DAEWOO

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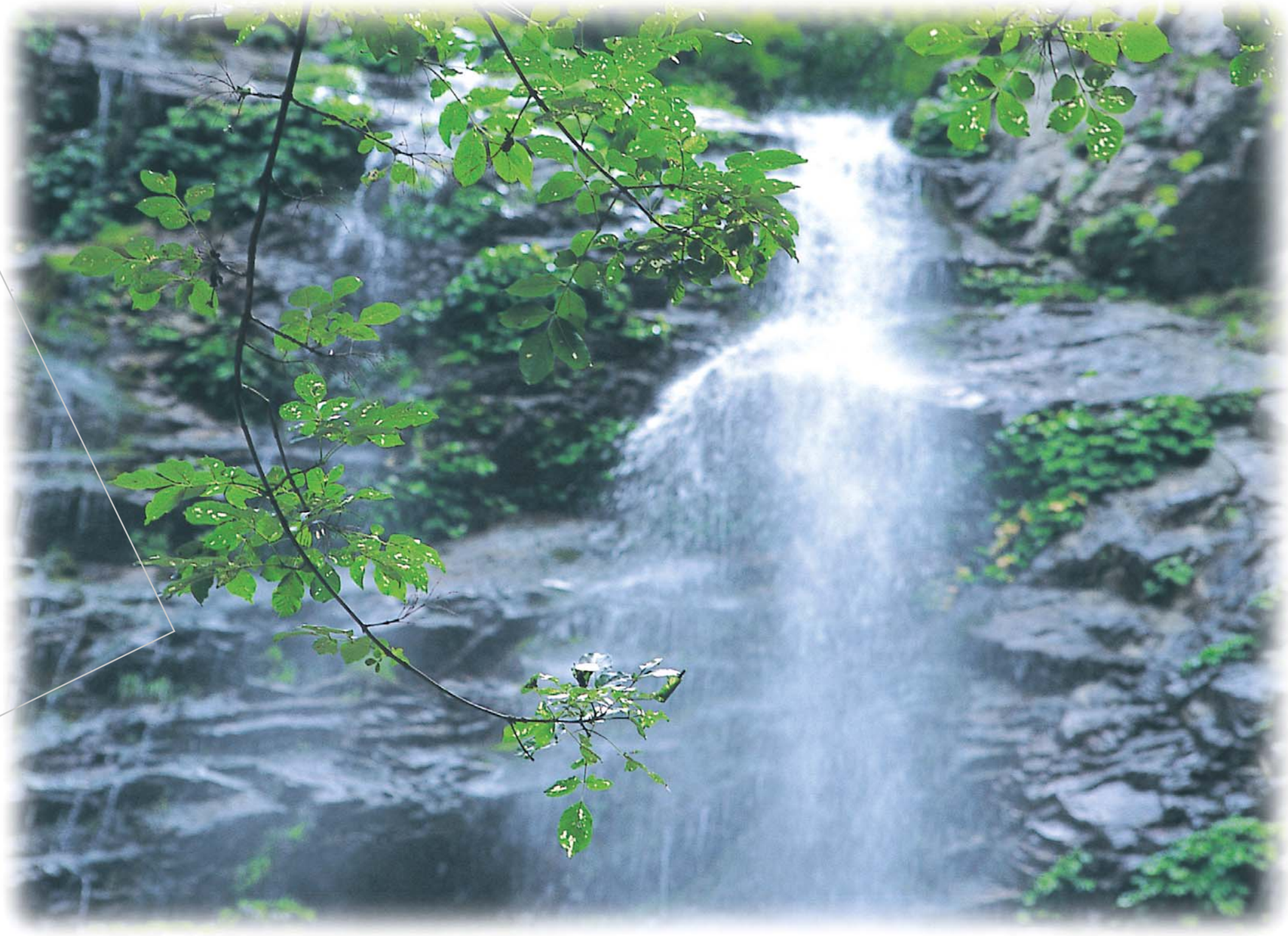
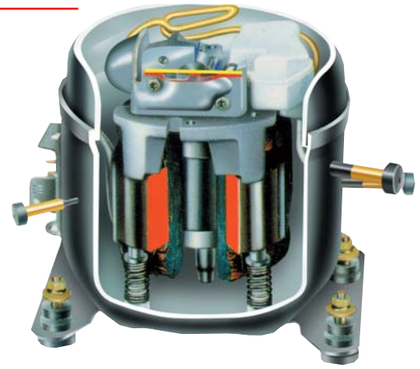
C o n t e n t s



Convenience, Energy Efficiency, Clean Environment

Daewoo Electronics Co., Ltd., its own philosophy is to provide consumers with convenience to use, environment friendly protecting any kind of pollution and energy saving through highly qualified products in all our lines.



