



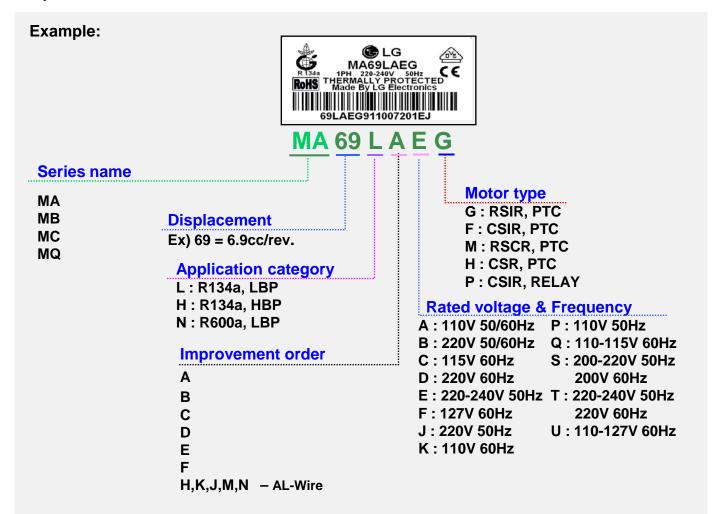
Refrigerants: R 134a R 600a



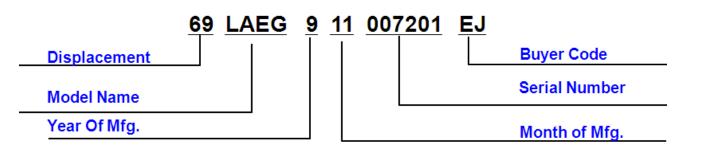
Hermetic Compressors



Compressor Name Code:

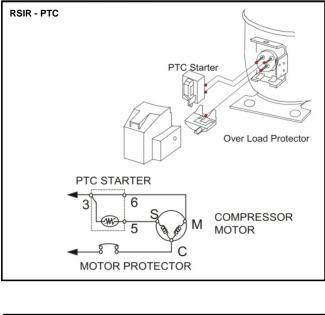


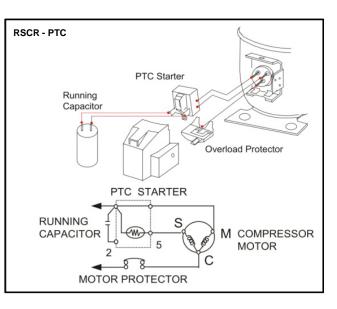
Serial Number:

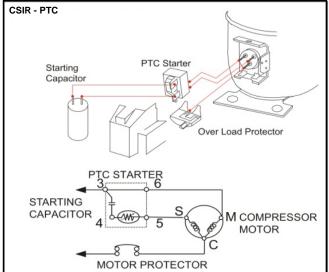


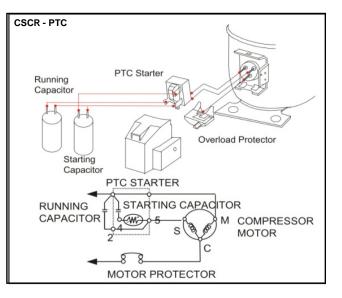


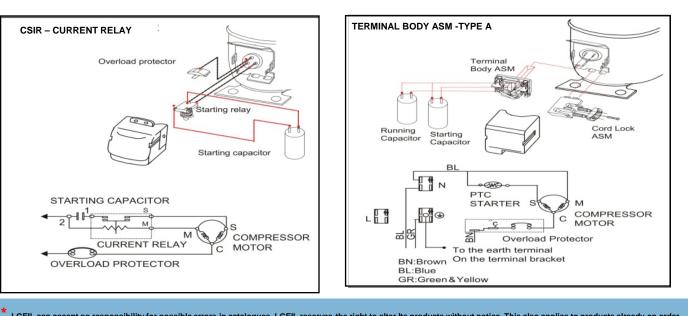
Electrical Wiring Diagrams :





