



SIAM COMPRESSOR
INDUSTRY CO., LTD.



ROTARY

COMPRESSOR
Catalogue



C o n t e n t

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Global Mitsubishi Compressor Production Bases



MITSUBISHI ELECTRIC, SHIZUOKA WORKS (MELSHI)



MITSUBISHI ELECTRIC (GUANGZHOU) COMPRESSOR CO., LTD. (MGC)



SIAM COMPRESSOR INDUSTRY CO., LTD. (SCI)

Company Profile

Siam Compressor Industry Co., Ltd. (SCI) is Thailand's first manufacturer of rotary compressor for room air conditioner. SCI was founded on May 25, 1990 as a subsidiary of Mitsubishi Electric Corporation of Japan, a world leader in compressor technology with over 70 years of experience. So successful was SCI in the first year of production that we were able to open a second plant only five years later, on December 16, 1995. Further milestones since then have been the inauguration of our research and development centre in 1998, the launching of a new ozone - friendly compressor that does not use HCFC coolant in 1999 and the opening of a third plant on October 16, 2002 and recently, the opening of the forth plant in June 2012.

Since 2003, SCI has been producing Advanced Scroll Compressor utilizing Frame - Complaint Mechanism technology, thus saving energy and minimizing energy loss due to friction. SCI remains at the forefront of the global compressor industry in terms of technical progress, efficiency of production, the competence of our trained staff and our ongoing expansion.

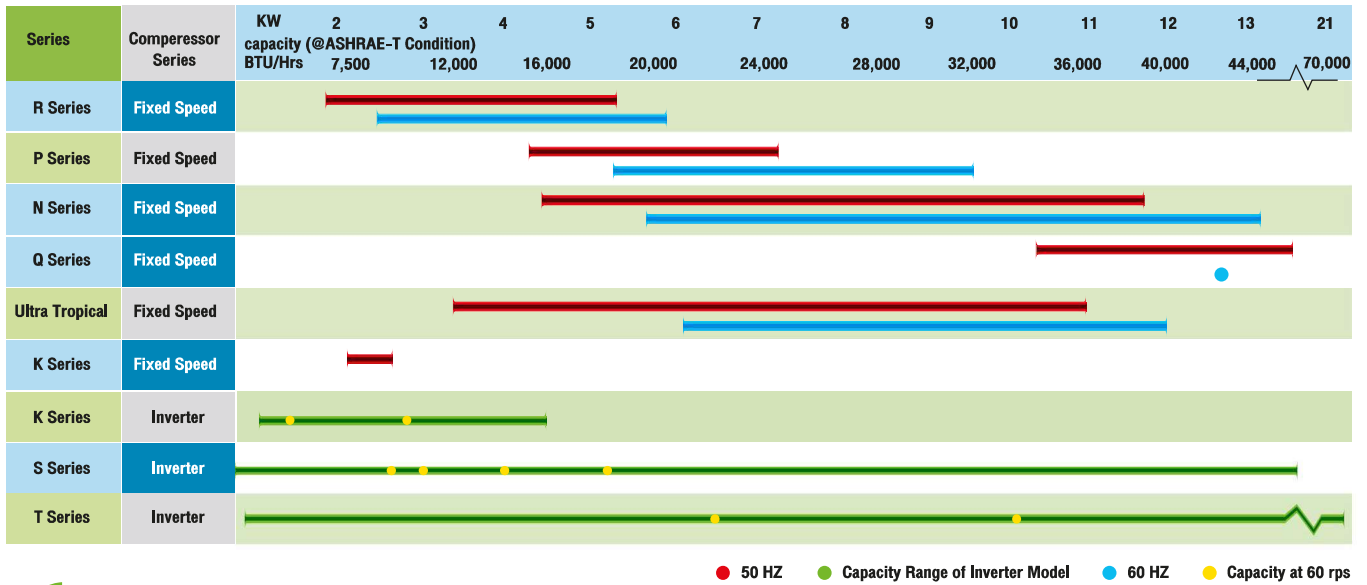
In 2013, SCI received the Good Factory Awards for Factory Management in Japan, SCI has been performing many outstanding activities such as the development, the supply chain management, production process, and working system in factories to help strengthen management system. SCI was the first compressor manufacturer in Thailand to recieved this honorable award.

In September 2019, SCI recieved the Prime Minister's Industry Award 2019 in category - potential industry. It was the Thai government's highest official award annually granted to outstanding Thailand industries to showcase and acknowledge their initiative and effort to create advantage to development of national industries. It was such an honor and SCI is beyond proud since the award is the highest rank of industry award in national level.





Rotary Compressor Line - Up



SCI Rotary Compressor

Under Mitsubishi Electric Technology, SCI rotary compressors have a smoothly operating system, with a great performance and durability even in a tough environment zone, suitably match for variety of applications such as air-conditioning, heat pump, refrigerating showcase and ice making machine.

Efficiency : SCI has developed and designed full line - up range of superior performance compressor to serve variety of applications. This is because of SCI R&D technology advancement, modernized production process and high - graded material selection.

Alternative Refrigerant : Since SCI pays high respect to the nature and environment, SCI has developed new compressors for environmental friendly refrigerants, R-410A, R-32 and R-290 which all have low GWP and ODP rate to make sustainable world.

Reliability : SCI state - of - the - art facilities, with automatic line control and customized production technique, lead to very low defective rate and reliable product with less deviation performance. Quality control process of SCI including robot and experienced staff always assure every compressor in every production process before reaching the customers. This is a reason why Mitsubishi Electric stands for a high quality brand for more than 90 years.

Durability : SCI rotary compressors are verified by a life testing by SCI Research and Development Center that can guarantee great long term operation.

Product Variety : SCI rotary compressors are designed to customize to match different needs in each conditions of different applications such as refrigerants, operating temperature sizing, electrical supply and other special requirements.



Testing Condition

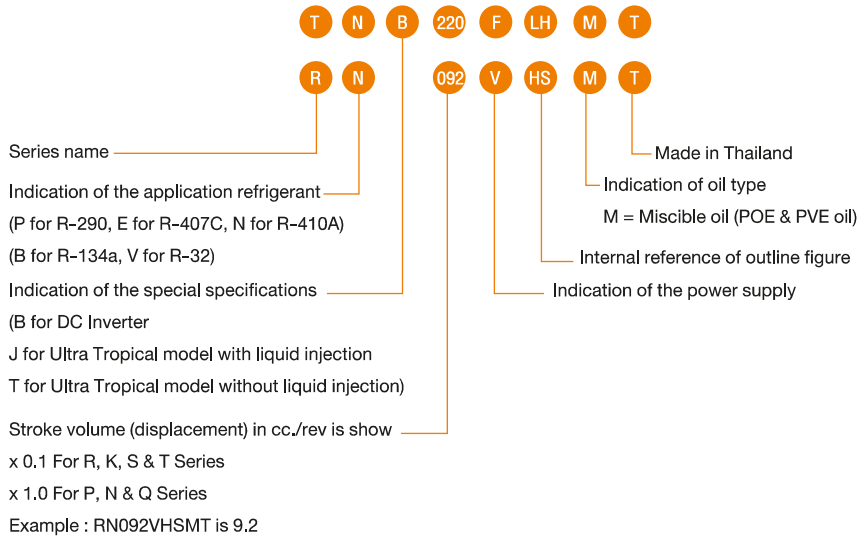
ASRE-T Testing Condition : Evaporating Temp. 7.2°C (45°F), Return Gas Temp. 35°C (95°F), Condensing Temp. 54.4°C (130°F), Liquid Temp. 46°C (115°F), Ambient Temp. 35°C (95°F)

ARI Testing Condition : Evaporating Temp. 7.2°C (45°F), Return Gas Temp. 18.3°C (65°F), Condensing Temp. 54.4°C (130°F), Liquid Temp. 46°C (115°F), Ambient Temp. 35°C (95°F)



Rotary Compressor

General Information SCI R-410A, R-134a, R-32, R-407C, R-290, Ultra Tropical

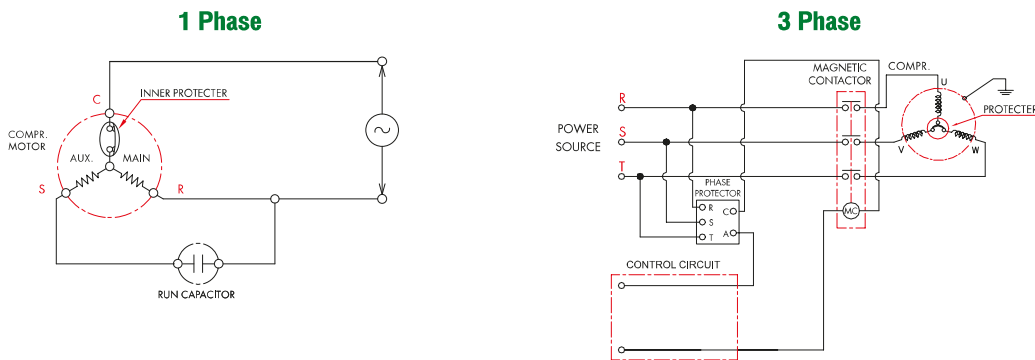


Power Supply Symbol

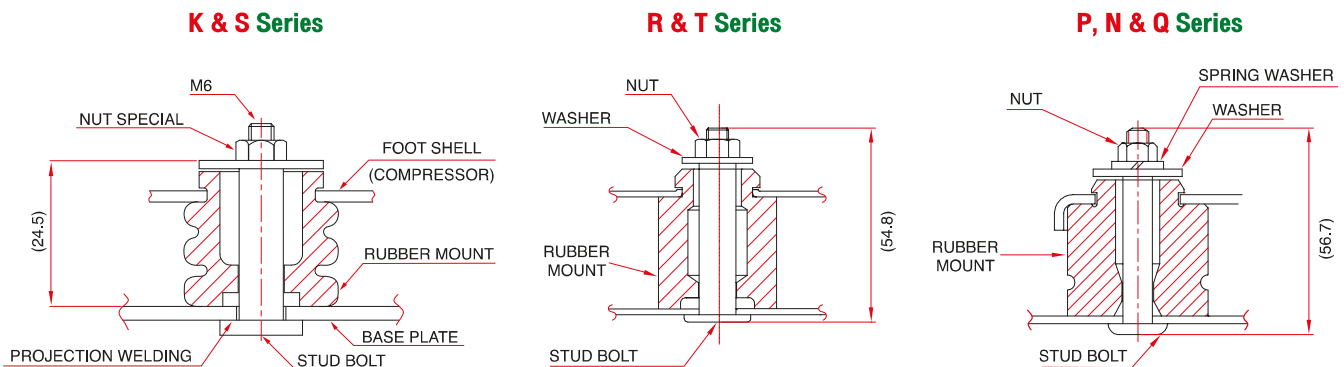
Symbol	Phase	Rated Voltage (V)	Rated Frequency (Hz)	Note
N	1	208 - 230	60	-
V	1	220 - 240	50	-
W	1	115 - 120	60	A
C	1	200 - 220	50	A
H	1	265 - 277	60	A
T	3	200/200 - 230	50/60	B
Y	3	380 - 415/400(460)	50/60	B
F	3	Inverter	Variable	-

Note : A = Available in some model of R series
B = Available in some model of N series

Wiring Diagram



Mounting Assembly





Rotary Compressor Accessories

Compressor Accessories :

<p>R Series</p> <p>1 Terminal Cover 2 Packing 3 Flange Nut 4 Rubber Washer 5 Rubber Mount</p>	<p>K series</p> <p>1 Terminal Cover 2 Packing 3 Flange Nut 4 Rubber Washer 5 Rubber Mount</p>	<p>P & N & Q Series</p> <p>1 Terminal Cover 2 Gasket 3 Clip 4 Rubber Mount</p>
<p>S Series</p> <p>1 Terminal Cover 2 Packing 3 Flange Nut 4 Rubber Washer 5 Rubber Mount</p>	<p>T Series</p> <p>1 Terminal Cover 2 Packing 3 Flange Nut 4 Rubber Washer 5 Rubber Mount</p>	



Thermoacoustic shell

Features :

- 10dBA sound reduction compare with same compressor model without thermoacoustic shell
- Easy to fit
- Optional for sound sensitive application such as metropolitan shops and retailers in residential areas
- Stable compressor operation, performance reliability for heating application (Heat pump)
- Increase efficiency for heating application

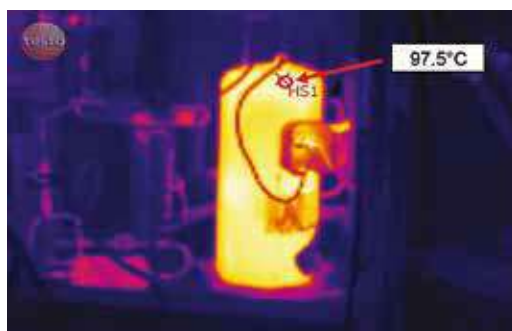


Model for S-Series

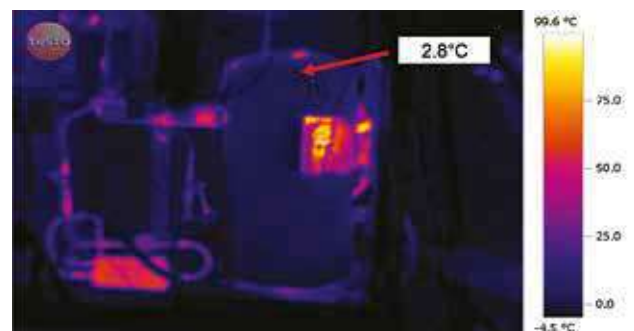


Model for T-Series

Heat loss by thermo camera :



Without insulation



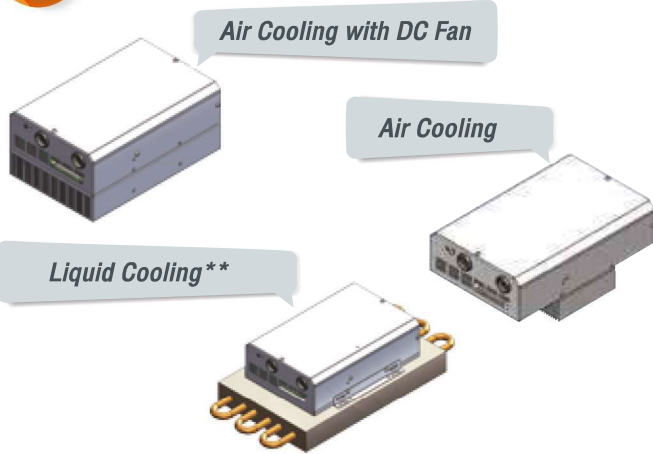
Thermoacoustic Shell



SCI Inverter Driver

- Complete Matching between driver & Compressor
- Compressor Package Solution

Standard :

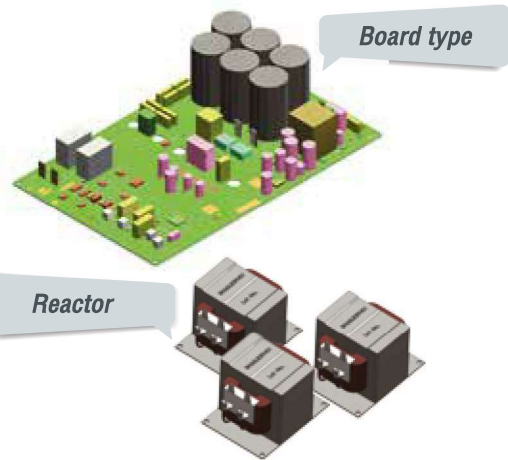


Optional :



Feature :

- Operating temperature -20°C to $+60^{\circ}\text{C}$, 2 to 95%RH (Non-condensing, Non-freezing)
- Efficiency more than 95%
- Low harmonic distortion (Power factor up to 0.99)
- Built-in Overcurrent protection
- Built-in Compressor control envelop
- Built-in Motor Heat function
- Built-in Oil management control
- Water/Refrigerant loop cooling for liquid cooling type



EMC Standard : IEC61800-3

- Emission Class C1
- Radiation Class B (Household)

Leakage Current <3mA

- AC Reactor (3pcs/set) : IEC61000-3-2 ($\leq 16\text{A}$ input)
- DC Reactor (1pc/set) : IEC61000-3-12 ($\leq 75\text{A}$ input)

SCI Inverter Driver Line-up :

	4.2 kW	6 kW 6.6 kW	10.5 kW	14 kW			
3P 400 V							
1P 230 V							
Capacity R-290	8	12	14	16	20	(kW)	
Displacement	22	30.6	36	42	52	(cm ³)	
Capacity R-404A		14	18	28	32	(kW)	
Displacement		33	42	66	78	(cm ³)	
Capacity R-448A		12	16	22	26	32	36 (kW)
R-449A		33	42	52	66	78	87 (cm ³)
Displacement							
Capacity R-410A	10	12	16	18	24	26	34 (kW)
R-32	17.2	22	30.6	28	36	42	52 (cm ³)
Displacement							

*At ARI Condition





Inverter Technology

Inverter-driven system promotes maximum compressor efficiency. The system detects subtle temperature changes and automatically adjust its capacity output. These lead to stabilizing temperature, minimizing power consumption, and optimizing humidity control.

