



Power Compressor Exchange Holdings

professional compressor remanufacturers

Co. Reg. No. 2003/029583/07

COMPRESSORS • SPARES • CHILLERS • REFRIGERANT GAS • CONSUMABLES



Our Stock



Our Factory



Our Engineering Workshop



LOOK WHAT WE HAVE!



Power Compressor Exchange Holdings
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Co. Reg. No. 2003/099583/07



WORLD CLASS PRODUCTS FOR REFRIGERATION & AIR CONDITIONING

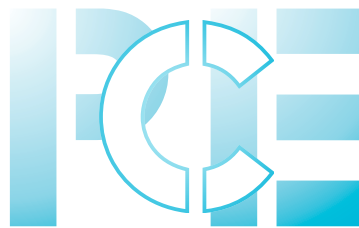
**HERMETIC
COMPRESSORS**



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**Now Distributing
CAREL
Equipment**



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Co. Reg. No. 2003/029583/07

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Company Profile

Power Compressor was established in 1998 and has grown to be an internationally recognised company. Power Compressor is a member of the international Compressor Re-manufacturers Association based in America and ISO 9001 registered in 2003.

Power Compressor's client base includes Government, Semi Government, Supermarket Chains, Shopping Centres, Mining Houses, Hospitals, Refrigeration & Air Conditioning companies as well as professional maintenance and consultant companies. Power Compressor is totally independant regarding requirements for the re-manufacturing of compressors and all our engineering is done in-house.

OEM and the highest quality compressor replacement parts are used in our re-manufactured compressors, to ensure original manufacturers standard. We stock all major brands, makes and models of Re-manufactured Compressors, Spares, all Disposable Refrigerants, Re-manufactured Chillers and all Consumables that ensure extended compressor operation.

Power Compressor Exchange Holdings (Pty) Ltd. is here to serve our clients and the industry. We are growing in quality and performance. We depend on our clients' feedback regarding their requirements and satisfaction. Our rates on our excellent pick up and delivery service is available on request.

Talk to us and let us know where we can be of continued service excellence.

Thank you for your support.

Some Of Our Satisfied Clients



Talk to us and let us know where we can be of continued service excellence.

Available On Request

- Cost of our Pick-up and Delivery service which is excellent.
- Terms and Conditions.
- Limited Warranty and Extended Warranty apply as specified.

Our Commitment

- Power Compressor is here to serve our clients and the industry.
- We are growing in quality and performance.
- We depend on our clients' feedback regarding your requirements and satisfaction.



Power Compressor Exchange Holdings
professional compressor remanufacturers

Call our friendly personnel to assist you
with any of our products and services.



Cassie Steenkamp



Sandra Mitchley



Dasja Fourie



Keith Bethwaite



Adele Louw



William Groth



Sam Tshanki



Iwan van den Berg



Amanda Grobler



Billy van Blerk



Power Compressor Exchange Holdings
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Compressors ~ Semi-Hermetic & Screw



Our Services

Our repair and exchange units carry the same one year warranty as the original manufacturers.
Extended warranty available - Claims subject to inspection.

- Remanufacture and service exchange of all popular models of compressors.
- Stock - We stock the largest variety of compressors in Africa.
- Compressor failure analysis and reporting .
- Rewinding of Stators and Electrical Motors.
- Problem solving i.e. - Re-occurring breakdowns.
- On site rebuilding where applicable.
- Oil sampling and analysis.
- Independent inspection and commissioning by specialist engineers.
- Designing of systems, specialised equipment i.e. tunnels, chillers etc.
- Laser alignment.
- Ultra Sonic testing.
- Certificate on Request.
- Compressors are inspected and disassembled.
- All parts are stripped, cleaned and inspected.
- Reed valves, piston rings, cushions, thrust-washers, valve springs, gaskets; O Rings, main bearings and terminal seals are replaced regardless of condition to maintain high standard.
- Crankshafts and Pistons are miked.
- Stators are removed, cleaned, tested and re-wound when needed to original manufacturers specifications.
- All metal parts are chemical washed and cleaned.
- Assembled to original specification and standard.
- Temperature tested.
- Pressure tested.
- Electrical tested.
- Mechanical tested.
- Cylinder sleeves are miked, honed or sleeved.
- Oil pumps are tested.



