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Date	Nov. 07. 2018

Rotary Compressor SPECIFICATION for APPROVAL

MODEL: DAT156MAD

LG Electronics

Designed	Approved
Sign 	
Date 11/7	

SCORP

APPROVAL	
Sign	
Date	



Please return one copy on your approval.
Please read this specification thoroughly before installation or operating.

Revision History

Data	Rev. No	Rev. description	Write

Safety Precaution

IMPORTANT SAFTY INSTRUCTIONS

The following precautions is to prevent unexpected hazard.

▲ WARNING You can be killed or seriously injured if you don't follow instructions.

Service should be performed by trained personnel only.

Install the refrigerant, lubricant oil and electrical component (Terminal Cover, etc) 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.

Do not use earth screw, except for ground.

It can cause electrical shock.

Before servicing, always remove the power plug from outlet.

It can cause electrical shock.

Before welding, always remove refrigerant in the compressor.

Do not operate compressor in the air or vacuum status.

It can cause explosion

Do not touch the compressor with bare hands during operation or after stoppage instantly.

It can cause get burnt.

1. Specification

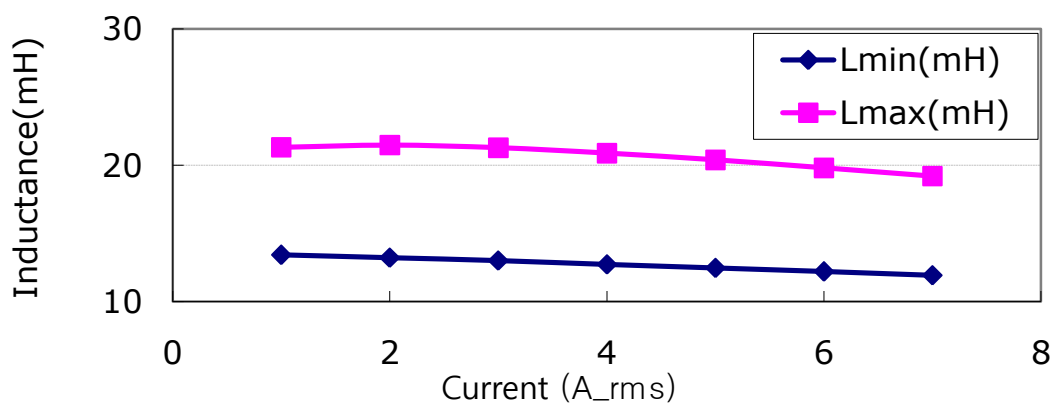
1.1 Compressor

1	Application	Cooling and Heating with BLDC Inverter System
2	Compressor Type	Hermetic Motor Compressor
3	Pump Type	Twin rotary (Two Cylinder Rolling Piston Type)
4	Displacement	15.6 cm ³ / rev
5	Refrigerant	R32
6	Oil / Oil Charging Amount	POE or PVE / 400cc
7	Painting	Black Color Paint
8	Net Weight (Including Oil)	8.9kg
9	Suction Tube I.D	$\Phi 12.8 \begin{smallmatrix} +0.15 \\ 0 \end{smallmatrix}$ mm
10	Discharge Tube I.D	$\Phi 8.06 \begin{smallmatrix} +0.1 \\ 0 \end{smallmatrix}$ mm

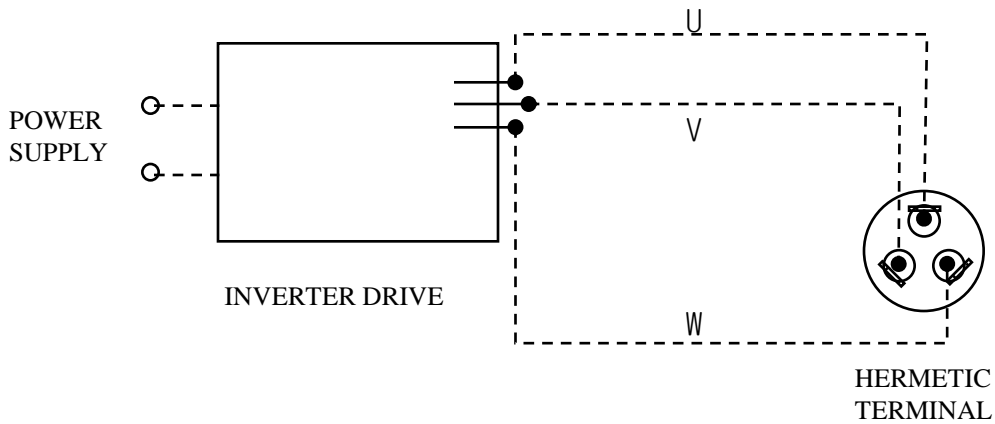
1.2 Motor

Motor Type / Starting Type	BLDC Motor / DC Inverter Starting	
Pole / Rated Output	6 Pole / 1500 Watts(@60rps)	
Power Source	Sensorless Brushless Inverter	
Winding type	Concentrated Winding	
Magnet Material	NdFeB	
Insulation Class	E Class	
Windings Resistance (at 75 °C)	U-V	1.588± 7% Ohms
	V-W	1.588± 7% Ohms
	W-U	1.588± 7% Ohms
Induced Voltage	42.0 Vrms/krpm(line-to-line)at 25°C	
Demagnetizing Current	36.7A _{peak} at 120°C, -4% demagnetizing rate	

Arms	1	2	3	4	5	6	7
Lmin(mH)	13.10	13.13	12.87	12.59	12.32	12.07	11.80
Lmax(mH)	20.23	20.43	20.37	20.05	19.69	19.09	18.57



1.3 Wiring diagram



※ Make Sure to connect right way same with the wiring diagram.

1.4 Performance

※ Electric source

DC Link Voltage : 380 V , 180° Sine Wave Current Charge (Designed by LGE)

		60rps
Cooling Capacity (95%↑)	[Btu/h]	17,400
	[kW]	5,100
Power Input(105%↓)	[W]	1,570
EER(95%↑)	[Btu/W · h]	11.08
Running Current	[A]	6.1

☞ Rated Condition

Cond. Temp. : 54.4 °C (130 °F)
 Evap. Temp. : 7.2 °C (45 °F)

Return Gas Temp. : 18.3 °C (65°F)
 Liquid Temp. : 46.1 °C (115 °F)
 Ambient Temp. : 35.0 °C (95 °F)

1.5 Noise , Vibration

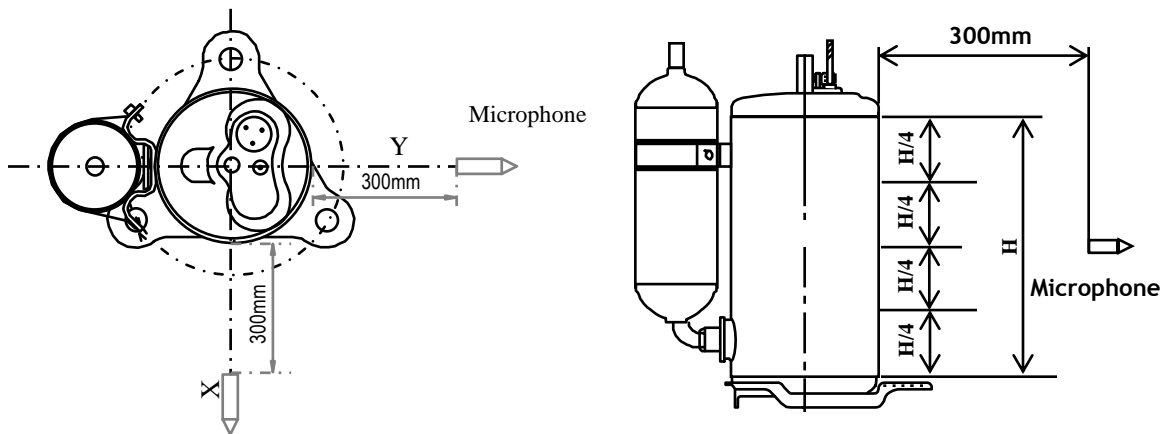
※ Electric source

DC Link Voltage : 380 V , 180° Sine Wave Current Charge (Designed by LGE)

Sound Level [dB(A)]	rps	60rps
	Total	69+2
Vibration Standard Condition (μm/GAL)		40/900

※This compressor allows less than 80% of the vibration specification.

