

ZMC

written by Pro | 3 February 2024



Pro.mbsm.pro,, compressor, ZMC, Misr, Compressor Manufacturing Co, all information, 1/4 hp, 1/5 hp, 1/6 hp, 1/7 hp, 1/8 hp, 1/10 hp, 1/3 hp, r600a, r134a, Condensing unit, hbp, mhbp, Recommendation Change compressor

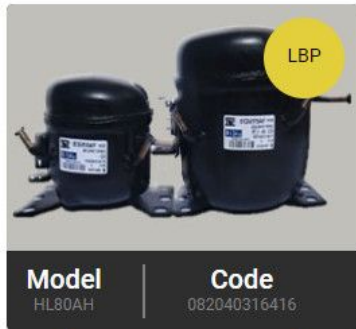
MISR COMPRESSOR MANUFACTURING CO. (MCMC) A COMPANY ESTABLISHED IN 1988, DEDICATED TO MANUFACTURING OF HERMETIC COMPRESSORS FOR HOUSEHOLD AND COMMERCIAL REFRIGERATION INDUSTRY

MODEL	GÜÇ HP	PİSTON HACMİ	VOLTAJ ARALIĞI	AĞIRLIK	YAĞ MİKTARI	MİNİMUM AKIM	MAKSİMUM AKIM	DEMARAJ AKIMI
GL 45 TB	1/6	4,56	187-255	8,04 KG	265 ML	0,88 A	1,35 A	6,50 A
GL 60 TB	1/5	5,68	187-264	8,65 KG	265 ML	1,10 A	1,67 A	8,30 A
GL 80 TB	1/5	7,57	187-264	9,20 KG	300 ML	1,30 A	2,30 A	9,80 A
GL 90 TB	1/4	8,85	187-264	9,60 KG	300 ML	1,40 A	2,38 A	12,00 A
GP 12 TB	1/3+	12,05	187-264	11,20 KG	350 ML	1,78 A	3,16 A	13,50 A

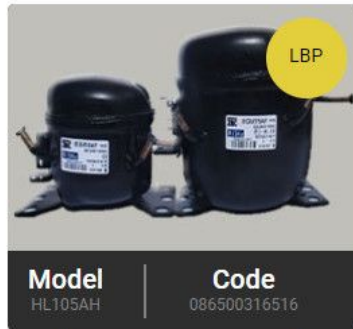
MODEL	SOĞUTMA KAPASİTESİ (KCAL)									
	KONDANSASYON SICAKLIĞI	EVAPORASYON SICAKLIĞI								
GL 45 TB		-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	7,2°C	10°C
	45°C	88	119	157	202	255	315	382	414	457
	50°C	80	107	142	184	233	289	353	383	424
	55°C	72	96	127	165	211	263	323	352	391
GL 60 TB		-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	7,2°C	10°C
	45°C	110	148	195	252	317	392	477	517	570
	50°C	100	134	178	231	293	364	445	483	535
	55°C	90	121	161	210	268	336	413	450	499
GL 80 TB		-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	7,2°C	10°C
	45°C	135	187	249	323	408	503	610	660	727
	50°C	120	167	225	294	374	465	567	615	680
	55°C	105	147	201	265	340	427	524	570	632
GL 90 TB		-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	7,2°C	10°C
	45°C	162	222	296	384	485	599	726	787	867
	50°C	148	203	271	352	447	554	676	733	810
	55°C	135	183	245	320	408	510	625	680	754
GP 12 TB		-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	7,2°C	10°C
	45°C	213	304	412	537	680	840	1017	1100	1.211
	50°C	187	268	366	481	614	764	931	1010	1.115
	55°C	160	231	319	425	548	698	845	920	1.020