Independent Engineer Re-manufacturing all Types & Brands of Screw Compressors

All Rewinding

Specialising in Air Conditioning & Refrigeration Industry.

Compressors - Fans - Accessories - Electric Motors

- Rewind to factory specifications.
- Certified GRV59 insulating varnish.
- Thermistors to factory specification.
- Electronic motor protection.
- Double baking of stators.
- 3-5 day turnaround time.
- Photo-report on cause of failures.



Refrigerant Gas

R134a is widely used in all types of household and commercial refrigeration and auto-airconditioning equipment, medium temperature food cabinets, water chillers etc.

- Domestic refrigeration and auto-air conditioning.
- Replacement for R12.
- 1,1,1,2 /tetrafluoroethane $\text{CH}_2\text{F}-\text{CF}_3$
- UN No: 3159
- CAS No: 811-97-2
- Ozone Depletion Potential: 0
- Global Warming Potential: 1430
- HFC, Long term replacement.
- Oil: POE and PAG.
- Available in 13.6 Kg and 3.4 Kg, non-refillable cans.



R22 is very popular for use in all types of household and commercial refrigeration and airconditioning equipment with reciprocating, rotary, scroll and screw compressors. Due to be phased out under the United Nations Montreal protocol.

- Medium / Low Temp Refrigeration, Airconditioning.
- CHClF_2
- UN No: 1018
- CAS No: 75-45-6
- Ozone Depletion Potential: 0.055
- Global Warming Potential: 1810
- HCFC, being phased out.
- Oil: Mineral and POE.
- Available in 13.6 Kg and 3.4 Kg, non-refillable cans.



R404A is suitable for transport refrigeration, display cabinets, ice machines. Refrigerant must be charged from liquid phase.

- Medium / Low Temp Refrigeration.
- Replacement for R502
- Blend of R125, R143a and R134a (44 / 52 / 4% by weight.)
- Pentafluoroethane, 1,1,1-Trifluoroethane, 1,1,1,2 Tetrafluoroethane $\text{CHF}_2\text{CF}_3 / \text{CH}_3-\text{CF}_3 / \text{CH}_2\text{F}-\text{CF}_3$
- UN No: 3337
- CAS No: 354-33-6, 420-46-2, 811-97-2
- Ozone Depletion Potential: 0
- Global Warming Potential: 3922
- HFC, Long term replacement.
- Oil: POE.
- Available in 10.9 Kg, non-refillable cans.



Refrigerant Gas



R406A is suitable for auto airconditioning, domestic refrigeration. Drop-in replacement for R12.

- Airconditioning, domestic refrigeration
- Replacement for R12
- Blend of R22, R142b and R600a (55 / 41 / 4% by weight.)
- Chlorodifluoromethane, 1-Chloro-1,1-difluoroethane and Isobutane.
 $C_2H_3ClF_2$ / CH_3-CClF_2 / $I-CH_4H_{10}$
- UN No: 1078
- CAS No: 75-45-6, 75-68-3, 75-28-5
- Ozone Depletion Potential: 0.0562
- Global Warming Potential: 1943
- HCFC, Interim term replacement.
- Oil: Mineral and POE
- Available in 13.6Kg non-refillable cans.



R407C, for use in airconditioning units and heat pumps. Refrigerant must be charged from liquid phase.

- Airconditioning.
- Replacement for R22.
- Blend of R32, R125, R134a (23 / 25 / 52 % by weight)
- Difluoromethane / Pentafluoroethane / 1,1,1,2-Tetrafluoroethane CH_2F_2 / C_2HF_5 / CH_2F-CF_3
- UN No: 3340
- CAS No: 75-10-5, 354-33-6, 811-97-2
- Ozone Depletion Potential: 0
- Global Warming Potential: 1774
- HFC, Long term replacement.
- Oil: POE.
- Available in 11.3Kg non-refillable cans.



R408A is suitable for medium / low temp commercial refrigeration. Drop-in replacement for R502.