Inverter system can control over room temperature to deliver appropriate capacity which is a smart technology that can suitably match cooling and heating performance with operating requirements at specific location so the system can ensure that a room will stay with steady temperature and comfort.

Conventional compressor operates at a fixed speed with on and off repetitively, on the other hand, inverter compressor has controller which can control power output to fit with variable operating environment as well as optimize system therefore amazingly performance in any variant load is ensured throughout the system by means of unit customization and design.

With a proper design concept, the system can reach as higher SEER as 64% comparing with other VRF technology.



Inverter Benefits

- 1) Precision Temperature Control : unnoticeable swing in temperature because of its adaptation of capacity to match with any variable conditions automatically.
- 2) High Efficiency : deliver only the energy needed to satisfy the cooling or heating condition, thereby saving both energy and cash.
- 3) Humidity Control : enjoy greater comfortable climate with desired level of humidity at a glance.
- 4) Compact size and light weight : Owing to motor speed changing technology of inverter compressor, the inverter compressor is more compact size and light weight more than 30% comparing with other Variable Refrigerant Flow (VRF) technology.



Touch with Advanced Inverter Technology

Optimum inverter system is accompanied with delicate design and easy for development. Our inverter designing service team has customized full solution offering, inverter consulting and intense unit testing service. Our long reputation services and experienced supports are the reasons why anyone can touch MITSUBISHI INVERTER TECHNOLOGY.



Inverter Rotary Compressor Specifications

R-410A Inverter Rotary Compressor

Models	Capacity Range						Performance at 60 rps						Weight (kgs.)	Oil (cc.)	Drawing Number
	(min ~ max)						Capacity		Input		COP.	EER.			
	Watt		Kcal/hr		Btu/hr		W	BTU/hr	Watt	Amps	(w/w)	(Btu/hr*w)			
a) DC Inverter 200 V	Min	Max	Min	Max	Min	Max									
KNB092FDAMT (25-115 RPS)	1,042	4,792	896	4,120	3,554	16,349	2,500	8,530	830	3.10	3.01	10.28	7.3	300	48
SNB092FQAMT (15-130 RPS)	615	5,330	529	4,583	2,098	18,186	2,460	8,394	820	2.90	3.00	10.24	8.0	350	33
SNB110FGYMT (15-130 RPS)	850	7,367	731	6,334	2,900	25,135	3,400	11,601	1,035	7.00	3.29	11.21	7.8	350	33
SNB130FGBMT (10-130 RPS)	605	7,865	520	6,762	2,064	26,835	3,630	12,386	1,140	5.40	3.18	10.86	8.0	450	33
SNB130FQYMT (15-130 RPS) (UL)	1,025	8,883	881	7,638	3,497	30,310	4,100	13,989	1,245	8.40	3.29	11.24	8.1	350	33
SNB172FEKMT (15-130 RPS)	1,175	10,183	1,010	8,756	4,009	34,746	4,700	16,036	1,560	6.70	3.01	10.28	8.6	400	34
SNB172FQGMT (15-130 RPS) (UL)	1,365	11,830	1,174	10,171	4,657	40,364	5,460	18,630	1,640	8.10	3.33	11.36	8.7	400	34
SNB220FBGMT (10-120 RPS)	1,140	14,820	980	12,742	3,890	50,566	6,840	23,338	2,060	7.20	3.32	11.33	10.5	700	49
TNB220FLHMT (15-120 RPS)	1,678	13,420	1,442	11,539	5,724	45,789	6,710	22,895	2,270	9.70	2.96	10.09	14.0	870	31
TNB306FPGMT (15-120 RPS)	2,470	19,760	2,124	16,990	8,428	67,421	9,880	33,711	3,010	13.50	3.28	11.20	16.0	870	30
b) DC Inverter 400 V	Min	Max	Min	Max	Min	Max									
SNB220FBAMT (10-120 RPS)	1,140	13,680	980	11,762	3,890	46,676	6,840	23,338	2,040	6.20	3.35	11.44	10.5	700	49

ASRE-T Condition

R-32 Inverter Rotary Compressor

Models	Capacity Range						Performance at 60 rps						Weight (kgs.)	Oil (cc.)	Drawing Number
	(min ~ max)						Capacity		Input		COP.	EER.			
	Watt		Kcal/hr		Btu/hr		W	BTU/hr	Watt	Amps	(w/w)	(Btu/hr*w)			
a) DC Inverter 200 V	Min	Max	Min	Max	Min	Max									
KVB053FUNMT (25-95 RPS)	708	2,690	609	2,313	2,416	9,178	1,700	5,800	585	3.70	2.91	9.92	5.0	270	1
SVB092FBAMT (10-130 RPS)	480	6,260	413	5,382	1,638	21,359	2,890	9,861	940	3.70	3.07	10.49	8.0	350	33
SVB130FBBMT (10-130 RPS)	570	9,070	490	7,798	1,945	30,947	4,200	14,330	1,320	6.40	3.18	10.86	8.0	350	33
SVB172FCKMT (10-130 RPS)	690	10,790	593	9,277	2,354	36,815	5,640	19,244	1,810	8.70	3.12	10.63	8.7	400	34
SVB220FBGMT (10-120 RPS)	1,188	14,260	1,021	12,261	4,053	48,655	7,130	24,328	2,250	7.90	3.17	10.81	10.5	460	49
TVB306FPGMT (15-120 RPS)	2,482	19,860	2,134	17,076	8,469	67,762	9,930	33,881	3,350	15.00	2.96	10.11	16.0	870	30
b) DC Inverter 400 V	Min	Max	Min	Max	Min	Max									
SVB220FBAMT (10-120 RPS)	1,188	14,260	1,022	12,261	4,055	48,655	7,130	24,328	2,280	6.50	3.13	10.67	10.5	460	49

ARI Condition

R-290 Inverter Rotary Compressor

Models	Capacity Range						Performance at 60 rps						Weight (kgs.)	Oil (cc.)	Drawing Number
	(min ~ max)						Capacity		Input		COP.	EER.			
	Watt		Kcal/hr		Btu/hr		W	BTU/hr	Watt	Amps	(w/w)	(Btu/hr*w)			
a) DC Inverter 200V	Min	Max	Min	Max	Min	Max									
SPB172FCKMT (15-120 RPS)	775	6,200	666	5,331	2,644	21,154	3,100	10,577	880	4.10	3.52	12.02	8.5	300	34
SPB220F01MT (15-120 RPS)	988	7,900	849	6,792	3,369	26,955	3,950	13,477	1,130	4.10	3.50	11.93	10.3	460	49
TPB220FCHMT (15-120 RPS)	990	7,920	851	6,810	3,378	27,023	3,960	13,512	1,240	5.40	3.19	10.90	13.6	450	54
TPB306FCHMT (15-120 RPS)	1,390	11,120	1,195	9,561	4,743	37,941	5,560	18,971	1,710	7.30	3.25	11.09	13.7	450	54

ARI Condition





Operation standards and limits of R-410A Inverter Rotary Compressor

Models	KNB	SNB	TNB
Compressor			
Type	Single Rotary DC inverter	Twin Rotary DC inverter	
Displacement (cm ³ /rev.)	9.2	9.2 - 22.0	22.0 - 30.6
Refrigerant type	R-410A		
Pressure			
Maximum Condensing	0.20 MPaG ~ 4.15 MPaG (29 psiG - 602 psiG)	1.68 MPaG ~ 4.15 MPaG (243.6 psiG - 602.0 psiG)	0.20 MPaG ~ 4.15 MPaG (29 psiG - 602 psiG)
Evaporating	0.20 MPaG ~ 1.6 MPaG (29 psiG - 232.1 psiG)	0.47 MPaG ~ 1.15 MPaG (68.1 psiG - 166.8 psiG)	0.20 MPaG ~ 1.6 MPaG (29 psiG - 232.1 psiG)
Compression Ratio	9 or less (See Note 1)		
Abnormal Rise in pressure	6.86 MPaG (994.9 psiG) or less	6.86 MPaG (994.9 psiG) or less	5.88 MPaG (852.8 psiG) or less
Temperature			
Condensing	-27°C ~ 65°C	-28°C ~ 65°C	-27°C ~ 65°C
Evaporating	-27°C ~ 26°C	-10°C ~ 15°C	-27°C ~ 26°C
Discharged Gas (max)	120°C (248°F), In case of Heat pump or De-humidifier, this limit is 115°C (239°F) (See Note 2)		
Suction Gas (max)	must be over 0°C (No liquid back) (See Note 2)		
Discharged gas's superheat	20°C or more		
Outdoor Ambient Temp.	Air cond: 20°C ~ 43°C (68.0°F ~ 109.4°F), Heat pump: -10°C ~ 43°C (14.0°F ~ 109.4°F)		
Electrical			
Supply voltage (during operation)	The compressor must be operated on the proper voltage in accordance with the frequency (or the revolution) as shown the performance curve. The applied voltage's phase of the compressor must be nearly accoded with the phase of rotor in the compressor. The operation voltage shall be the terminal voltage of the compressor during operation.		
Starting voltage	(Asynchronous drive at start-up) The compressor motor must be oprated by suitable power supply voltage and revolution for unit condition without reverse rotation. The unit condition at start-up must balanced the high/low pressure at 1.64 Mpa for SNB and 2.49 Mpa for TNB		
Reverse phase (rotation)	Compressor is not design to run reverse phase		
Frequency range	See in compressor specification		
ON/OFF			
ON/OFF Frequency	Less than 170,000 cycles		
ON/OFF Cycle	1. The ON/OFF cycle shall be a maximum of 10 time/hour. 2. OFF time shall be the time until the high side and low side pressure reach to balance pressure (more than 3 minutes)		
Pipe Stress	3.5 Kg / mm ² or less at start and stop condition (1.8 kg/mm ² during operation)		
Refrigerant Circuit			
Maximum Refrigerant Charge	See detail in Compressor Technical Manual		
Piping vibration	Maximum 0.8 mm.		
Inclination of compressor	Within 5°		
Evacuation level	Degree of vaccum equivalent to about 133 Pa (abs) (1.0 mmHg)		
Piping length between indoor and outdoor units	Max. 15 m. (See also Note 3)	Max. 20 m. (See also Note 3)	
Elevation between indoor and outdoor units	Max. 7 m. (See also Note 3)	Max. 15 m. (See also Note 3)	

- Note :
1. High compression ratio test; C.T./E.T. = 62/-12°C; has been performed already.
 2. The temperature must be lower than this critical value even the unit has been using for many years.
 3. These Piping Length and Elevation for all series are based on piping size following this; Liquid : Ø 9.52 mm. (3/8"), Gas : Ø 15.88 mm. (5/8")
 4. Specifications subject to change without notice.





Operation standards and limits of

R-32/R-290 Inverter Rotary Compressor

Models	KVB	SVB	TVB	SPB	TPB
Compressor					
Type	Single Rotary DC inverter		Twin Rotary DC inverter		
Displacement (cm ³ /rev.)	5.3	9.2 - 17.2	13.5 - 31.3	9.2 - 22.0	22.0 - 36.5
Refrigerant type	R-32			R-290	
Pressure					
Maximum Condensing	0.20 MPaG ~ 4.17 MPaG (29 psiG - 604.8 psiG)			0.07 MPaG ~ 3.15 MPaG (10.2 psiG - 457.0 psiG)	
Evaporating	0.20 MPaG ~ 1.59 MPaG (29 psiG - 230.6 psiG)			0.07 MPaG ~ 0.69 MPaG (10.2 psiG - 100.1 psiG)	
Compression Ratio	9 or less (See Note 1)			8 or less	
Abnormal Rise in pressure	-		5.88 MPaG (852.8 psiG) or less	-	
Temperature					
Condensing	-28°C ~ 64°C			-30°C ~ 82°C	
Evaporating	-28°C ~ 25°C			-30°C ~ 18°C	
Discharged Gas (max)	115°C (239°F)			120°C (248°F)	
Suction Gas (max)	must be over 0°C (No liquid back) (See Note 2)			must be over 0°C (No liquid back) (See Note 2)	
Discharged gas's superheat	20°C or more			10°C or more	
Outdoor Ambient Temp.	Air cond : 20°C ~ 43°C (68°F ~ 109.4°F), Heat pump : -10°C ~ 43°C (14°F ~ 109.4°F)			-	
Electrical					
Supply voltage (during operation)	The compressor must be operated on the proper voltage in accordance with the frequency (or the revolution) as shown the performance curve. The applied voltage's phase of the compressor must be nearly accoded with the phase of rotor in the compressor. The operation voltage shall be the terminal voltage of the compressor during operation.				
Starting voltage	(Asynchronous drive at start-up) The compressor motor must be oprated by suitable power supply voltage and revolution for unit condition without reverse rotation. The unit condition at start-up must balanced pressure.				
Reverse phase (rotation)	Compressor is not design to run reverse phase				
Frequency range	See in compressor specification				
ON/OFF					
ON/OFF Frequency	Less than 170,000 cycles				
ON/OFF Cycle	1. The ON/OFF cycle shall be a maximum of 10 time/hour. 2. OFF time shall be the time until the high side and low side pressure reach to balance pressure (more than 3 minutes)				
Pipe Stress	3.5 kg/mm ² or less at start and stop condition (1.8 kg/mm ² during operation)				
Refrigerant Circuit					
Maximum Refrigerant Charge	See detail in Compressor Technical Manual				
Piping vibration	Maximum 0.8 mm.				
Inclination of compressor	Within 5°				
Evacuation level	Degree of vaccum equivalent to about 133 Pa (abs) (1.0 mmHg)				
Piping length between indoor and outdoor units	Max. 15 m. (See also Note 3)	Max. 20 m. (See also Note 3)	Max. 15 m. (See also Note 3)	Max. 15 m. (See also Note 3)	Max. 20 m. (See also Note 3)
Elevation between indoor and outdoor units	Max. 7 m. (See also Note 3)	Max. 15 m. (See also Note 3)	Max. 7 m. (See also Note 3)	Max. 7 m. (See also Note 3)	Max. 15 m. (See also Note 3)

- Note :
1. High compression ratio test; C.T./E.T. = 62/-12°C; has been performed already.
 2. The temperature must be lower than this critical value even the unit has been using for many years.
 3. These Piping Length and Elevation for all series are based on piping size following this; Liquid : Ø 9.52 mm. (3/8"), Gas : Ø 15.88 mm. (5/8")
 4. Specifications subject to change without notice.