Model Identification

H	S	L	2 1	Y E	-	5	B
①	②	③	④	⑤		⑥	⑦

① Refrigerant

H : R134a
No marking : R12

② Motor type

100V Series	220V Series
F : RSIR	S : RSIR
E : RSCR	P : RSCR
C : CSIR	K : CSIR
B : CSR	D : CSR

③ Application

L : L.B.P
H : H.B.P

④ Grade of Cooling Capacity

⑤ Series name

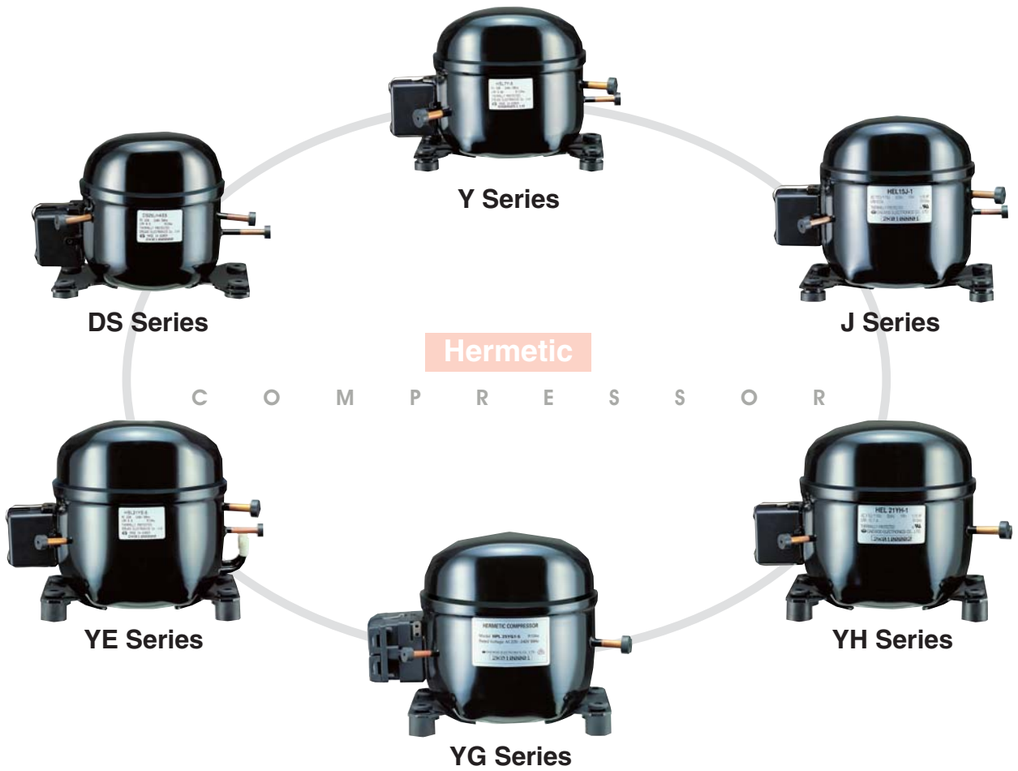
Y / J / YE / YG / YH

⑥ Voltage & Frequency

No marking : 100V 50/60Hz
1 : 110/115V 60Hz
2 : 127V 60Hz
4 : 220V 60Hz
5 : 220 - 240V 50Hz

⑦ Improvement order

Line-Up of DAEWOO Compressor



Cooling Capacity

(ASHRAE, 60Hz)

Refrigerant Application	Series	[㎉/h] 50	100	150	200	250	300
R134a LBP	Y	45 – 95					
	DS	45 – 115					
	J	115 – 155					
	YE	180 – 275					
	YG	185 – 280					
	YH	165 – 245					
R12 LBP	Y	45 – 100					
	DS	45 – 115					
	J	115 – 145					
	YE	180 – 290					
	YG	195 – 300					
	YH	185 – 220					

110/115V 60Hz Performance Data

Application & Refrigerant	Series	Model	Displacement (㎤)	Cooling Capacity (kcal/h)	Cooling Capacity (W)	Motor Type	Cooling Type	Net Weight (kg)	Oil Charge (㎤)
LBP R134a	Y	HFL5Y - 1	2.29	45	52	RSIR	ST	6.3	230
		HFL7Y - 1	2.65	60	70	RSIR	ST	6.3	230
		HEL9Y - 1	3.43	70	81	RSCR	ST	6.7	230
		HFL11Y - 1	4.51	95	110	RSIR	ST	6.7	230
		HEL11Y - 1	4.51	95	110	RSCR	ST	6.7	230
	J	HFL13J - 1	4.86	115	134	RSIR	ST / OC	7.3	280
		HEL13J - 1	4.86	115	134	RSCR	ST / OC	7.3	280
		HFL15J - 1	5.30	125	145	RSIR	ST / OC	7.3	280
		HEL15J - 1	5.30	125	145	RSCR	ST / OC	7.8	280
		HFL17J - 1	5.73	140	163	RSIR	ST / OC	7.3	280
		HEL17J - 1	5.73	140	163	RSCR	ST / OC	7.3	280
		HFL19J - 1	6.25	155	180	RSIR	ST / OC	7.8	280
		HEL19J - 1	6.25	155	180	RSCR	ST / OC	7.8	280
	YE	HFL21YE - 1	6.73	180	209	RSIR	ST / OC / FC	8.9	360
		HEL21YE - 1	6.73	180	209	RSCR	ST / OC / FC	8.9	360
		HFL23YE - 1	7.03	190	221	RSIR	ST / OC / FC	9.0	320
		HBL23YE - 1	7.03	190	221	CSR	ST / OC / FC	9.0	320
		HBL25YE - 1	7.68	210	244	CSR	OC / FC	9.3	320
		HBL27YE - 1	8.70	240	279	CSR	OC / FC	9.3	320
	YG	HEL21YG - 1	6.73	185	215	RSCR	ST / OC / FC	8.9	360
		HEL23YG - 1	7.03	195	227	RSCR	ST / OC / FC	9.0	320
		HBL23YG - 1	7.03	195	227	CSR	ST / OC / FC	9.0	320
		HBL25YG - 1	7.68	215	250	CSR	OC / FC	9.3	320
		HBL27YG - 1	8.70	250	291	CSR	OC / FC	9.3	320
	YH	HEL18YH - 1	5.99	165	192	RSCR	ST / OC	9.0	340
		HEL21YH - 1	6.73	190	221	RSCR	ST / OC / FC	9.5	320
		HEL23YH - 1	7.03	200	233	RSCR	ST / OC / FC	9.3	320
		HBL25YH - 1	7.96	235	273	CSR	OC / FC	9.5	320
		HBL26YH - 1	8.25	240	279	CSR	OC / FC	9.5	320
LBP R12	Y	FL5Y - 1	2.01	45	52	RSIR	ST	6.3	230
		FL7Y - 1	2.29	60	70	RSIR	ST	6.3	230
		FL9Y - 1	2.65	70	81	RSIR	ST	6.3	230
		FL12Y - 1	3.06	80	93	RSIR	ST	6.7	230
	J	FL15J - 1	4.43	115	134	RSIR	ST / OC	7.3	280
		FL17J - 1	4.86	125	145	RSIR	ST / OC	7.3	280
		FL19J - 1	5.30	145	169	RSIR	ST / OC	7.3	280
		EL19J - 1	5.30	145	169	RSCR	ST / OC	7.3	280
		CL19J - 1	5.30	145	169	CSIR	ST / OC	7.3	280
	YE	FL21YE - 1	6.25	180	209	RSIR	ST / OC / FC	8.9	360
		FL23YE - 1	6.25	190	221	RSIR	ST / OC / FC	9.0	320
		CL23YE - 1	6.25	190	221	CSIR	ST / OC / FC	9.0	320
		FL25YE - 1	6.73	205	238	RSIR	OC / FC	9.0	320
		EL25YE - 1	6.73	205	238	RSCR	OC / FC	9.0	320
		CL25YE - 1	6.73	205	238	CSIR	OC / FC	9.0	320
		CL27YE - 1	7.03	215	250	CSIR	OC / FC	9.3	320
		CL28YE - 1	7.68	240	279	CSIR	OC / FC	9.3	320
		CL33YE - 1	9.92	290	337	CSIR	OC / FC	9.3	320