- Medium / Low Temp Refrigeration.
- Replacement for R502
- Blend of R125, R143a and R22 (7 / 46 / 47% by weight.)
- Pentafluoroethane, 1,1,1 Trifluoroethane, Chlorodifluoromethane. CHF_2-CF_3 / CH_3-CF_3 / $CHClF_2$
- UN No: 1078
- CAS No: 420-46-2, 354-33-6, 75-45-6
- Ozone Depletion Potential: 0.0235
- Global Warming Potential: 3152
- HCFC, Interim term replacement.
- Oil: Mineral and POE.
- Available in 10.9Kg non-refillable cans.



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Refrigerant Gas



R141b Solvent, for use cleaning systems.

- Cleaning / Foaming Agent.
- Replacement for R11.
- 1,1-Dichloro, 1-Fluoroethane. $C_2H_3Cl_2F$
- UN No: 1078
- CAS No: 1717-00-6
- Ozone Depletion Potential: 0.12
- Global Warming Potential: 725
- HCFC
- Available in 6.8 Kg **non-refillable** cans

CFC - **Chlorofluorocarbon**

HCFC - **Hydrochlorofluorocarbon**

HFC - **Hydrofluorocarbon**

HC - **Hydrocarbon**

ODP - The ODP or Ozone Depletion Potential, is the potential for a single molecule of the refrigerant to destroy the Ozone Layer. All refrigerants use R11 as a datum reference and thus R11 has an ODP of 1.0. The less the value of the ODP the less damage the refrigerant does to the ozone layer and therefore the environment.

GWP - The GWP, or Global Warming Potential, is a measurement of how much **effect** the given refrigerant will have on Global Warming in relation to Carbon Dioxide, where CO_2 has a GWP of 1. This is usually measured over a 100-year period. In this case the lower the value of GWP the less damage the refrigerant does to the environment.

Spares



Power Compressor Exchange Holdings
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Gaskets, Rings & Sleeves.



Crankshafts



Oil Pumps, Valve Plates
& Conrods.



Pistons

Readily available spares on our shelves.





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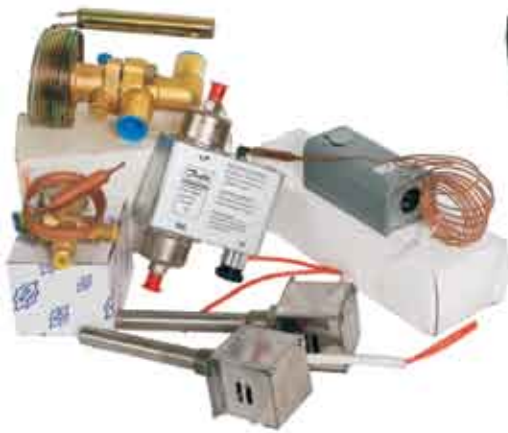
Consumables



Liquid Line Filters



Shut-Off Valves



Heaters & Expansion Valves



Solenoid Valves



Fittings



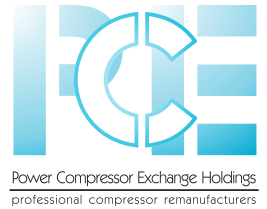
Vibration Eliminators



Suction Accumulators

Suction Line Filters

Xuemei Company Introduction



Jiangsu Xuemei Refrigeration Equipment Co., Ltd. is a high-tech manufacturer of XUEMEI brand series refrigeration products, and a model enterprise producing semi-hermetic refrigeration compressor designated by UN and China Government.

There are 6 series of products manufactured by our factory: 2HP-80HP semi-hermetic refrigeration compressors and its butt-joint models; 7.5HP-40HP 2-stage semi-hermetic refrigeration compressors; air-cooled & water-cooled condensing units; water chilling & heat pump units; ice cream machines; tunnel quick freezers, cold rooms and refrigeration engineering.

Our factory imported the key technology and equipment for manufacturing high-middle-low temperature semi-hermetic refrigeration compressors from Hitachi, Japan and AC, UK. The factory also imported from Japan and German NC machining center, NC lathe machines, NC grinding machines and computer-controlled full performance testing facilities, etc.

Now we are one of the largest manufacturers of semi-hermetic refrigeration compressors in China, and our factory has obtained ISO9001:2000 int'l quality system certificate, China industrial product manufacturing license, European CE Certificate and RoHs Directive.

We can also OEM design and produce the refrigeration compressor parts according to your drawing or sample, e.g. Piston, Connecting Rod, Valve Plate, Bearing, Oil Pump, Motor, etc.