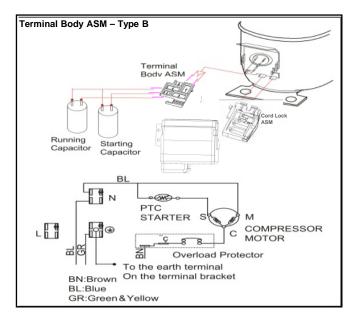


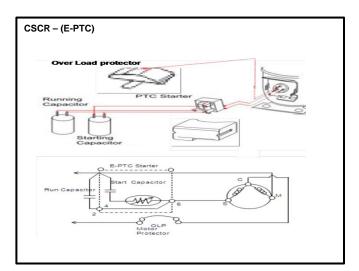






Electrical Wiring Diagrams :



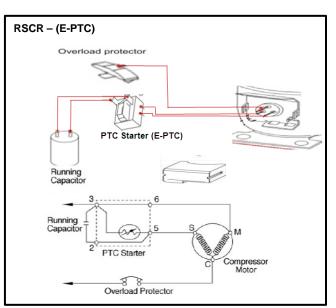


Motor Types

	Overload	Starting	Device	Сара	acitors
Motor Type	Protector	PTC Starter	Current Relay	Starting	Running
RSIR	Yes	Yes			
RSCR	Yes	Yes			Yes
CSIR	Yes	Yes	Yes	Yes	
CSCR	Yes	Yes		Yes	Yes

Motor Starting Torque Classification

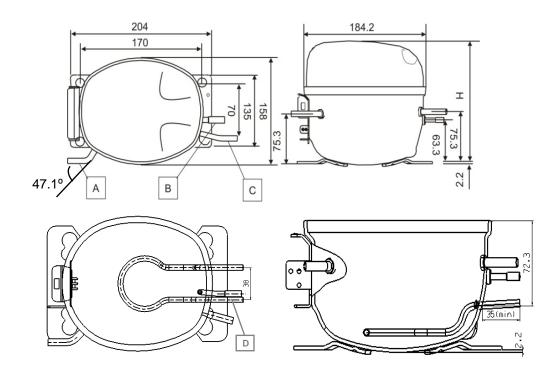
Туре	Description
LST	Low Starting Torque For RSIR/RSCR motor in LBP / HBP model Suitable for capillary application
HST	High Starting Torque For CSIR/ CSCR motor in LBP / HBP model Suitable for expansion valve application





Compressor Mounting Details:

MA/MC/MQ



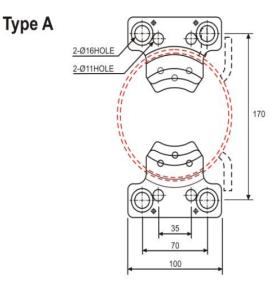
Compressor Pipe Dimensions:

Pipe	OD (mm)	ID (mm)	T(mm)	Material	Remarks
Suction (A)	7.94	6.54	0.7	copper	Suction Pipe bend as per the customer
()		6.10	0.9	copper	requirement
Discharge (B)	6.7	5.00	0.85	copper	
	7.94	6.54	0.7	copper	
Process (C)	7.94	6.10	0.9	copper	
Oil Cooling (D)	6.35	4.95	0.7	copper	

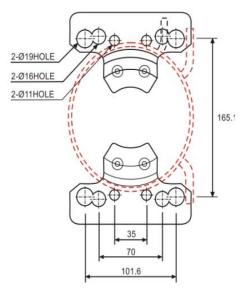
Compressor Height:

Series	Height (H) (mm)
MA42/45/53	172
MA57/62/69/72/88 MA42LH*/MA53LH*/ MA45LH*	177
MC53/57/ MA62LH*/ MA69LH* / MA72LH*	180
MQ88/98	100