Data : 115V 60Hz

Test Condition

Evaporating Temperature : -23.3℃
Condensing Temperature : 54.4℃
Gas Superheated to : 32.2℃
Liquid Subcooled to : 32.2℃
Ambient Temperature : 32.2℃

Motor Type

RSIR : Resistance Start Induction Run
RSCR : Resistance Start Capacitor Run
CSIR : Capacitor Start Induction Run
CSR : Capacitor Start Capacitor Run

Cooling Type

ST : Static Cooling
OC : Oil Cooling
FC : Fan Cooling

220-240V 50Hz Performance Data

Application & Refrigerant	Series	Model	Displacement (㎤)	Cooling Capacity (kcal/h)	Cooling Capacity (W)	Motor Type	Cooling Type	Net Weight (kg)	Oil Charge (㎤)
LBP R134a	Y	HSL7Y - 5	2.65	50	58	RSIR	ST	6.3	230
		HSL9Y - 5	3.43	60	70	RSIR	ST	6.3	230
		HPL9Y - 5	3.43	60	70	RSCR	ST	6.3	230
		HSL11Y - 5	4.51	80	93	RSIR	ST	6.7	230
		HPL11Y - 5	4.51	80	93	RSCR	ST	6.7	230
	J	HSL15J - 5	5.30	105	122	RSIR	ST / OC	7.3	280
		HSL17J - 5	5.73	115	134	RSIR	ST / OC	7.3	280
		HPL17J - 5	5.73	115	134	RSCR	ST / OC	7.8	280
		HSL19J - 5	6.25	130	151	RSIR	ST / OC	7.8	280
		HPL19J - 5	6.25	130	151	RSCR	ST / OC	7.8	280
	YE	HSL21YE - 5	6.73	150	174	RSIR	ST / OC / FC	8.9	360
		HKL21YE - 5	6.73	150	174	CSIR	ST / OC / FC	8.9	360
		HSL23YE - 5	7.03	160	186	RSIR	ST / OC / FC	9.0	320
		HPL23YE - 5	7.03	160	186	RSCR	ST / OC / FC	9.0	320
		HKL23YE - 5	7.03	160	186	CSIR	ST / OC / FC	9.0	320
		HSL25YE - 5	7.68	175	204	RSIR	OC / FC	9.3	320
		HKL25YE - 5	7.68	175	204	CSIR	OC / FC	9.3	320
		HSL27YE - 5	8.70	200	233	RSIR	OC / FC	9.3	320
		HPL27YE - 5	8.70	200	233	RSCR	OC / FC	9.3	320
		HKL27YE - 5	8.70	200	233	CSIR	OC / FC	9.3	320
		HSL29YE - 5	9.33	210	244	RSIR	OC / FC	9.3	320
		HSL30YE - 5	9.92	230	267	RSIR	OC / FC	9.3	320
		HPL30YE - 5	9.92	230	267	RSCR	OC / FC	9.3	320
	YG	HSL25YG - 5	7.68	180	209	RSIR	OC / FC	9.3	320
		HPL25YG - 5	7.68	180	209	RSCR	OC / FC	9.5	320
		HPL27YG - 5	8.70	205	238	RSCR	OC / FC	9.5	320
		HPL30YG - 5	9.92	235	273	RSCR	OC / FC	9.5	320
	YH	HPL18YH - 5	5.99	135	157	RSCR	ST / OC	9.3	320
		HPL21YH - 5	6.73	155	180	RSCR	ST / OC / FC	9.3	320
		HPL23YH - 5	7.03	165	192	RSCR	ST / OC / FC	9.3	320
		HPL25YH - 5	7.96	195	227	RSCR	OC / FC	9.5	320
		HPL26YH - 5	8.25	200	233	RSCR	OC / FC	9.5	320
LBP R12	Y	SL5Y - 5	2.01	35	41	RSIR	ST	6.3	230
		SL7Y - 5	2.29	50	58	RSIR	ST	6.3	230
		SL9Y - 5	2.65	60	70	RSIR	ST	6.3	230
		SL12Y - 5	3.06	70	81	RSIR	ST	6.7	230
	J	SL15J - 5	4.43	95	110	RSIR	ST / OC	7.3	280
		SL17J - 5	4.86	105	122	RSIR	ST / OC	7.3	280
		PL17J - 5	4.86	105	122	RSCR	ST / OC	7.3	280
		SL19J - 5	5.30	120	140	RSIR	ST / OC	7.3	280
		PL19J - 5	5.30	120	140	RSCR	ST / OC	7.3	280
		KL19J - 5	5.30	120	140	CSIR	ST / OC	7.3	280
	YE	SL21YE - 5	6.25	145	169	RSIR	ST / OC / FC	8.9	360
		PL21YE - 5	6.25	145	169	RSCR	ST / OC / FC	8.9	360
		KL21YE - 5	6.25	145	169	CSIR	ST / OC / FC	8.9	360
		SL23YE - 5	6.25	155	180	RSIR	ST / OC / FC	9.0	320
		PL23YE - 5	6.25	155	180	RSCR	ST / OC / FC	9.0	320
		KL23YE - 5	6.25	155	180	CSIR	ST / OC / FC	9.0	320
		SL25YE - 5	6.73	170	198	RSIR	OC / FC	9.0	320
		PL25YE - 5	6.73	170	198	RSCR	OC / FC	9.0	320
		KL25YE - 5	6.73	170	198	CSIR	OC / FC	9.0	320
		SL27YE - 5	7.03	180	209	RSIR	OC / FC	9.0	320
		PL27YE - 5	7.03	180	209	RSCR	OC / FC	9.0	320
		KL27YE - 5	7.03	180	209	CSIR	OC / FC	9.3	320
		SL28YE - 5	7.68	200	233	RSIR	OC / FC	9.3	320
		PL28YE - 5	7.68	200	233	RSCR	OC / FC	9.3	320
		KL28YE - 5	7.68	200	233	CSIR	OC / FC	9.3	320
		SL30YE - 5	8.70	215	250	RSIR	OC / FC	9.3	320
		PL30YE - 5	8.70	215	250	RSCR	OC / FC	9.3	320

