(W)	(Btu / h)	(W)	(A)	(kg / h)	(kcal / Wh)	(W / W)	(Btu / Wh)
-35	63	74	252	82	0.57	1.42	0.77	0.90	3.06
-30	101	117	399	98	0.62	2.26	1.03	1.20	4.08
-25	144	168	573	113	0.67	3.26	1.28	1.49	5.08
-20	195	227	773	128	0.72	4.40	1.52	1.77	6.05
-15	251	292	998	143	0.77	5.70	1.76	2.05	7.00
-10	314	365	1.247	158	0.82	7.14	1.99	2.32	7.91

Condensation temperature 55 ° C

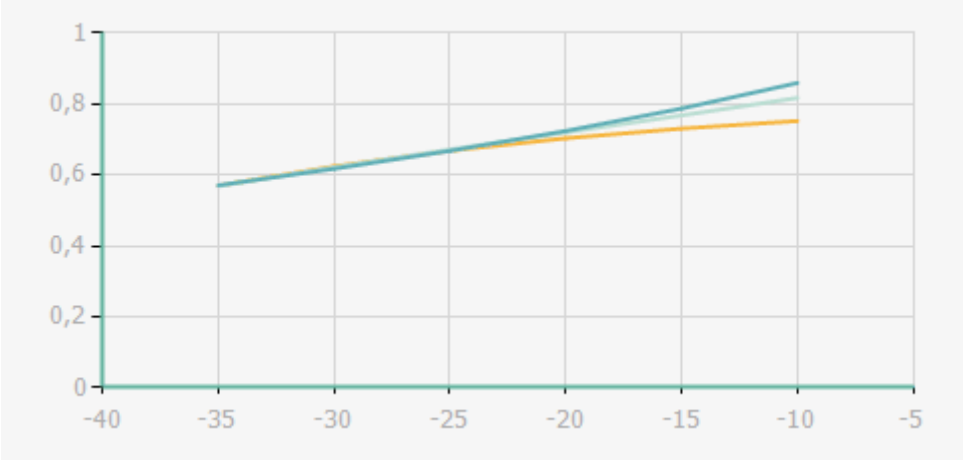
Evaporation temperature	Cooling capacity +/- 5%			Energy consumption +/- 5%	Now energy efficiency +/- 5%	Gas flow rate +/- 5%	Energy efficiency +/- 7%		
° C	(kcal / h)	(W)	(Btu / h)	(W)	(A)	(kg / h)	(kcal / Wh)	(W / W)	(Btu / Wh)
-35	55	64	217	80	0.57	1.23	0.68	0.79	2.71
-30	85	99	337	96	0.62	1.91	0.89	1.03	3.53
-25	125	145	495	112	0.67	2.81	1.12	1.30	4.43
-20	174	202	690	129	0.72	3.93	1.35	1.56	5.34
-15	232	270	920	148	0.79	5.25	1.57	1.83	6.23
-10	299	347	1.185	168	0.86	6.79	1.78	2.07	7.07

Cooling capacity (W)



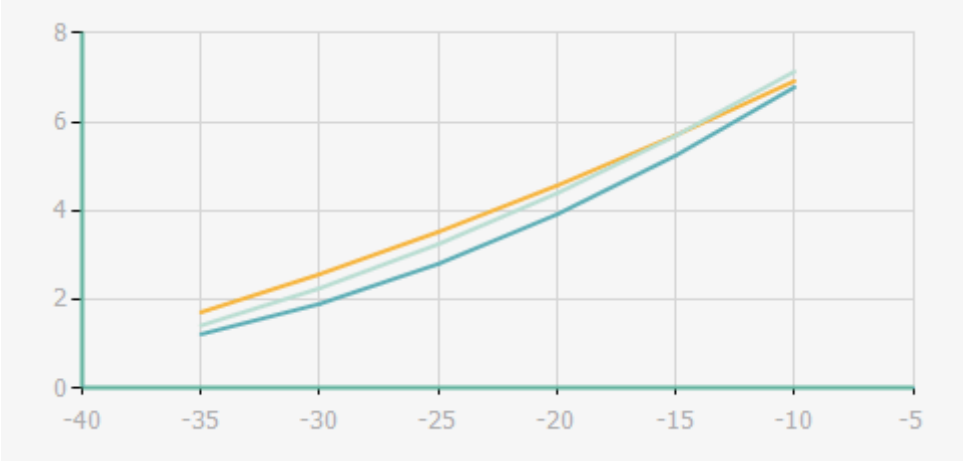
Condensing temperature 45 ° C □□Condensing temperature 55 ° C □□Condensing temperature 65 ° C

