LG
Life's Good

Reciprocating & Linear Compressor

Compressor Technology
for Refrigerator

Why
LG Compressor?

Technology

LG compressors are continuously evolving group of high-precision machining and assembly technologies from accumulated techniques for generating sustainable world best compressor. Especially we are enabling to give our customers technical support in order to provide best performance compressor through design mechanism and produce key technology of compressor, inverter motor and drive that makes you to achieve optimized product.

Model Variety

In order to offer you a various product portfolio of refrigerator compressor, our range covers constant and inverter of Reciprocating and Linear compressor with low pressure as well as high pressure. It enables to provide you with full support in all application of your needs.

Quality

With the product quality and safety evaluation system that performs basic quality and safety evaluation for products at every production stage. Under the quality gate system, all our products undergo a safety check at each quality gate based on a checklist, preventing shipments of products with quality or safety issues. We also have achieved recognition our quality and sustainability from Europe, North America, China and Japan.

Customer Support

LG compressors promise to deliver a satisfaction level for all your business stage from research, development to the spec-in that exceeds our customers expectations, and strives to provide the highest value to our customers through a fast, accurate and differentiated service & solution as your business partner.

Brief History & Factory

Milestones & Production Sites

1963
Motor Production

1973
Refrigerator Compressor Production

1990
Air-conditioner Compressor Production

2006
Unification of Motor & Compressor Division

2008
Compressor Sales 100 Million Units

2011
Establishment of C&M Business Unit

Contents

Reciprocating Compressor

Product Range

Constant speed

Refrigerant	Test Condition	Model	Capacity (w) 0	100	200	300	400
R134a (LBP) [1]	ASHRAE	TS Displacement [cc/rev]	2.2 2.4				
		NS Displacement [cc/rev]	2.4 3.0 3.6				
		CMA Displacement [cc/rev]			4.2 5.3 6.2 6.9 7.5		
		MA Displacement [cc/rev]			4.2 5.3 5.7 6.9 7.2 8.8 9.8		
		MC Displacement [cc/rev]			5.3 5.7		
		LQ Displacement [cc/rev]				6.9 7.5 8.6	
		LX Displacement [cc/rev]			6.7 7.2 8.6 9.5 11.0		
R600a	ASHRAE	NS Displacement [cc/rev]	3.6 4.3				
		CSA Displacement [cc/rev]	4.3 5.7 6.2 6.9 7.5				
		CMA Displacement [cc/rev]	5.7 6.2 6.9 7.5 8.2 8.9 9.8 11.0 12.1				
		MB Displacement [cc/rev]	6.2 8.2 9.8				
		MQ Displacement [cc/rev]	8.8 9.8				
		LQ Displacement [cc/rev]	11.9				

Refrigerant	Test Condition	Model	Capacity (w) 0	100	200	400	600	800	1,000	1,200	1,400
R134a (HBP) [2]	Te/Tc = 7.22/54.4°C, RT32°C	CMA Displacement [cc/rev]					4.2 5.3 6.2 7.5 8.9				
		MA Displacement [cc/rev]					4.2 5.3 6.2 7.2				
		LX Displacement [cc/rev]						7.2 8.6 11.0			

1) **LBP :** Low back pressure
2) **HBP :** High back pressure

Inverter

Refrigerant	Test Condition	Model	Capacity (w) 0	100	200	300	400
R134a	ASHRAE	BMA Displacement [cc/rev]			5.0 6.9 8.2		
		BCA018 Displacement [cc/rev]	25-50				
R600a	ASHRAE	BMA Displacement [cc/rev]			9.8 12.1		
		BMG Displacement [cc/rev]		6.9 8.9 11.0			
		BCA030 Displacement [cc/rev]	30-65				

Note :

Test condition	Evaporating temperature	Condensing temperature	Ambient temperature
ASHRAE	-23.3°C	54.4°C	32.2°C

Nomenclature

B M A 098 N A M V

Product type
B : BLDC
C : Constant Speed
F : Linear

Size
C : Compact
L : Large
M : Medium
S : Small

Generation code
(A-Z)

Capacity
Displacement
(ex : 098=9.8cc/rev)

Operating type

Code	Voltage
G	RSIR
M	RSCR
F	CSIR
H	CSR
K	RSIR
N	RSCR
P	CSIR
R	CSR
V	Inverter

Rated voltage & frequency

Code	Voltage	Hz	Code	Voltage	Hz
A	100	50/60	Q	110~115	60
B	220	50/60	R	110~127	60
C	115	60	S	200~220	50
D	220	60		220	60
E	220~240	50	T	220~240	50
F	127	60		220	60
J	220	50	U	115~127	60
K	110	60	M	220~240	50/60
L	240	50	N	115~127	50/60
P	110	50			

Improvement order
A, B, C : Cu Wire
H, J : Al Wire

Refrigerants
L : R134a
H : R134a HBP
N : R600a

Specification _ Constant speed (R134a)

Application : LBP

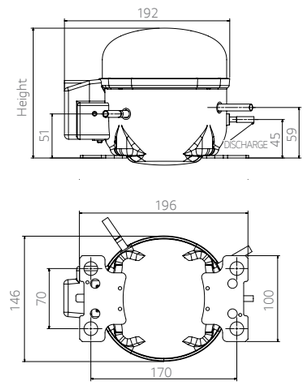
Refrigerant	Series	Model	Frequency	Voltage	Motor Type	ASHRAE					Dimension
						Capacity			EER	COP	Height
			Hz	V		Kcal/hr	Btu/Whr	Watts	Btu/Whr	W/W	mm
R134a	TS	TS22LHAG	50	110	RSIR	36	143	42	1.83	0.54	136.5
		TS24LAAG				39	155	45	2.21	0.65	136.5
		TS24LHAG				39	155	45	2.21	0.65	151.0
		TS24LHJG		220	RSIR	38	151	44	1.99	0.58	151.0
		TS24LJJG				38	151	44	1.99	0.58	151.0
		TS22LHEG		220~240	RSIR	36	141	41	2.20	0.64	151.0
		TS24LATG				38	151	44	2.10	0.62	136.5
		TS24LHTG				40	159	47	2.10	0.62	151.0
		TS24LAAG	60	100	RSIR	48	191	56	2.61	0.76	136.5
		TS22LHAG		110	RSIR	45	177	52	2.36	0.69	136.5
		TS24LHAG				48	191	56	2.61	0.76	151.0
		TS22LHCG		115	RSIR	45	177	52	2.29	0.67	136.5
		TS24LACG				48	191	56	2.44	0.71	136.5
		TS24LHUG		115~127	RSIR	48	191	56	2.44	0.71	151.0
		TS24LAFG		127	RSIR	48	191	56	2.38	0.70	136.5
		TS22LHDG		220	RSIR	45	177	52	2.29	0.67	136.5
		TS24LADG				46	183	53	2.50	0.73	136.5
		TS24LATG				48	191	56	2.65	0.78	136.5
		TS24LHDG				50	197	58	2.65	0.78	151.0
		TS24LHTG				50	199	58	2.65	0.78	151.0
		TS24LBDM				48	191	56	2.45	0.72	136.5

Note 1 : Figures in the table are subject to change without prior notice for performance improvement.