Data : 220V 50Hz

220V 60Hz Performance Data

Application & Refrigerant	Series	Model	Displacement (㎤)	Cooling Capacity (kcal/h)	Cooling Capacity (W)	Motor Type	Cooling Type	Net Weight (kg)	Oil Charge (㎤)
LBP R134a	Y	HSL7Y - 5	2.65	60	70	RSIR	ST	6.3	230
		HSL11Y - 4	4.51	95	110	RSIR	ST	6.7	230
	J	HPL15J - 4	5.30	125	145	RSCR	ST / OC	7.3	280
		HPL19J - 4	6.25	155	180	RSCR	ST / OC	7.8	280
	YE	HPL23YE - 4	7.03	190	221	RSCR	ST / OC / FC	9.0	320
		HKL23YE - 4	7.03	190	221	CSIR	ST / OC / FC	9.0	320
		HPL25YE - 4	7.68	210	244	RSCR	OC / FC	9.3	320
		HKL25YE - 4	7.68	210	244	CSIR	OC / FC	9.3	320
		HPL27YE - 4	8.70	240	279	RSCR	OC / FC	9.3	320
		HKL27YE - 4	8.70	240	279	CSIR	OC / FC	9.3	320
	YG	HPL23YG - 4	7.03	195	227	RSCR	ST / OC / FC	9.0	320
		HPL25YG - 4	7.68	215	250	RSCR	OC / FC	9.3	320
		HPL27YG - 4	8.70	250	291	RSCR	OC / FC	9.3	320
	YH	HPL21YH - 4	6.73	190	221	RSCR	ST / OC / FC	9.5	320
LBP R12	Y	SL7Y - 5	2.29	60	70	RSIR	ST	6.3	230
		PL7Y - 4	2.29	60	70	RSCR	ST	6.3	230
		SL12Y - 5	3.06	80	93	RSIR	ST	6.7	230
	J	SL15J - 4	4.43	115	134	RSIR	ST / OC	7.3	280
		PL15J - 4	4.43	115	134	RSCR	ST / OC	7.3	280
		PL17J - 4	4.86	125	145	RSCR	ST / OC	7.3	280
		SL19J - 4	5.30	145	169	RSIR	ST / OC	7.3	280
		PL19J - 4	6.30	145	169	RSCR	ST / OC	7.3	280
	YE	PL21YE - 4	6.25	180	209	RSCR	ST / OC / FC	8.9	360
		PL23YE - 4	6.25	190	221	RSCR	ST / OC / FC	9.0	320
		DL23YE - 4	6.25	190	221	CSR	ST / OC / FC	9.0	320
		PL25YE - 4	6.73	205	238	RSCR	OC / FC	9.0	320
		DL25YE - 4	6.73	205	238	CSR	OC / FC	9.0	320
		PL27YE - 4	7.03	215	250	RSCR	OC / FC	9.3	320
		DL27YE - 4	7.03	215	250	CSR	OC / FC	9.3	320
		PL28YE - 4	7.68	240	279	RSCR	OC / FC	9.3	320
		DL28YE - 4	7.68	240	279	CSR	OC / FC	9.3	320
		PL30YE - 4	8.70	255	297	RSCR	OC / FC	9.3	320
	YG	PL23YG - 4	6.25	195	227	RSCR	ST / OC / FC	9.0	320
		PL25YG - 4	6.73	210	244	RSCR	OC / FC	9.0	320
		PL27YG - 4	7.03	220	256	RSCR	OC / FC	9.0	320
		PL28YG - 4	7.68	245	285	RSCR	OC / FC	9.3	320
		PL30YG - 4	8.70	265	308	RSCR	OC / FC	9.3	320
	YH	PL21YH - 4	5.99	185	215	RSCR	ST / OC / FC	9.5	320
		PL23YH - 4	6.25	195	227	RSCR	ST / OC / FC	9.3	320
		PL25YH - 4	6.73	210	244	RSCR	OC / FC	9.3	320

Data : 220V 60Hz

Test Condition

Evaporating Temperature : -23.3℃
Condensing Temperature : 54.4℃
Gas Superheated to : 32.2℃
Liquid Subcooled to : 32.2℃
Ambient Temperature : 32.2℃

Motor Type

RSIR : Resistance Start Induction Run
RSCR : Resistance Start Capacitor Run
CSIR : Capacitor Start Induction Run
CSR : Capacitor Start Capacitor Run