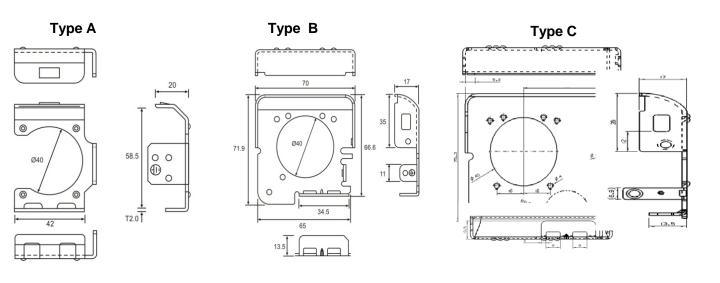
Mounting Bracket:



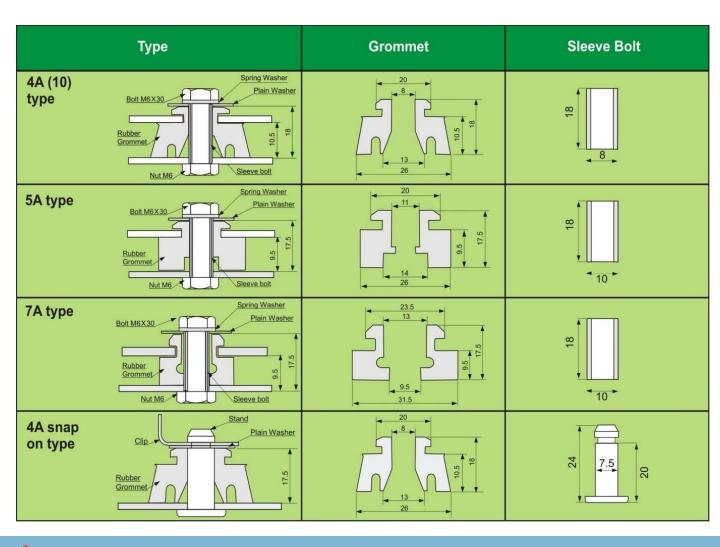
Type B



Terminal Protector:



Mounting Accessories:





Compressors

R134a		Performance data sheet:	nce (data	shee	ij														-					
				ΡE	RFORMAN	CE (ASHR	AE -23.3°C	PERFORMANCE (ASHRAE -23.3°C/54.4°C @ 50 Hz)	50 Hz)	PER	FORMANC	E (ASHRA	E -23.3°C	PERFORMANCE (ASHRAE -23.3°C/54.4°C @ 60 Hz)	(ZH 0		ELECT	ELECTRICAL PARTS			OIL				;
gerai gerai	Voltage	Freq Model	Displa-	Cooli	Cooling Capacity			<u> </u>		ပိ	Cooling Capacity		<u> </u>	<u> </u>			Starting	Matar	Capacitor				Cooling	Compressor Heidht	Net Weight
	S			kcal/h	N N	Btu/h	HP (W)		EER Btu/Wh	kcal/h	>	Btu/h	(VV)	COP W/W Bt	EER Btu/Mh Mc	Motor Type	Device (PTC)	5	Starting (µF/ Surge ((Voltage)	Running / (µF/Surge Voltade)	Viscosity (cst)	Cc)		(mm)	(kg)
		MA42LFJM	4.2		\vdash	365 0.1		H	3.77	•	•				- RSC		QP2-33MD2	4TM158RFB		5/400	22	220	ST	172	8.1
		MA42LBJG	4.2	96	_			-	3.97	1	•	1			- RSIF		QP2-33MC1	4TM158RFB	•		22	220	ST	172	8.1
		MA42LUG	4.2	+		1	-	4	3.80	•	•	•			- RSI		QP2-33MC1	DRB19T61A1	•		22	220	ST	172	8.2
		MA42LMJG	4.2	_			_	-	3.80	•	•	•			- RSIF		QP1-33MC1	DRB19T61A1			22	220	ST	172	8.2
		MA42LKJG	42	ł			0.154 99	9 1.2	3.97	•	•				- RSIF		0P2-33MC1	4TM174RFB		-	53	220	ST	172	8.2 7.1
			4.Z 1.5		ł	t	0.15/1 10		3.11 3.78				, ,				0P2-33MD2	41M100LFB ATM213SFB		5/400	77	022	ب ا م	111	6.1 8.3
		MA45LCJM	4.5		ł	T		12	3.97						RSC	~	QP2-33MD2	4TM149NFB	•	5/400	3 22	220	st o	172	8.3
		MA45LCJG	4.5	-	H		-		3.78	•	•	•			- RSI		QP2-33MC1	4TM213SFB	•		3	220	ST	172	8.3
		MA45LDJM	4.5	66	115 3	393 0.	0.154 99	9 1.2	3.97	1	•	•	•		- RSC		QP2-33MD2	4TM158RFB	•	5/400	52	220	ST	172	8.2
		MA45LFJM	4.5			r		-	4.31	•	•				- RSC		QP2-33MD2	DRB17R61A1		5/400	82 8	220	s s	172	6.0 0
	220	MA45LHJM MA53LAIM	4.5 5.3	102	ł	405 0.	0.155 54 94 0.105 118	1.3	4.31	•	•	•			- RSC	RSCR-PTC 0	QP2-33MD2 QP2-33MD2	4TM213SFR		5/400	27 66	220	<u>v v</u>	1/1	8.8
		MA53UJG	5.3	H	ŀ	E	Ŀ	ŀ	4.21	1	•	•			- RSI		220MC	DRB20T61A1		-	1 22	220	ST	177	8.9
		MA53LBJG	5.3		145 4				4.10	•	•	•			- RSII		QP2-33MC1	4TM213SFB			22	220	ST	172	8.2
		MA53LHJG	5.3	+	+	1	4	+	4.21	1	•	•					P220MC	DRB20T61A1	•		22	220	ST	177	8.8
		50 MA5/LBJG	5.7		160 5 7 6 7 6	548 0.1 548 0.1	0.215 130	112	4.21	•	•				- KSI		QP2-33MC1 OD2-33MD2	41M2321FB			22 8	220	s I	1/2	9.1 8.2
			5.7		ł	Т		ł	4.21			•			- RSI		P220MC	4TM213SFB		0010	22	220	st o	172	0.6
		MA57LHJG	5.7	H	160 5	548 0.1	0.215 130	ŀ	4.21	1	•	•			- RSI		QP2-33MC1	4TM213SFB			22	220	ST	177	9.0
		MA57LDJM	5.7					-	4.61						- RSC	0	QP2-33MD2	4TM213SFB	,	5/400	22	220	ST	177	8.5
		MA62LBJG	6.2	150		596 0.3	0.234 134	-	4.44	•	•				- RSI		QP2-33MC1	DRB24S61A1			22	220	ST/OC	177	9.2
		MA62UJG	6.2	150	174 5			-	4.44	•	•				- RSI		P220MC	DRB24S61A1			22 8	220	ST	177	9.1
	070-040		6.2 6.3	-	ł	Т	0.234 122	1.4	4.00	•					- Rod		QP2-33MD2 OP2-33MC1	ATM213SEB	•	5/400	77	027	STINC	111	9.2
	220	MA62LHJG	6.2	÷	H		Ľ	÷	4.44	•	•						QP2-33MC1	DRB24S61A1			22	220	ST	180	9.0