Noise & Vibration Measuring Points



● Measuring points for specification approval

- Noise : 2 points (X , Y)
- Vibration : 2 points (A , B)

● Compressor vibration is measured by a vibration meter which is contacted compressor A ~ B at load condition

● Test Condition : (ARI)

- Standard Condition (Ps/Pd = 9.35 / 34.38 (kg/cm²G))
- (Return Gas: 18.3°C)

1.6 Others

Leak Tight Pressure	High Pressure Side	45 kgf / cm ² G
	Low Pressure Side	-
Hydrostatic Strength Pressure	High Pressure Side	170 kgf / cm ² G
	Low Pressure Side	69 kgf / cm ² G
Insulation Resistance (with 500V D.C Mega Tester)		50 MΩ Min.
Withstand Voltage		At 2,200 V / 1 Sec. Leakage Current is less than 5 mA
Residual Moisture (Karl Fisher Method)		60 mg Max.
* Residual Impurities		70 mg Max

*) Each part was measured separately

2. Delivered Parts List

Parts Name	Type (Model)	EA	Parts Dwg. NO.	Supply	
			LG		
Compressor	DAT156MAD	1	-	<input checked="" type="radio"/> Yes	<input type="radio"/> No
OLP	-	0	-	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Cover ,Terminal	-	1	3550U-L005B	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Gasket	-	1	4986UTL004A	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Nut, Common	-	1	1NZZUTL001A	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Washer, Customized	-	1	1WZZUTL001A	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Grommet	-	3	4022UTL002B	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Bolt, Stud	-	0	-	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Washer, Plain	-	0	-	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Nut, Hexagon	-	0	-	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Capacitor	-	0	-	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Sleeve, Damper	-	0	-	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Screw, Earth	M4*0.7 Length: Max. 6mm	0	-	<input type="radio"/> Yes	<input checked="" type="radio"/> No

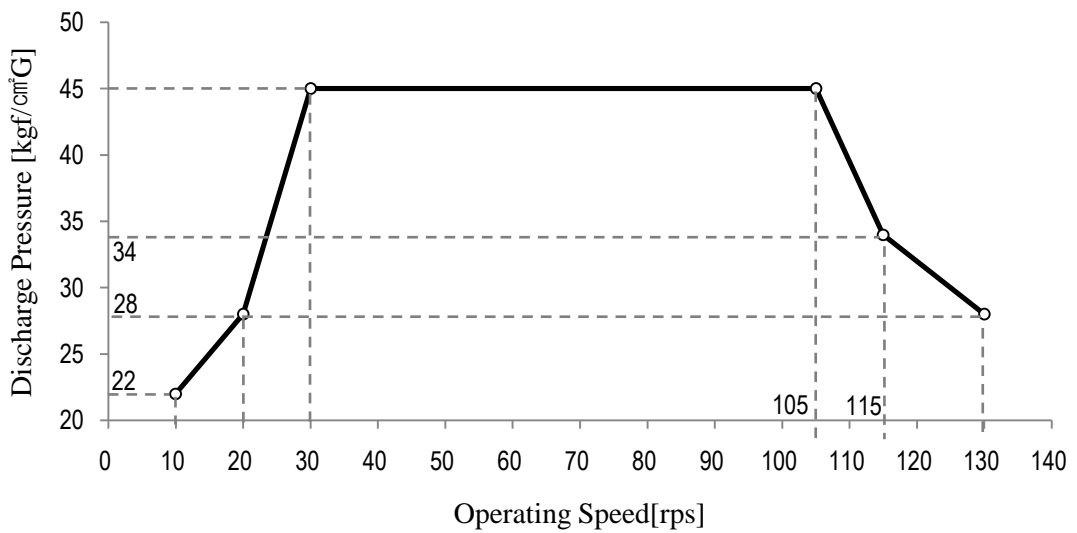
※) Refer to Attachments (Accessory Parts Drawings.)

3. Operating Limit

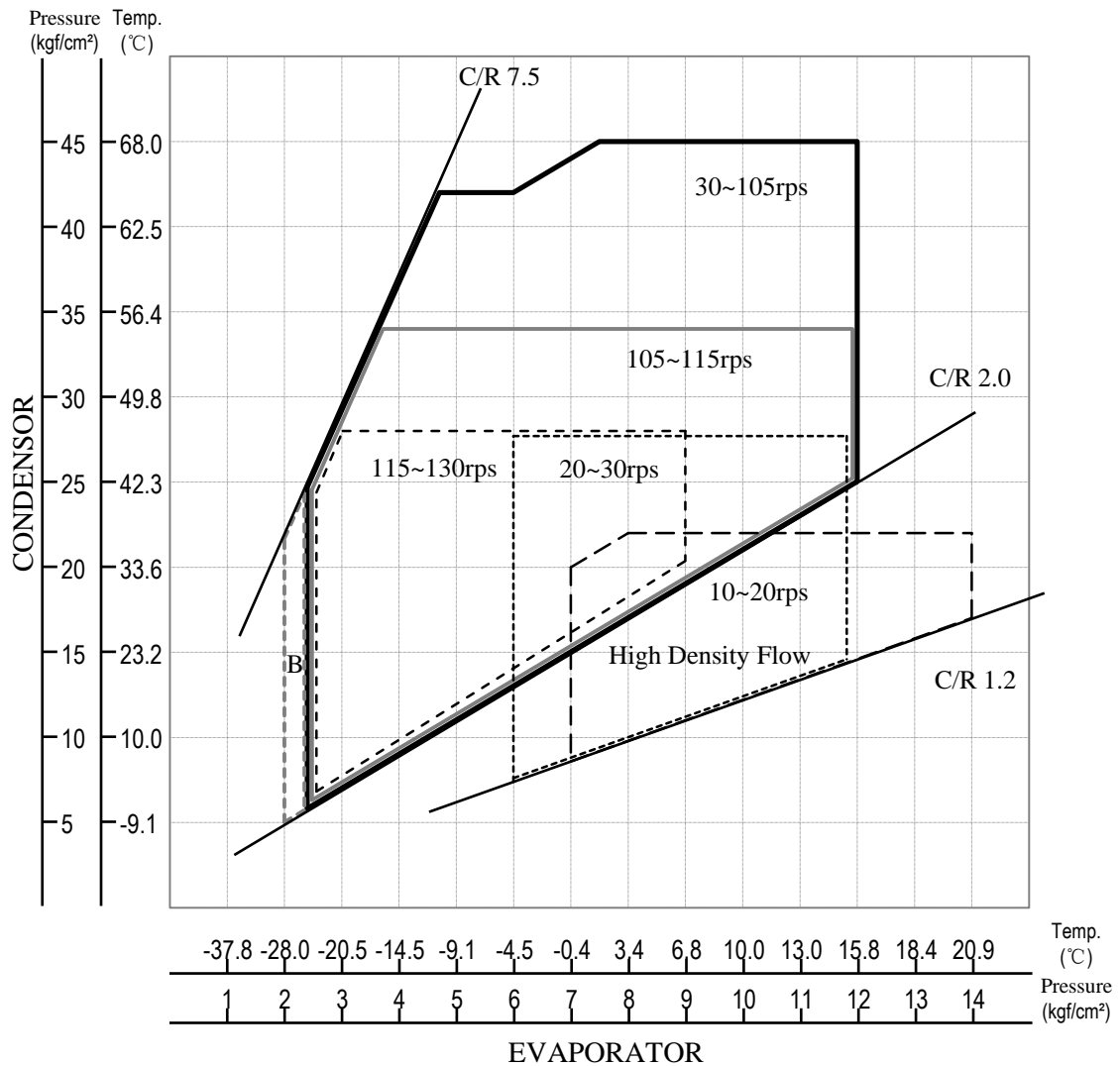
Application Limit

Discharge Pressure	[kgf/cm ² G]	45 Max.
Suction Pressure	[kgf/cm ² G]	2.4 ~ 12
Discharge Pipe Temp.	[°C]	115 Max.
Motor Coil Temp.	[°C]	130 Max.
Max load current	[A _{rms}]	14 Max.