Cooling Type

ST : Static Cooling
OC : Oil Cooling
FC : Fan Cooling

127V 60Hz Performance Data

Application & Refrigerant	Series	Model	Displacement (㎤)	Cooling Capacity (kcal/h)	Cooling Capacity (W)	Motor Type	Cooling Type	Net Weight (kg)	Oil Charge (㎤)
LBP R134a	Y	HFL11Y - 2	4.51	95	110	RSIR	ST	6.7	230
	J	HEL15J - 2	5.30	125	145	RSCR	ST / OC	7.3	280
		HEL19J - 2	6.25	155	180	RSCR	ST / OC	7.8	280
	YE	HCL21YE - 2	6.73	180	209	CSIR	ST / OC / FC	8.9	360
		HBL23YE - 2	7.03	190	221	CSR	ST / OC / FC	9.0	320
		HBL25YE - 2	7.68	210	244	CSR	OC / FC	9.3	320
		HBL27YE - 2	8.70	240	279	CSR	OC / FC	9.3	320
	YG	HBL23YG - 2	7.03	195	227	CSR	ST / OC / FC	9.0	320
		HBL25YG - 2	7.68	215	250	CSR	OC / FC	9.3	320
LBP R12	J	FL15J - 2	4.43	115	134	RSIR	ST / OC	7.3	280
		FL17J - 2	4.86	125	145	RSIR	ST / OC	7.3	280
		FL19J - 2	5.30	145	169	RSIR	ST / OC	7.3	280
		EL19J - 2	5.30	145	169	RSCR	ST / OC	7.3	280
	YE	FL21YE - 2	6.25	180	209	RSIR	ST / OC / FC	8.9	360
		CL23YE - 2	6.25	190	221	CSIR	ST / OC / FC	9.0	320
		CL25YE - 2	6.73	205	238	CSIR	OC / FC	9.0	320
		BL25YE - 2	6.73	205	238	CSR	OC / FC	9.0	320
		CL27YE - 2	7.03	215	250	CSIR	OC / FC	9.3	320
		BL27YE - 2	7.03	215	250	CSR	OC / FC	9.3	320
		CL28YE - 2	7.68	240	279	CSIR	OC / FC	9.3	320
	YG	CL23YG - 2	6.25	195	227	CSIR	ST / OC / FC	9.0	320
		BL25YG - 2	6.73	210	244	CSR	OC / FC	9.0	320

Data : 127V 60Hz

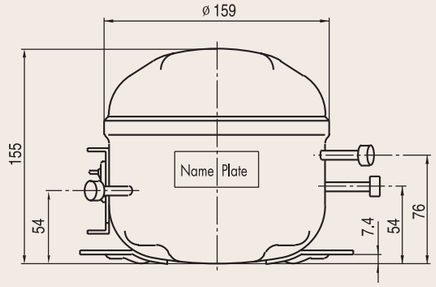
100V 50/60Hz Performance Data

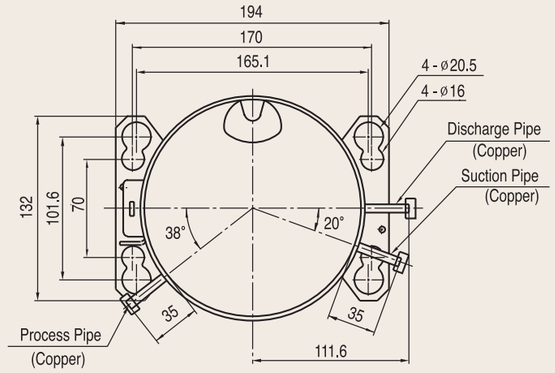
Application & Refrigerant	Series	Model	Displacement (㎤)	Cooling Capacity (kcal/h)	Cooling Capacity (W)	Motor Type	Cooling Type	Net Weight (kg)	Oil Charge (㎤)
LBP R134a	Y	HFL7Y	2.65	60	70	RSIR	ST	6.3	230
		HFL11Y	4.51	95	110	RSIR	ST	6.7	230
	J	HEL15J	5.30	125	145	RSCR	ST / OC	7.3	280
		HEL17J	5.73	140	163	RSCR	ST / OC	7.3	280
		HEL19J	6.25	155	180	RSCR	ST / OC	7.8	280
	YE	HBL23YE	7.03	190	221	CSR	ST / OC / FC	9.0	320
		HBL25YE	7.68	210	244	CSR	OC / FC	9.3	320
		HBL27YE	8.70	240	279	CSR	OC / FC	9.3	320
LBP R12	Y	FL7Y	2.29	60	70	RSIR	ST	6.3	230
		FL9Y	2.65	70	81	RSIR	ST	6.3	230
		FL12Y	3.06	80	93	RSIR	ST	6.7	230
		FL13Y	3.91	100	116	RSIR	ST	6.7	230
	J	FL15J	4.43	115	134	RSIR	ST / OC	7.3	280
		FL17J	4.86	125	145	RSIR	ST / OC	7.3	280
		FL19J	5.30	145	169	RSIR	ST / OC	7.3	280
	YE	EL23YE	6.25	190	221	RSCR	ST / OC / FC	9.0	320
		EL25YE	6.73	205	238	RSCR	OC / FC	9.0	320
		BL27YE	7.03	215	250	CSR	OC / FC	9.3	320
		BL28YE	7.68	240	279	CSR	OC / FC	9.3	320