Note 2 :

Test condition	Evaporating temperature	Condensing temperature	Ambient temperature
ASHRAE	-23.3℃	54.4℃	32.2℃

TS



Unit : mm

Specification _ Constant speed (R134a)

Application : LBP

Refrigerant	Series	Model	Frequency	Voltage	Motor Type	ASHRAE					Dimension
						Capacity			EER	COP	Height
			Hz	V		Kcal/hr	Btu/Whr	Watts	Btu/Whr	W/W	mm
R134a	NS	NS24LABG	50	220	RSIR	38	151	44	2.60	0.76	147
		NS30LABG				50	199	58	2.51	0.74	157
		NS36LABG				64	254	74	2.65	0.78	157
		NS24LBEG		220~240	RSIR	36	143	42	2.23	0.65	157
		NS24LAEG				38	151	44	1.99	0.58	147
		NS30LAEG				54	214	63	2.65	0.78	147
		NS36LAEG				66	262	77	2.94	0.86	157
		NS24LBCM	60	115	RSCR	43	171	50	2.55	0.75	157
		NS30LACM				65	258	76	2.99	0.88	147
		NS24LBCG			RSIR	43	171	50	2.44	0.71	157
		NS24LACG				45	179	52	2.32	0.68	147
		NSA24LACG				50	199	58	2.48	0.73	147
		NS30LACG				64	254	74	2.85	0.83	147
		NSA30LACG				70	278	81	3.02	0.88	147
		NS36LACG				76	302	88	3.05	0.89	157
		NSA36LACG				83	330	97	3.17	0.93	157
		NS36LADM		220	RSCR	79	314	92	3.30	0.97	157
		NS24LADG			RSIR	43	171	50	2.25	0.66	147
		NS24LABG				43	171	50	2.37	0.69	147
		NS30LABG				61	242	71	2.75	0.81	157
		NS36LADG				79	314	92	3.20	0.94	157
		NS36LABG				79	314	92	3.20	0.94	157

Note 1 : Figures in the table are subject to change without prior notice for performance improvement.

Note 2 :

Test condition	Evaporating temperature	Condensing temperature	Ambient temperature
ASHRAE	-23.3℃	54.4℃	32.2℃

Application : LBP

Refrigerant	Series	Model	Frequency	Voltage	Motor Type	ASHRAE					Dimension
						Capacity			EER	COP	Height
			Hz	V		Kcal/hr	Btu/Whr	Watts	Btu/Whr	W/W	mm
R134a	CMA	CMA042LHJG	50	220	RSIR	91	361	106	3.60	1.05	171
		CMA053LHEM		220~240	RSCR	129	512	150	5.05	1.48	171
		CMA057LHEM				138	548	160	4.98	1.46	171
		CMA057LAEM				140	558	163	5.50	1.61	171
		CMA062LHEM				153	607	178	5.19	1.52	171
		CMA069LAEM				165	655	192	5.50	1.61	171
		CMA069LBEM				168	667	195	5.75	1.68	171
		CMA069LHEM				168	667	195	5.20	1.52	171
		CMA053LHEG			RSIR	129	512	150	4.83	1.41	171
		CMA057LHEG				140	556	163	4.83	1.41	171
		CMA062LHEG				153	607	178	4.98	1.46	171
		CMA042LHCM	60	115	RSCR	111	441	129	5.00	1.46	171
		CMA053LHCM				144	572	167	5.10	1.49	171
		CMA042LHCG			RSIR	111	441	129	4.84	1.42	171
		CMA053LHCG				144	572	167	4.84	1.42	171
		CMA042LHUM		115~127	RSCR	118	468	137	5.50	1.61	171
		CMA042LHDM		220	RSCR	109	433	127	4.90	1.44	171
		CMA075LHDM				200	794	233	4.50	1.32	171
		CMA053LHDG			RSIR	141	560	164	4.60	1.35	171

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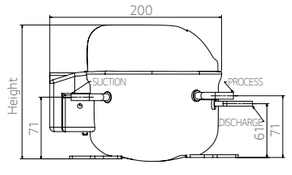
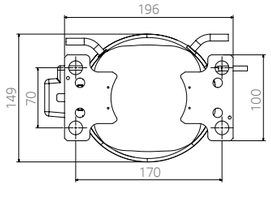
Note 2 :

Test condition	Evaporating temperature	Condensing temperature	Ambient temperature
ASHRAE	-23.3℃	54.4℃	32.2℃

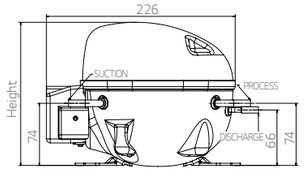
NS

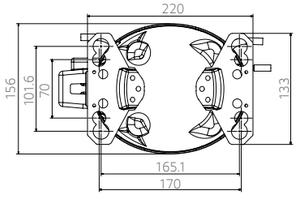




Unit : mm

CMA





Unit : mm

Specification _ Constant speed (R134a)

Application : LBP

Refrigerant	Series	Model	Frequency	Voltage	Motor Type	ASHRAE					Dimension
						Capacity			EER	COP	Height
			Hz	V		Kcal/hr	Btu/Whr	Watts	Btu/Whr	W/W	mm
R134a	MA	MA42LMJM	50	220	RSCR	92	365	107	4.00	1.17	172
		MA42LHJM				92	365	107	3.77	1.10	172
		MA45LJJM				102	405	119	4.31	1.26	172
		MA45LHJM				102	405	119	4.31	1.26	172
		MA53LAJM				125	496	145	4.21	1.23	172
		MA57LDJM				145	576	169	4.61	1.35	177
		MA62LDJM				150	596	174	4.88	1.43	177
		MA42LPJG			RSIR	92	365	107	3.80	1.11	172
		MA42LMJG				92	365	107	3.80	1.11	172
		MA45LDJG				99	393	115	3.78	1.11	172
		MA45LCJG				99	393	115	3.78	1.11	172
		MA53LJJG				125	496	145	4.21	1.23	172
		MA53LBJG				125	496	145	4.10	1.23	172
		MA57LBJG				138	548	160	4.21	1.23	177
		MA57LJJG				138	548	160	4.21	1.23	177
		MA62LBJG				150	596	174	4.44	1.30	177
		MA62LJJG				150	596	174	4.44	1.30	177
		MA72LBJG				180	715	209	4.41	1.29	177
		MA69LJEP		220~240	CSIR	169	671	197	4.41	1.29	177
		MA69LHEP				170	675	198	4.24	1.24	177
		MA72LJEP				180	715	209	4.41	1.29	177
		MA88LAEP				235	933	273	4.11	1.20	177
		MA53LHEM			RSCR	140	556	163	5.34	1.57	172
		MA69LKEM				169	671	197	4.97	1.46	177
		MA69LHEM				169	671	197	4.61	1.35	177
		MA69LAEM				172	683	200	4.61	1.35	177
		MA72LHEM				180	715	209	4.61	1.35	177
		MA72LKEM				180	715	209	4.96	1.45	177
		MA72LBEM				180	715	209	4.61	1.35	177
		MA53LATG			RSIR	124	492	144	4.00	1.17	172
		MA62LBEG				150	596	174	4.69	1.37	177
		MA62LCEG				150	596	174	4.69	1.37	177
		MA69LJEG				169	671	197	4.41	1.29	177
		MA69LHEG				169	671	197	4.41	1.29	177
		MA72LJEG				180	715	209	4.41	1.29	177
		MA72LHEG				180	715	209	4.41	1.29	177