Operating Speed (Discharge Pressure)



Application Limit



In case of B Area,

- less than 3 min. at defrosting and restarting after defrosting
- Motor wire temperature less than 130°C
- Do not occur liquid refrigerant back
- Must keep Minimum oil level

※ This guide contains many important safety messages.
Always read and obey all safety messages.

▲ WARNING

Application Limit

Refrigerant Charge Limit	Max 1400g
Liquid Refrigerant Back	System should be designed not to allow the liquid to go back to compressor which cause knocking noise , current increase or undesirable vibration and make short compressor life time.
Δ T : Temp. Difference °C	Δ T = Case Bottom Temp. – Condensing Temp. It must be kept Δ T ≥ 5°C
Compression Ratio	Compression ratio is Max. 7.5
Operating Range Limit	10rps ~130rps
Pressure Difference in Operating	The Pressure difference in operating shall be 5.0kgf/cm ² or more, but 3 minutes starting excluded. Only, The Pressure difference below 18rps shall be allowable 2.0kgf/cm ²
ON/OFF Operation	-In case over 30rps : Each cycle should be at least 5 minutes (ON : at least 2 minute , OFF : at least 3 minutes) - In case below 30rps: Each cycle should be at least 8 minutes (ON : at least 5 minute , OFF : at least 3 minutes)
Pressure Difference at Starting	When starting, discharge pressure is balanced with suction pressure.
Tilt in Operation	The allowable tilt of the compressor in operation shall be 5° or less.
System Accumulator	-The Accumulator volume should be enough to cover 60% of maximum system refrigerant volume. Ratio coefficient 'K' should be over 0.6. -In case of ' 0.4 < K < 0.6 ' System must be deigned preventing from Liquide Refrigerant Back in Accumulator at any condition. -Effective volume : 540cc Effective Volume of Accum. × Specific gravity of Refrigerant K = ----- Charged Weight of Refrigerant ※ Specific Gravity of Refrigerant (R32) = 1.10 (at 20°C)
Protecting Reverse Operation	The Compressor must be operated by proper voltage in accordance with the frequency without reverse revolution condition. The reverse revolution condition can be avoided by just keeping right order of phase supplied power source.

▲ WARNING

Application Limit

Power source voltage	The applied voltage phase of stator must be synchronized with the phase of rotor. ※ Do not apply general AC power on terminals.
Carrier Frequency	Carrier frequency must be selected so as not to resonate the Compressor & Pipe.
Acceleration rate & Deceleration	Acceleration rate & deceleration rate Refer to * note 1.
Pipe Stress	Don't allow any force on discharge & suction pipe . The piping stress must be less than 29.4MPa at starting and stopping. And less than MPa at running.
Oil Level	It must be checked oil level by the compressor with sight glass. And oil level must be kept over guide line level ***note 3. at any condition.
Protection device	Air conditioner system must has the compressor protection device like over current , high temperature, sensing locked pump in the controller. When starting & running fail by abnormal overload, controller must be able to cut off power of compressor before motor burn out.
Protection for demagnetization	Compressor should not be applied over current 36.7A(Peak) at 120°C
Pump down refrigerant	If pump down time is too long, compressor can be damaged due to excessive temperature increase or poor lubrication. Guideline of pump down process. - Time : less than 30 seconds - Suction Pressure : It should not run under below 1 kgf/cm ² G. And before closing a service valve, compressor running for more than 5 minutes is recommended.
Earth Connection	Use compressor with grounded system only.

*** Effective Period of This Document ***

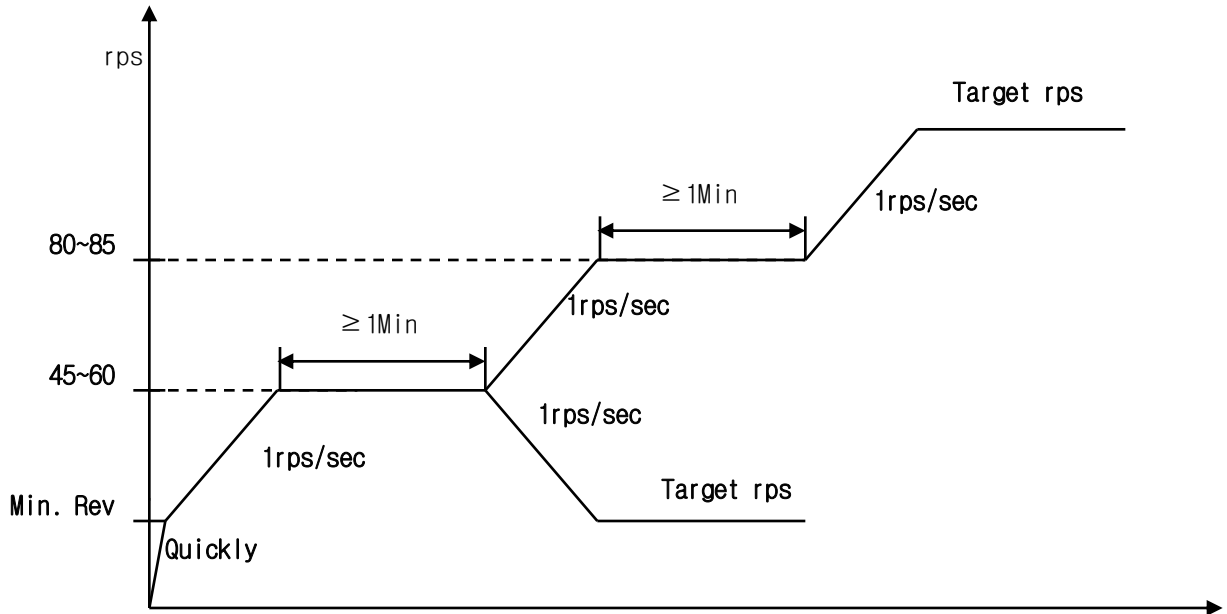
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▲ WARNING

Process Limit

Use defined Refrigerant and oil	Any process in where the HCFC's Refrigerant or the different kind of oil against the defined. Compressor oil are mixed should be avoided.
Avoid Damage running	The running operation that inspection and the protector inspection that affect a damage to the function and durability of the compressor should be avoided
Running dummy indoor	When the outdoor unit is operated with the indoor dummy unit, The discharged oil should be recovered enough
Prevent oxidation in pipe	Always purge the system and the compressor with the dry Nitrogen in order to prevent oxidation of the piping
Charging Refrigerant	When charging refrigerant into the cycle, Make sure that refrigerant always be filled from the higher pressure side (condenser exit) of the cycle. If liquid refrigerant is sucked in to the compressor liquid compression occurs, The discharge valve is damaged, lubrication effectiveness degenerates and reliability drops noticeably
Avoid Vacuum running	Do not operate the compressor in a vacuum state. Furthermore do not apply high voltage to a vacuum state compressor. There is a danger that insulation could degenerate, causing electric shock
Avoid Air compression	Do not compress the air including the case of leakage in the Air conditioner cycle. If Compressors run with air mixed, inside the compressor is heated and pressurized , which may cause an explosion
Promptly Assemble compressor in line	After removing rubber plugs from compressor tubes, Promptly use the compressor. And do not leave in the atmosphere for 10 minutes over. If Air gets into the compressor , accelerating degeneration of the inside of the cycle or compressor
Wiring	Wires connected to the compressor, follow the compressor specification manual and instructions
Storage temperature	-10°C ~ 65°C

***Note 1. Operating Pattern**



Rapid change of compressor revolution may result in lower oil level or breakdown of compressor. Revolution change rate depends on A/C system's order logic.

Basically, guide line of change rate is lower than 1rps/sec. But from compressor starting to main running revolution (state of revolution speed being increased), if compressor breakdown won't happen, the revolution change speed rate can be 2rps/sec.

If target revolution is above 60rps, compressor should be run and last more than 1 minutes at 45~60rps and above 85rps, it must stay at 85rps or so. Above chart explain how to change revolution rate.

Most important thing is keeping stable compressor oil level, so it must be observed at all running conditions built into A/C systems and main logic of speed change must be designed to maintain stable compressor oil level.