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R600A Compressors






























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R134a Compressors

 Model Code EGM65AF 505200314416 ADD TO COMPARE	 Model Code EGM62AZ 5485002909416 ADD TO COMPARE	 Model Code EGM62AZ 505200312816 ADD TO COMPARE	 Model Code EGM62AZ 5470002909416 ADD TO COMPARE
 Model Code EGM65AF 505200313916 ADD TO COMPARE	 Model Code EGM65AF 505200312716 ADD TO COMPARE	 Model Code EGM65AF 5485002909416 ADD TO COMPARE	 Model Code EGM65AF 505200314116 ADD TO COMPARE
 Model Code EGM70AZ 549000365116 ADD TO COMPARE	 Model Code EGM70AF 505200313816 ADD TO COMPARE	 Model Code EGM75AZ 550000370116 ADD TO COMPARE	 Model Code EGM75AF 507500313816 ADD TO COMPARE
 Model Code EGM60AZ 551900375116 ADD TO COMPARE	 Model Code EGM60AF 505200314016 ADD TO COMPARE	 Model Code EGM60AZ 550000380116 ADD TO COMPARE	 Model Code EGM60AF 505200314216 ADD TO COMPARE
 Model Code EGM60AZ 505200313816 ADD TO COMPARE	 Model Code EGM60AF 402000325216 ADD TO COMPARE	 Model Code EGM60AF 411000325916 ADD TO COMPARE	 Model Code EGM60AF 418000341116 ADD TO COMPARE
 Model Code GL60AN 426000325216 ADD TO COMPARE	 Model Code GL60AN 437000325216 ADD TO COMPARE	 Model Code GL60AD 437040317716 ADD TO COMPARE	 Model Code GL60AD 440040325516 ADD TO COMPARE
 Model Code EGM65AF 506000316616 ADD TO COMPARE	 Model Code EGM77AF 507040316716 ADD TO COMPARE	 Model Code EGM91AF 509570316816 ADD TO COMPARE	



Compressors 1/4 hp lbp

 Model EGM8UAZ Code 551090275116 ADD TO COMPARE	 Model EGM8UAF Code 508500314016 ADD TO COMPARE	 Model EGM9UAZ Code 552090280116 ADD TO COMPARE	 Model EGM9UAF Code 509500314216 ADD TO COMPARE
 Model EGM99AZ Code 553090310816 ADD TO COMPARE	 Model GL9GAN Code 437070357516 ADD TO COMPARE	 Model GL90AD Code 440040355616 ADD TO COMPARE	 Model EGM91AF Code 509570316816 ADD TO COMPARE
 Model HL10SAH Code 086300316516 ADD TO COMPARE			

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compressors 1/5 hp lbp



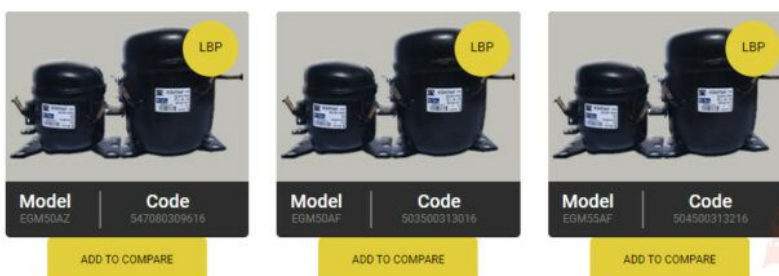
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Compressors 1/6 hp lbp




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Compressors 1/7 hp lbp



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Compressors 1/8 hp lbp



Model	Code
EGM45AZ	546080309416
EGM45AF	502500312816
GL45AN	402070326316

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Compressors 1/10 hp lbp



Model	Code
EGM35AF	500540314416

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Compressors MHBP



Model	Code
GL451B	404010327416

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Model	Code
GL601B	414010338016

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Model	Code
GL801B	432080358616

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Model	Code
GL901B	442020358616

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Model	Code
GP12TB	355000306616

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Compressors Condensing unit



Model	Code
ECGL70AN	ECGL20107001

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Model	Code
ECGL80AN	ECGL20108002

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Model	Code
ECGL90AN	ECGL20109002

ADD TO COMPARE



Model	Code
ECGL80TB	ECGL20108001

ADD TO COMPARE



Model	Code
ECGL90TB	ECGL20109001

ADD TO COMPARE



Model	Code
ECGP12TB	ECGP20101201

ADD TO COMPARE



Model	Code
ECGP12FB	ECGP20101202

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Model	Code
ECGP12FB	ECGP20101202

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Recommendations

Recommendations for R134a

bottle coolers.

Evaporator with forced air circulation (fan). Always use an HMBP or MBP compressors

Cooler gross volume (dm3)	Climatic Class		
	B (24 °C)	C (32 °C)	D (41 °C)
130	GL45	GL45	GL45
170	GL45	GL45	GL60
220	GL45	GL60	GL80
280	GL60	GL80	GL90
350	GL80	GL90	GP12
450	GL90	GP12	GP14
550	GP12	GP14	GP16
650	GP12	GP16	
800	GP16	GP16	

. For **Evaporator** with natural (**static**) air circulation, the immediate biggest model may be advisable.