Application : LBP

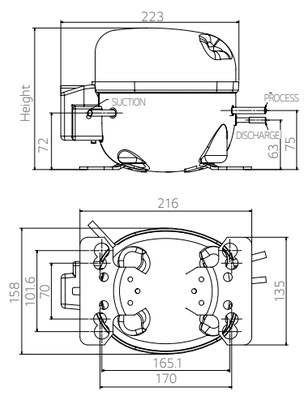
Refrigerant	Series	Model	Frequency	Voltage	Motor Type	ASHRAE					Dimension	Remarks
						Capacity			EER	COP	Height	
			Hz	V		Kcal/hr	Btu/Whr	Watts	Btu/Whr	W/W	mm	
R134a	MC	MA57LBJM	50	220	RSCR	145	576	169	5.28	1.55	177	
		MC53LBEM		220~240		139	552	162	5.26	1.54	172	
		MC57LAEM				147	584	171	5.50	1.61	177	
		MC57LBEM				147	584	171	5.50	1.61	177	
	LQ	LQ100LAJH	50	220	CSR	278	1,104	323	5.50	1.61	203	
		LQ75LAEM		220~240	RSCR	142	564	165	5.80	1.70	203	
		LQ86LAEM				241	957	280	5.90	1.73	203	
		LQ69LAUM	60	115~127		241	957	280	6.24	1.83	203	E-PTC
		LQ69LAUM				241	957	280	6.15	1.80	203	
		LQ69LAUH				241	957	280	6.24	1.83	203	E-PTC
		LQ75LAUM				268	1,064	312	6.10	1.79	203	E-PTC
		LQ69LADM		220		241	957	280	6.15	1.80	203	
		LQ86LADM				305	1,211	355	6.00	1.76	203	

Note 1 : Figures in the table are subject to change without prior notice for performance improvement.

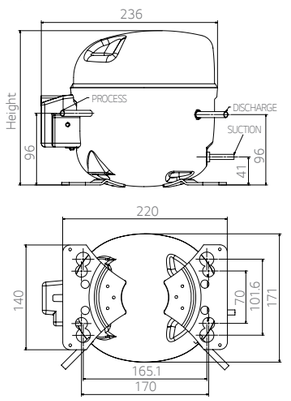
Note 2 :

Test condition	Evaporating temperature	Condensing temperature	Ambient temperature
ASHRAE	-23.3°C	54.4°C	32.2°C

MA / MC



LQ



Unit : mm

Specification _ Constant speed (R134a)

Application : LBP

Refrigerant	Series	Model	Frequency	Voltage	Motor Type	ASHRAE					Dimension
						Capacity			EER	COP	Height
			Hz	V		Kcal/hr	Btu/Whr	Watts	Btu/Whr	W/W	mm
R134a	LX	LX72LAAM	50	110	RSCR	170	675	198	4.30	1.26	200
		LX95LAAH			CSR	230	913	267	4.50	1.32	203
		LX110LAAH				270	1,072	314	4.20	1.23	203
		LX110LQJG		220	RSIR	270	1,072	314	4.30	1.26	200
		LX67LABM			RSCR	155	615	180	4.81	1.41	200
		LX67LHBM				155	615	180	4.02	1.18	203
		LX72LHJM				172	683	200	4.24	1.24	203
		LX86LABM				194	770	226	4.84	1.42	203
		LX110LAJM				270	1,072	314	4.54	1.33	203
		LX110LAJM				278	1,104	323	4.76	1.39	203
		LX125LAJM				315	1,251	366	4.50	1.32	203
		LX72LHJH			CSR	172	683	200	4.24	1.24	203
		LX95LABH				230	913	267	4.35	1.27	203
		LX110LAJH				270	1,072	314	4.54	1.33	203
		LX110LHJH				270	1,072	314	4.47	1.31	203
		LX72LHJF			CSIR	172	683	200	3.80	1.11	203
		LX86LHJF				194	770	226	3.80	1.11	203
		LX86LPBP				196	778	228	4.10	1.20	203
		LX72LATG		220~240	RSIR	170	675	198	4.24	1.24	200
		LX72LBEG				170	675	198	4.38	1.28	200
		LX86LBEG				194	770	226	4.30	1.26	200
		LX86LCEG				194	770	226	4.23	1.24	203
		LX86LAEG				205	814	238	4.60	1.35	203
		LX72LAEM			RSCR	172	683	200	4.50	1.32	200
		LX86LHEM				194	770	226	4.30	1.26	203
		LX110LAEM				270	1,072	314	4.99	1.46	203
		LX72LATH			CSR	170	675	198	4.30	1.26	200
		LX110LAEH				270	1,072	314	4.99	1.46	203
		LX72LATF			CSIR	170	675	198	4.24	1.24	200
		LX86LBEF				194	770	226	4.30	1.26	200
		LX72LAAM	60	110	RSCR	213	846	248	4.70	1.38	200
		LX95LAAH			CSR	280	1,112	326	4.90	1.44	203
		LX110LAAH			CSR	300	1,191	349	4.67	1.37	203
		LX86LACM		115	RSCR	245	973	285	4.91	1.44	203
		LX67LAFM		127	RSCR	195	774	227	5.06	1.48	200
		LX95LAFH			CSR	280	1,112	326	4.79	1.40	203
		LX72LATG		220	RSIR	213	846	248	4.67	1.37	200
		LX67LABM			RSCR	195	774	227	5.09	1.49	200
		LX67LHBM				195	774	227	4.81	1.41	203
		LX86LADM				250	993	291	5.14	1.51	203
		LX86LABM				250	993	291	5.14	1.51	203

Application : LBP

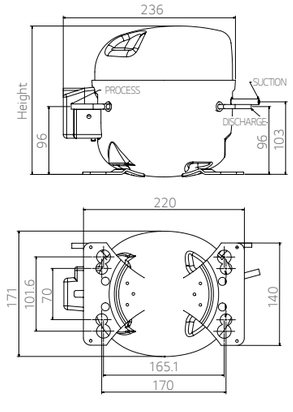
Refrigerant	Series	Model	Frequency	Voltage	Motor Type	ASHRAE					Dimension
						Capacity			EER	COP	Height
			Hz	V		Kcal/hr	Btu/Whr	Watts	Btu/Whr	W/W	mm
R134a	LX	LX72LATH	60	220	CSR	213	846	248	4.83	1.41	200
		LX95LADH				280	1,112	326	4.96	1.45	203
		LX95LABH				280	1,112	326	4.96	1.45	203
		LX72LATF			CSIR	213	846	248	4.67	1.37	200
		LX86LPBP				247	981	287	4.50	1.32	203
		LX86LPDP				250	993	291	4.55	1.33	200
		LX110LPDP				300	1,191	349	4.11	1.20	203
		LX67LAQG		100~115	RSIR	187	742	217	4.19	1.23	200
		LX72LBQG				213	846	248	4.27	1.25	200
		LX86LAQM			RSCR	245	973	285	4.91	1.44	203
		LX95LBQH			CSR	280	1,112	326	4.63	1.36	203
		LX95LAQH				285	1,131	331	4.92	1.44	203
		LX72LHQF			CSIR	213	846	248	3.91	1.15	203

Note 1 : Figures in the table are subject to change without prior notice for performance improvement.