Data : 100V 60Hz

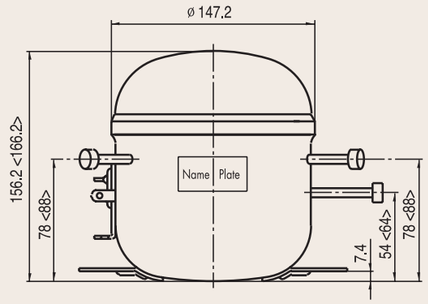
Appearance

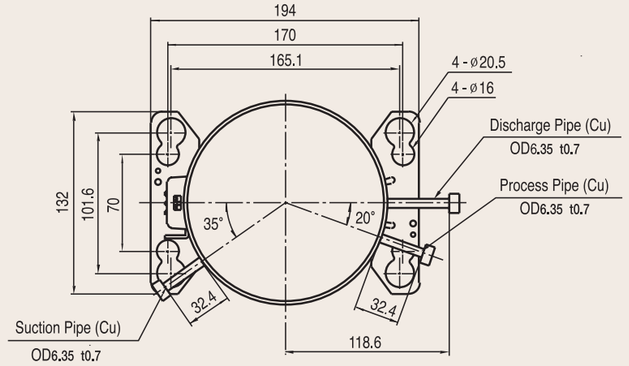
Y Series



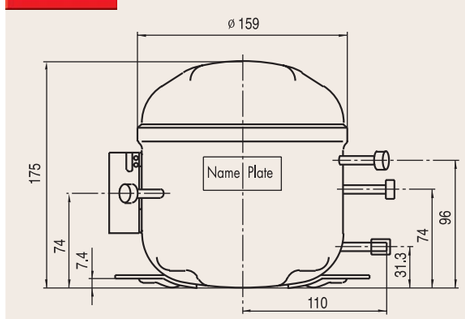


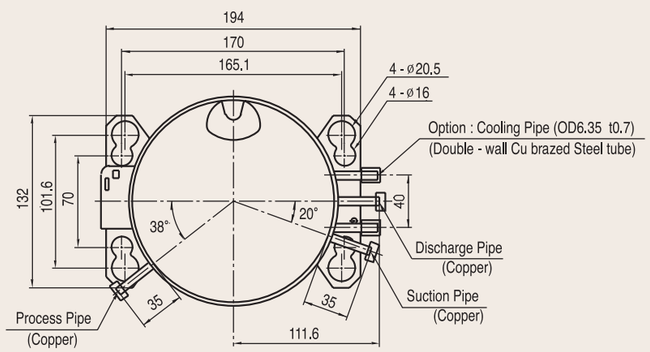
DS Series





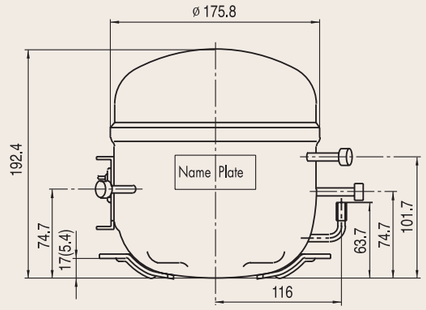
J Series

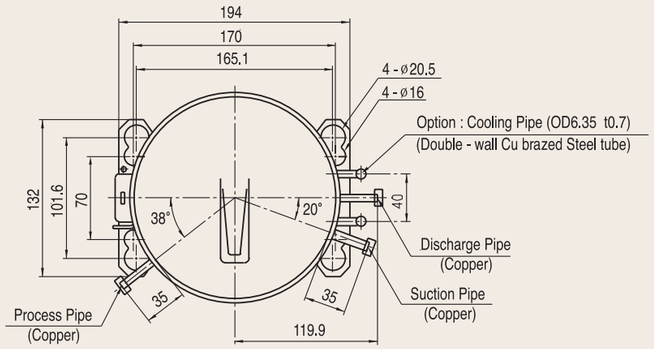




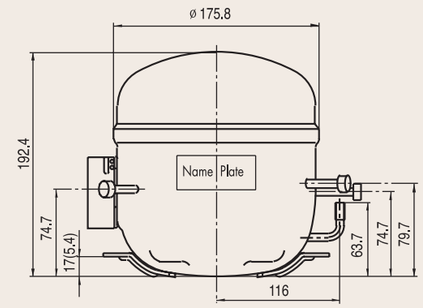
Appearance

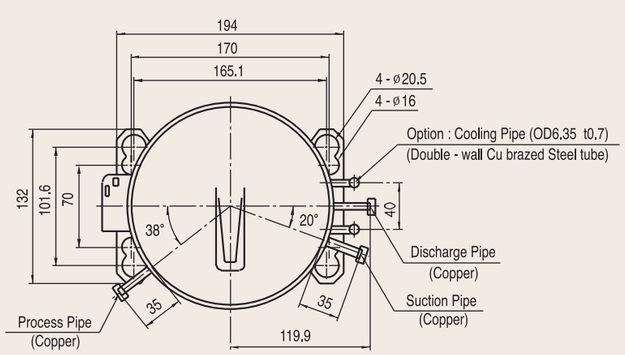
YE Series





YG/YH Series





Pipe (Tube)

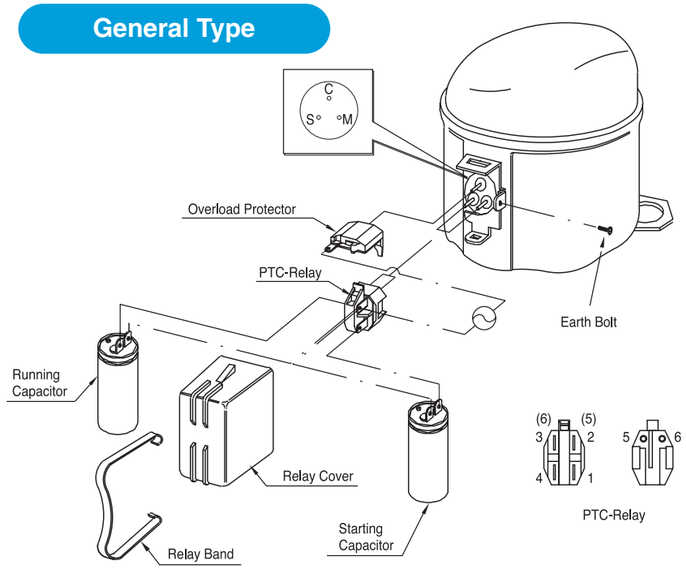
PIPE	O.D	t	(I.D)	Remark
Suction Pipe	ϕ 7.94	0.7	ϕ 6.54	DAEWOO Standard
	ϕ 7.94	0.9	ϕ 6.14	
Process Pipe	ϕ 6.35	0.7	ϕ 4.95	DAEWOO Standard
	ϕ 7.94	0.7	ϕ 6.54	
	ϕ 7.94	0.9	ϕ 6.14	
Discharge Pipe	ϕ 6.35	0.7	ϕ 4.95	DAEWOO Standard
	ϕ 7.94	0.7	ϕ 6.54	