R-410A Fixed Speed Rotary Compressor Specifications for HVAC (1)

KN Fixed Speed Rotary Compressor for R-410A

Models	Capacity			Input		Normal Output		COP. (W/W)	EER. (Btu/hr*w)	Run Cap. (mF/VAC)	Weight (kgs.)	Oil (cc.)	Drawing Number
	W	Kcal/hr	Btu/hr	Watt	Amps	HP	KW.						
a) Electrical 50 Hz : 220 – 240 Volt : 1 Phase													
KN096VACMT	2,290	1,969	7,813	830	3.80	0.9	0.65	2.76	9.41	25/370	9.9	300	47
KN104VABMT	2,500	2,150	8,530	880	4.10	0.9	0.70	2.84	9.69	25/370	10.2	300	46

RN/RNT Fixed Speed Rotary Compressor for R-410A

Models	Capacity			Input		Normal Output		COP. (W/W)	EER. (Btu/hr*w)	Run Cap. (mF/VAC)	Weight (kgs.)	Oil (cc.)	Drawing Number
	W	Kcal/hr	Btu/hr	Watt	Amps	HP	KW.						
a) Electrical 50 Hz : 220 – 240 Volt : 1 Phase													
RN092VHSMT	2,240	1,926	7,643	770	3.60	0.8	0.60	2.91	9.93	20/370	13.8	300	4
RN096VHSMT	2,340	2,012	7,984	805	3.70	0.9	0.65	2.91	9.92	20/370	13.8	300	4
RN099VHSMT	2,390	2,055	8,155	820	3.80	0.9	0.65	2.91	9.94	25/370	13.7	300	4
RN104VHSMT	2,510	2,158	8,564	865	4.00	0.9	0.70	2.90	9.90	25/370	13.8	300	4
RN110VHSMT	2,680	2,304	9,144	920	4.20	1.0	0.75	2.91	9.94	25/370	13.8	300	4
RN117VHSMT	2,850	2,450	9,724	975	4.40	1.1	0.80	2.92	9.97	25/370	13.8	300	4
RN125VHSMT	3,050	2,622	10,407	1,050	4.90	1.1	0.80	2.90	9.91	25/370	13.8	300	4
RN130VHSMT	3,160	2,717	10,782	1,080	5.00	1.1	0.85	2.93	9.98	30/370	15.9	520	24
RN135VHSMT	3,290	2,829	11,225	1,120	5.20	1.2	0.90	2.94	10.02	30/370	15.8	520	24
RN140VHSMT	3,430	2,949	11,703	1,170	5.40	1.2	0.90	2.93	10.00	30/370	15.8	520	24
RN145VHSMT	3,570	3,069	12,181	1,220	5.80	1.3	1.00	2.93	9.98	30/370	15.8	520	24
RN154VHSMT	3,820	3,284	13,034	1,320	6.20	1.5	1.10	2.89	9.87	30/400	15.8	520	24
RN165VHSMT	4,070	3,499	13,887	1,410	6.60	1.5	1.10	2.89	9.85	30/400	15.8	520	24
RN174VHSMT	4,230	3,637	14,433	1,460	6.80	1.6	1.20	2.90	9.89	35/400	15.8	520	24
RN196VHSMT	4,800	4,127	16,378	1,680	7.90	1.7	1.30	2.86	9.75	40/370	14.5	520	45
RN220VHSMT	5,480	4,712	18,698	1,920	8.80	2.1	1.60	2.85	9.74	45/370	16.5	520	6
RNT196VACMT	4,800	4,128	16,378	1,640	7.70	1.8	1.37	2.93	9.99	50/420	16.7	420	41
RNT207VBDMT	5,060	4,352	17,265	1,700	7.80	1.9	1.40	2.98	10.16	50/420	16.9	420	41
b) Electrical 60 Hz : 115 – 120 Volt : 1 Phase													
RN092WHDMT (UL)	2,856	2,456	9,745	959	8.45	0.9	0.65	2.98	10.16	70/220	13.8	300	4
RN099WHDMT (UL)	2,960	2,545	10,100	1,020	9.11	0.9	0.70	2.90	9.90	75/220	13.7	300	4
RN104WHDMT (UL)	3,119	2,682	10,642	1,065	9.40	0.9	0.70	2.93	9.99	75/220	13.8	300	4
RN110WHDMT (UL)	3,280	2,820	11,191	1,113	9.84	0.9	0.70	2.95	10.06	75/220	13.7	300	4
RN125WHDMT (UL)	3,770	3,241	12,863	1,280	11.42	1.1	0.80	2.95	10.05	80/220	13.7	300	4
RN140WHDMT (UL)	4,258	3,661	14,528	1,461	12.90	1.2	0.90	2.91	9.94	85/220	15.8	300	24
c) Electrical 60 Hz : 265 – 277 Volt : 1 Phase													
RN099HHSMT (UL)	2,780	2,390	9,485	1,015	3.87	0.9	0.65	2.74	9.35	25/400	13.7	300	4
RN110HHSMT (UL)	2,720	2,339	9,281	920	4.27	0.8	0.62	2.96	10.09	30/400	13.7	300	4
RN125HHSMT (UL)	2,900	2,493	9,895	1,060	4.85	0.9	0.65	2.74	9.33	30/400	13.8	300	4
RN140HHCMT (UL)	3,430	2,949	11,703	1,190	5.80	1.3	1.00	2.88	9.83	40/400	13.4	300	4
RN154HHSMT (UL)	3,600	3,095	12,283	1,330	6.12	1.2	0.88	2.71	9.24	30/400	15.8	520	24
d) Electrical 60 Hz : 208 – 230 Volt : 1 Phase													
RN092NHTMT (UL)	2,870	2,468	9,792	910	4.30	1.1	0.80	3.15	10.76	25/370	15.9	440	24
RN096NHTMT (UL)	3,010	2,588	10,270	970	4.60	1.2	0.87	3.10	10.59	30/370	15.9	440	24
RN110NHTMT (UL)	3,400	2,923	11,601	1,090	5.07	1.3	0.96	3.12	10.64	30/370	15.9	440	24
RN117NHTMT (UL)	3,680	3,164	12,556	1,160	5.40	1.3	1.00	3.17	10.82	30/370	15.9	440	24
RN125NHTMT (UL)	3,890	3,345	13,273	1,230	5.70	1.3	1.00	3.16	10.79	30/370	15.9	440	24
RN135NHTMT (UL)	3,980	3,422	13,580	1,335	6.13	1.6	1.17	2.98	10.17	35/400	16.0	520	24

ASRE-T Condition



R-410A Fixed Speed Rotary Compressor Specifications for HVAC (2)

RN/RNT Fixed Speed Rotary Compressor for R-410A

Models	Capacity			Input		Normal Output		COP. (W/W)	EER. (Btu/hr*W)	Run Cap. (mF/VAC)	Weight (kgs.)	Oil (cc.)	Drawing Number
	W	Kcal/hr	Btu/hr	Watt	Amps	HP	KW.						
d) Electrical 60 Hz : 208 – 230 Volt : 1 Phase													
RN140NHTMT (UL)	4,440	3,818	15,149	1,370	6.41	1.6	1.21	3.24	11.06	35/400	16.0	520	24
RN145NHTMT (UL)	4,280	3,680	14,603	1,440	6.55	1.7	1.25	2.97	10.14	35/370	16.0	520	24
RN154NHTMT (UL)	4,900	4,213	16,719	1,520	7.25	1.8	1.35	3.22	11.00	35/400	16.0	520	24
RN165NHTMT (UL)	4,900	4,213	16,719	1,660	7.88	1.9	1.42	2.95	10.07	35/400	16.0	520	24
RN174NHTMT (UL)	5,480	4,712	18,698	1,710	8.22	2.0	1.49	3.20	10.93	35/370	16.0	520	24
RN196NHTMT (UL)	5,816	5,001	19,844	1,985	9.17	2.2	1.66	2.93	10.00	45/400	16.0	520	24
RN220NHTMT (UL)	6,500	5,589	22,178	2,275	10.35	2.5	1.86	2.86	9.75	45/370	16.5	520	6
RNT154NBAMT	4,620	3,973	15,763	1,540	7.10	2.0	1.49	3.00	10.24	45/370	17.1	420	41
RNT174NCDMT	5,100	4,386	17,401	1,670	7.80	2.0	1.49	3.05	10.42	45/370	17.2	420	41
RNT207NBBMT	6,190	5,323	21,120	2,040	9.30	2.4	1.76	3.03	10.35	55/400	16.0	440	41

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PN/PNT Fixed Speed Rotary Compressor for R-410A

Models	Capacity			Input		Normal Output		COP. (W/W)	EER. (Btu/hr*W)	Run Cap. (mF/VAC)	Weight (kgs.)	Oil (cc.)	Drawing Number
	W	Kcal/hr	Btu/hr	Watt	Amps	HP	KW.						
a) Electrical 50 Hz : 220 – 240 Volt : 1 Phase													
PN23VAAMT	5,860	5,038	19,994	1,990	9.40	2.3	1.70	2.94	10.05	55/400	23.7	900	26
PN25VAAMT	6,360	5,468	21,700	2,165	10.00	2.4	1.80	2.94	10.02	60/440	23.7	900	26
PN27VAAMT	6,800	5,847	23,202	2,290	10.70	2.5	1.90	2.97	10.13	65/420	24.5	900	26
PN31VBBMT	7,900	6,792	26,955	2,660	12.30	3.0	2.20	2.97	10.13	65/420	24.0	900	35
PN33VABMT	8,490	7,300	28,968	2,920	13.30	3.1	2.30	2.91	9.92	65/420	24.5	900	32
PNT25VBHMT	6,150	5,288	20,984	2,080	9.60	2.3	1.70	2.96	10.09	60/440	22.5	670	35
b) Electrical 60 Hz : 208 – 230 Volt : 1 Phase													
PN23NABMT	7,165	6,160	24,447	2,440	11.30	2.0	1.50	2.94	10.02	40/440	23.7	900	25
PN25NABMT	7,660	6,586	26,136	2,645	12.30	2.1	1.60	2.90	9.88	40/440	23.7	900	25
PN27NABMT	8,320	7,154	28,388	2,810	13.00	2.3	1.70	2.96	10.10	45/440	23.7	900	25
PNT24NBJMT	7,190	6,182	24,532	2,360	11.00	2.7	1.98	3.05	10.40	60/400	23.1	670	35
c) Electrical 50 Hz : 380 – 415 Volt : 3 Phases													
PN31YBAMT	7,740	6,655	26,409	2,590	4.70	3.1	2.30	2.99	10.20	-	23.9	900	38
d) Electrical 50/60 Hz : 200/200 – 230 Volt : 3 Phases													
PN25TACMT	6,370	5,477	21,734	2,160	8.20	2.4	1.80	2.95	10.06	-	23.7	900	28

ASRE-T Condition

NN/NNT Fixed Speed Rotary Compressor for R-410A

Models	Capacity			Input		Normal Output		COP. (W/W)	EER. (Btu/hr*W)	Run Cap. (mF/VAC)	Weight (kgs.)	Oil (cc.)	Drawing Number
	W	Kcal/hr	Btu/hr	Watt	Amps	HP	KW.						
a) Electrical 50 Hz : 220 – 240 Volt : 1 Phase													
NN21VBAMT	5,400	4,643	18,425	1,820	8.30	1.7	1.30	2.97	10.12	50/400	29.2	1200	15
NN23VBAMT	5,800	4,987	19,790	1,950	9.20	2.0	1.50	2.97	10.15	50/400	29.2	1200	15
NN25VBAMT	6,300	5,417	21,496	2,120	9.80	2.1	1.60	2.97	10.14	50/420	29.8	1200	15
NN27VBAMT	6,720	5,778	22,929	2,260	10.40	2.3	1.70	2.97	10.15	55/400	30.4	1200	15
NN29VAAMT	7,400	6,363	25,249	2,440	11.20	2.5	1.90	3.03	10.35	55/400	31.3	1300	16
NN31VAAMT	7,960	6,844	27,160	2,620	12.20	2.7	2.00	3.04	10.37	55/400	31.3	1300	16
NN33VAAMT	8,490	7,300	28,968	2,800	13.10	3.0	2.20	3.03	10.35	55/420	31.9	1300	16
NN37VAAMT	9,400	8,082	32,073	3,130	14.70	3.4	2.50	3.00	10.25	60/420	31.8	1300	14
NN40VAAMT	10,200	8,770	34,802	3,430	16.10	3.6	2.70	2.97	10.15	60/440	31.9	1300	14
NNT33VAAMT	8,360	7,188	28,524	2,850	13.20	3.1	2.30	2.93	10.01	55/420	31.9	1300	16
NNT40VAAMT	10,250	8,813	34,973	3,500	16.30	4.0	3.00	2.93	9.99	60/420	31.9	1300	14

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R-410A Fixed Speed Rotary Compressor Specifications for HVAC (3)

NN/NNT Fixed Speed Rotary Compressor for R-410A

Models	Capacity			Input		Normal Output		COP. (W/W)	EER. (Btu/hr*W)	Run Cap. (mF/VAC)	Weight (kgs.)	Oil (cc.)	Drawing Number
	W	Kcal/hr	Btu/hr	Watt	Amps	HP	KW.						
b) Electrical 60 Hz : 208 – 230 Volt : 1 Phase													
NN21NBBMT (UL)	6,500	5,589	22,178	2,150	9.90	1.7	1.30	3.02	10.32	45/440	29.8	1200	21
NN23NBBMT (UL)	7,200	6,191	24,566	2,380	11.00	2.0	1.50	3.03	10.32	50/400	29.5	1200	21
NN25NBBMT (UL)	7,810	6,715	26,648	2,580	11.70	2.1	1.60	3.03	10.33	55/400	30.5	1200	21
NN27NBBMT (UL)	8,480	7,291	28,934	2,760	12.70	2.3	1.70	3.07	10.48	55/400	30.2	1200	21
NN29NBBMT (UL)	9,100	7,824	31,049	2,950	13.50	2.5	1.90	3.08	10.53	55/400	31.3	1200	21
NN31NAAMT (UL)	9,650	8,297	32,926	3,345	15.10	2.7	2.00	2.88	9.84	60/440	32.0	1300	16
NN33NAAMT (UL)	10,345	8,895	35,297	3,570	16.10	3.0	2.20	2.90	9.89	60/440	32.0	1300	16
NN37NAAMT (UL)	11,530	9,913	39,340	4,000	18.00	3.4	2.50	2.88	9.84	65/400	32.0	1300	14
NN40NAAMT (UL)	12,470	10,722	42,548	4,375	19.60	3.6	2.70	2.85	9.73	65/400	32.0	1300	14
c) Electrical 50 Hz : 380 – 415 Volt : 3 Phases													
NN21YDAMT (UL)	5,200	4,471	17,742	1,840	3.00	1.7	1.30	2.83	9.64	-	29.4	1200	18
NN25YDAMT (UL)	6,580	5,657	22,451	2,120	3.70	2.1	1.60	3.10	10.59	-	29.8	1200	18
NN27YDAMT (UL)	6,980	6,001	23,816	2,210	3.70	2.3	1.70	3.16	10.78	-	29.4	1200	18
NN29YCCMT	7,400	6,363	25,249	2,460	4.50	2.5	1.90	3.01	10.26	-	32.1	1300	17
NN31YCCMT	8,000	6,878	27,296	2,600	4.50	3.0	2.20	3.08	10.50	-	32.0	1300	17
NN33YCAMT (UL)	8,600	7,394	29,343	2,730	4.70	3.0	2.20	3.15	10.75	-	30.1	1300	17
NN37YCCMT	9,400	8,082	32,073	3,090	5.10	3.5	2.60	3.04	10.38	-	32.2	1300	22
NN40YCAMT (UL)	10,400	8,942	35,485	3,300	5.70	3.6	2.70	3.15	10.75	-	31.9	1300	22
NN44YCAMT	11,400	9,802	38,897	3,770	6.20	3.6	2.70	3.02	10.32	-	31.9	1300	22
d) Electrical 50/60 Hz : 200/200-230 Volt : 3 Phases													
NN31TDBMT	7,960	6,844	27,160	3,650	10.25	2.7	2.00	2.18	7.44	-	30.4	1300	17
NN40TKAMT	13,000	11,177	44,356	3,500	11.90	3.6	2.70	3.71	12.67	-	31.0	1300	29