Note 2 :

Test condition	Evaporating temperature	Condensing temperature	Ambient temperature
ASHRAE	-23.3°C	54.4°C	32.2°C

LX



Unit : mm

Specification _ Constant speed (R600a)

Application : LBP

Refrigerant	Series	Model	Frequency	Voltage	Motor Type	ASHRAE					Dimension
						Capacity			EER	COP	Height
			Hz	V		Kcal/hr	Btu/Whr	Watts	Btu/Whr	W/W	mm
R600a	NS	NS36NAAG	50	110	RSIR	43	171	50	2.22	0.65	157
		NS36NAAG	60	110	RSIR	52	205	60	3.01	0.88	157
		NSA43NACG		115	RSIR	73	290	85	4.27	1.25	157
		NSA43NACM			RSCR	73	290	85	4.47	1.31	157
	CSA	CSA043NHAG	50	110	RSIR	58	229	67	3.62	1.06	167
		CSA062NHAG				89	352	103	4.47	1.31	167
		CSA069NHAG				99	393	115	4.64	1.36	167
		CSA043NHEG		220~240	RSIR	55	219	64	4.54	1.33	167
		CSA047NHEG				65	256	75	4.64	1.36	167
		CSA053NHEG				72	287	84	4.88	1.43	167
		CSA057NHEG				84	335	98	4.78	1.40	167
		CSA057NJEG				86	341	100	4.34	1.27	157
		CSA062NHEG				89	355	104	4.85	1.42	167
		CSA069NHEG				101	403	118	5.09	1.49	167
		CSA075NJEG				114	451	132	4.34	1.27	157
		CSA075NHEG				115	458	134	5.02	1.47	167
		CSA075NHEM				115	458	134	5.26	1.54	167
		CSA043NHAG	60	110	RSIR	66	263	77	4.20	1.23	167
		CSA062NHAG				108	430	126	5.05	1.48	167
		CSA069NHAG				117	464	136	5.05	1.48	167
		CSA057NHCG		115	RSIR	97	386	113	4.95	1.45	167
		CSA069NHCG				115	458	134	4.98	1.46	167
		CSA075NHCG				133	529	155	4.98	1.46	167

Note 1 : Figures in the table are subject to change without prior notice for performance improvement.

Note 2 :

Test condition	Evaporating temperature	Condensing temperature	Ambient temperature
ASHRAE	-23.3°C	54.4°C	32.2°C

Application : LBP

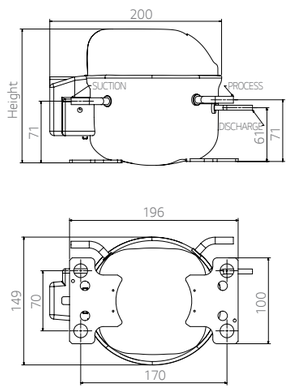
Refrigerant	Series	Model	Frequency	Voltage	Motor Type	ASHRAE					Dimension	Remark
						Capacity			EER	COP	Height	
			Hz	V		Kcal/hr	Btu/Whr	Watts	Btu/Whr	W/W	mm	
R600a	CMA	CMA057NAAG	50	110	RSIR	82	324	95	5.45	1.60	171	
		CMA069NHAM			RSCR	104	415	122	5.53	1.62	171	
		CMA075NHAM				120	475	139	5.65	1.65	171	
		CMA082NJEG		220~240	RSIR	127	505	148	5.63	1.65	171	
		CMA089NJEG				138	546	160	5.60	1.64	171	
		CMA098NJEG				155	615	180	5.46	1.60	171	
		CMA057NAEM				84	335	98	6.53	1.91	171	
		CMA057NAEM			RSCR	84	335	98	6.73	1.97	171	E-PTC
		CMA057NHEM				84	335	98	6.14	1.80	171	
		CMA057NHEM				84	335	98	6.32	1.85	171	E-PTC
		CMA062NAEM				96	382	112	6.55	1.92	171	
		CMA062NAEM				96	382	112	6.73	1.97	171	E-PTC
		CMA062NHEM				97	386	113	6.31	1.85	171	
		CMA062NHEM				97	386	113	6.49	1.90	171	E-PTC
		CMA069NJEM				103	409	120	5.54	1.62	171	
		CMA069NAEM				103	410	120	6.56	1.92	171	
		CMA069NAEM				103	410	120	6.73	1.97	171	E-PTC
		CMA069NHEM				103	410	120	6.30	1.85	171	
		CMA069NHEM				103	410	120	6.49	1.90	171	E-PTC
		CMA075NAEM				120	474	139	6.59	1.93	171	
		CMA075NAEM				120	474	139	6.73	1.97	171	E-PTC
		CMA075NHEM				120	474	139	6.33	1.85	171	
		CMA075NHEM				120	474	139	6.45	1.89	171	E-PTC

Note 1 : Figures in the table are subject to change without prior notice for performance improvement.

Note 2 :

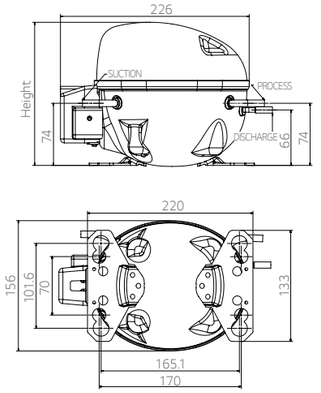
Test condition	Evaporating temperature	Condensing temperature	Ambient temperature
ASHRAE	-23.3°C	54.4°C	32.2°C

NS / CSA



Unit : mm

CMA



Unit : mm

Specification _ Constant speed (R600a)