. Table is based on 50Hz operation

Evaporating temp.: **start / end pull-down: 0 ÷ -10°C**

Condensing ΔT : **start / end pull-down: 15 ÷ 10 K**

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Recommendations

for single-door refrigerators.

Amb. Temp.: 43°C

Always use LBP compressors

Refrigerator Volume (l)	R134a compressor	R600a compressor
50	GM35 ..	
100	GM35 ..	HL80 ..
150	GM45 ..	HL80 ..
200	GM50 ..	HL90 ..
250	GM60 ..	HL99 ..
300	GM70 ..	HP12 ..
350	GM75 ..	HP14 ..
400	GM80 ..	HP16 ..
450	GM90 ..	
500	GP12 ..	
600	GM99 ..	

For **amb. temp.: 32°C**, the immediate smaller compressor should be considered in each case.

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Recommendations

for double-door refrigerators.

Amb. Temp.:43°C

Always use LBP compressors

Refrigerator Volume (l)	R134a compressor	R600a compressor
50	GM35 ..	
100	GM45 ..	HL80 ..
150	GM50 ..	HL90 ..
200	GM60 ..	HL99 ..
250	GM70 ..	HP12 ..
300	GM75 ..	HP14 ..
350	GM80 ..	HP16 ..
400	GM90 ..	
450	GP12 ..	
500	GP12 ..	
600	GM99 ..	

For amb. temp.:32°C, the immediate smaller compressor should be considered in each case.

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Recommendations

for freezers.

Amb. Temp.:43°C

Always use LBP compressors

Freezer Volume (l)	R134a compressor at T. evap.> -30°C	R600a compressor at T. evap.> -30°C
50	GM45 ..	HL80 ..
100	GM50 ..	HL80 ..
150	GM60 ..	HL90 ..
200	GM70 ..	HL99 ..
250	GM75 ..	HP12 ..
300	GM80 ..	HP14 ..
350	GM90 ..	HP16 ..
400	GP12 ..	
500	GM99 ..	

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R134a

Model

Refr.

HP

Ambient

Rated

Cooling Capacity

COP without RC

COP with RC

Temp C

Voltage

-23.3°C -25°C -23.3°C -25°C -23.3°C -25°C

GL45AA

LBP::R134a 1/8 43 A 96 82 1.06 0.82

GL45AN

LBP::R134a 1/8 50 C 96 81 1.05 0.8

GL60AA

LBP::R134a 1/6 43 A 132 114 1.14 0.89

GL60AF

LBP::R134a 1/6 43 D 132 113 1.07 0.82

GL60AH

LBP::R134a 1/6 43 A 133 114 1.31 1.01

GL60AN

LBP::R134a 1/6 50 C 132 114 1.07 0.83

GL70AA

LBP::R134a 1/5 43 A 149 128 1.18 0.92

GL70AN

LBP::R134a 1/5 50 D 150 129 1.08 0.83

GL70AT

LBP::R134a 1/5 43 E 144 122 1.09 0.84

GL75AA

LBP::R134a 1/5 43 A 155 133 1.18 0.92

GL80AA

LBP::R134a 1/5 43 A 173 148 1.19 0.93

GL80AF

LBP::R134a 1/5 43 D 166 141 1.14 0.88

GL80AH

LBP::R134a 1/5 43 A 175 150 1.35 1.06

GL80AN

LBP::R134a 1/4 43 A 196 168 1.36 1.06

GL90AA

LBP::R134a 1/4 43 A 195 167 1.19 0.93

GL90AH

LBP::R134a 1/4 43 A 215 182 1.39 1.08

GL90AN

LBP::R134a 1/4 50 D 190 163 1.1 0.85

GL90AT

LBP::R134a 1/4 43 E 190 161 1.19 0.92

GL99AA

LBP::R134a 1/4 43 A 214 182 1.24 0.96

GL99AH

LBP::R134a 1/4 43 A 215 182 1.39 1.08

GL80AD

LBP::R134a 1/5 43 W 0 0 0 0

GL90AD

LBP::R134a 1/4 43 W 0 0 0 0

R12

Model

Refr.