e1		MA62LCEG	6.2	150			0.234 127	7 1.4	4.69		•	•			- RSI	RSIR-PTC Q	QP2-33MC1	4TM213SFB			22	220	ST/OC	177	9.1
134	220-240	MA69LAEM	6.9	-	+		-		4.61	1	•	•	•		- RSC		QP2-33MD2	4TM213SFB		5/400	22	220	ST/OC	177	9.1
ย		MA69LHEP	6.9		198 6		0.265 159	12	4.24	•	•				- CSI	CSIR-Relay 0	QL2-3.3B3 OL2-3.3B3	4TM232TFB	50/275 50/275		52	220	C C	180	8.2
	220	MA69LCJM	6.9	-	-				4.71	•	•	• •			- RSC		QP2-33MD2	41141232111D DRB19T61A1		5/400	22	220	ST/OC	177	9.1
	220-240	MA69LHEG	6.9		197 6		0.264 152		4.41	•	•	•	•	•	- RSI		QP2-33MC1	4TM232TFB		•	22	220	ST	180	9.5
	220	MA72LBJG	7.2	180		715 0.			4.41	•	•				- RSI	RSIR-PTC 0	QP2-33MC1	4TM232TFB			88	220	ST/OC	177	9.2
		MA88LAEP	7.7 8.8					21 12	4.11	•	•	• •			- CSI		QL2-5.55	41M2321FB	50/275	• •	22	220	5 C	177	6.6 6.3
		MA53LATG	5.3	H	ŀ		L	ŀ	4.00	146	169	580	ŀ	ŀ	4.4 RSIF		QP2-33MC1	DRB26T61A1			22	220	ST	172	8.4
			5.7	138	160 5		0.215 134		4.09	170	197	675					P2-33MC1	DRB20T61A1			22	220	ST	177	8.3
		50/60 MA62LATG*	6.2	+	ł	1	-	12	3.97	180	209	÷	ł	+			QP2-33MC1	4TM283RFB	•	•	828	220	ST ST	177	9.0
		MA88I ATP*			ŀ	933	0.367 24	-	3.87	264	306	Ŀ	232	. T	4.5 CSIF		GI 2-5 55B3		40~60/275		3 %	220	5 C	177	61
	127	60 MA53LBFH*	5.3					•	•	149	173					CSCR-PTC P	PGR8MB		100/160	14/220	22	220	ST	177	8.2
		MA53LAEM	5.3	140	-		_	1.6	5.34	•	•	•	,		- RSC		QP2-33MD2	4TM158RFB	•	5/400	22	220	ST	172	8.2
Ы N		MA53LHEM	5.3	140		T	0.218 104	-	5.34	•	•				- RSC		P2-33MD2	DRB19T61A1	5/400		52	220	ST	177	9.0
33-	220-240	MC53LAEM	5.3	139	162 5	552 U.		0 1 1 2	5.30 5.76	•	•	• •			- RSC	RSCR-PTC 0	QP2-33MD2 QP2-33MD2	41M158FFB		5/400	2 6	220	N IS	180	8.1 8
IH a		MC57LAEM	5.7	147	H		0.229 106	ŀ	5.50	•	•	•			- RSC		QP2-33MD2	4TM158RFB		5/400	: p	220	ST	180	9.5
187		MC57LBEM	5.7					-	5.50	1	•				- RSC		QP-33MD2	4TM1166LFB		5/400	10	220	ST	180	9.0
			6.2	+	+	1	-	+	5.42	•	•				- CSC		P330MB	4TM174TFB	30/300	5/400	10	220	SI	180	9.6
	220	50 MA57LBJM	5.7	-	-				5.28	•	•	•			- RSC	RSCR-PTC 0	QP2-33MD2	4TM158RFB		5/400	22	220	ST	177	9.1 o c
		MA53HAEF	4 F	440	512 1	1747 0.1	0.686 233	3 2.2	7.50	•					- CSF		P220	4TM213SFB	50/275		22	220	2 12	172	8.6
0			5.3	-	-		-		7.50	1	•						P330	4TM213SFB			22	220	СĽ	172	8.6
18H	220-240	50 MA57HAEG	5.7	_	-		_	2	7.50	1	•				- RSI		P330	4TM276VFB	•		22	220	с С	177	9.5
		MA62HAEG	6.2 6.2	520	605 20 605 20	2064 0.1	0.811 275	15 2.2 15 2.2	7.51	•	•	•			- RSI	RSIR-PTC P	P330 OP2.33MB3	4TM283RFB	10~60/230		3 52	220	с С	177	9.3 8.2
		MA72HAEP	7.2	-	ŀ		-	i ~i	7.05	•	•	•			- CSI		QL2-5.55B3		50/275		32	220	2 22	177	8.3
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* LGEIL can accept no responsibility for possible errors in catalogues. LGEIL reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub sequential changes being necessary in specifications already agreed.