Application : LBP

Refrigerant	Series	Model	Frequency	Voltage	Motor Type	ASHRAE					Dimension	Remark
						Capacity			EER	COP	Height	
			Hz	V		Kcal/hr	Btu/Whr	Watts	Btu/Whr	W/W	mm	
R600a	CMA	CMA082NHEM	50	220-240	RSCR	127	504	148	6.29	1.84	171	
		CMA082NHEM				127	504	148	6.42	1.88	171	E-PTC
		CMA082NAEM				129	514	150	6.59	1.93	171	
		CMA082NAEM				129	514	150	6.73	1.97	171	E-PTC
		CMA089NHEM				138	546	160	6.10	1.79	171	
		CMA089NHEM				138	546	160	6.21	1.82	171	E-PTC
		CMA089NAEM				139	553	162	6.61	1.94	171	
		CMA089NAEM				139	553	162	6.73	1.97	171	E-PTC
		CMA089NBEM				141	560	164	6.37	1.87	171	
		CMA098NJEM				152	604	177	5.60	1.64	171	
		CMA098NAEM				155	615	180	6.48	1.90	171	
		CMA098NAEM				155	615	180	6.59	1.93	171	E-PTC
		CMA098NHEM				156	618	181	6.22	1.82	171	
		CMA098NHEM				156	618	181	6.32	1.85	171	E-PTC
		CMA098NJEM				156	618	181	6.05	1.77	171	
		CMA110NAEM				167	662	194	6.23	1.82	171	
		CMA110NAEM				167	662	194	6.32	1.85	171	E-PTC
		CMA110NAEM				176	700	205	6.17	1.81	171	
		CMA121NAEM				194	768	225	6.15	1.80	171	
		CMA121NAEM				194	768	225	6.15	1.80	171	
		CMA057NAAG	60	110	RSIR	98	389	114	5.64	1.65	171	
		CMA069NHAM			RSCR	122	485	142	5.99	1.75	171	
		CMA075NHAM				138	546	160	5.94	1.74	171	
		CMA098NARM		110~127	RSCR	183	727	213	6.07	1.78	171	
		CMA089NHDM		220	RSCR	166	659	193	6.08	1.78	171	
		CMA089NHDM				166	659	193	6.18	1.81	171	E-PTC
		CMA098NADM				183	727	213	6.16	1.80	171	
		CMA110NADM				201	798	234	6.11	1.79	171	

Note 1 : Figures in the table are subject to change without prior notice for performance improvement.

Note 2 :

Test condition	Evaporating temperature	Condensing temperature	Ambient temperature
ASHRAE	-23.3°C	54.4°C	32.2°C

Application : LBP

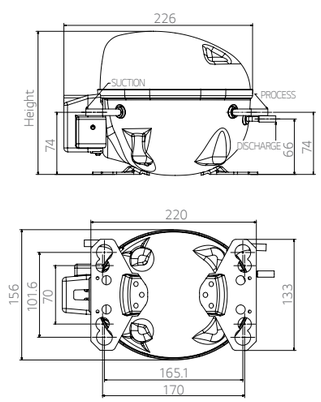
Refrigerant	Series	Model	Frequency	Voltage	Motor Type	ASHRAE					Dimension	Remark
						Capacity			EER	COP	Height	
			Hz	V		Kcal/hr	Btu/Whr	Watts	Btu/Whr	W/W	mm	
R600a	MB	MB62NJEG	50	220~240	RSIR	89	353	103	4.02	1.17	172	
		MB82NJEG				123	488	143	4.65	1.36	177	
		MB98NJEG				145	576	168	4.61	1.35	177	
		MB82NAEM			RSCR	123	488	143	5.49	1.60	177	
		MB82NJEM				123	488	143	4.89	1.43	177	
	MQ	MQ88NAEM		220~240	RSCR	141	560	164	6.29	1.84	180	
		MQ98NAEM				150	596	174	6.30	1.85	180	
		MQ98NAJH		220	CSR	150	596	174	5.96	1.74	180	
	LQ	LQ119NAEM	50	220~240	RSCR	195	774	227	6.36	1.86	203	E-PTC
		LQ119NAEM				195	774	227	6.27	1.84	203	
		LQ125NAEM				202	802	235	6.15	1.80	203	
		LQ140NAEM				224	888	260	6.15	1.80	203	
		LQ140NAEM				228	905	265	6.40	1.87	203	E-PTC
		LQ140NAEM				228	905	265	6.28	1.84	203	
		LQ140NAEH			CSR	228	905	265	6.00	1.76	203	
		LQ119NAQM	60	100~115	RSCR	225	893	262	6.10	1.79	203	

Note 1 : Figures in the table are subject to change without prior notice for performance improvement.

Note 2 :

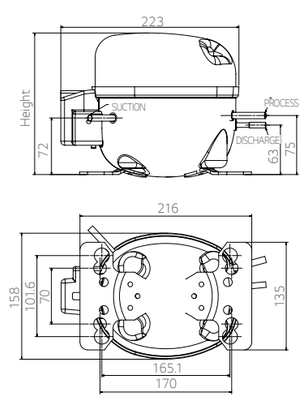
Test condition	Evaporating temperature	Condensing temperature	Ambient temperature
ASHRAE	-23.3°C	54.4°C	32.2°C

CMA



Unit : mm

MB / MQ



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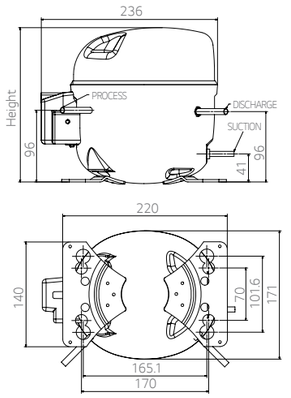


Unit : mm

Specification _ Constant speed (R134a)

Application : HBP

Refrigerant	Series	Model	Frequency	Voltage	Motor Type	Te/Tc = 7.22/54.4°C, RT32°C					Dimension
						Capacity			EER	COP	Height
			Hz	V		Kcal/hr	Btu/Whr	Watts	Btu/Whr	W/W	mm
R134a	CMA	CMA062HAEM	50	220-240	RSCR	520	2,064	605	9.60	2.81	171
		CMA075HAEM				635	2,521	738	9.10	2.67	171
		CMA042HHDM	60	220	RSCR	405	1,608	471	8.70	2.55	161
		CMA053HHDM				514	2,041	598	8.90	2.61	161
		CMA062HHDM				615	2,442	715	8.80	2.58	171
		CMA075HADM				740	2,938	860	8.80	2.58	171
		CMA089HADM				855	3,394	994	8.30	2.43	171
	LX	LX72HAEP	50	220-240	CSIR	600	2,382	698	7.56	2.21	203
		LX86HAEP				710	2,819	826	7.32	2.14	203
		LX110HAEP				910	3,613	1058	7.18	2.10	203
		LX72HAEG			RSIR	630	2,501	733	7.70	2.26	203
		LX86HAEG				745	2,958	866	7.68	2.25	203
		LX110HAEM			RSCR	950	3,772	1,105	7.50	2.20	203
		LX110HACF		115	CSIR	1,040	4,129	1,209	6.68	1.96	203
		LX72HPDP	60	220	CSIR	700	2,779	814	7.20	2.11	200
		LX86HPDP				840	3,335	977	7.25	2.12	200
		LX125HPJP				995	3,950	1.157	6.42	1.88	203
		LX110HPDP				1,000	3,970	1,163	6.30	1.85	200
		LX125HPDP				1,200	4,764	1,395	6.27	1.84	203

Note 1 : Figures in the table are subject to change without prior notice for performance improvement.