QN/QNT Fixed Speed Rotary Compressor for R-410A

Models	Capacity			Input		Normal Output		COP. (W/W)	EER. (Btu/hr*W)	Run Cap. (mF/VAC)	Weight (kgs.)	Oil (cc.)	Drawing Number
	W	Kcal/hr	Btu/hr	Watt	Amps	HP	KW.						
a) Electrical 50 Hz : 220 – 240 Volt : 1 Phase													
QN42V01MT	10,280	8,839	35,075	3,650	17.10	4.0	3.00	2.82	9.61	60/370	34.2	1300	52
b) Electrical 60 Hz : 208 – 230 Volt : 1 Phase													
QN42NAAMT	12,550	10,790	42,821	4,360	19.50	5.0	3.70	2.88	9.82	65/440	34.4	1300	52
c) Electrical 50 Hz : 380 – 415 Volt : 3 Phases													
QN42Y01MT	10,480	9,011	35,758	3,470	6.10	3.9	2.90	3.02	10.30	-	34.1	1300	51
QN48Y01MT	11,770	10,120	40,159	3,910	6.70	4.6	3.40	3.01	10.27	-	35.2	1300	51
QN53YAAMT	13,000	11,177	44,356	4,430	7.80	5.0	3.70	2.93	10.01	-	34.1	1300	50
QNT42Y01MT	10,480	9,011	35,758	3,470	6.10	3.9	2.90	3.02	10.30	-	34.1	1300	53
QNT48Y01MT	11,770	10,120	40,159	3,910	6.70	4.6	3.40	3.01	10.27	-	35.2	1300	53
QNT53Y01MT	13,000	11,177	44,356	4,430	7.80	5.0	3.70	2.93	10.01	-	34.1	1300	53
d) Electrical 60 Hz : 380 – 420 Volt : 3 Phases													
QNT42X01MT	10,480	9,011	35,758	3,470	6.10	3.9	2.90	3.02	10.30	-	34.1	1300	53
QNT48X01MT	11,770	10,120	40,159	3,910	6.70	4.6	3.40	3.01	10.27	-	35.2	1300	53
QNT53X01MT	13,000	11,177	44,356	4,430	7.80	5.0	3.70	2.93	10.01	-	34.1	1300	53

ASRE-T Condition





Operation standards and limits of

R-410A Fixed Speed Rotary Compressor [1]

Models	KN	RN	PN	NN	QN
Compressor					
Type	Rolling Piston Type Rotary				
Displacement (cm ³ /rev.)	9.2 - 10.4	9.2 - 22.0	23.8 - 33.8	21.9 - 44.4	42.9 - 65.0
Refrigerant type	R-410A				
Pressure					
Maximum Condensing	0.20 MPaG ~ 4.15 MPaG (29.0 psiG - 602.0 psiG)				
Evaporating	0.20 MPaG ~ 1.60 MpaG (29.0 psiG - 232.1 psiG)				
Compression Ratio	9 or less (See Note 1)				
Abnormal Rise in pressure	5.88 MpaG (852.8 psiG) or less				
Temperature					
Condensing	-27°C ~ 65°C				
Evaporating	-27°C ~ 65°C				
Discharged Gas (max)	120°C (248°F), In case of Heat pump or De-humidifier, this limit is 115°C (239°F) (See Note 2)				
Suction Gas (max)	must be over 0°C (No liquid back) (See Note 2)				
Discharged gas's superheat	20°C or more				
Outdoor Ambient Temp.	Air cond : 20°C ~ 43°C (68.0°F ~ 109.4°F), Heat pump : -10°C ~ 43°C (14.0°F ~ 109.4°F)				
Electrical					
Supply voltage (during operation)	Rated voltage ±10%				The compressor must be operated on the rated voltage ±10%. Provided the rated voltage 208 - 230 V, the regulation must be within-5% for 208V, +10% for 230 V. The operation voltage shall be the terminal voltage of the compressor during operation.
Starting voltage	Minimum 80% of rated voltage (at 1.64 MPa balancing pressure) In case of 208 - 230 V Rated Voltage (N-code compressor), the starting voltage shall be 85% or more. This shall be measured at compressor terminal at instance of start				A voltage of 80% or more of the rated voltage shall be supplied at start-up on the high/low pressure balancing at 1.64 MPa and provided the rated voltage 208 - 230 V, the starting voltage shall be 85% or more of 208 V. The starting voltage shall be the terminal voltage of the compressor when the voltage drops due to starting current.
Reverse phase (rotation)	Compressor is not design to run reverse phase				
Frequency range	Rated Frequency ± 2%				
ON/OFF					
ON/OFF Frequency	Less than 170,000 cycles				
ON/OFF Cycle	1. The ON/OFF cycle shall be a maximum of 10 time/hour. 2. OFF time shall be the time until the high side and low side pressure reach to balance pressure (more than 3 minutes)				
Pipe Stress	3.5 Kg / mm ² or less at start and stop condition (1.8 kg/mm ² during operation)				
Refrigerant Circuit					
Maximum Refrigerant Charge	See detail in Compressor Technical Manual				
Piping vibration	Maximum 0.8 mm.				
Inclination of compressor	Within 5°				
Evacuation level	Degree of vaccum equivalent to about 133 Pa (abs) (1.0 mmHg)				
Piping length between indoor and outdoor units	Max. 15 m. (See also Note 3)	Max. 15 m. For RN092 - RN125 Max. 20 m. For RN130 - RN220	Max. 30 m. (See also Note 3)		Max. 50 m. (See also Note 3)
Elevation between indoor and outdoor units	Max. 7 m. (See also Note 3)	Max. 7 m. For RN092 - RN125 Max. 15 m. For RN130 - RN220	Max. 20 m. (See also Note 3)		Max. 30 m. (See also Note 3)

- Note :
1. High compression ratio test ; C.T./E.T. = 62/-12°C ; has been performed already.
 2. The temperature must be lower than this critical value even the unit has been using for many years.
 3. These Piping Length and Elevation for all series are based on piping size following this; Liquid : Ø 9.52 mm. (3/8"), Gas : Ø 15.88 mm. (5/8")
 4. Specifications subject to change without notice.





Operation standards and limits of

R-410A Fixed Speed Rotary Compressor (2)

Models	RNT	PNT	NNT	QNT
Compressor				
Type	Rolling Piston Type Rotary			
Displacement (cm ³ /rev.)	15.4 - 20.7	24.0 - 25.0	33.0 - 40.0	42.9 - 65.0
Refrigerant type	R-410A			
Pressure				
Maximum Condensing	Normal Range : 1.68 MPaG ~ 4.30 MPaG (243.7 psiG - 623.7 psiG) Maximum limit : 5.00 MPaG (752.0 psiG)			
Evaporating	0.47 MPaG ~ 1.15 MpaG (68.2 psiG - 166.8 psiG)			
Compression Ratio	6 or less			
Abnormal Rise in pressure	5.88 MpaG (852.8 psiG) or less			
Temperature				
Condensing	Normal Range : 28°C ~ 68°C Maximum limit (Transient) : 75°C			
Evaporating	10°C ~ 15°C			
Discharged Gas (max)	115°C (239°F)			
Suction Gas (max)	must be over 0°C (No liquid back) (See Note 2)			
Discharged gas's superheat	20°C or more			
Outdoor Ambient Temp.	Air cond : 20°C ~ 55°C (68°F ~ 131°F), Heat pump : -10°C ~ 55°C (14°F ~ 131°F)			
Electrical				
Supply voltage (during operation)	Rated voltage ±10%		The compressor must be operated on the rated voltage ±10%. Provided the rated vpltage 208 - 230 V, the regulation must be within-5% for 208 V, +10% for 230 V. The operation voltage shall be the terminal voltage of the compressor during operation.	
Starting voltage	Minimum 80% of rated voltage (at 1.64 MPa balancing pressure) In case of 208 - 230 V Rated Voltage (N-code compressor), the starting voltage shall be 85% or more. This shall be measured at compressor terminal at instance of start		A voltage of 80% or more of the rated voltage shall be supplied at start-up on the high/low pressure balancing at 1.64 MPa and provided the rated voltage 208 - 230 V, the starting voltage shall be 85% or more of 208V. The starting voltage shall be the terminal voltage of the compressor when the voltage drops due to starting current.	
Reverse phase (rotation)	Compressor is not design to run reverse phase			
Frequency range	Rated Frequency ± 2%			
ON/OFF				
ON/OFF Frequency	Less than 170,000 cycles			
ON/OFF Cycle	1. The ON/OFF cycle shall be a maximum of 10 time/hour. 2. OFF time shall be the time until the high side and low side pressure reach to balance pressure (more than 3 minutes)			
Pipe Stress	3.5 Kg/mm ² or less at start and stop condition (1.8 kg/mm ² during operation)			
Refrigerant Circuit				
Maximum Refrigerant Charge	See detail in Compressor Technical Manual			
Evacuation level	Degree of vaccum equivalent to about 133 Pa (abs) (1.0 mmHg)			
Piping vibration	Maximum 0.8 mm.			
Inclination of compressor	Within 5°			
Evacuation level	Degree of vaccum equivalent to about 133 Pa (abs) (1.0 mmHg)			
Piping length between indoor and outdoor units	Max. 20 m. (See also Note 3)	Max. 30 m. (See also Note 3)	Max. 50 m. (See also Note 3)	
Elevation between indoor and outdoor units	Max. 15 m. (See also Note 3)	Max. 20 m. (See also Note 3)	Max. 30 m. (See also Note 3)	

Note : 1. High compression ratio test ; C.T./E.T. = 62/-12°C ; has been performed already.

2. The temperature must be lower than this critical value even the unit has been using for many years.

3. These Piping Length and Elevation for all series are based on piping size following this; Liquid : Ø 9.52 mm. (3/8"), Gas : Ø 15.88 mm. (5/8")

4. Specifications subject to change without notice.

R-32 Fixed Speed Rotary Compressor Specifications for HVAC

KV Fixed Speed Rotary Compressor for R-32

Models	Capacity			Input		Normal Output		COP. (W/W)	EER. (Btu/hr*w)	Run Cap. (mF/VAC)	Weight (kgs.)	Oil (cc.)	Drawing Number
	W	Kcal/hr	Btu/hr	Watt	Amps	HP	KW.						
a) Electrical 50 Hz : 220 – 240 Volt : 1 Phase													
KV092VBBMT	2,240	1,926	7,643	770	3.60	0.8	0.60	2.91	9.93	20/370	13.8	300	46

RV Fixed Speed Rotary Compressor for R-32

Models	Capacity			Input		Normal Output		COP. (W/W)	EER. (Btu/hr*w)	Run Cap. (mF/VAC)	Weight (kgs.)	Oil (cc.)	Drawing Number
	W	Kcal/hr	Btu/hr	Watt	Amps	HP	KW.						
a) Electrical 50 Hz : 220 – 240 Volt : 1 Phase													
RV092VDCMT	2,240	1,926	7,643	820	3.80	0.9	0.70	2.73	9.32	25/370	13.4	300	42
RV125VABMT	2,950	2,536	10,065	1,100	5.10	1.2	0.90	2.68	9.15	30/370	16.0	420	43
RV130VCAMT	3,270	2,812	11,157	1,140	5.20	1.2	0.90	2.87	9.79	30/370	14.7	420	43
RV135VCAMT	3,400	2,923	11,601	1,180	5.50	1.2	0.90	2.88	9.83	30/370	15.8	420	43
RV145VFAMT	3,700	3,181	12,624	1,280	5.90	1.4	1.04	2.89	9.86	35/370	15.9	420	40
RV174VAAMT	4,460	3,835	15,218	1,530	7.20	1.7	1.30	2.92	9.95	40/370	15.9	440	37
RV220VBBMT	5,510	4,737	18,800	1,950	9.10	2.1	1.60	2.83	9.64	45/400	16.6	440	44
RV231VFFMT	5,800	4,987	19,790	2,080	9.90	2.1	1.60	2.79	9.51	50/400	17.3	520	41
RVT125VFDMT	3,070	2,640	10,475	1,110	5.10	1.2	0.90	2.77	9.44	30/370	15.9	520	40
RVT135VFDMT	3,400	2,923	11,601	1,180	5.50	1.2	0.90	2.88	9.83	30/370	15.9	520	40
RVT174VFDMT	4,500	3,869	15,354	1,510	7.10	1.7	1.30	2.98	10.17	40/370	16.0	520	39
RVT220VBBMT	5,590	4,806	19,073	1,960	9.00	1.9	1.40	2.85	9.73	50/400	16.9	520	41

PV Fixed Speed Rotary Compressor for R-32

Models	Capacity			Input		Normal Output		COP. (W/W)	EER. (Btu/hr*w)	Run Cap. (mF/VAC)	Weight (kgs.)	Oil (cc.)	Drawing Number
	W	Kcal/hr	Btu/hr	Watt	Amps	HP	KW.						
a) Electrical 50 Hz : 220 – 240 Volt : 1 Phase													
PV23VAAMT	5,880	5,056	20,063	2,080	6.40	2.3	1.70	2.83	9.65	60/420	21.3	670	36

QV Fixed Speed Rotary Compressor for R-32

Models	Capacity			Input		Normal Output		COP. (W/W)	EER. (Btu/hr*w)	Run Cap. (mF/VAC)	Weight (kgs.)	Oil (cc.)	Drawing Number
	W	Kcal/hr	Btu/hr	Watt	Amps	HP	KW.						
a) Electrical 50 Hz : 220 – 240 Volt : 1 Phase													
QV42VAAMT	11,000	9,458	37,532	3,760	17.40	4.3	3.18	2.93	9.98	60/370	34.2	1300	52
b) Electrical 50 Hz : 380 – 415 Volt : 3 Phases													
QV42YBBMT	11,130	9,570	37,976	3,710	6.60	4.4	3.26	3.00	10.24	58/400	35.2	1300	51
QV48YBBMT	12,480	10,730	42,582	4,160	7.90	4.9	3.66	3.00	10.24	64/400	35.1	1300	51
QV53YBBMT	13,930	11,977	47,529	4,670	8.90	5.5	4.10	2.98	10.18	69/400	35.1	1300	51
QV58YBCMT	15,380	13,224	52,477	4,990	9.20	5.8	4.30	3.08	10.52	69/400	35.1	1300	51
QV65YBCMT	17,200	14,789	58,686	5,660	9.90	6.4	4.80	3.04	10.37	69/400	35.1	1300	51