1. PTC Relay Type (with Relay Cover)

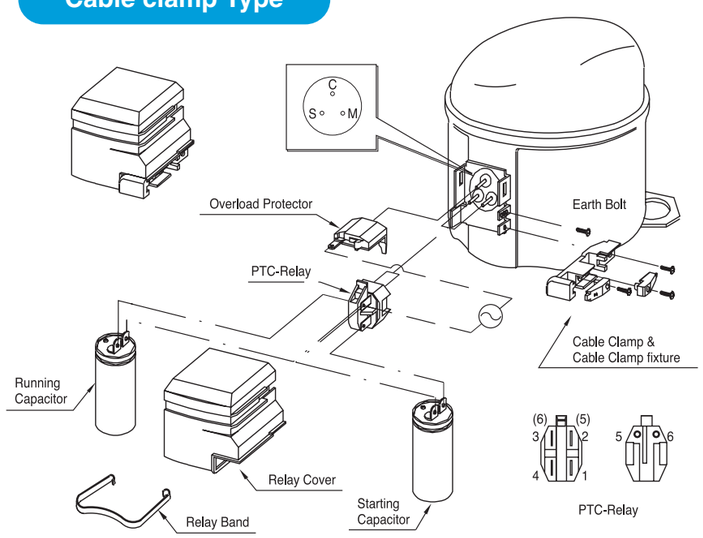
Assembly of Electrical Parts

Motor Type	RSIR	RSCR	CSIR	CSR
Running Capacitor	X	0	X	0
Starting Capacitor	X	X	0	0

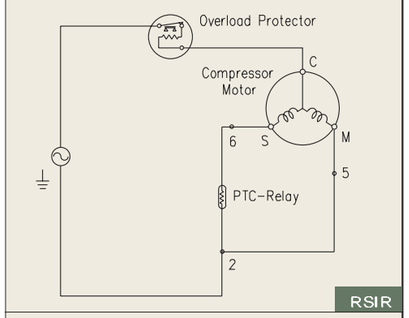
General Type



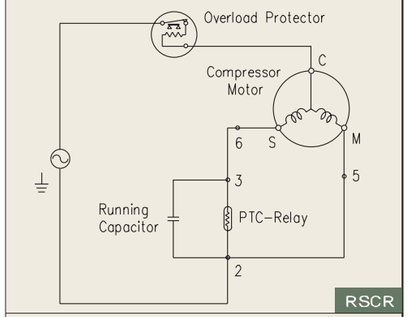
Cable clamp Type



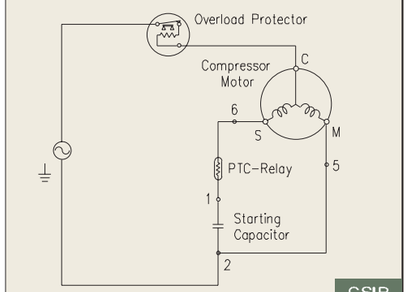
Wiring Diagram



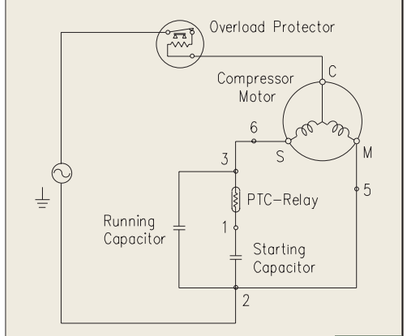
RSIR



RSCR



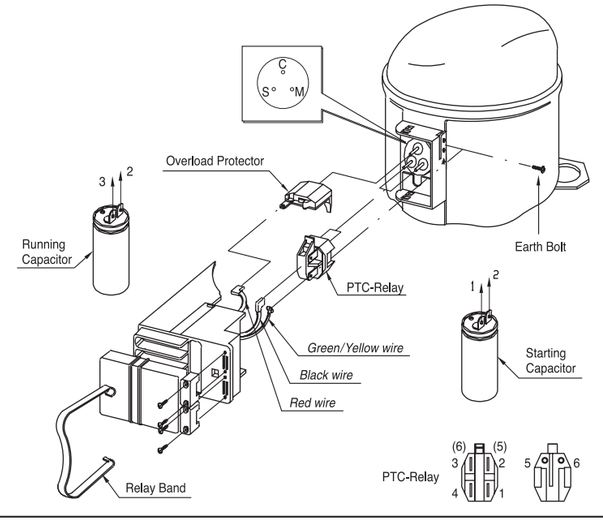
CSIR

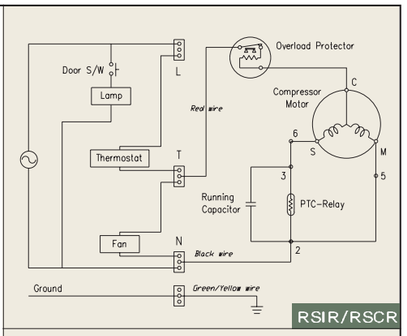


CSR

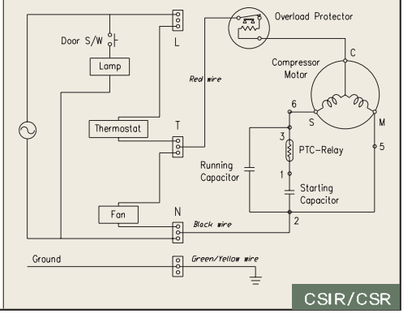
2. PTC Relay Type (with Terminal Block)