XUEMEI factory has 68 region sales agents in China, and a professional sales team. XUEMEI products have been sold to every area in China and many other regions in Europe, Asia, America and Africa, etc.

We are the member enterprise of Chinese Association of Refrigeration (CAR), and the syndic enterprise of China Refrigeration and Air-conditioning Industry Association (CRAA).





Power Compressor Exchange Holdings
professional compressor remanufacturers

Xuemei Compressor Brief

A-series semi-hermetic reciprocating compressors (ARSC) consist of several models with different power ranging from 2HP to 80HP (displacement: 7.21 - 205m³) including types of 2-cylinder, 3-cylinder, 4-cylinder, 6-cylinder, 8-cylinder and its butt-joint models. Refrigerant HCFC can be applied to ASRC. Since high standard material, precise process and advanced technology as well as product diversity are adopted, ASRC possess great efficiency in compressing function and are reliable in operating, which make ASRC the optimum selection in the field of air condition and refrigeration.

- Resist stroke and high efficient valve reed and valve plate.
- Strictly control the minimum dead point clearance of assembling.
- Indurated surfaces of the crankshaft.
- Precisely processed and high quality standard shaft body bearing.
- Piston ring with chrome plating.
- Double-direction oil pump with large capacity (system of pressure for oil).
- High efficient electromotor with large volume.
- Reliable PTC transducer can oversee the temperature of electromotor.
- The piston LCH design of AV, AW, AZ, ASV4, ASW6, ASZ8 series (low clearance and high capacity).
- The body bearing hermetic design of AV, AW, AZ, ASV4, ASW6, ASZ8 series.
- The high and low cavities of AV, AW, AZ, ASV4, ASW6, ASZ8 series are designed to install safe valve.
- The PTC transducer is designed to install in AV, AW, AZ, ASV4, ASW6, ASZ8 series exhaust cavity, which protect the exhaust temperature.
- Multiform adjustment can be realized by AV, AW, AZ series high efficient energy control. (optional).
- The deep or shallow oil sump of AV, AW, AZ, ASV4, ASW6, ASZ8 series can be subjected. (optional).
- ASRC above 5HP could be equipped with crankcase heater. (optional).

AL, AM, AR models example:

| | | | |
|-----|-----|-----|-----|
| 300 | AL | 65 | (X) |
| (1) | (2) | (3) | (4) |

- (1) The nominal power of motor: 3HP x 100.
- (2) AC series L type semi-hermetic 2-cylinder compressors.
- (3) Displacement volume code: 65(not fact volume).
- (4) Oil charge type: X-ester oil, non-marked -mineral oil.

AV, AW, AZ models example:

| | | | |
|------|-----|-----|-----|
| 2500 | AV | 71 | (X) |
| (1) | (2) | (3) | (4) |

- (1) The nominal power of motor: 25HP x 100.
- (2) AC series V type semi-hermetic 4 - cylinder compressors
- (3) Displacement volume: 71m³/h.
- (4) Oil charge type: X - ester oil, non-marked -mineral oil.

ASR3, ASV4, ASW6, ASZ8 2-Stage models example:

| | | | |
|-----|-----|-----|-----|
| ASR | 3 | 750 | (X) |
| (1) | (2) | (3) | (4) |

- (1) 2-Stage of AR model
- (2) 3-Cylinder
- (3) The motor nominal power: 7.5HP x 100
- (4) Oil charge type: X - ester oil, non-marked -mineral oil.