HP

Ambient

Rated

Cooling Capacity

COP without RC

COP with RC

Temp C

Voltage

-23.3°C -25°C -23.3°C -25°C -23.3°C -25°C

L45AV

LBP::R12 1/8 43 B 221 192 0.91 0.71

L55AV

LBP::R12 1/6 43 B 115 101 0.99 0.78

L55BV

LBP::R12 1/6 43 B 115 101 0.99 0.78

L76AV

LBP::R12 1/5 43 B 145 127 1.05 0.84

L76BV

LBP::R12 1/5 43 B 145 127 1.05 0.84

L88AV

LBP::R12 1/4 43 B 171 150 1.02 0.81

L88BV

LBP::R12 1/4 43 B 171 150 1.02 0.81

LT45AV

LBP::R12 1/8 50 B 94 83 1.04 0.83

LT55AV

LBP::R12 1/6 50 B 115 102 1.06 0.85

LT55BV

LBP::R12 1/6 50 B 115 102 1.06 0.85

LT76BV

LBP::R12 1/5 50 B 155 137 1.14 0.91

LT88BV

LBP::R12 1/4 50 B 190 169 1.16 0.93

P12BW

LBP::R12 1/3 43 A 221 192 0.91 0.71

R600a

Model

Refr.

HP

Ambient

Rated

Cooling Capacity

COP without RC

COP with Rc

Temp C

Voltage

-23.3°C -25°C -23.3°C -25°C -23.3°C -25°

HL80AH

LBP::R600a 1/7 43 A 104 89 1.37 1.06

HL90AH

LBP::R600a 1/7 43 A 115 99 1.38 1.08

HL99AH

LBP::R600a 1/6 43 A 120 103 1.34 1.03

Model

Refr.

HP

Ambient

Rated

Cooling Capacity

COP

Temp C

Voltage

CECOMAF

ASHRAE

7.2

5°C

7.2°C

W

kcal/h

GL45PB

HMBP::R134a

1/6

43

A

GL45PB

HMBP::R134a

1/6

0

300

GL45TB

HMBP::R134a

1/6

43

A

GL60PB

HMBP::R134a

1/5

43

A

GL60TB

HMBP::R134a

1/5

43

A

GL80PB

HMBP::R134a

1/5

43

A

GL80TB

HMBP::R134a

F

0

300

GL90TB

HMBP::R134a

1/4

43

A

GP12TB

HMBP::R134a

3/8

43....

-23,3 ° C -25 ° C -23.3 ° C -25 ° C – 23.3

GL45AA

LBP :: R 134 1 / 8 43 A 96 82 1.06 0.82

GL45AN

LBP :: R 134 1 / 8 50 C 96 81 1.05 0.8

GL60AA

LBP :: R 134 1 / 6 43 Í 132 114 1.14 0.89

GL60AF

LBP :: R 134 1 / 6 43 D 132 113 1.07 0.82

GL60AH

LBP :: R 134 1 / 6 43 Í 133 114 1.31 1.01

GL60AN

LBP :: R 134 1 / 6 50 C 132 114 1.07 0.83

GL70AA

LBP :: R 134 1 / 5 43 A 149 128 1.18 0.92

GL70AN

LBP :: R 134 1 / 5 50 D 150 129 1.08 0.83

GL70AT

LBP :: R 134 1 / 5 43 E 144 122 1.09 0.84

GL75AA

LBP :: R 134 1 / 5 43 A 155 133 1.18 0.92

GL80AA

LBP :: R 134 1 / 5 43 A 173 148 1.19 0.93

GL80AF

LBP :: R 134 1 / 5 43 D 166 141 1.14 0.88

GL80AH

LBP :: R 134 1 / 5 43 A 175 150 1.35 1.06

GL80AN

LBP :: R 134 1 / 4 43 A 196 168 1.36 1.06

GL90AA

LBP :: R 134 1 / 4 43 A 195 167 1.19 0.93

GL90AH

LBP :: R 134 1 / 4 43 A 215 182 1.39 1.08

GL90AN

LBP :: R 134 1 / 4 50 D 190 163 1.1 0.85

GL90AT

LBP :: R 134 1 / 4 43 E 190 161 1.19 0.92

GL99AA

LBP :: R 134 1 / 4 43?

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