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** Note 2 OIL Dilution rate

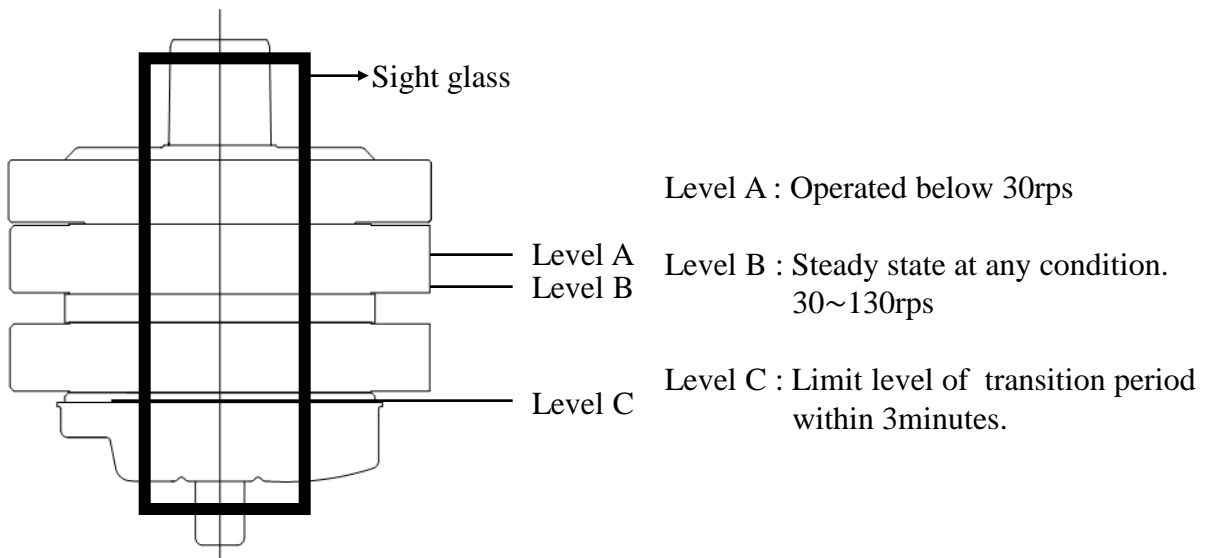
$\frac{\text{Oil Weight}}{\text{Refrigerant Weight} + \text{Oil Weight}} \geq 0.22$
※ Specific Gravity of POE or PVE = 0.9 (at 20°C)

[Unit]

☞ Oil Weight : [g]

☞ Refrigerant Weight : [g]

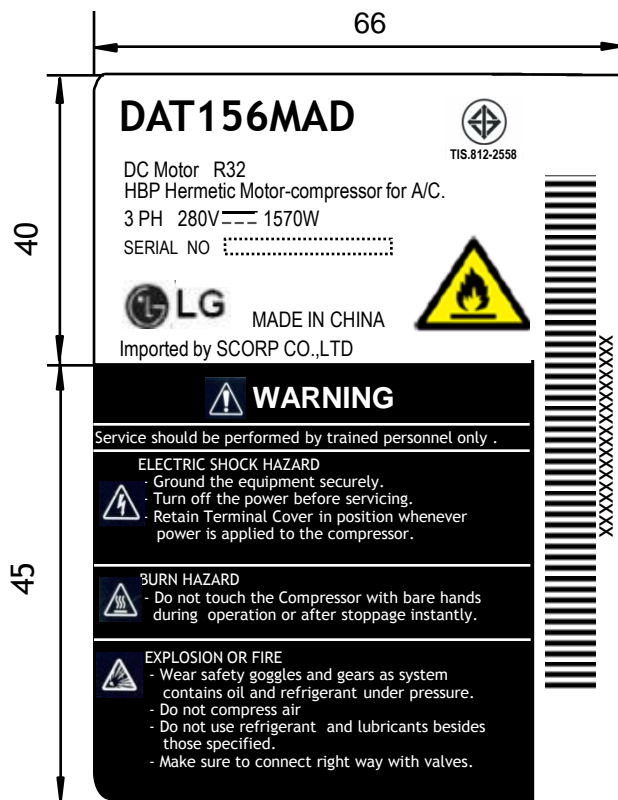
*** Note 3 Oil Level Guide Line



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4. Label



All safety messages will identify the hazard, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed. You are strongly advised to follow these safety instructions.



This is the Safety alert symbol. It indicates a hazardous situation which, if not avoided, could result in death or serious injury.



This is the Electric shock hazard symbol. It indicates a hazardous situation which, if not avoided, could result in the electric shock.



This is the Getting burnt symbol. It indicates a hazardous situation which, if not avoided, could cause fire.



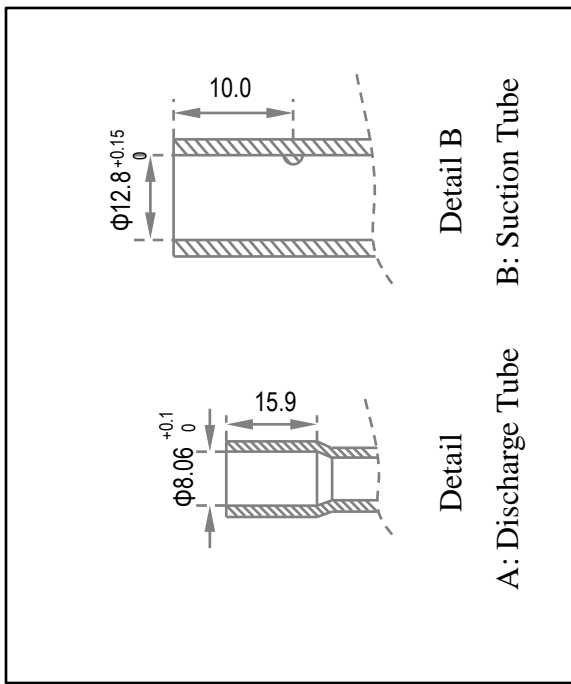
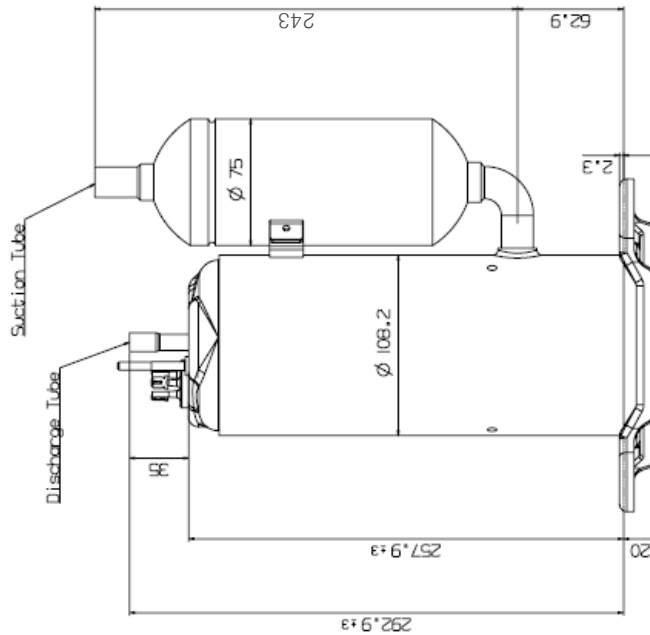
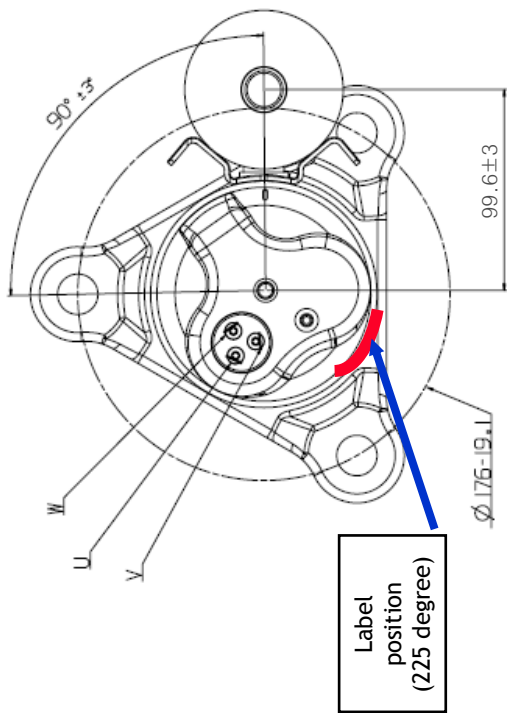
This is the Explosion or Fire symbol. . It indicates a hazardous situation which, if not avoided, could cause explosion or fire.