ARI Condition





Operation standards and limits of R-32 Fixed speed Rotary Compressor

Models	KV	RV	PV	QV	RVT
Compressor					
Type	Rolling Piston Type Rotary				
Displacement (cm ³ /rev.)	9.2	9.2 - 23.1	23.8	42.9 - 65	12.5 - 22
Refrigerant type	R-32				
Pressure					
Maximum Condensing	0.21 MPaG ~ 4.28 MPaG (30.5 psiG ~ 620.8 psiG)		Normal Range : 0.21 MPaG ~ 3.87 MPaG (30.5 psiG ~ 561.3 psiG) Controlled Range : 3.87 MPaG ~ 4.28 MPaG (561.3 psiG ~ 620.8 psiG)		1.68 MPaG ~ 4.56 MPaG (243.7 psiG ~ 661.4 psiG)
Evaporating	0.21 MPaG ~ 1.63 MPaG (30.5 psiG ~ 236.4 psiG)		0.21 MPaG ~ 1.63 MPaG (30.5 psiG ~ 236.4 psiG)		0.47 MPaG ~ 1.40 MPaG (68.2 psiG ~ 203.1 psiG)
Compression Ratio	9 or less (See Note 1)				
Abnormal Rise in pressure	5.88 MPaG (852.8 psiG) or less				
Temperature					
Condensing	-27°C ~ 65°C		Normal Range : -27°C ~ 60.5°C Controlled Range : 60.5°C ~ 65°C		27°C ~ 68°C
Evaporating	-27°C ~ 26°C				-11°C ~ 21°C
Discharged Gas (max)	120°C (248°F), In case of Heat pump or De-humidifier, this limit is 115°C (239°F) (See Note 2)		120°C (248°F) for Normal Range 115°C (239°F) for Controlled Range In case of Heat pump or De-humidifier, this limit is 115°C (239°F) (See Note 2)		125°C (257°F)
Suction Gas (max)	must be over 0°C (No liquid back) (See Note 2)				
Discharged gas's superheat	20°C or more				
Outdoor Ambient Temp.	Air cond : 20°C ~ 50°C (68°F ~ 122°F), Heat pump : -10°C ~ 50°C (14°F ~ 122°F)			Air cond : 20°C ~ 52°C (68°F ~ 125.6°F), Heat pump : -10°C ~ 52°C (14°F ~ 125.6°F)	
Electrical					
Supply voltage (during operation)	Rated voltage ±10%		The compressor must be operated on the rated voltage ±10% Provided the rated voltage 208 - 230 V, the regulation must be within -5% for 208 V, +10% for 230 V. The operation voltage shall be the terminal voltage of the compressor during operation.		
Starting voltage	Maximum 80% of rated voltage (at 1.64 MPa balancing pressure) In case of 208 - 230 V Rated Voltage (N-code compressor), the starting voltage shall be 85% or more. This shall be measured at compressor terminal at instance of start		A voltage of 80% or more of the rated voltage shall be supplied at start-up on the high/low pressure balancing at 1.64 MPa and provided the rated voltage 208 - 230 V the starting voltage shall be 85% or more of 208 V., The starting voltage shall be the terminal voltage of the compressor when the voltage drops due to starting current.		
Reverse phase (rotation)	Compressor is not design to run reverse phase				
Frequency range	Rated Frequency ± 2%				
ON/OFF					
ON/OFF Frequency	Less than 170,000 cycles				
ON/OFF Cycle	1. The ON/OFF cycle shall be a maximum of 10 time/hour. 2. OFF time shall be the time until the high side and low side pressure reach to balance pressure (more than 3 minutes)				
Pipe Stress	3.5 kg/mm ² or less at start and stop condition (1.8 kg/mm ² during operation)				
Refrigerant Circuit					
Maximum Refrigerant Charge	See detail in Compressor Technical Manual				
Piping vibration	Maximum 0.8 mm.				
Inclination of compressor	Within 5°				
Evacuation level	Degree of vacuum equivalent to about 133 Pa (abs) (1.0 mmHg)				
Piping length between indoor and outdoor units	Max. 15 m. (See also Note 3)	Max. 15 m. for RV092 - RV125 Max. 20 m. for RV130 - RV231	Max. 30 m. (See also Note 3)	Max. 50 m. (See also Note 3)	Max. 20 m. (See also Note 3)
Elevation between indoor and outdoor units	Max. 7 m. (See also Note 3)	Max. 7 m. for RV092 - RV125 Max. 15 m. for RV130 - RV231	Max. 20 m. (See also Note 3)	Max. 30 m. (See also Note 3)	Max. 15 m. (See also Note 3)

- Note : 1. High compression ratio test ; C.T./E.T. = 62/-12°C ; has been performed already.
2. The temperature must be lower than this critical value even the unit has been using for many years.
3. These Piping Length and Elevation for all series are based on piping size following this; Liquid : Ø 9.52 mm. (3/8"), Gas : Ø 15.88 mm. (5/8")
4. Specifications subject to change without notice.



R-407C Fixed Speed Rotary Compressor Specifications for HVAC

RE Fixed Speed Rotary Compressor for R-407C

Models	Capacity			Input		Normal Output		COP. (W/W)	EER. (Btu/hr*w)	Run Cap. (mF/VAC)	Weight (kgs.)	Oil (cc.)	Drawing Number
	W	Kcal/hr	Btu/hr	Watt	Amps	HP	KW.						
a) Electrical 50 Hz : 220 – 240 Volt : 1 Phase													
RE135VHSMT	2,240	1,926	7,643	730	3.30	0.9	0.65	3.07	10.47	25/370	12.5	300	3
RE145VHSMT	2,420	2,081	8,257	790	3.60	0.9	0.70	3.06	10.45	25/370	13.2	300	3
RE154VHSMT	2,580	2,218	8,803	840	3.80	1.0	0.75	3.07	10.48	25/370	13.2	300	3
RE165VHSMT	2,770	2,382	9,451	890	4.10	1.1	0.80	3.11	10.62	25/370	13.2	300	3
RE174VHSMT	2,920	2,511	9,963	940	4.30	1.1	0.80	3.11	10.60	25/370	13.2	300	3
RE189VHSMT	3,210	2,760	10,953	1,010	4.80	1.1	0.85	3.18	10.84	30/370	15.1	520	2
RE197VHSMT	3,330	2,863	11,362	1,050	5.00	1.2	0.90	3.17	10.82	30/370	15.1	520	2
RE207VHSMT	3,329	2,862	11,359	1,147	5.20	1.3	1.00	2.90	9.90	30/370	15.1	520	2
RE231VHSMT	3,940	3,388	13,443	1,250	5.90	1.5	1.10	3.15	10.75	30/400	15.1	520	2
RE247VHSMT	4,220	3,628	14,399	1,340	6.40	1.6	1.20	3.15	10.75	35/400	15.5	520	2
RE277VHSMT	4,700	4,041	16,036	1,520	7.20	1.7	1.30	3.09	10.55	40/370	15.1	520	2
RE313VADMT	5,380	4,626	18,357	1,770	8.34	1.7	1.30	3.04	10.37	45/370	15.7	520	7
b) Electrical 60 Hz : 115 – 120 Volt : 1 Phase													
RE135WHHMT (UL)	2,850	2,450	9,724	890	7.89	0.9	0.65	3.20	10.93	75/220	13.3	300	3
RE174WHHMT (UL)	3,640	3,130	12,420	1,130	9.93	1.1	0.85	3.22	10.99	85/220	13.2	300	3
c) Electrical 60 Hz : 208 – 230 Volt : 1 Phase													
RE135NHHMT (UL)	2,720	2,339	9,281	870	4.12	0.9	0.65	3.13	10.67	25/370	13.3	300	3
RE174NHHMT (UL)	3,610	3,104	12,317	1,138	4.19	1.1	0.80	3.17	10.82	25/370	13.2	300	3
RE189NRAMT (UL)	4,000	3,439	13,648	1,280	6.00	1.2	0.90	3.13	10.66	30/370	15.1	520	2
RE207NRAMT (UL)	4,250	3,654	14,501	1,350	6.34	1.3	1.00	3.15	10.74	30/370	15.1	520	2
RE231NRAMT (UL)	4,760	4,093	16,241	1,511	6.96	1.5	1.10	3.15	10.75	30/370	15.1	520	2
RE277NRAMT (UL)	5,660	4,866	19,312	1,805	8.55	1.7	1.30	3.14	10.70	40/370	15.4	520	2

PE Fixed Speed Rotary Compressor for R-407C

Models	Capacity			Input		Normal Output		COP. (W/W)	EER. (Btu/hr*w)	Run Cap. (mF/VAC)	Weight (kgs.)	Oil (cc.)	Drawing Number
	W	Kcal/hr	Btu/hr	Watt	Amps	HP	KW.						
a) Electrical 50 Hz : 220 – 240 Volt : 1 Phase													
PE33VPEMT (4 legs)	5,777	4,967	19,711	1,850	8.60	2.0	1.50	3.12	10.65	50/370	22.7	900	12
PE36VPEMT (4 legs)	6,227	5,354	21,247	2,010	9.40	2.1	1.60	3.10	10.57	55/400	22.7	900	12
PE39VPEMT (4 legs)	6,664	5,730	22,738	2,150	10.10	2.3	1.70	3.10	10.58	60/440	22.3	900	12
PE41VPJMT (4 legs)	7,360	6,328	25,112	2,305	10.80	2.5	1.90	3.19	10.89	60/440	22.3	900	27
PE33VTEMT (3 legs)	5,777	4,967	19,711	1,850	8.60	2.0	1.50	3.12	10.65	50/370	22.7	900	13
PE36VTEMT (3 legs)	6,227	5,354	21,247	2,010	9.40	2.1	1.60	3.10	10.57	55/400	22.7	900	13
PE39VTEMT (3 legs)	6,664	5,730	22,738	2,150	10.10	2.3	1.70	3.10	10.58	60/440	22.7	900	13
PE41VTJMT (3 legs)	7,360	6,328	25,112	2,305	10.80	2.5	1.90	3.19	10.89	60/440	22.3	900	23
b) Electrical 60 Hz : 208 – 230 Volt : 1 Phase													
PE31NNBMT (3 legs) (UL)	6,347	5,457	21,656	2,040	9.50	1.7	1.30	3.11	10.62	35/370	22.1	670	10
PE33NPBMT (4 legs)	6,877	5,913	23,464	2,210	10.40	2.0	1.50	3.11	10.62	35/370	22.7	900	11
PE36NPBMT (4 legs)	7,427	6,386	25,341	2,400	11.30	2.1	1.60	3.09	10.56	35/370	22.7	900	11
PE39NPBMT (4 legs) (UL)	7,981	6,862	27,231	2,580	12.10	2.3	1.70	3.09	10.55	35/370	22.7	900	11
PE33NTBMT (3 legs) (UL)	6,877	5,913	23,464	2,210	10.40	2.0	1.50	3.11	10.62	35/370	22.7	900	9
PE36NTBMT (3 legs) (UL)	7,427	6,386	25,341	2,400	11.30	2.1	1.60	3.09	10.56	35/370	22.7	900	9
PE39NTBMT (3 legs) (UL)	7,981	6,862	27,231	2,580	12.10	2.3	1.70	3.09	10.55	35/370	22.7	900	9

NE Fixed Speed Rotary Compressor for R-407C

Models	Capacity			Input		Normal Output		COP. (W/W)	EER. (Btu/hr*w)	Run Cap. (mF/VAC)	Weight (kgs.)	Oil (cc.)	Drawing Number
	W	Kcal/hr	Btu/hr	Watt	Amps	HP	KW.						
a) Electrical 50 Hz : 220 – 240 Volt : 1 Phase													
NE41VNHMT	7,270	6,251	24,805	2,330	10.60	2.5	1.90	3.12	10.65	45/440	31.3	1300	8
NE44VNHMT	7,850	6,749	26,784	2,500	11.70	2.7	2.00	3.14	10.71	50/420	31.3	1300	8
NE47VNHMT	8,380	7,205	28,593	2,670	12.40	3.0	2.20	3.14	10.71	50/420	32.2	1300	8
NE52VNHMT	9,380	8,065	32,005	3,020	14.10	3.4	2.50	3.11	10.60	60/440	32.2	1300	20
NE56VNHMT	10,260	8,822	35,007	3,360	15.90	3.6	2.70	3.05	10.42	60/420	32.2	1300	20
b) Electrical 50/60 Hz : 380 – 415 Volt : 3 Phases													
NE41YDNMT	7,150	6,148	24,396	2,210	3.80	2.5	1.90	3.24	11.04	-	30.3	1300	19
NE44YDNMT	7,790	6,698	26,579	2,420	4.10	2.7	2.00	3.22	10.98	-	30.3	1300	19
NE47YDNMT	8,350	7,179	28,490	2,580	4.50	3.0	2.20	3.24	11.04	-	30.3	1300	19
NE52YDNMT	9,480	8,151	32,346	2,950	5.20	3.4	2.50	3.21	10.96	-	31.3	1300	19
NE56YDNMT	10,200	8,770	34,802	3,240	5.60	3.6	2.70	3.15	10.74	-	32.2	1300	19

ASRE-T Condition





Operation standards and limits of R-407C Fixed Speed Rotary Compressor

Models	RE	PE	NE
Compressor			
Type	Rolling Piston Type Rotary		
Displacement (cm ³ /rev.)	13.5 - 31.3	28.1 - 41.7	28.0 - 56.9
Refrigerant type	R-407C		
Pressure			
Maximum Condensing	1.10 MPaG ~ 2.83 MPaG (159.5 psiG - 410.4 psiG)		
Evaporating	0.26 MPaG ~ 0.73 MPaG (37.7 psiG - 105.9 psiG)		
Compression Ratio	6 or less (See Note 1)	8 or less (See Note 1)	
Abnormal Rise in pressure	4.9 MPaG (710.6 psiG) or less		
Temperature			
Condensing	28°C ~ 65°C		
Evaporating	-10°C ~ 15°C		
Discharged Gas (max)	120°C (248°F), In case of Heat pump or De-humidifier, this limit is 115°C (239°F) (See Note 2)		
Suction Gas (max)	must be over 0°C (No liquid back) (See Note 2)		
Discharged gas's superheat	20°C or more		
Outdoor Ambient Temp.	Air cond : 20°C ~ 43°C (68°F ~ 109.4°F), Heat pump : -10°C ~ 43°C (14°F ~ 109.4°F)		
Electrical			
Supply voltage (during operation)	Rated voltage ±10%		
Starting voltage	Maximum 80% of rated voltage (at 1.01 MPa balancing pressure In case of 208 - 230 V Rated Voltage (N-code compressor), the starting voltage shall be 85% or more. This shall be measured at compressor terminal at instance of start		
Reverse phase (rotation)	Compressor is not design to run reverse phase		
Frequency range	Rated Frequency ± 2%		
ON/OFF			
ON/OFF Frequency	Less than 170,000 cycles		
ON/OFF Cycle	1. The ON/OFF cycle shall be a maximum of 10 time/hour. 2. OFF time shall be the time until the high side and low side pressure reach to balance pressure (more than 3 minutes)		
Pipe Stress	3.5 kg/mm ² or less at start and stop condition (1.8 kg/mm ² during operation)		
Refrigerant Circuit			
Maximum Refrigerant Charge	See detail in Compressor Technical Manual		
Piping vibration	Maximum 0.8 mm.		
Inclination of compressor	Within 5°		
Evacuation level	Degree of vaccum equivalent to about 133 Pa (abs) (1.0 mmHg)		
Piping length between indoor and outdoor units	Max. 15 m. for RE135 - RE174 Max. 20 m. for RE189 - RE313	Max. 30 m. (See also Note 3)	
Elevation between indoor and outdoor units	Max. 7 m. for RE135 - RE174 Max. 15 m. for RE189 - RE313	Max. 20 m. (See also Note 3)	

- Note :
1. High compression ratio test ; C.T./E.T. = 62/-12°C ; has been performed already.
 2. The temperature must be lower than this critical value even the unit has been using for many years.
 3. These Piping Length and Elevation for all series are based on piping size following this; Liquid : Ø 9.52 mm. (3/8"), Gas : Ø 15.88 mm. (5/8")
 4. Specifications subject to change without notice.