Energy consumption (W)



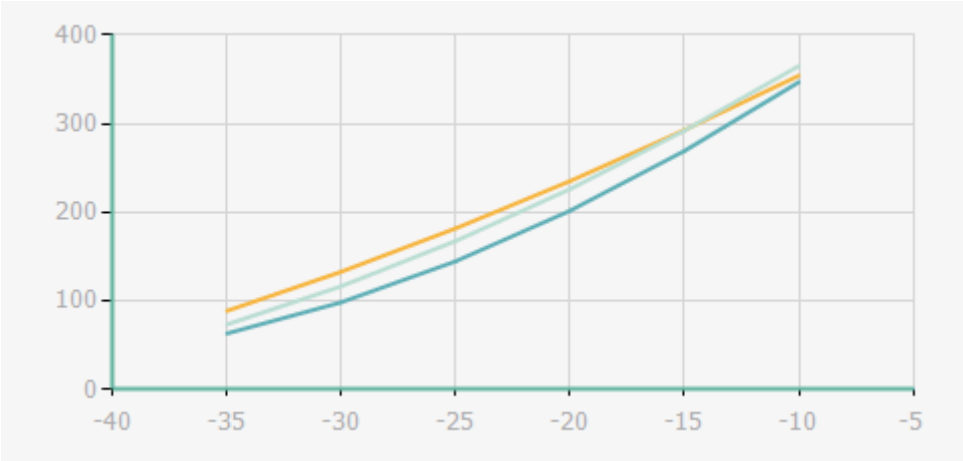
Condensing temperature 45 ° C □□Condensing temperature 55 ° C □□Condensing temperature 65 ° C

Energy efficiency now (A)



Condensing temperature 45 ° C □□Condensing temperature 55 ° C □□Condensing temperature 65 ° C

Gas flow rate (kg / h)



Condensing temperature 45 ° C □□Condensing temperature 55 ° C □□Condensing temperature 65 ° C

Rubber pad

Engineering code:	13146411
Dimensions:	mm (Inch)

The grommets are made of special rubber and used in the nut and bolt type or in the snap on type assembly. The rummer grommet. The dimensions of which are shown in the figure below. Was developed for installation in compressors with 16 and 19 mm diameters holes in the base plate.

Embraco / Embraco piston compression product list:

model	Refrigerant	Voltage	frequency	application	horsepower	Frequency / Revolution	Cooling capacity	Displacement (cm³)	Lubricating oil category	motor model	Starting torque	Test type
EM2U80HLP	R-134a	115-127V 60Hz 1 ~	60 Hz	LBP	1/4	1.70	232	6.76	ISO10	RSCR-12µF	LST	ASHRAE 32
EM2U80HLP	R-134a	115-127V 60Hz 1 ~	60 Hz	LBP	1/4	1.70	232	6.76	ISO10	RSCR-15µF	LST	ASHRAE 32
EM2U80HLP	R-134a	115-127V 60Hz 1 ~	60 Hz	LBP	1/4	1.65	232	6.76	ISO10	RSIR	LST	ASHRAE 32
EM2U80HLP	R-134a	220V 60Hz 1 ~	60 Hz	LBP	1/4	1.67	232	6.76	ISO10	RSCR-4µF	LST	ASHRAE 32
EM2U80HLP	R-134a	220V 60Hz 1 ~	60 Hz	LBP	1/4	1.61	232	6.76	ISO10	RSIR	LST	ASHRAE 32
EM2Z80	R-134a	115-127V	60	LBP	1.76	239	6.76	ISO10	RSCR-12µF	LST	ASHRA	