Motor Type	RSIR	RSCR	CSIR	CSR
Running Capacitor	X	0	X	0
Starting Capacitor	X	X	0	0





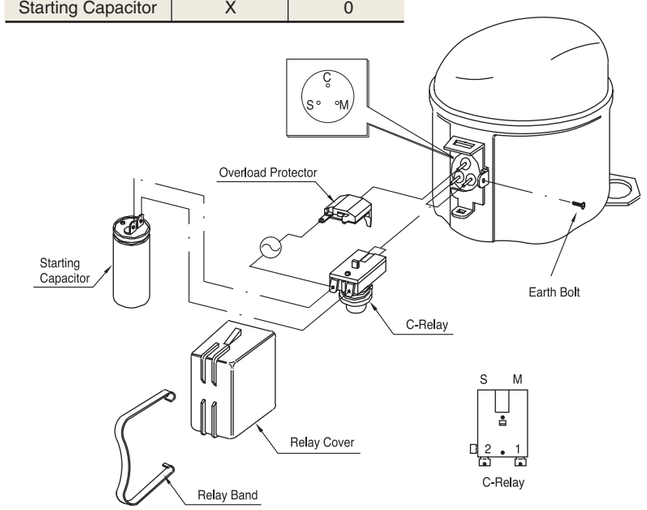
RSIR/RSCR

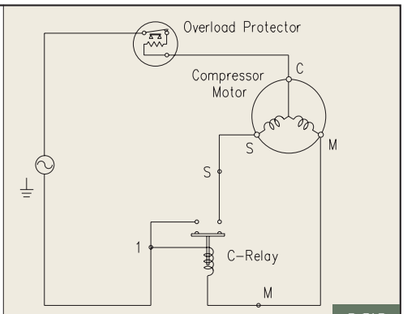


CSIR/CSR

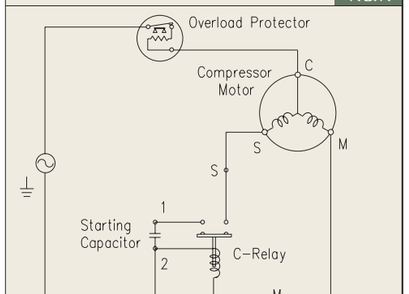
3. Current Relay Type

Motor Type	RSIR	CSIR
Running Capacitor	X	X
Starting Capacitor	X	0



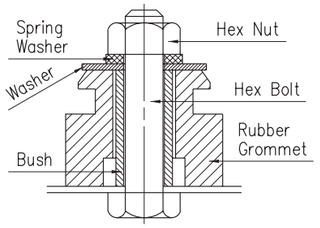
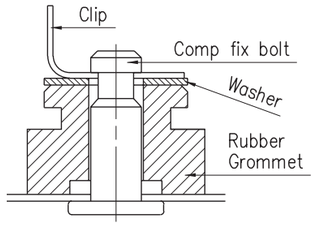


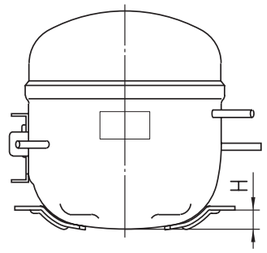
RSIR



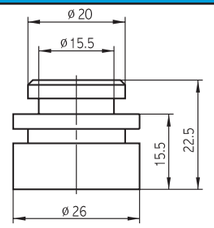
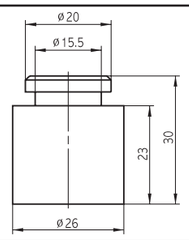
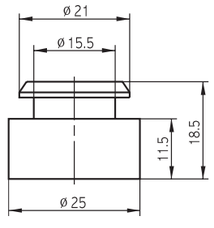
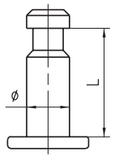
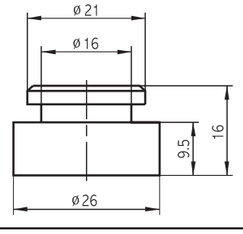
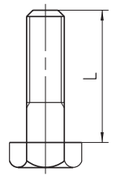
CSIR

Mounting Accessories

Bolt-Nut Type	Snap-On Type
BN54, BN74, BN170	S54, S74, S170
	



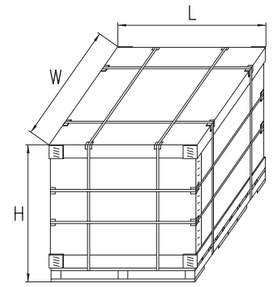
(Unit : ㎜)

Compressor Series	H	Type	Rubber Grommet	Hex Bolt	Comp fix Bolt
Y, J, DS	7.4	BN 74 S 74		BN 74 M6 ×1 L35	S 74 ϕ 9 L24.5
YE, YG, YH	17	BN 170 S 170		BN 170 M6 ×1 L40	S 170 ϕ 9 L32.2
YE, YG, YH (option)	5.4	BN 54		BN 54 M6 ×1 L25	
		S 54			S 54 ϕ 7.4 L18.2

Packing

1. Bulk Box Size

Compressor Series	L [㎜]	W [㎜]	H [㎜]
Y, DS	1,162	988	978
J	1,162	988	887
YE, YG, YH	1,162	1,040	937



2. Compressor Quantity

Compressor Series	Comp. Quantity / Bulk Box	Bulk Box Quantity / Container (20ft)	Comp. Quantity / Container (20ft)
Y, DS	120	21	2,520
J	96	20	1,920
YE, YG, YH	96	20	1,920

Units & Conversions

Multiply	By	To Obtain
kcal/h	1.163	W
kcal/h	3.968	Btu/h
EER	0.293	COP
To Obtain	By	Divide