R-134a Fixed Speed Rotary Compressor Specifications for HVAC

RB Fixed Speed Rotary Compressor for R-134a

Models	Capacity			Input		Normal Output		COP. (W/W)	EER. (Btu/hr*w)	Run Cap. (mF/VAC)	Weight (kgs.)	Oil (cc.)	Drawing Number
	W	Kcal/hr	Btu/hr	Watt	Amps	HP	KW.						
a) Electrical 50 Hz : 220 – 240 Volt : 1 Phase													
RB135VRYMT	1,560	1,341	5,323	500	2.30	0.6	0.43	3.12	10.65	25/370	12.7	300	3
RB145VHSMT	1,700	1,462	5,800	560	2.60	0.7	0.50	3.04	10.36	25/370	13.2	300	3
RB154VHSMT	1,740	1,496	5,937	610	2.80	0.7	0.55	2.85	9.73	25/370	13.2	300	3
RB165VHSMT	1,920	1,651	6,551	650	3.00	0.8	0.59	2.95	10.08	25/370	13.2	300	3
RB174VRXMT	2,000	1,720	6,824	640	3.00	0.8	0.60	3.13	10.66	25/370	13.5	440	5
RB189VHSMT	2,210	1,900	7,541	720	3.30	0.8	0.61	3.07	10.47	30/370	15.1	520	2
RB247VRYMT	2,880	2,476	9,827	900	4.20	1.1	0.85	3.20	10.92	30/400	15.4	520	2
RB277VHSMT	3,240	2,786	11,055	1,060	5.10	1.2	0.92	3.06	10.43	40/370	15.1	520	2

ASRE-T Condition



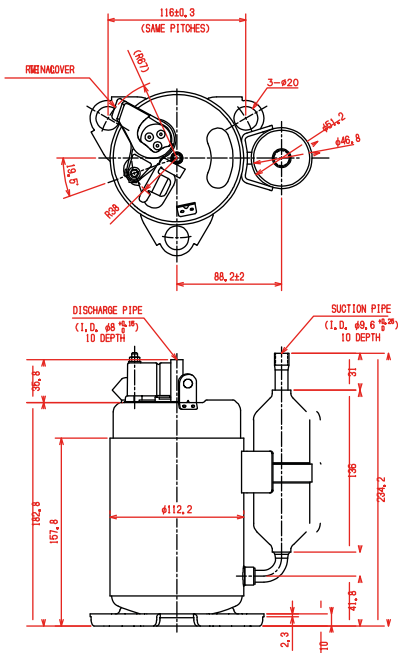


Operation standards and limits of R-134a Fixed speed Rotary Compressor

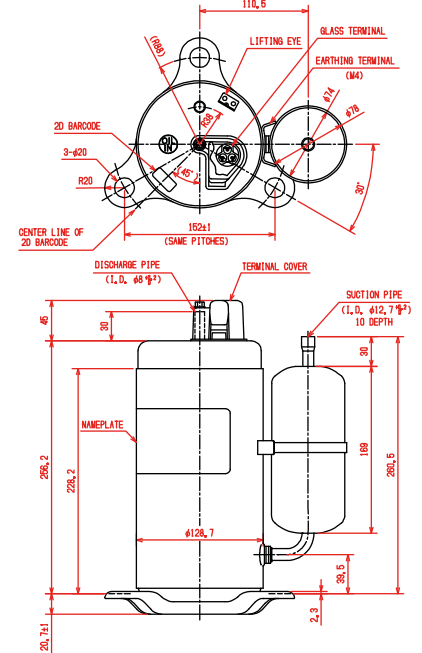
Models	RB
Compressor	
Type	Rolling Piston Type Rotary
Displacement (cm ³ /rev.)	13.5 - 31.3
Refrigerant type	R-134a
Pressure	
Maximum Condensing	0.03 MPaG ~ 2.60 MPaG (4.4 psiG - 377.1 psiG)
Evaporating	0.03 MPaG ~ 0.69 MPaG (4.4 psiG - 100.1 psiG)
Compression Ratio	10 or less (See Note 1)
Abnormal Rise in pressure	2.94 MPaG (426.4 psiG) or less
Temperature	
Condensing	-20°C ~ 81°C
Evaporating	-20°C ~ 31°C
Discharged Gas (max)	115°C (239°F), In case of Heat pump or De-humidifier, this limit is 110°C (230°F) (See Note 2)
Suction Gas (max)	must be over 0°C (No liquid back) (See Note 2)
Discharged gas's superheat	20°C or more
Outdoor Ambient Temp.	Air cond : 20°C ~ 43°C (68°F ~ 109.4°F), Heat pump : -10°C ~ 43°C (14°F ~ 109.4°F)
Electrical	
Supply voltage (during operation)	Rated voltage ±10%
Starting voltage	Maximum 80% of rated voltage (at 1.01 MPa balancing pressure) In case of 208 - 230 V Rated Voltage (N-code compressor), the starting voltage shall be 85% or more. This shall be measured at compressor terminal at instance of start
Reverse phase (rotation)	Compressor is not design to run reverse phase
Frequency range	Rated Frequency ± 2%
ON/OFF	
ON/OFF Frequency	Less than 170,000 cycles
ON/OFF Cycle	1. The ON/OFF cycle shall be a maximum of 10 time/hour. 2. OFF time shall be the time until the high side and low side pressure reach to balance pressure (more than 3 minutes)
Pipe Stress	3.5 kg/mm ² or less at start and stop condition (1.8 kg/mm ² during operation)
Refrigerant Circuit	
Maximum Refrigerant Charge	See detail in Compressor Technical Manual
Piping vibration	Maximum 0.8 mm.
Inclination of compressor	Within 5°
Evacuation level	Degree of vacuum equivalent to about 133 Pa (abs) (1.0 mmHg)
Piping length between indoor and outdoor units	Max. 15 m. for RB135 - RB174 Max. 20 m. for RB189 - RB313
Elevation between indoor and outdoor units	Max. 7 m. for RB135 - RB174 Max. 15 m. for RB189 - RB313

- Note :
1. High compression ratio test ; C.T./E.T. = 62/-12°C ; has been performed already.
 2. The temperature must be lower than this critical value even the unit has been using for many years.
 3. These Piping Length and Elevation for all series are based on piping size following this; Liquid : Ø 9.52 mm. (3/8"), Gas : Ø 15.88 mm. (5/8")
 4. Specifications subject to change without notice.