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EM20HHR	R-134a	220-240 V 50-60Hz 1 ~	50 Hz	HBP	1/12	2.51	246	2.27	ISO22	RSIR-CSIR	LST	CECOMAF
EM20HBR	R-134a	115V 60Hz 1 ~	60 Hz	HBP	1/12	2.37	289	2.27	ISO22	RSIR	LST	ASHRAE 32
EM20HHR	R-134a	220-240 V 50-60Hz 1 ~	60 Hz	HBP	1/12	2.48	292	2.27	ISO22	RSIR-CSIR	LST	ASHRAE 32
EM20HHR	R-134a	115-127V 60Hz 1 ~	60 Hz	HBP	1/12	2.53	299	2.27	ISO22	RSIR-CSIR	LST	ASHRAE 32
EMIS20HHR	R-134a	115-127V 60Hz 1 ~	60 Hz	HBP	1/12	2.49	308	2.27	ISO22	RSIR-CSIR	LST	ASHRAE 32
EMIS20H	R-13	220V 60Hz	60	HBP	1/12	2.37	308	2.27	ISO22	RSIR-	LST	ASHRAE

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Embraco History



Embraco is an expert and leader in refrigeration solutions for the light commercial sector. The solutions we provide for the light business field can ensure a high degree of reliability of products while saving energy, thereby providing a higher quality of life.

Technology leadership, operational excellence and sustainability are the strategic pillars that ensure Embraco surpasses other companies in the global market. Embraco has developed the Fullmotion all-drive frequency conversion technology, which can release different cooling capacity according to the load to achieve up to 40% energy saving.

The global annual output exceeds 38 million, and the solutions provided by the company are known for their innovation and low energy consumption. They have always led the market trend and supported the company’s continuous innovation and development. Embraco employs nearly 12,000 people in factories and offices in Brazil (headquarters), China, Italy, Slovakia, Mexico, the United States, and Russia.



Embraco data

-Embraco can produce more than 37 million compressors per year. As of 2010, the Brazil plant alone had produced more than 300 million compressors.

-During its 40 years of operation, Embraco products are sold to more than 80 countries and regions around the world.

-Embraco employs approximately 12,000 employees in six countries (Brazil, China, Italy, Slovakia, United States, Mexico and Russia).

-Embraco has obtained a total of 1277 patents.

-A team of more than 500 engineers and technicians dedicated to providing solutions to the world’s leading manufacturers of household and commercial refrigeration equipment.

-Embraco is one of the companies that has obtained multiple patents from

Brazil’s National Institute of Industrial Property (INPI) in recent years.



High energy efficiency

Energy efficiency is the basis for the development of all Embraco products. This means developing and producing compressors with lower energy consumption and less raw materials, while maintaining the benchmark quality of the products. Therefore, we continue to invest in research and development to create more efficient and quieter products that are harmless to the environment. As a result of our efforts to improve the energy efficiency of our products, and in order to exceed the highest expectations of our customers, we have developed Embraco all-wheel drive compressors, a type that can change the cooling capacity according to the speed of rotation, which can reduce energy consumption by 40%. We have a full range of products that can provide compressors with different levels of energy efficiency. The solutions we provide are a global benchmark in meeting the most stringent international energy consumption standards. Pursuing continuous improvement of products and processes is a commitment, and each generation of Embraco compressors will be more efficient than previous products.