Application : HBP

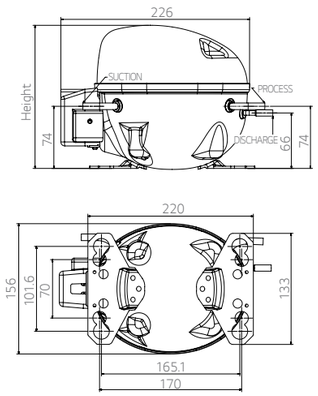
Refrigerant	Series	Model	Frequency	Voltage	Motor Type	ASHRAE					Dimension
						Capacity			EER	COP	Height
			Hz	V		Kcal/hr	Btu/Whr	Watts	Btu/Whr	W/W	mm
R134a	MA	MA42HJEP	50	220-240	CSIR	355	1,409	413	7.83	2.29	172
		MA53HAEF				440	1,747	512	7.50	2.20	172
		MA53HJEF				440	1,747	512	7.50	2.20	172
		MA62HAEF				520	2,064	605	7.51	2.20	177
		MA72HAEP				630	2,501	733	7.05	2.06	177
		MA62HAEG			RSIR	520	2,064	605	7.51	2.20	177

Note 1 : Figures in the table are subject to change without prior notice for performance improvement.

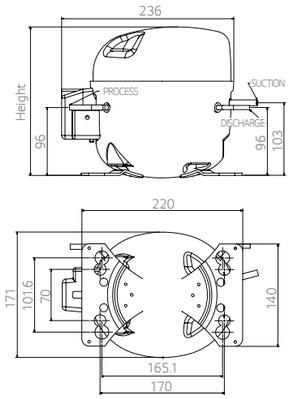
Note 2 :

Test condition	Evaporating temperature	Condensing temperature	Ambient temperature
ASHRAE	7.2°C	54.4°C	35°C

CMA



LX



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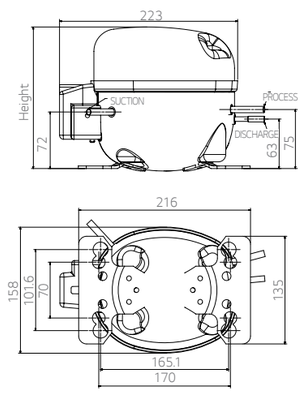


Unit : mm

Unit : mm

Specification _ Inverter (R134a, R600a)

Application : LBP

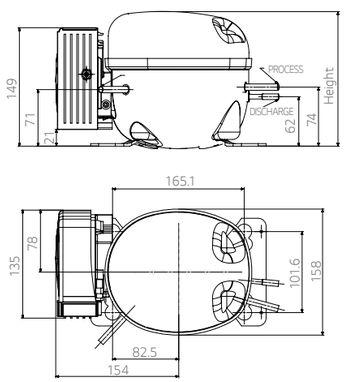
Refrigerant	Series	Model	Speed range	Speed	Operating condition								Dimension
					Te/Tc = -23.3/54.4°C, RT32°C				Te/Tc = -23.3/40.6°C, RT 32.2°C				
					Capacity		EER	COP	Capacity		EER	COP	Height
			rpm	rpm	Btu/hr	Watts	Btu/Whr	W/W	Btu/hr	Watts	Btu/Whr	W/W	mm
R134a	BMA	BMA050LAMV	1,200~4,500	4,500	760	223	-	-	826	242	-	-	172
				3,000	507	148	5.99	1.76	551	161	7.50	2.20	
				1,800	323	95	6.33	1.86	351	103	7.93	2.32	
				1,500	264	77	6.34	1.86	287	84	7.94	2.33	
		BMA069LAMV	1,200~4,500	4,500	1,049	307	-	-	1,140	334	-	-	172
				3,000	699	205	5.99	1.76	760	223	7.50	2.20	
				1,800	446	131	6.33	1.86	485	142	7.93	2.32	
				1,500	364	107	6.34	1.86	396	116	7.94	2.33	
		BMA069LHMV	1,200~4,500	4,500	1,049	307	-	-	1,140	334	-	-	172
				3,000	699	205	5.66	1.66	760	223	7.17	2.10	
				1,800	446	131	6.00	1.76	485	142	7.60	2.23	
				1,500	364	107	6.05	1.77	396	116	7.65	2.24	
		BMA082LAMV	1,200~4,500	4,500	1,250	366	-	-	1,359	398	-	-	180
				3,000	833	244	5.99	1.76	906	265	7.50	2.20	
				1,800	540	158	6.33	1.86	587	172	7.93	2.32	
				1,500	452	132	6.40	1.88	492	144	8.00	2.34	
		BMA082LBMV	1,200~4,500	4,500	1,250	366	-	-	1,359	398	-	-	180
				3,000	833	244	6.04	1.77	906	265	7.55	2.21	
				1,800	540	158	6.38	1.87	587	172	7.98	2.34	
				1,500	452	132	6.50	1.90	492	144	8.10	2.37	
	BCA	BCA018LAMV	2,400~4,200	4,200	171	50	3.75	1.10	-	-	-	-	97.7
				3,600	143	42	4.24	1.25	-	-	-	-	
				2,400	85	25	4.26	1.25	-	-	-	-	
		BCA018LAVV	2,400~4,200	4,200	171	50	3.75	1.10	-	-	-	-	97.7
				3,600	143	42	4.24	1.25	-	-	-	-	
				2,400	85	25	4.26	1.25	-	-	-	-	

Note 1 : Figures in the table are subject to change without prior notice for performance improvement.

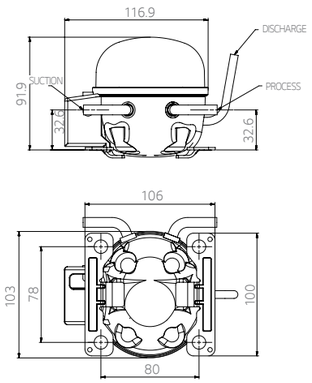
Note 2 :

Test condition	Evaporating temperature	Condensing temperature	Ambient temperature
ASHRAE	-23.3°C	54.4°C	32.2°C