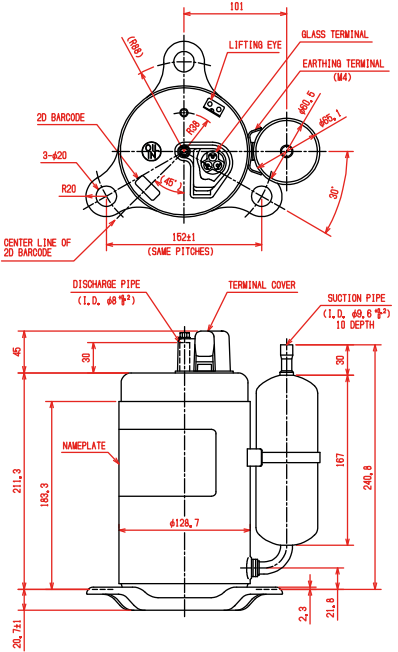
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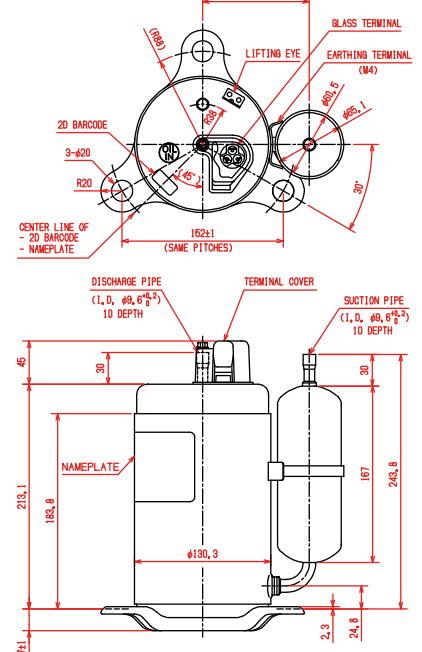
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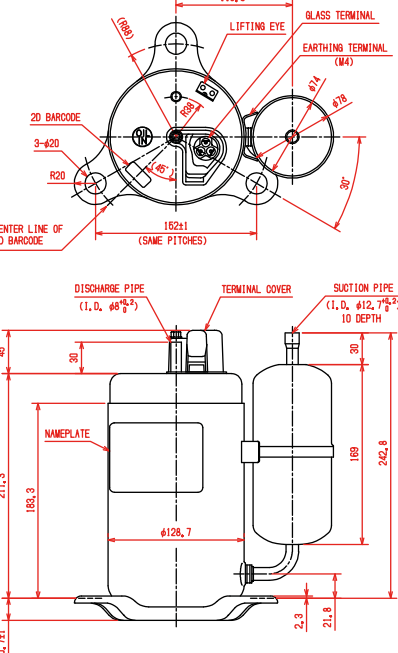
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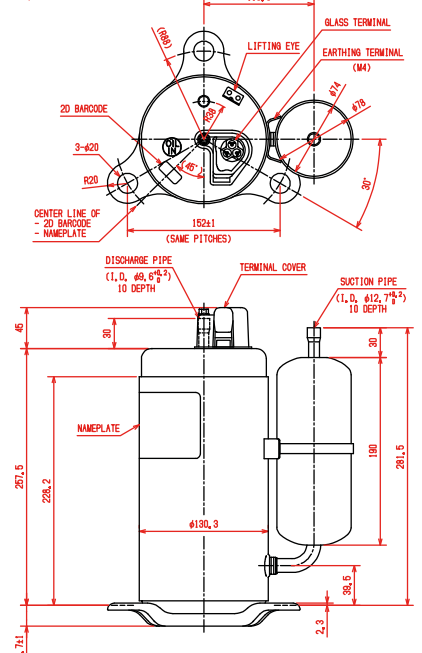
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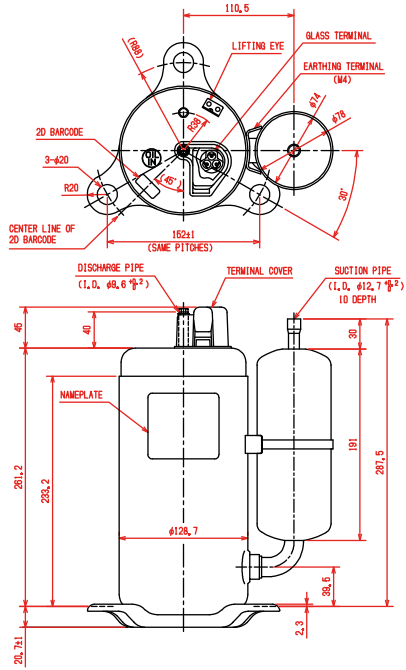
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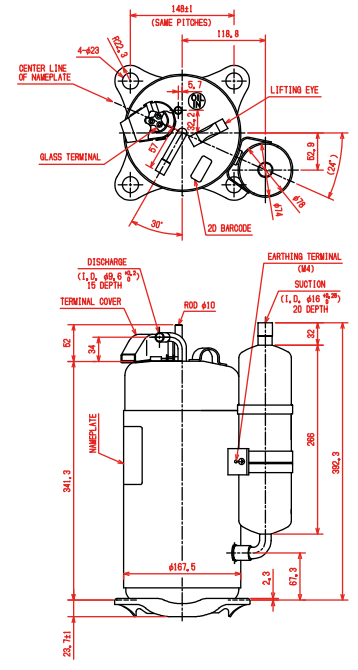
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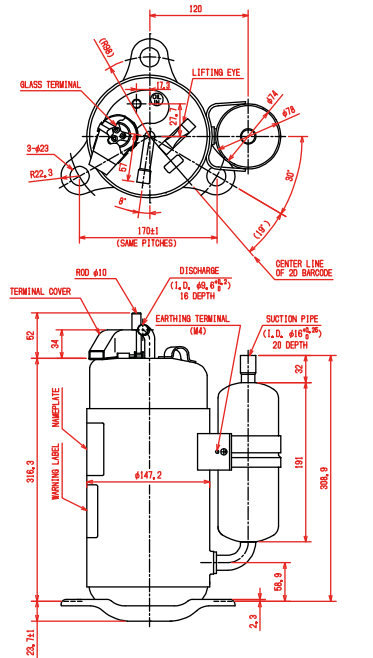
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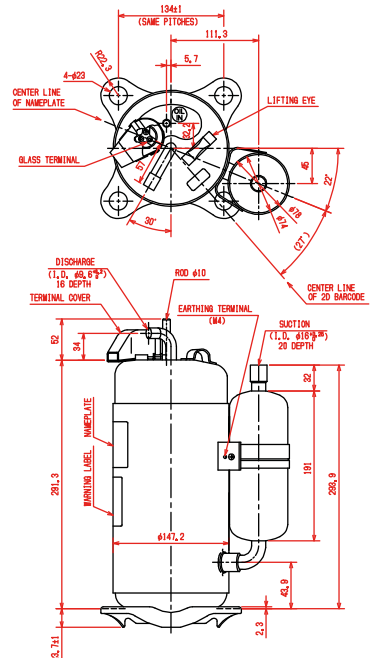
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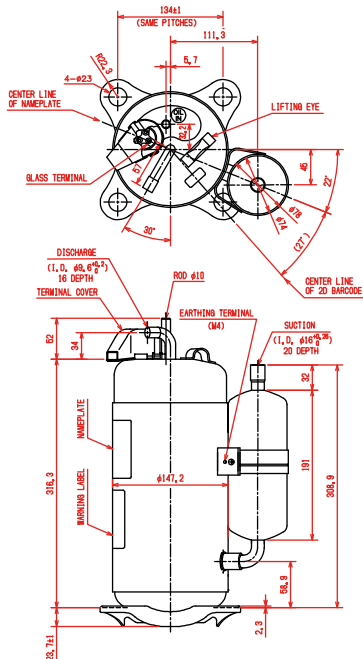
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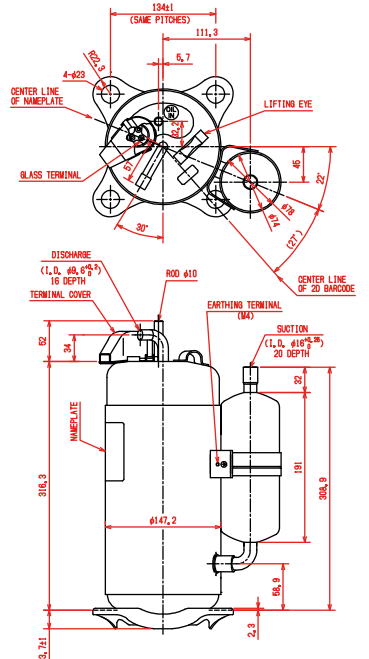
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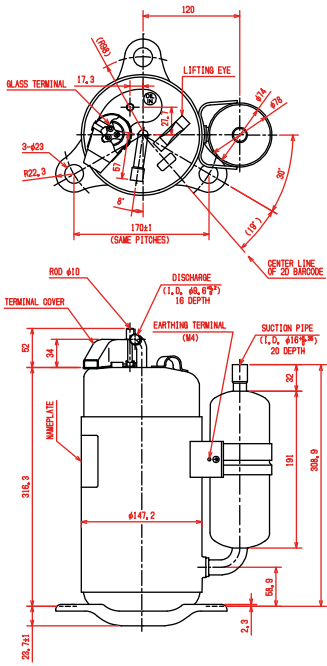
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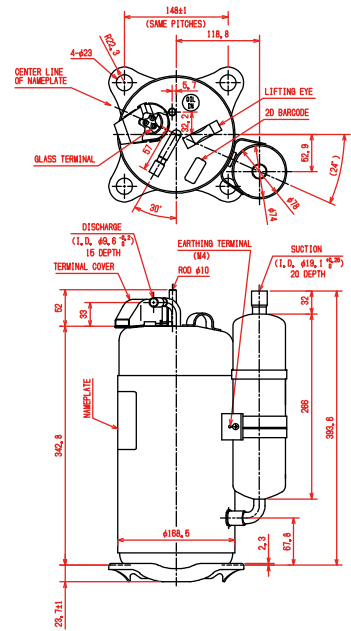
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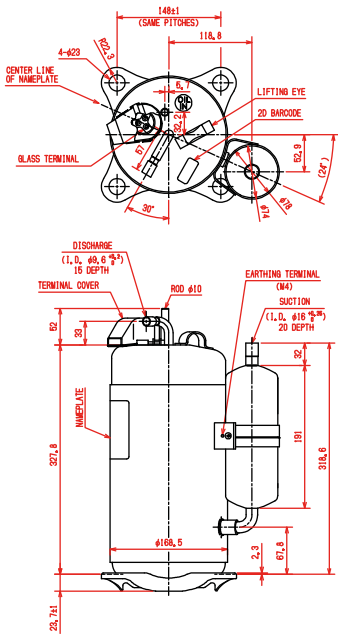
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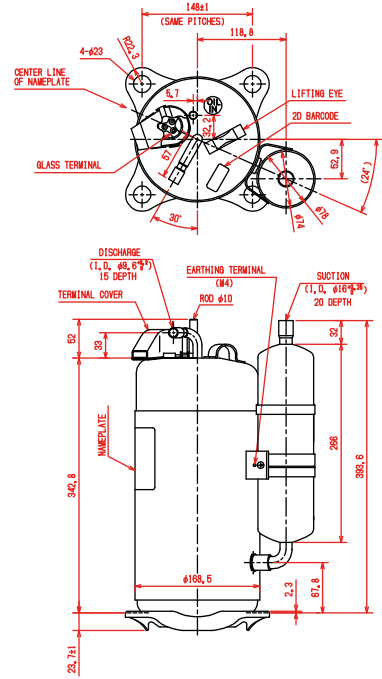
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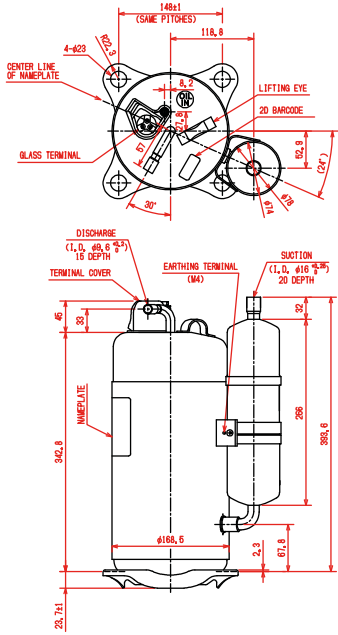
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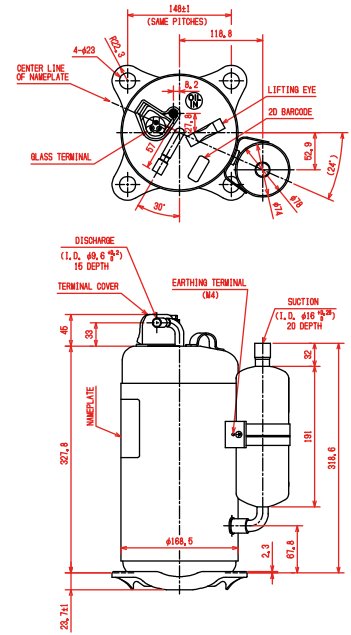
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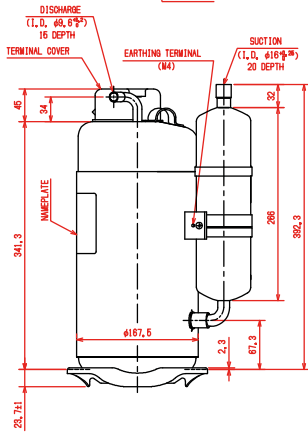
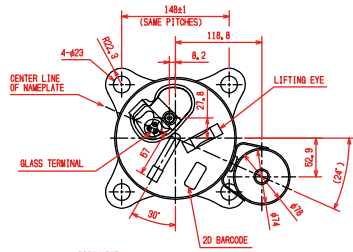
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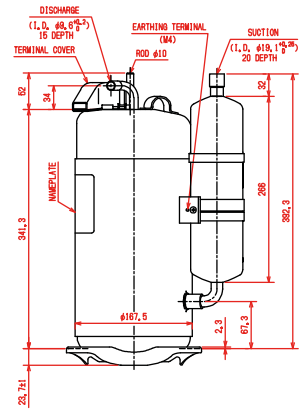
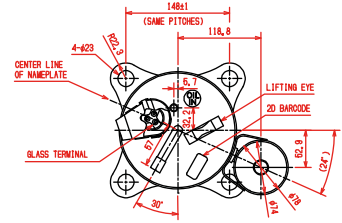
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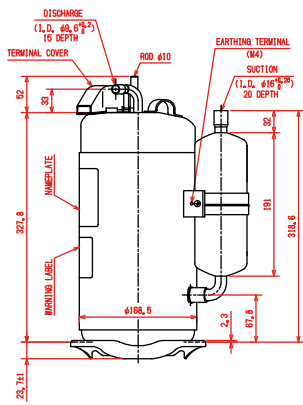
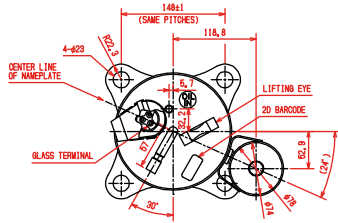
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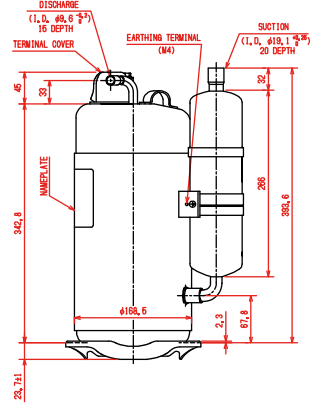
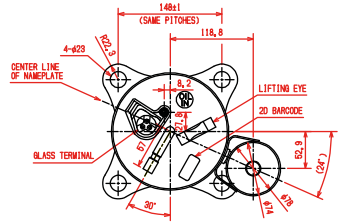
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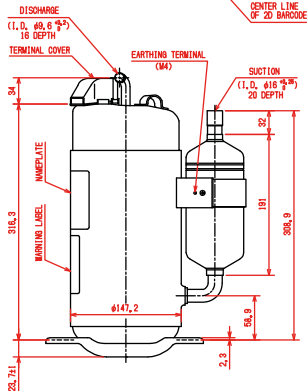
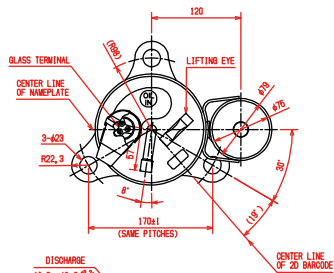
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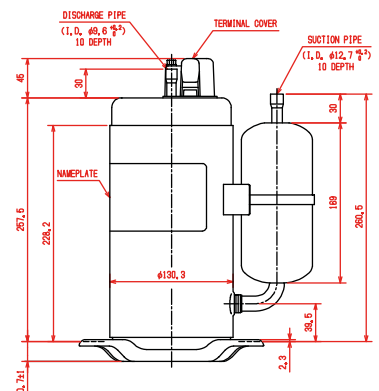
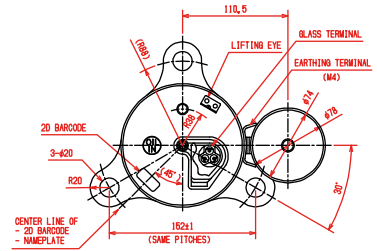
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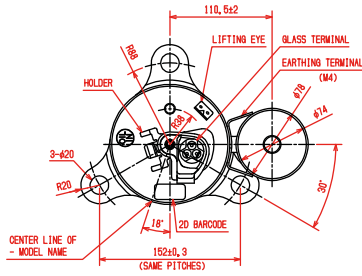
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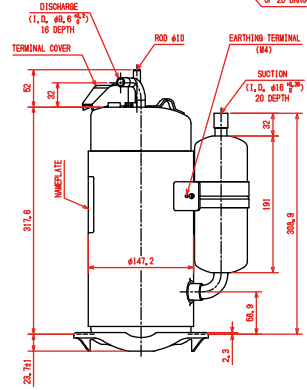
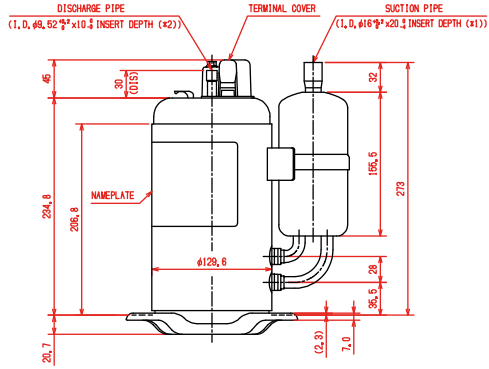
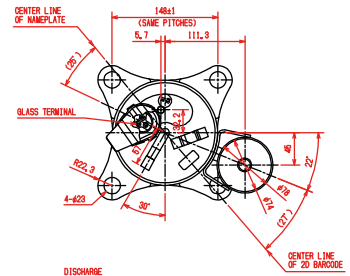
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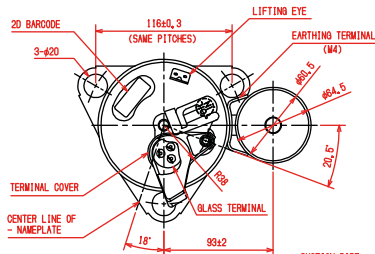
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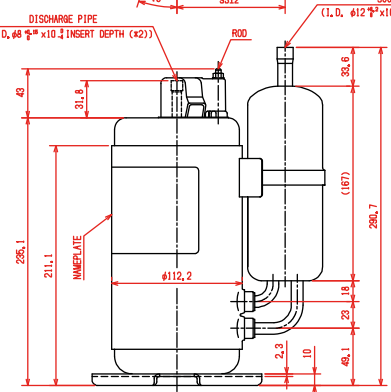
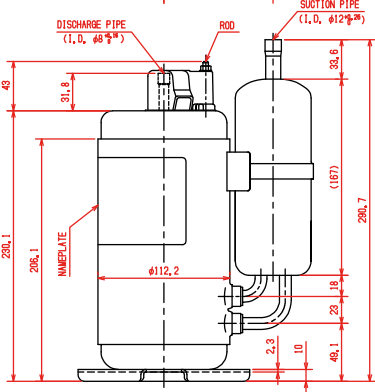