* Effective Period of This Document *

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5. Attachment

	PAGE
5.1 Compressor Drawing	: 19
5.2 Accessory Fitting	: 20
5.3 Part Drawings	: 21 ~ 25



Detail

A: Discharge Tube

Detail B

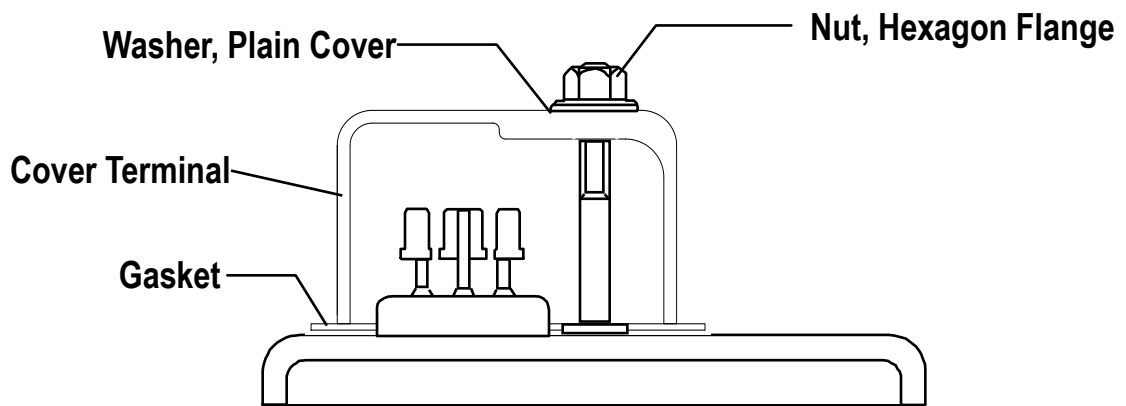
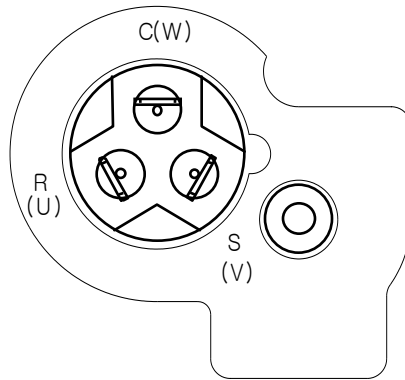
B: Suction Tube

NOTES

1. PAINTING : BLACK PAINT (ELECTRO DEPOSITION)
2. OIL : POE or PVE 400 cc CHARGED
3. NITROGEN CHARGED AFTER DEHYDRATION
4. DIMENSIONS ARE mm UNITS.

UNIT	mm	SCALE	N / S	COMP. OUT LINE	
DES. ENGR.		CHF. ENGR.			
Nov. 07. 2018 X.Y.BU		Nov. 07. 2018 Y.S. ZHANG		DAT156MAD	
LG Electronics Inc. C & M Division		CUSTOMER SCORP			

Accessory Fitting

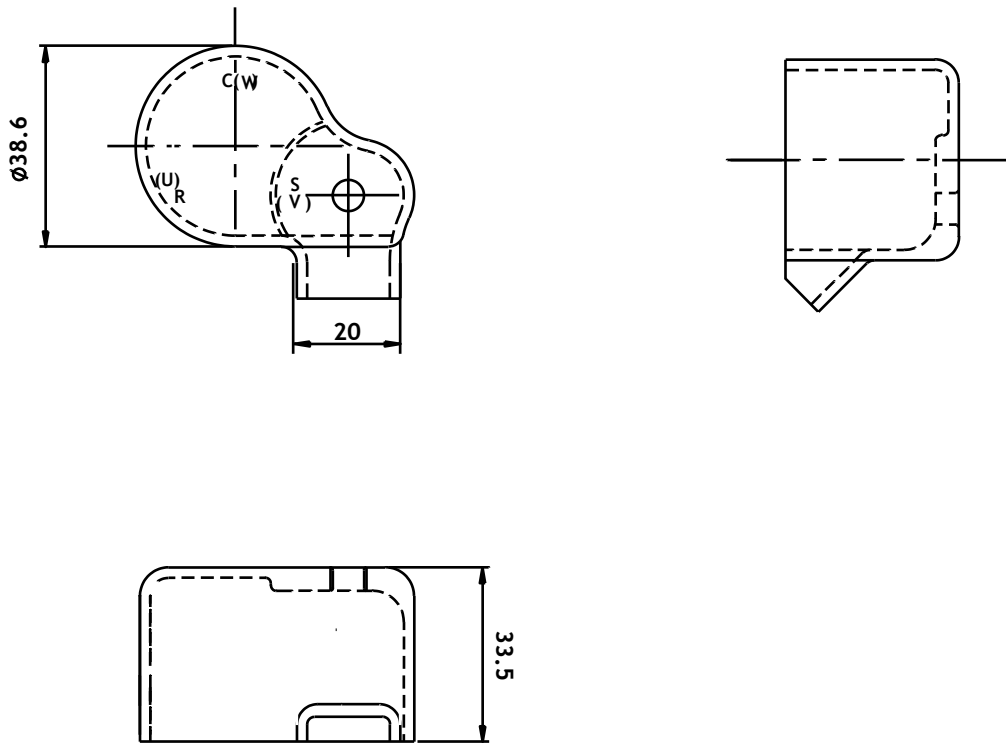


**C(W),R(U),S(V) Mark Embossed
on Cover Terminal**

Cover, Terminal

Drawing No. 3550U-L005B

(UNIT : mm)

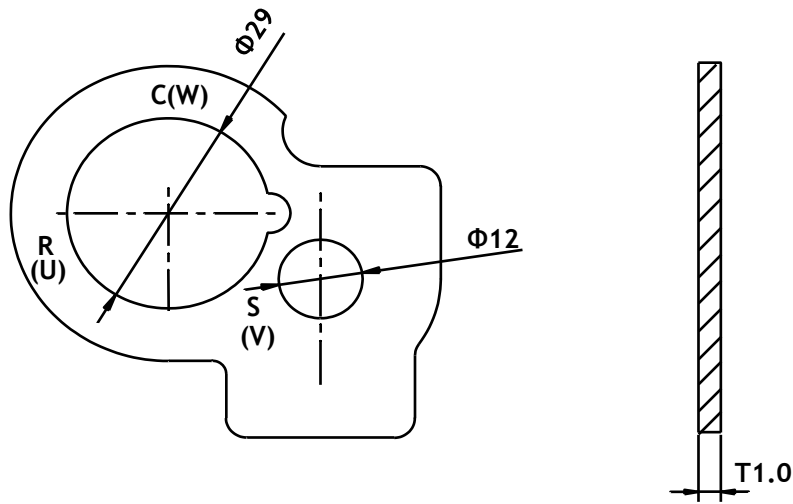


MATERIAL	COLOR	REMARK
Lupox	BLACK	MARKS(C(W),R(U),S(V))

Gasket

Drawing No. 4986UTL004A

(UNIT : mm)