Note: ST: Static Cooled, OC: Oil Cooled, FC - Fan Cooled.



R600a - Performance data sheet:

uc			i		PERF(PERFORMANCE (ASHRAE -23.3°C/54.4°C @ 50 Hz)	(ASHRAE	-23.3°C/54	1.4°C @ 5((ZH (PERFORM	RMANCE	(CECON	AF -25°C	MANCE (CECOMAF -25°C/55°C @ 50 HZ)	Hz)	ELECT	ELECTRICAL PARTS			OIL				:
ite	Voltage	Freq .	Dis	Uispla-	Cooling (Cooling Capacity		1			Cooling	ng Capacity					Charline	Matas	Capacitor	or			ooling C		Net
60 Applio			Cen (C	(CC) kca	kcal/h W	/ Btu/h	ЧН	Power (VV)	COP W/W	EER Btu/Mh	kcal/h	W	Btu/h Pc	Power CC (N)	COP EER W/W Btu/Wh	R Motor Type	e Device (PTC)	Protector (OLP)	Starting F (µF/ Surge (µ Voltage) /	Running V µF/Surge Voltage)	fiscosity (cSt)	Oty (cc)	Type	Height (mm)	vveignt (kg)
009	000	MQ98NAJH		9.8 15	150 174	4 596	0.234	100.0	1.7	5.96	112.5	131	447	97 1.	1.3 4.6	CSCR-PTC	P330MB	4TM149NFB	30/300	5/400	10	220	ST	180	9.5
ਭਬ	770	MQ98NBJH		9.8 15	150 174	4 596	0.234	100.0	1.7	5.96	112.5		447	97 1.	1.3 4.6	CSCR-EPTC	PTHTM330MB3	4TM149NFB	30/300	5/400	10	220	ST	180	9.5
0		MQ98N	98NAEM 9.	9.8 15	174	4 596	0.234	1 94.5	1.8	6.30	112.5		447	92 1.	1.4 4.9	RSCR-PTC	QP2-33MD2	4TM149NFB		5/400	10	220	ST	180	9.5
18.		50 MQ88N	Q88NAEM 9.	9.0 14	141 164	4 560	0.220	0.08 (1.8	6.29	106	123	420	86 1.	1.4 4.9	RSCR-EPTC	PTHTM470MD2	4TM149NFB	•	5/400	10	220	ST	180	9.5
	220-240	MC	288NAEH 9.	9.0 14	141 164	4 560	0.220) 94.0	1.7	5.96	106		420	91 1.	1.3 4.6	CSCR-EPTC	PTHTM330MB3	4TM149NFB	30/300	5/400	10	220	ST	180	9.5
		MQ62NAEM		6.2 88	88.6 103	3 352	0.138	61.7	1.7	5.70	66	17	264	60 1.	1.3 4.4	RSCR-EPTC	PTHTM470MD2	4TM134KFB	•	5/400	10	220	ST	180	9.5
		MB82NAEM		8.2 12	123 143	3 488	0.192	2 89.0	1.6	5.49	92.25	107	366	86 1.2	.2 4.2	RSCR-PTC	220MD2	4TM149NFB	•	5/400	10	220	ST	177	9.0
Noto: CT.	Ctatio Coo	Note: Ptetic Cooled OC: Oil Cooled FC For Cooled	CT below		100																				

Note: ST: Static Cooled, OC: Oil Cooled, FC - Fan Cooled.

Conversions:

1 Watt = 3.41 Btu/hr 1 Watt = 0.86 Kcal/hr 1 Kcal/hr = 3.97 Btu/hr 1 cu.ft = 28.32 liters



Applications:

Low Back pressure (LBP):

These models are used to work in low evaporating temperature ranges, these are suitable for commercial refrigeration, deep freezers and house hold refrigerators as well.