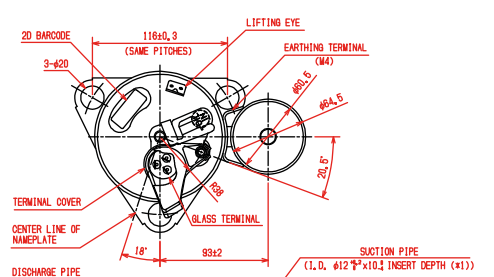
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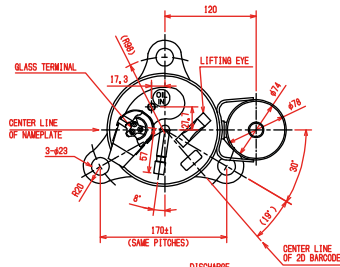
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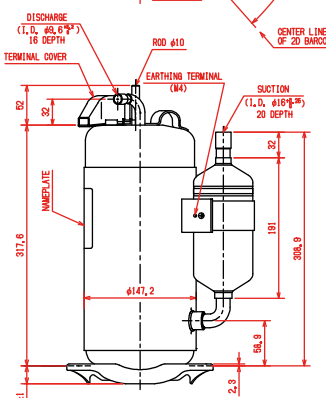
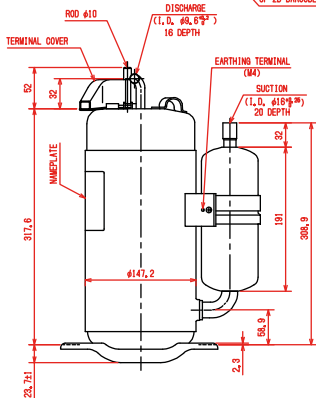
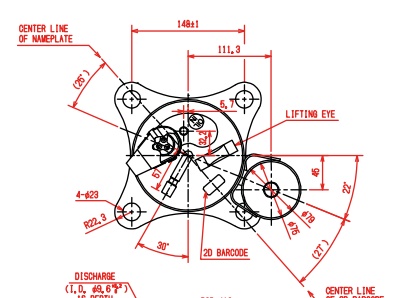
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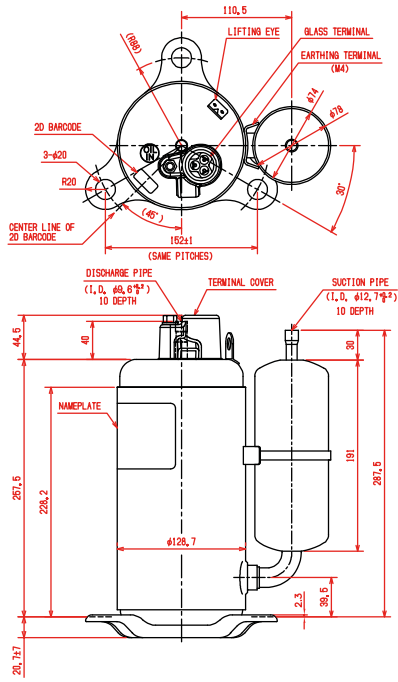
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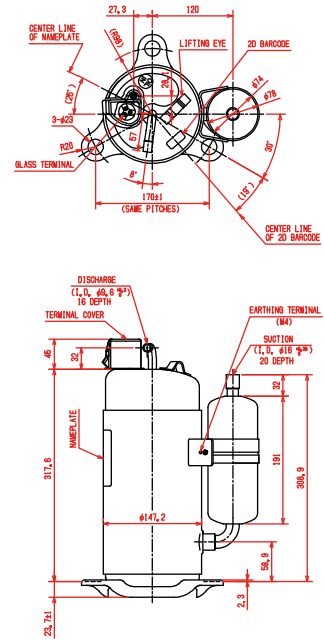
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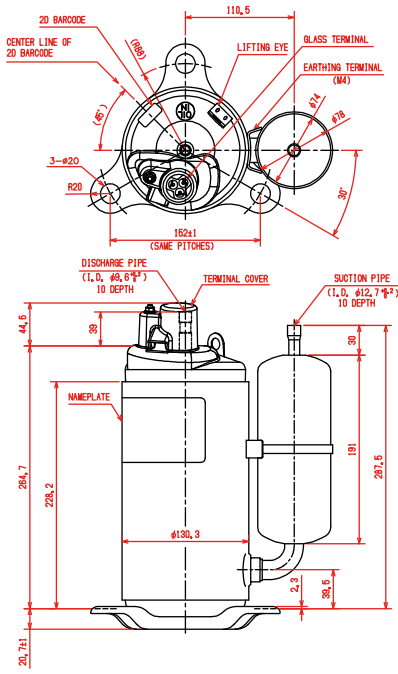
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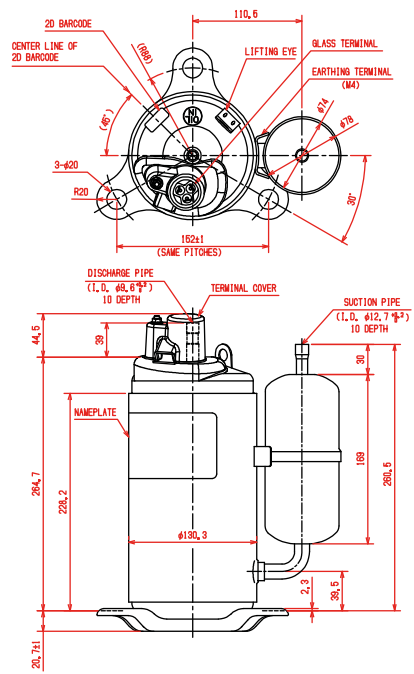
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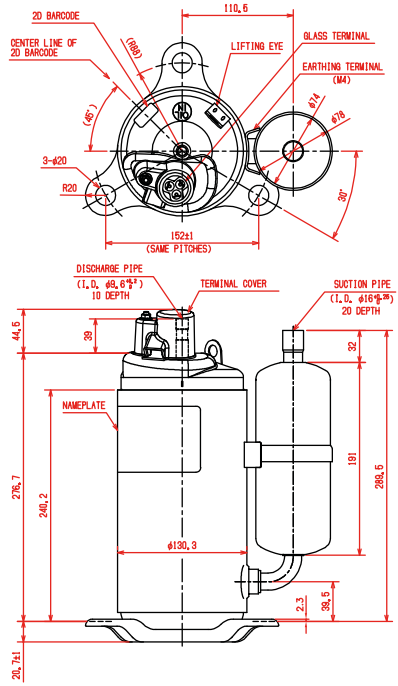
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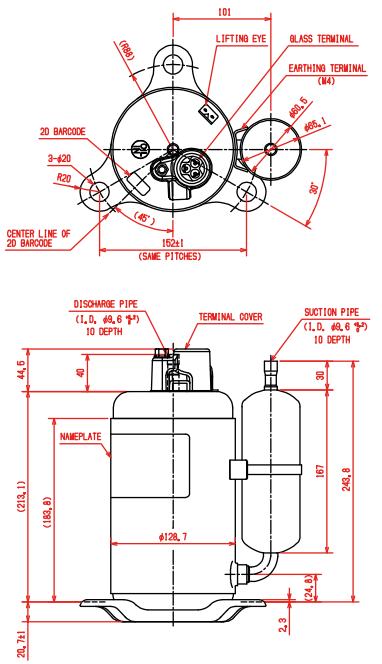
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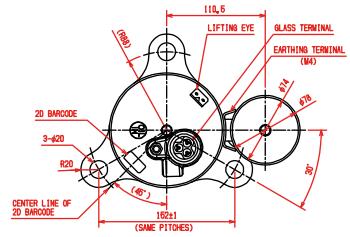
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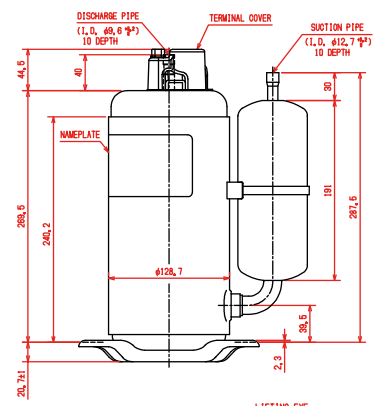
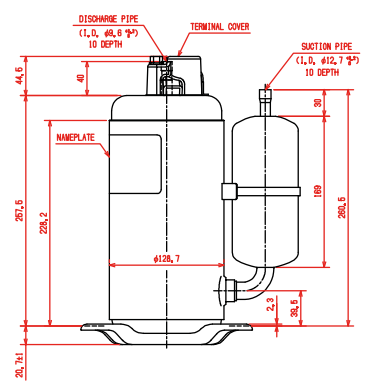
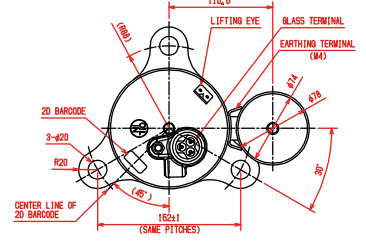
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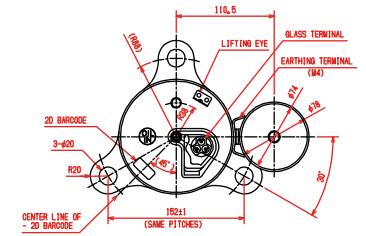
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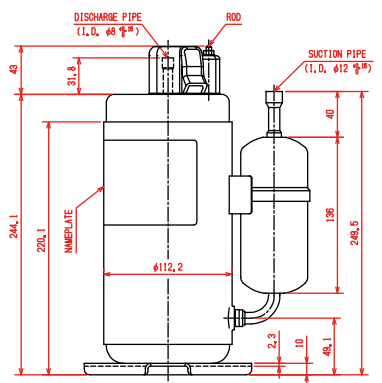
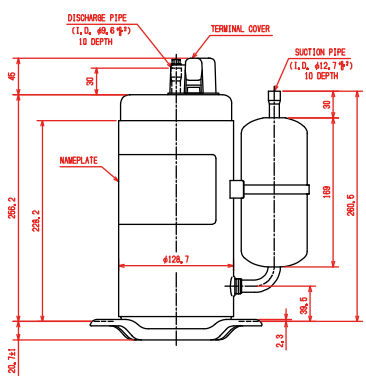
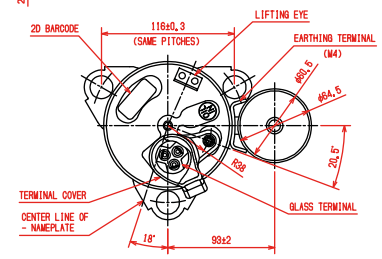
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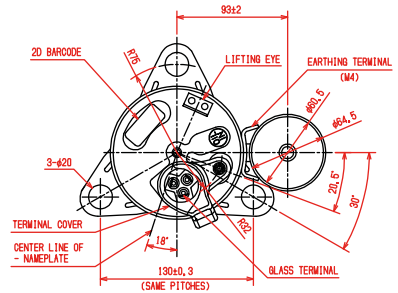
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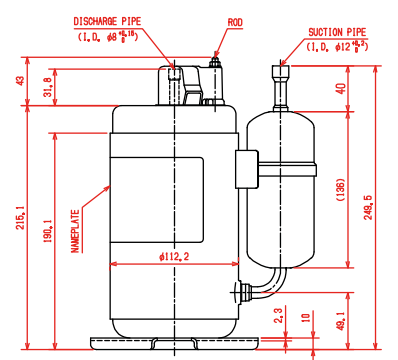
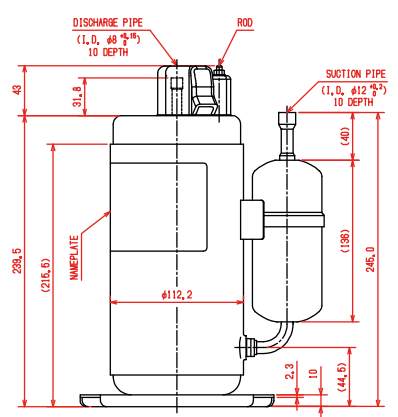
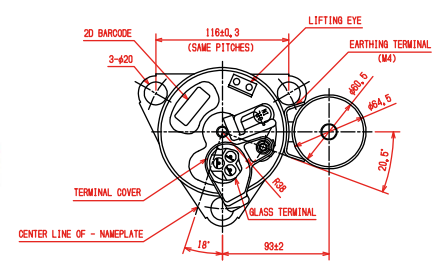
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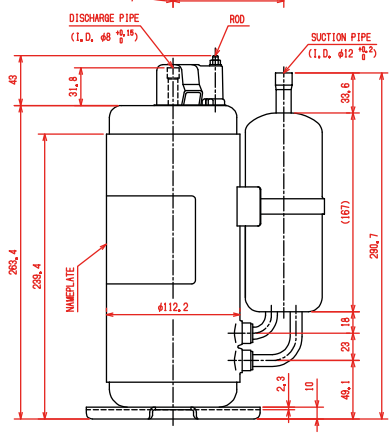
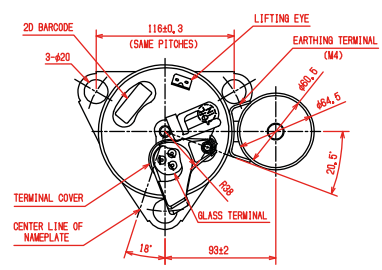
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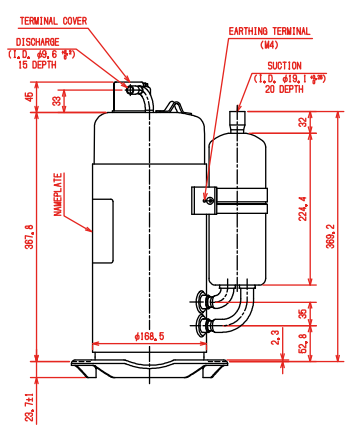
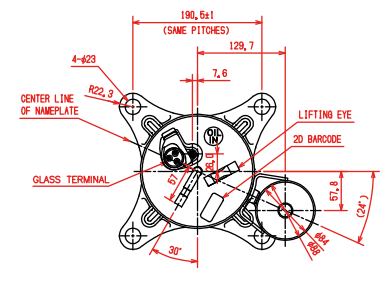
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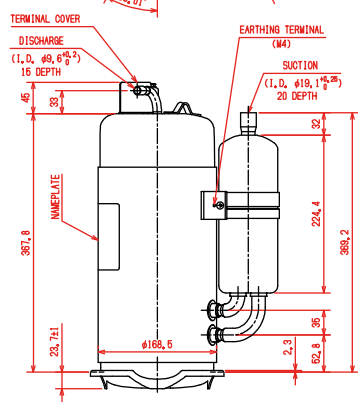
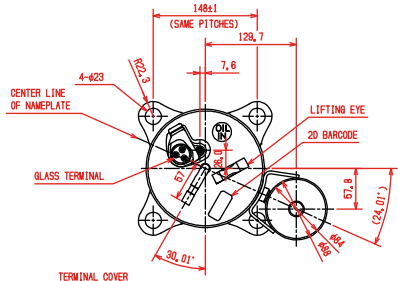
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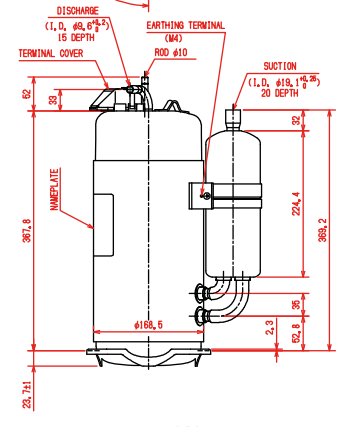
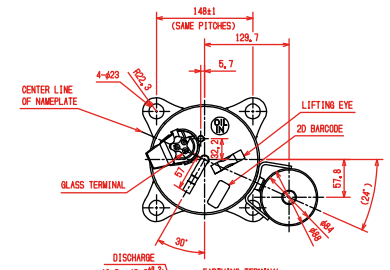
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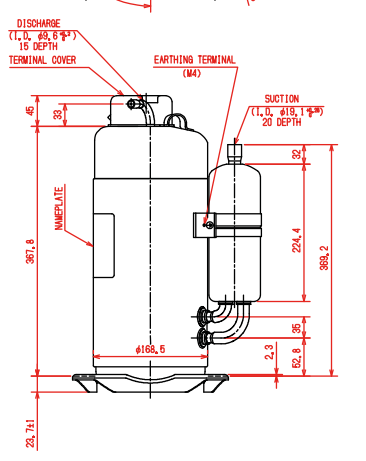
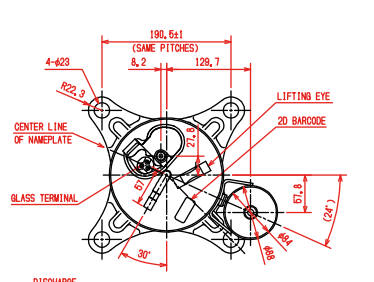
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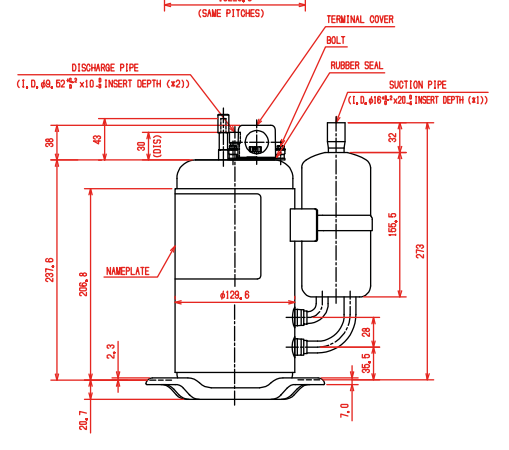
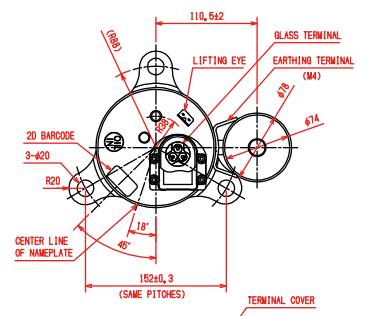
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Drawing Number
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Drawing Number
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“Specifications subject to change without notice”