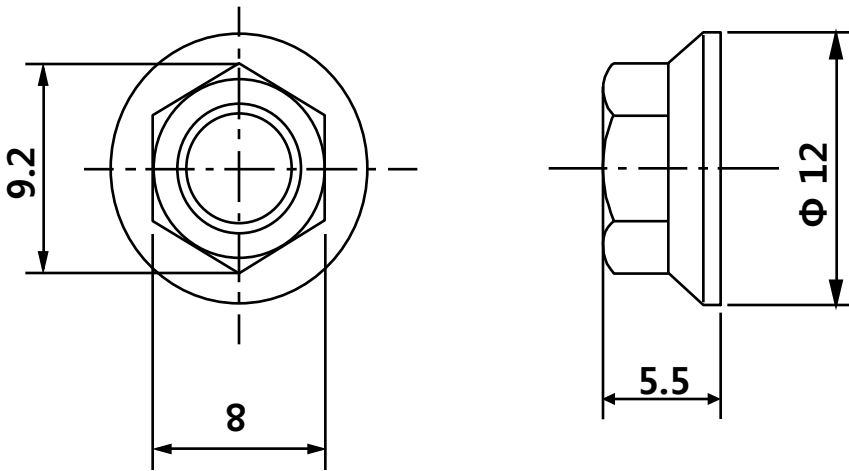


MATERIAL	REMARK
silicon	MARKS (C(W),R(U),S(V))

Nut, Commom

Drawing No. 1NZZUTL001A

(UNIT : mm)

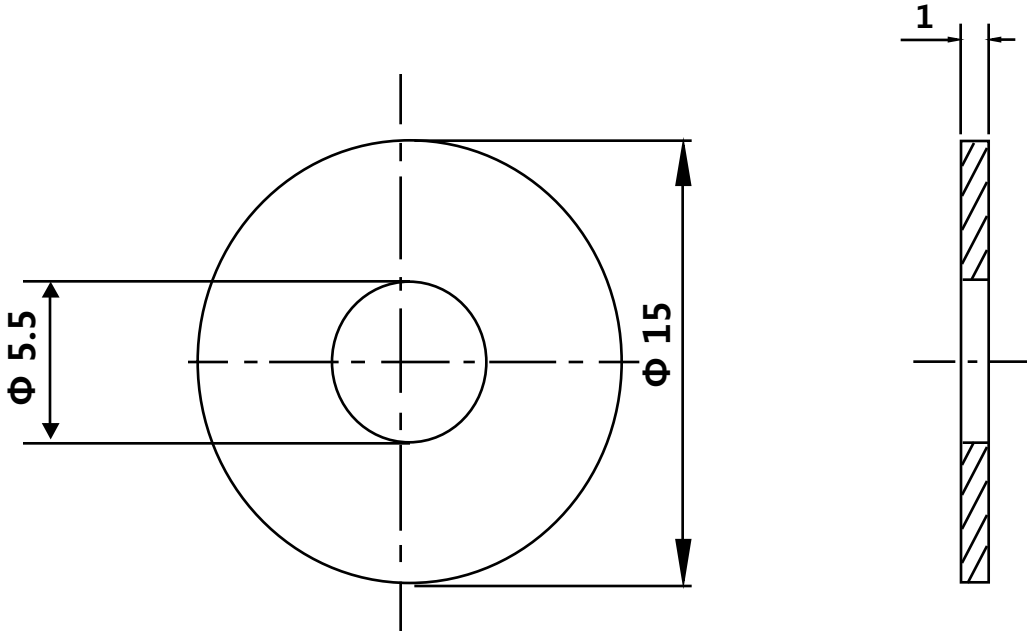


* MATERIAL : STEEL (ELECTRIC PLATING OF ZINC)

Washer, Customized

Drawing No. 1WZZUTL001A

(UNIT : mm)

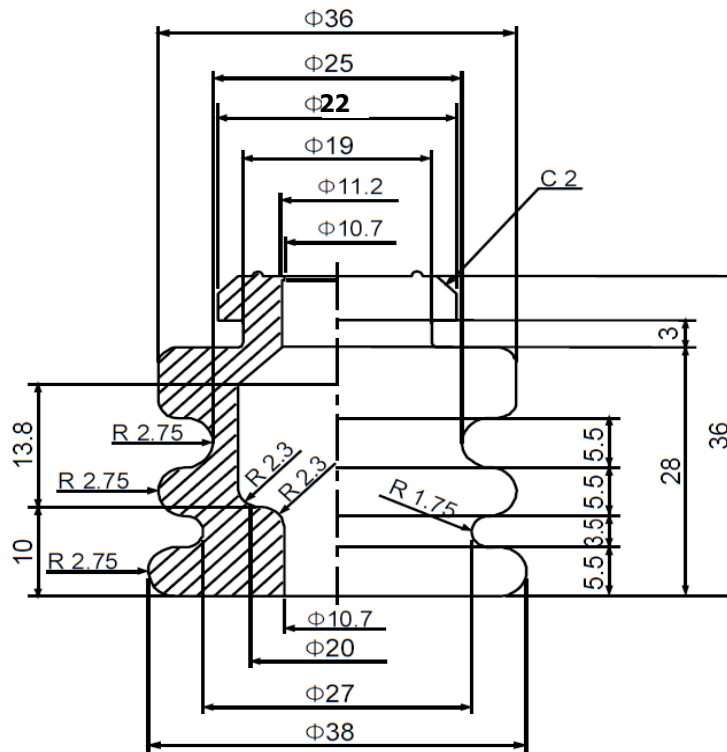


* MATERIAL : POLYAMIDE (NYLON)

Damper, Rubber

Drawing No. 4022UTL002B

(UNIT : mm)



•MATERIAL : NATURAL RUBBER

PERFORMANCE TABLE

MODEL : DAT156MA (3PH, DC 380V-45Hz)