BMA



BCA



Unit : mm

Application : LBP

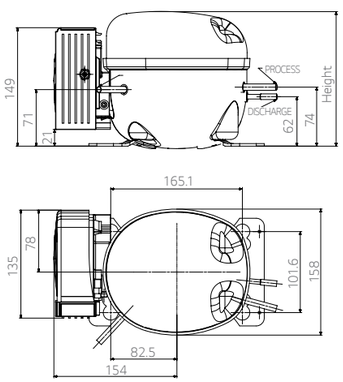
Refrigerant	Series	Model	Speed range	Speed	Operating condition								Dimension
					Te/Tc = -23.3/54.4°C, RT32°C				Te/Tc = -29/31°C, RT 25°C				
					Capacity		EER	COP	Capacity		EER	COP	Height
			rpm	rpm	Btu/hr	Watts	Btu/Whr	W/W	Btu/hr	Watts	Btu/Whr	W/W	mm
R600a	BMA	BMA098NAMV	1,200~4,500	4,500	915	268	-	-	801	234	-	-	172
				3,000	627	184	6.76	1.98	548	161	7.77	2.28	
				1,800	376	110	7.10	2.08	329	96	8.17	2.39	
				1,500	318	93	6.80	1.99	278	81	7.82	2.29	
		BMA098NHMV	1,200~4,500	4,500	915	268	-	-	801	234	-	-	172
				3,000	627	184	6.46	1.89	548	161	7.43	2.18	
				1,800	376	110	6.80	1.99	329	96	7.82	2.29	
				1,500	318	93	6.50	1.90	278	81	7.48	2.19	
		BMA121NAMV	1,200~4,500	4,500	1115	327	-	-	976	286	-	-	172
				3,000	810	237	6.66	1.95	709	208	7.66	2.24	
				1,800	486	142	7.00	2.05	425	125	8.05	2.36	
				1,500	392	115	6.90	2.02	343	100	7.94	2.32	
	BMG	BMG069NAMV	1,200~4,500	4,500	566	166	-	-	497	146	-	-	139
				3,000	443	130	7.02	2.06	388	114	8.12	2.38	
				1,800	265	78	7.35	2.15	233	68	8.50	2.49	
				1,500	221	65	7.29	2.14	194	57	8.42	2.47	
		BMG069NHMV	1,200~4,500	4,500	566	166	-	-	497	146	-	-	139
				3,000	443	130	6.33	1.86	388	114	7.32	2.15	
				1,800	265	78	6.62	1.94	233	68	7.66	2.24	
				1,500	221	65	6.56	1.92	194	57	7.57	2.22	
		BMG089NAMV	1,200~4,500	4,500	731	214	-	-	642	188	-	-	139
				3,000	570	167	7.10	2.08	502	147	8.31	2.44	
				1,800	341	100	7.43	2.18	300	88	8.70	2.55	
				1,500	287	84	7.37	2.16	249	73	8.63	2.53	
		BMG089NHMV	1,200~4,500	4,500	731	214	-	-	641	188			139
				3,000	571	167	6.39	1.87	501	147	7.48	2.19	
				1,800	343	100	6.71	1.96	300	88	7.80	2.30	
				1,500	285	84	6.63	1.94	250	73	7.76	2.27	
		BMG110NAMV	1,200~4,500	4,500	884	259	-	-	775	227			139
				3,000	681	200	7.02	2.06	597	175	8.16	2.39	
				1,800	420	123	7.27	2.13	369	108	8.45	2.48	
				1,500	350	103	7.35	2.15	307	90	8.55	2.51	
		BMG110NHMV	1,200~4,500	4,500	884	259	-	-	775	227			139
				3,000	681	200	6.32	1.85	597	175	7.35	2.15	
				1,800	420	123	6.54	1.92	369	108	7.60	2.23	
				1,500	350	103	6.62	1.94	307	90	7.70	2.26	
	BCA	BCA030NAMV	2,400~4,200	4,200	210	61	4.84	1.41	-	-	-	-	97.7
				3,600	184	54	4.84	1.41	-	-	-	-	
				2,400	116	34	4.11	1.2	-	-	-	-	

Note 1 : Figures in the table are subject to change without prior notice for performance improvement.

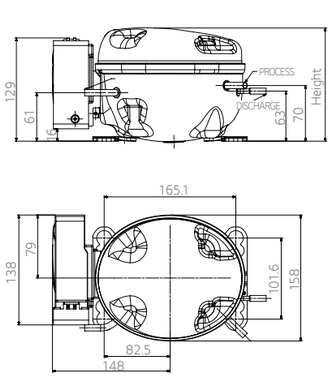
Note 2 :

Test condition	Evaporating temperature	Condensing temperature	Ambient temperature
ASHRAE	-23.3°C	54.4°C	32.2°C

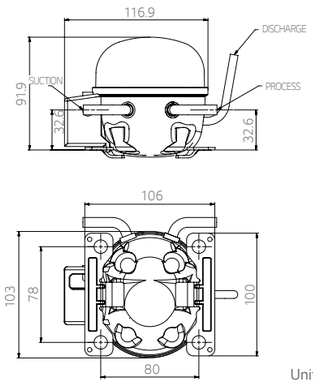
BMA



BMG



BCA



Unit : mm

Specification _ Controller

Controller

Contents	Detail
Rated input power	220~240 Vac
Maximum input current	3.0A
Maximum input power	260W
Operating compressor Hz	20~75Hz
Compressor connection color	Black(U)/Blue(V)/Yellow(W)
Ambient operating temperature	-5~43°C
Storage temperature	-25~85°C
Max. storage relative humidity	85%

Noise Filter

Contents	Detail
Inductance	4A, 26mH

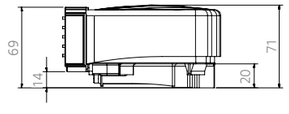
Reactor

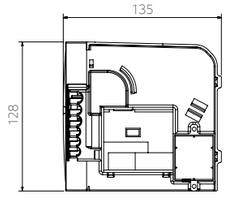
Contents	Detail
Inductance	0.8mH
Wire diameter	0.8mm
Maximum input current	5A

OLP

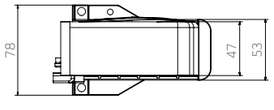
Contents	Detail
Type	External type (3/4")