•Deep freezer

Refrigerator

Ice cube Machine

Laboratory Appliance

•Dehumidifier

Compressor Selection Guide:

Refrigerator:

Application	Capa (L)	Compressor
DC	170-190	MA42LFJG/ MA42LHJG/ MA42LJJG/ MA42LMJG
	210-230	MA53LBJG MA53LHJG
	280	MA57LBJG/ MA57LHJG
FF	300-350	MA62LBJG/MA62LHJG
	390	MA69LAEG/MA69LHEG
	400	MA69LAEP
	360-450	MA72LBJG/MA72LHEG

Deep Freezer:

Capa (L)	Compressor
70-80	MA42LFJG / MA42LMJG/ MA42LHJG / MA42LJJG
250	MA57LBJG / MA57LHJG / MA62LBJG / MA62LHJG
300	MA69LAEP
350	MA72LAEP
400	MA88LAEP

•Panel Cooler •Water Chiller

•Milk Cooler

•Refrigerated Air Dryer

HBP Applications:

These models are suitable to work under the conditions exposed to high evaporating temperature ranges. These type of compressors are suitable for the applications such as dehumidifiers. •Beverage Cooler/Bottle Cooler

Compressor Selection Guide:

Application	Сара	Compressor
Water Cooler	20 LPH	MA53HAEF
	100-120 Ltrs	MA53HAEF
Bottle Cooler	150-200 Ltrs	MA62HAEG
	220-250 Ltrs	MA72HAEP / MA88HAEP
	110 Ltrs (2 Case)	MA53HAEF
Visi Cooler	150 Ltrs (4 Case)	MA62HAEG
	250 Ltrs (7 Case)	MA72HAEP / MA88HAEP



Applications:

Evapora	ting Temperature Range
LBP	-30°C to -5°C
НВР	-5°C to +15°C

Oil types:

All the compressors are charged with moisture free oil.

OIL Types	
R 134a	Polyole Ester Oil
R 600a	Mineral Oil

Safety :





Install the refrigerant, lubricant oil and electrical componeent (Capacitor and controller) specified by compressor manufacturer

It can cause fire or electrical shock



Connect the electrical wiring correctly in accordance with manufacturer's instruction. It can cause fire or electrical shock



Compressor must be grounded whenever power is supplied. It can cause electrical shock



Before servicing, always remove the power plug from the outlet. It can cause electrical shock



Before welding, always remove refrigerant in the compressor. Do not operate compressor in the air or vaccum status. It can cause explosion.



Do not touch the compressor with bare hands during operation or after stopping instantly. It can cause get burnt.

Safety Approval:



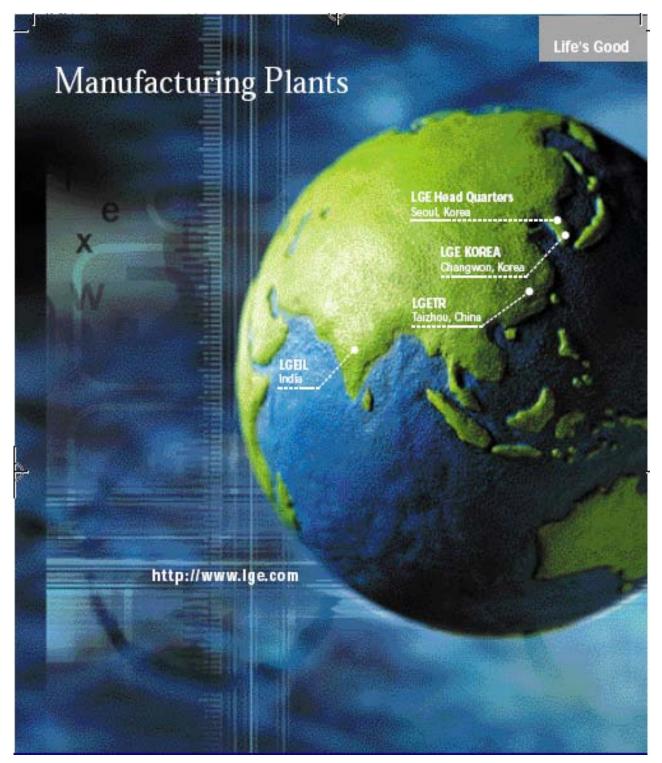
VDE approved model





TUV approved model





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