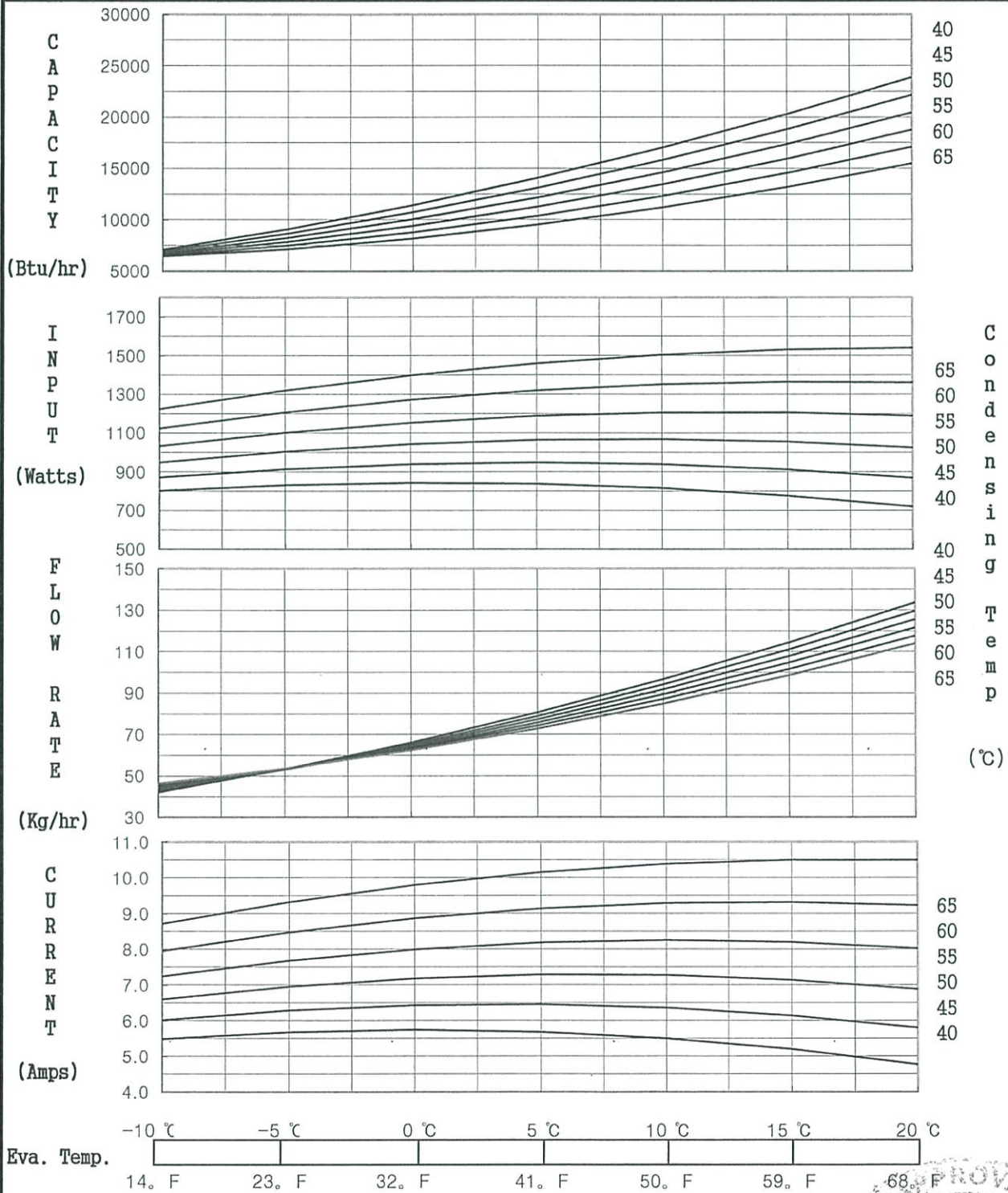
Saturated .		Saturated Condensing Temperature						
Evaporating	Items	40°C	45°C	50°C	55°C	60°C	65°C	
Temperature		(104°F)	(113°F)	(122°F)	(131°F)	(140°F)	(149°F)	
-10°C (14°F)	Capacity	(Btu/h)	7087	6906	6748	6614	6504	6417
	Input	(Watts)	801	870	947	1032	1124	1223
	Flow Rate	(kg/h)	41.96	42.68	43.48	44.35	45.30	46.32
	EER	(Btu/W.h)	8.85	7.94	7.12	6.41	5.79	5.25
	Current	(Amps)	5.49	6.01	6.60	7.25	7.95	8.72
-5°C (23°F)	Capacity	(Btu/h)	9094	8655	8239	7847	7479	7134
	Input	(Watts)	830	913	1003	1101	1206	1319
	Flow Rate	(kg/h)	53.18	53.09	53.08	53.15	53.29	53.50
	EER	(Btu/W.h)	10.95	9.48	8.21	7.13	6.20	5.41
	Current	(Amps)	5.68	6.28	6.95	7.68	8.47	9.32
0°C (32°F)	Capacity	(Btu/h)	11416	10719	10046	9396	8770	8167
	Input	(Watts)	842	938	1042	1153	1272	1398
	Flow Rate	(kg/h)	66.02	65.13	64.31	63.57	62.90	62.31
	EER	(Btu/W.h)	13.56	11.42	9.64	8.15	6.90	5.84
	Current	(Amps)	5.74	6.43	7.18	8.00	8.87	9.80
5°C (41°F)	Capacity	(Btu/h)	14055	13100	12169	11261	10377	9517
	Input	(Watts)	837	946	1064	1188	1320	1460
	Flow Rate	(kg/h)	80.49	78.79	77.16	75.61	74.14	72.74
	EER	(Btu/W.h)	16.79	13.84	11.44	9.48	7.86	6.52
	Current	(Amps)	5.68	6.46	7.29	8.19	9.14	10.16
10°C (50°F)	Capacity	(Btu/h)	17010	15797	14608	13442	12300	11182
	Input	(Watts)	815	937	1068	1206	1351	1504
	Flow Rate	(kg/h)	96.59	94.08	91.64	89.28	87.00	84.79
	EER	(Btu/W.h)	20.88	16.85	13.68	11.15	9.10	7.44
	Current	(Amps)	5.50	6.36	7.28	8.25	9.29	10.39
15°C (59°F)	Capacity	(Btu/h)	20281	18810	17363	15939	14540	13163
	Input	(Watts)	775	911	1055	1206	1365	1531
	Flow Rate	(kg/h)	114.31	110.99	107.75	104.58	101.49	98.47
	EER	(Btu/W.h)	26.17	20.65	16.46	13.22	10.65	8.60
	Current	(Amps)	5.20	6.14	7.14	8.20	9.32	10.50
20°C (68°F)	Capacity	(Btu/h)	23868	22139	20434	18753	17095	15461
	Input	(Watts)	718	867	1025	1189	1361	1541
	Flow Rate	(kg/h)	133.65	129.53	125.48	121.50	117.60	113.78
	EER	(Btu/W.h)	33.25	25.52	19.94	15.77	12.56	10.03
	Current	(Amps)	4.77	5.80	6.88	8.02	9.23	10.49

PERFORMANCE CURVE

MODEL : DAT156MA (3PH, DC 380V-45Hz)

● **Rated Condition**

Evaporating Temp.	7.2 °C	45.0 °F	Motor Type	: BLDC
Condensing Temp.	54.4 °C	130.0 °F	Running Capacitor :	
Suction Gas Temp.	35.0 °C	95.0 °F		
Subcooled Temp.	8.3 °C	15.0 °F		
Ambient Temp.	35.0 °C	95.0 °F	Based on	220V



PERFORMANCE TABLE

MODEL : DAT156MA (3PH,DC 380V-67Hz)