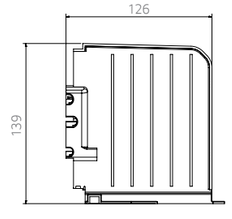
Attached Controller





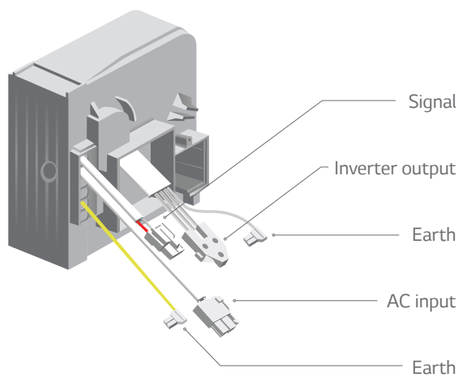
Detached Controller

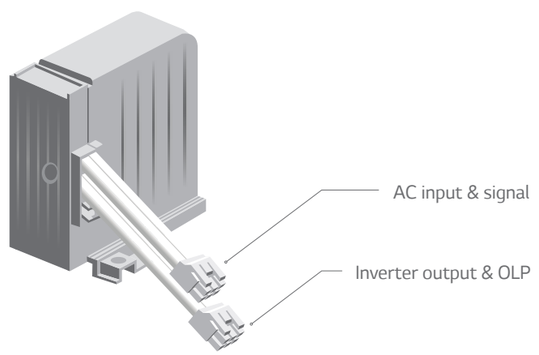




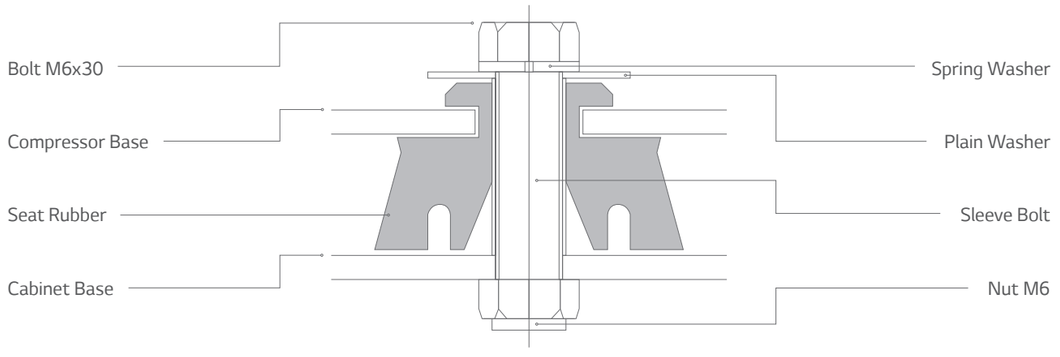
Unit : mm

Attached / Detached Controller





Mounting

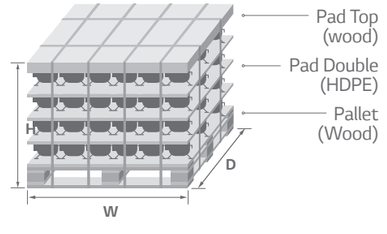


Packing & Container Stuffing Quantity

Unit : mm

		TS	NS	CMA	M	L	BMG	BMA	BCA
Dimension	W	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
	D	800	800	800	800	800	800	800	800
	H (Max)	1,030	1,010	1,087	900	1,020	916	916	940
Q'ty (EA)		150 (5*5*6)	125 (5*5*5)	90 (3*6*5)	72 (3*6*4)	60 (3*5*4)	90 (3*6*5)	72 (3*6*4)	280 (7*5*8)

Stacking : 3 pallets max. compressor
Height : Based on wooden type



Linear Compressor

Product Range

Refrigerant	Test Condition	Model	Capacity (w) 0	100	200	300	400
R600a	ASHRAE	FL Displacement [cc]			10.2	12.4	15.0 16.5
		FM Displacement [cc]			8.8	10.2	
R134a	ASHRAE	FL Displacement [cc]				7.5	9.0

Note :

Test condition	Evaporating temperature	Condensing temperature	Ambient temperature
ASHRAE	-23.3°C	54.4°C	32.2°C

Nomenclature

F L C 150 N A M A

Product type
B : BLDC
C : Constant Speed
F : Linear

Size
L : Large
M : Medium
S : Small

Generation code
(A-Z)

Capacity
Displacement
(ex : 098=9.8cc)

Refrigerants
L : R134a
N : R600a

Improvement order
(A, B, C, D...)

Rated voltage & frequency
M : 220-240V, 50/60Hz
N : 115-127V, 50/60Hz

Motor Control Method
A : A-Control
E : E-Control
V : Inverter

Specification (R600a, R134a)

Application : LBP

Refrigerant	Model	Magnet	Rate Motor Type		Performance Characteristic								Noise [dBA]
					ASHRAE	ISO	REF						
			Voltage	Frequency	Capa' [W]	EER	Capa' [W]	EER					
			V	Hz	CCR[1] 100%	CCR 50~100%	CCR 100%	CCR 100%	CCR 90%	CCR 80%	CCR 70%	CCR 60%	
R600a	FLA150NBMA	Nd	220~240	50/60	330	8.7	280	7.2	8.1	8.1	8.1	8.1	37.5
	FLA102NAMA	Nd	220~240	50/60	230	8.7	190	7.3	8.2	8.2	8.2	8.2	37.5
	FLB165NBMA	Nd	220~240	50/60	350	9.1	240	8.1	8.2	8.2	8.1	8.0	38.0
	FLB124NAMA	Nd	220~240	50/60	280	9.1	210	8.1	8.2	8.2	8.1	8.0	38.0
	FLC150NAMA	Ferrite	220~240	50/60	330	8.7	280	7.9	8.1	8.1	8.1	8.0	38.0
	FLC124NAMA	Ferrite	220~240	50/60	280	8.7	250	7.9	8.1	8.1	8.1	8.0	38.0
	FLC102NAMA	Ferrite	220~240	50/60	230	8.7	210	7.9	8.1	8.1	8.1	8.0	38.0
	FLD165NAMA	Nd	220~240	50/60	350	9.4	230	8.5	8.6	8.6	8.5	8.4	37.5
	FLE165NAMA	Ferrite	220~240	50/60	350	9.1	240	8.2	8.2	8.2	8.2	8.2	37.5
	FMA102NAMA	Nd	220~240	50/60	-	9.2	-	-	-	-	-	-	37.0
	FMC088NAMA	Nd	220~240	50/60	-	8.2	-	-	-	-	-	-	37.0
R134a	FLA075LANA	Nd	100~135	50/60	295	8.1	255	7.9	7.9	7.9	8.0	8.5	39.0
	FLB075LANA	Nd	100~135	50/60	330	8.4	275	8.1	8.1	8.1	8.2	8.2	39.0
	FLD090LANA	Nd	100~135	50/60	370	8.7	315	8.4	8.4	8.5	8.5	8.4	39.0

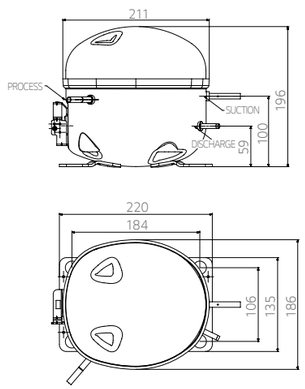
1) CCR(Cooling Capacity Ratio) : % Modulation comparing to max. cooling capacity

Note 1 : Figures in the table are subject to change without prior notice for performance improvement.

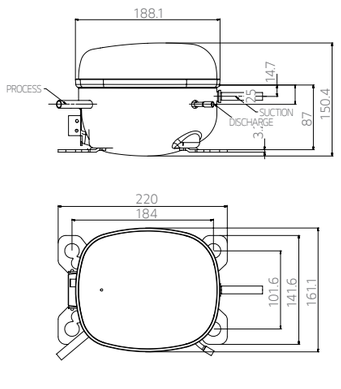
Note 2 :

Test condition	Evaporating temperature	Condensing temperature	Ambient temperature
ASHRAE	-23.3°C	54.4°C	32.2°C
ISO	29°C	31°C	
REF	26°C	38°C	

FL

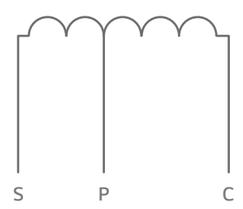


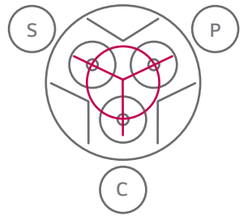
FM



Unit : mm

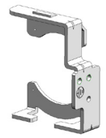
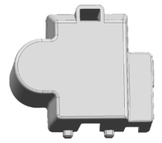
Wiring Diagram





P : Power Line
S : Save Line
C : Common Line

Accessory Part

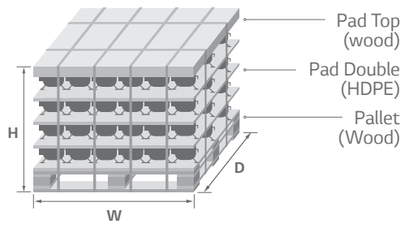
NO	1	2	3
Parts	Protector	L/Shell	Cover PTC
FLC150NAMA	 3740CL0002A	 AHU73451718	 3550JA2110B

Packing & Container Stuffing Quantity

Unit : mm

		Linear
Dimension	W	1,120
	D	900
	H (Max)	950
Q'ty (EA)		60 (3*5*4)

Stacking : 3 pallets max. compressor
Height : Based on wooden type



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