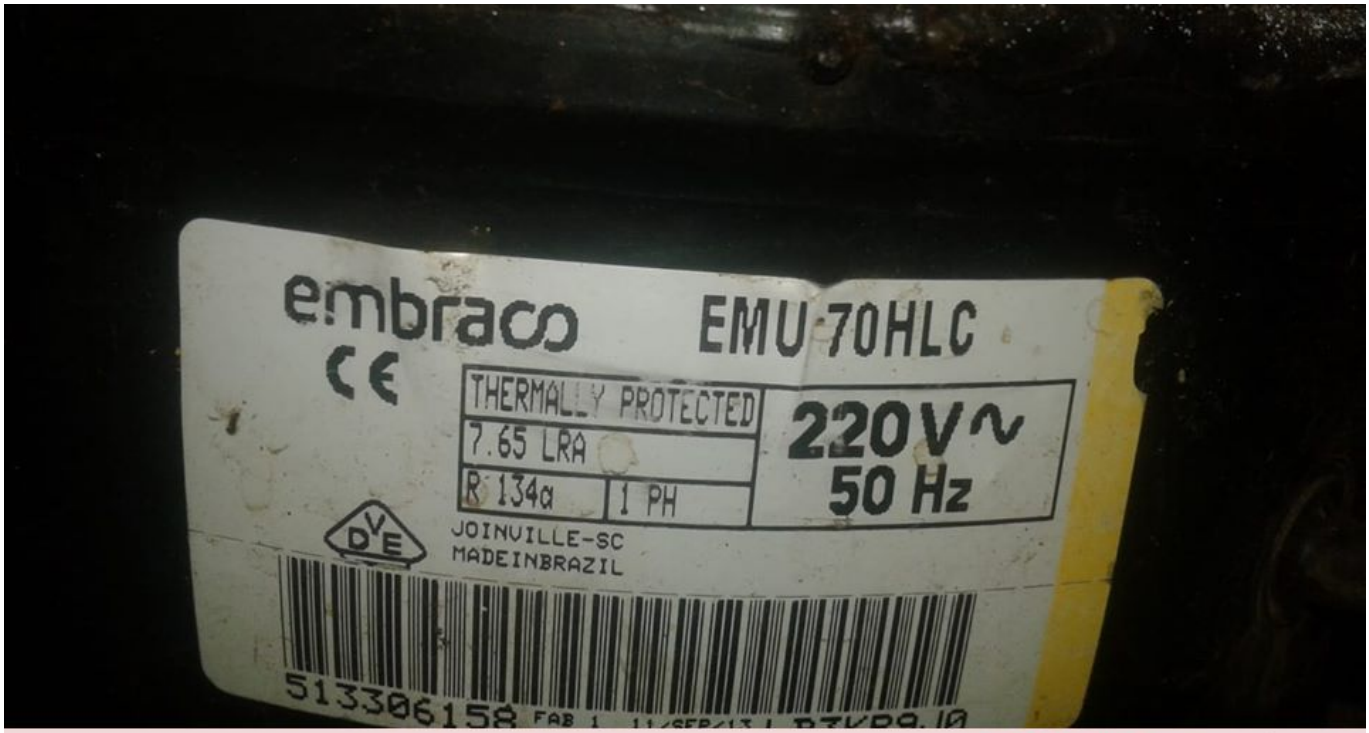


Green solution

Embraco has always been committed to providing the market with green solutions that subvert the traditional. We are already ahead of the industry, for example, providing advanced products that use environmentally friendly refrigerants. We have been manufacturing compressors using natural refrigerants R290 and R600a for more than 20 years. These natural refrigerants are very ideal refrigerants, which will not damage the ozone layer and will not produce a greenhouse effect. In addition, it has the advantages of low noise, high energy efficiency, and large cooling capacity, which can meet the most stringent environmental requirements.

Hot Products

- EMT6144Z
- EMT50HDP
- EM55HHR
- EM45HHR
- EMT6144Z
- EMT45HDR
- EMT50HDP
- EMT50HDP



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Embraco / Embraco piston compression EMU70HLC paramètres détaillés:

Réfrigérant:	R-134a	Volume d'échappement (cm³):	5.96
Tension:	220 V 50 Hz 1 ~	Catégorie d'huile lubrifiante:	ISO10
Fréquence (Hz):	50	Quantité d'huile lubrifiante (ml):	180
application:	LBP	modèle de moto:	RSCR
puissance:	1/5	Couple de démarrage:	LST
Efficacité:	1.40	Test type:	ASHRAE32
Capacité de refroidissement:	165		

ID: 513306157

Apparence

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Appearance

	shape	Material	Dimensions (mm)
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