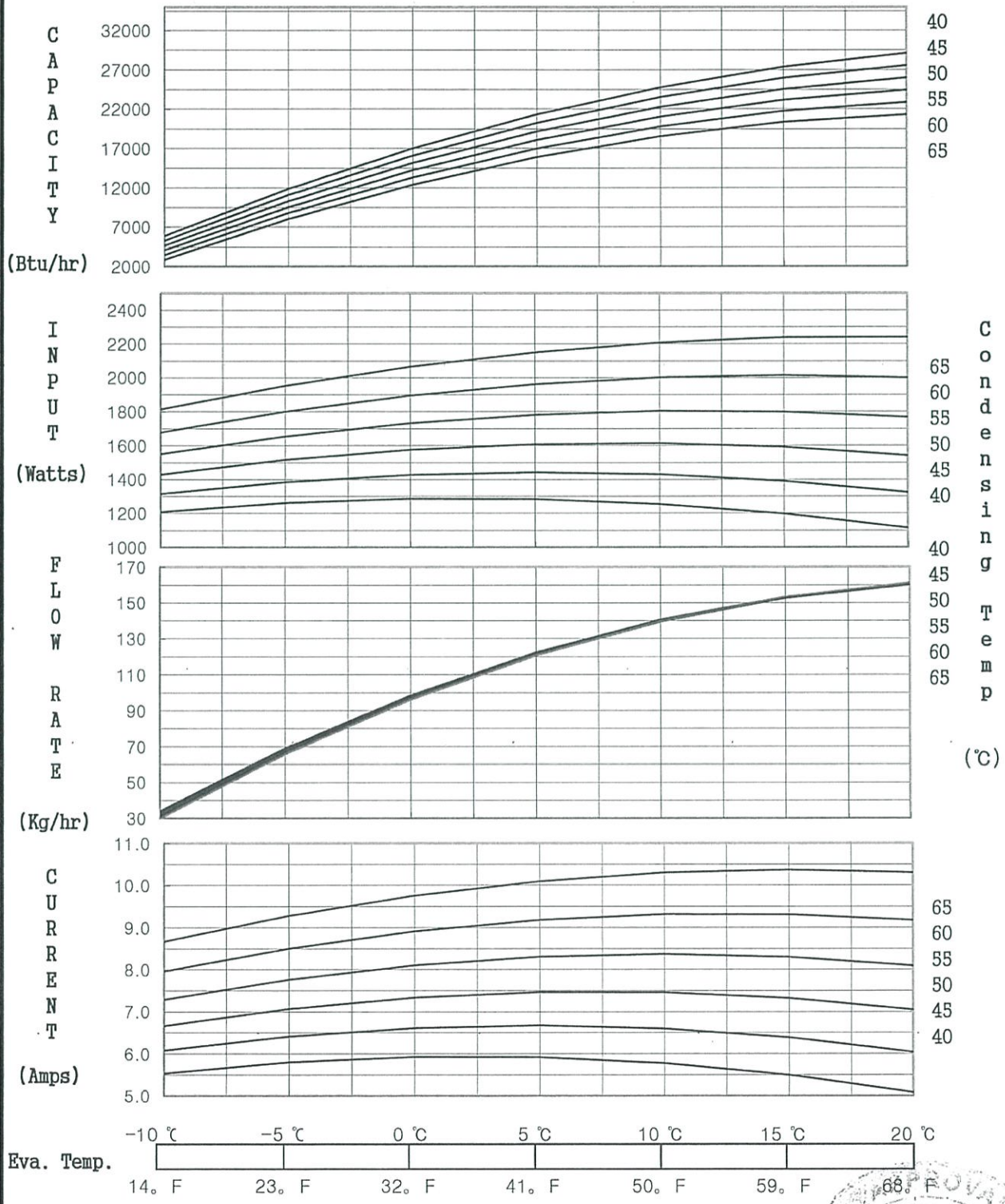
Saturated Evaporating Temperature	Items		Saturated Condensing Temperature					
			40°C (104°F)	45°C (113°F)	50°C (122°F)	55°C (131°F)	60°C (140°F)	65°C (149°F)
-10°C (14°F)	Capacity	(Btu/h)	5866	5250	4637	4029	3424	2824
	Input	(Watts)	1208	1314	1428	1549	1678	1814
	Flow Rate	(kg/h)	33.98	32.83	31.85	31.04	30.38	29.89
	EER	(Btu/W.h)	4.86	3.99	3.25	2.60	2.04	1.56
	Current	(Amps)	5.53	6.08	6.66	7.29	7.96	8.67
-5°C (23°F)	Capacity	(Btu/h)	11860	11085	10314	9547	8783	8024
	Input	(Watts)	1261	1384	1515	1654	1800	1953
	Flow Rate	(kg/h)	69.05	68.07	67.25	66.60	66.11	65.78
	EER	(Btu/W.h)	9.41	8.01	6.81	5.77	4.88	4.11
	Current	(Amps)	5.80	6.41	7.07	7.76	8.50	9.28
0°C (32°F)	Capacity	(Btu/h)	17007	16073	15143	14217	13295	12377
	Input	(Watts)	1286	1427	1575	1731	1895	2066
	Flow Rate	(kg/h)	98.51	97.69	97.04	96.55	96.22	96.05
	EER	(Btu/W.h)	13.23	11.26	9.61	8.21	7.02	5.99
	Current	(Amps)	5.92	6.61	7.33	8.10	8.91	9.76
5°C (41°F)	Capacity	(Btu/h)	21306	20213	19125	18040	16960	15883
	Input	(Watts)	1283	1442	1608	1782	1962	2151
	Flow Rate	(kg/h)	122.36	121.70	121.21	120.88	120.72	120.71
	EER	(Btu/W.h)	16.60	14.02	11.89	10.13	8.64	7.39
	Current	(Amps)	5.92	6.67	7.46	8.30	9.18	10.10
10°C (50°F)	Capacity	(Btu/h)	24758	23507	22260	21016	19777	18542
	Input	(Watts)	1254	1430	1613	1804	2003	2208
	Flow Rate	(kg/h)	140.59	140.10	139.77	139.61	139.60	139.76
	EER	(Btu/W.h)	19.75	16.44	13.80	11.65	9.88	8.40
	Current	(Amps)	5.77	6.60	7.46	8.37	9.31	10.30
15°C (59°F)	Capacity	(Btu/h)	27363	25953	24547	23145	21747	20353
	Input	(Watts)	1197	1390	1591	1800	2015	2238
	Flow Rate	(kg/h)	153.22	152.89	152.72	152.72	152.88	153.20
	EER	(Btu/W.h)	22.87	18.67	15.43	12.86	10.79	9.09
	Current	(Amps)	5.49	6.38	7.32	8.30	9.31	10.37
20°C (68°F)	Capacity	(Btu/h)	29120	27552	25987	24427	22870	21317
	Input	(Watts)	1112	1323	1542	1768	2001	2241
	Flow Rate	(kg/h)	160.23	160.06	160.06	160.22	160.54	161.03
	EER	(Btu/W.h)	26.18	20.82	16.86	13.82	11.43	9.51
	Current	(Amps)	5.08	6.04	7.04	8.09	9.17	10.30

PERFORMANCE CURVE

MODEL : DAT156MA (3PH,DC 380V-67Hz)

● **Rated Condition**

Evaporating Temp.	7.2 °C	45.0 °F	Motor Type	: BLDC
Condensing Temp.	54.4 °C	130.0 °F	Running Capacitor :	
Suction Gas Temp.	35.0 °C	95.0 °F		
Subcooled Temp.	8.3 °C	15.0 °F		
Ambient Temp.	35.0 °C	95.0 °F	Based on 220V	



PERFORMANCE TABLE

MODEL : DAT156MA (3PH,DC 380V-90Hz)

Saturated Evaporating Temperature	Items		Saturated Condensing Temperature					
			40°C (104°F)	45°C (113°F)	50°C (122°F)	55°C (131°F)	60°C (140°F)	65°C (149°F)
-10°C (14°F)	Capacity	(Btu/h)	14163	13908	13488	12903	12152	11236
	Input	(Watts)	1581	1773	1965	2156	2347	2538
	Flow Rate	(kg/h)	82.95	85.57	87.25	88.00	87.81	86.68
	EER	(Btu/W.h)	8.96	7.84	6.87	5.98	5.18	4.43
	Current	(Amps)	6.02	6.60	7.22	7.89	8.61	9.38
-5°C (23°F)	Capacity	(Btu/h)	18712	18042	17206	16206	15040	13708
	Input	(Watts)	1714	1913	2111	2310	2508	2706
	Flow Rate	(kg/h)	109.06	110.50	111.00	110.56	109.18	106.86
	EER	(Btu/W.h)	10.92	9.43	8.15	7.02	6.00	5.07
	Current	(Amps)	6.22	6.85	7.53	8.26	9.04	9.87
0°C (32°F)	Capacity	(Btu/h)	23490	22404	21154	19737	18156	16409
	Input	(Watts)	1793	1999	2205	2410	2616	2821
	Flow Rate	(kg/h)	135.89	136.14	135.45	133.83	131.26	127.76
	EER	(Btu/W.h)	13.10	11.21	9.59	8.19	6.94	5.82
	Current	(Amps)	6.31	7.01	7.75	8.54	9.38	10.27
5°C (41°F)	Capacity	(Btu/h)	28497	26996	25330	23498	21501	19339
	Input	(Watts)	1819	2032	2245	2458	2670	2882
	Flow Rate	(kg/h)	163.43	162.49	160.62	157.81	154.06	149.38
	EER	(Btu/W.h)	15.67	13.29	11.28	9.56	8.05	6.71
	Current	(Amps)	6.31	7.06	7.87	8.72	9.62	10.57
10°C (50°F)	Capacity	(Btu/h)	33732	31816	29734	27487	25075	22497
	Input	(Watts)	1791	2012	2232	2452	2671	2890
	Flow Rate	(kg/h)	191.68	189.56	186.50	182.50	177.57	171.70
	EER	(Btu/W.h)	18.83	15.82	13.32	11.21	9.39	7.78
	Current	(Amps)	6.21	7.02	7.88	8.80	9.76	10.77
15°C (59°F)	Capacity	(Btu/h)	39197	36865	34368	31706	28878	25885
	Input	(Watts)	1711	1938	2165	2392	2619	2845
	Flow Rate	(kg/h)	220.64	217.33	213.09	207.91	201.79	194.74
	EER	(Btu/W.h)	22.91	19.02	15.87	13.25	11.03	9.10
	Current	(Amps)	6.01	6.88	7.80	8.78	9.80	10.87
20°C (68°F)	Capacity	(Btu/h)	44890	42143	39231	36153	32910	29501
	Input	(Watts)	1577	1811	2046	2280	2513	2747
	Flow Rate	(kg/h)	250.31	245.82	240.40	234.03	226.73	218.49
	EER	(Btu/W.h)	28.47	23.27	19.18	15.86	13.09	10.74
	Current	(Amps)	5.71	6.64	7.62	8.66	9.74	10.87

PERFORMANCE CURVE

MODEL : DAT156MA (3PH,DC 380V-90Hz)

● **Rated Condition**

Evaporating Temp.	7.2 °C	45.0 °F	Motor Type	: BLDC
Condensing Temp.	54.4 °C	130.0 °F	Running Capacitor :	
Suction Gas Temp.	35.0 °C	95.0 °F		
Subcooled Temp.	8.3 °C	15.0 °F		
Ambient Temp.	35.0 °C	95.0 °F	Based on	220V