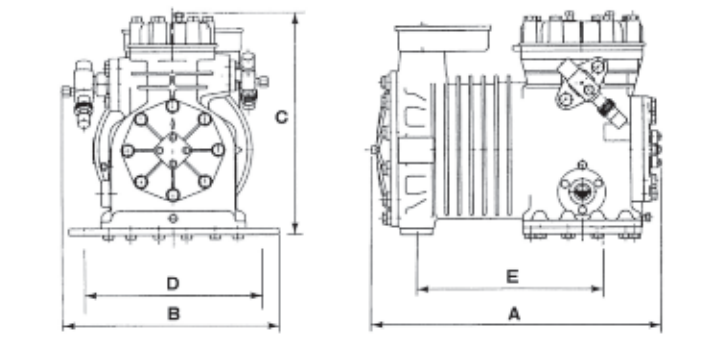

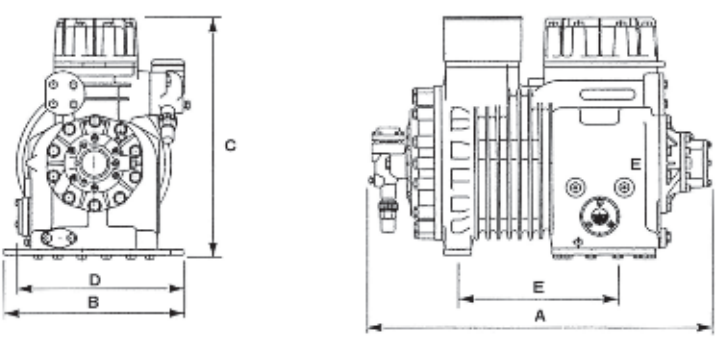

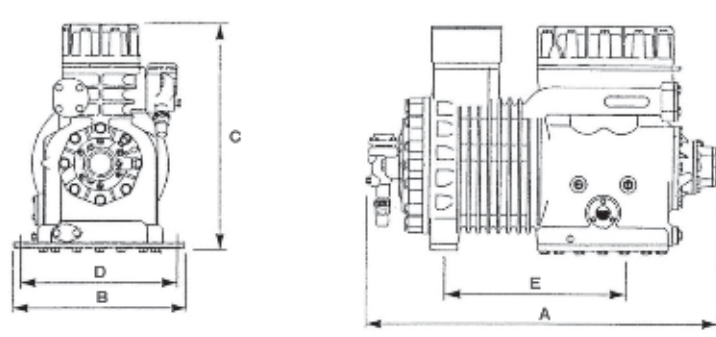

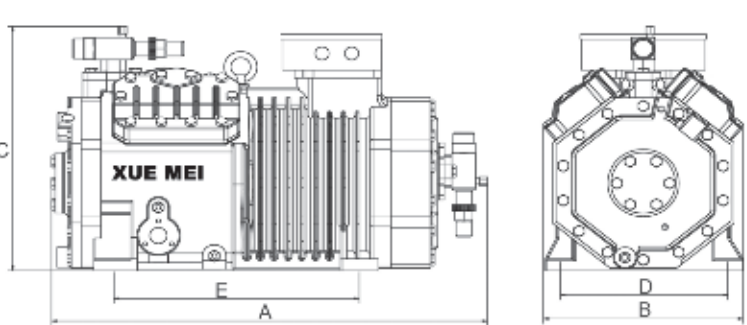

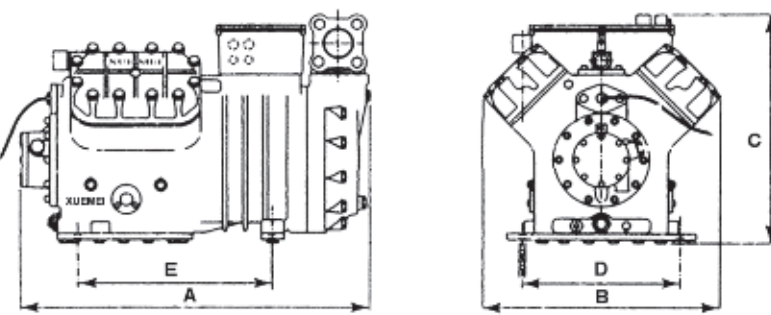

Aw66 and other butt-joint models example:

| | | | |
|------|-----|-----|-----|
| AW66 | 100 | H | (X) |
| (1) | (2) | (3) | (4) |

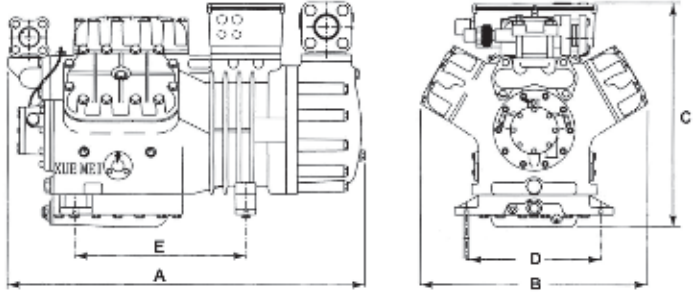

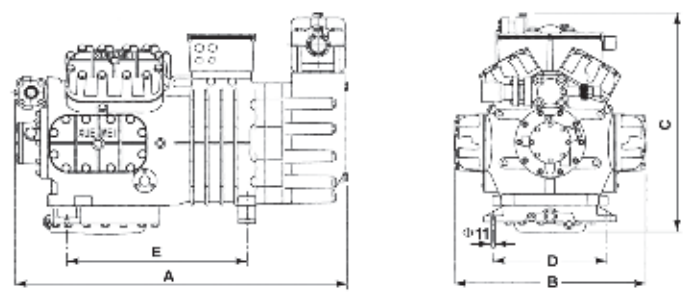

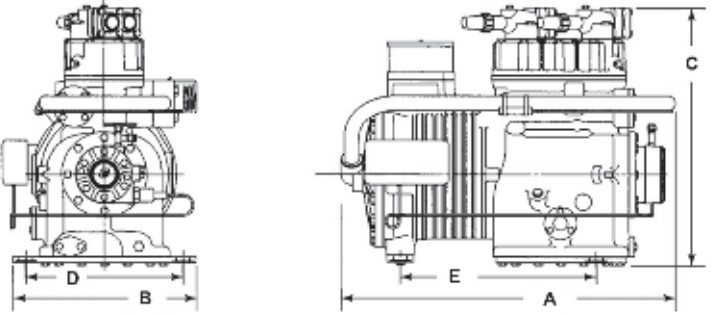

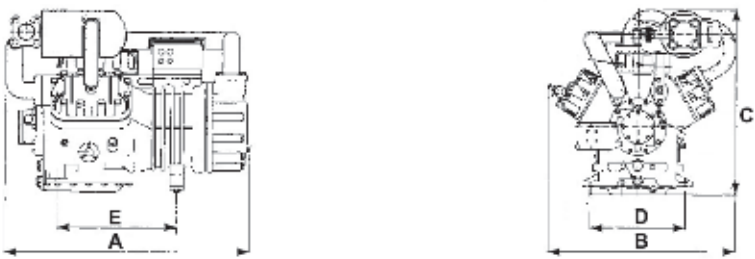

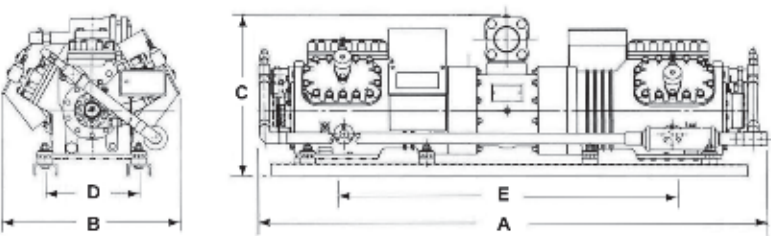

- (1) Butt-joint of 2pcs AW 6-cylinder compressors.
- (2) The motor nominal power: 100HP.
- (3) H - High & mid temperature, non marked - mid & low temperature.
- (4) Oil charge type: X - ester oil, non-marked-mineral oil.

Note: When the power frequency is 60Hz, the refrigeration capacity of compressor increases 18%, the electric parameter increases 20%. We can do special design and produce for different power voltage standards, please notice its ▲ or Y electric connection method.

DIMENSIONS AND PHOTOGRAPHS

| | | |
|--------------------------|--|---|
| <p>AL (2-5HP)</p> |  |  <p>L type of 2-cylinder</p> |
| <p>AM (7.5-10HP)</p> |  |  <p>M type of 2-cylinder</p> |
| <p>AR (7.5-20HP)</p> |  |  <p>R type of 3-cylinder</p> |
| <p>AV (6-18HP)</p> |  |  <p>V type of small 4-cylinder</p> |
| <p>AV (15-30HP)</p> |  |  <p>V type of 4-cylinder</p> |

DIMENSIONS AND PHOTOGRAPHS

| | | |
|----------------------------|--|--|
| <p>AW (25-50HP)</p> |  |  <p>W type of 6-cylinder</p> |
| <p>AZ (40-80HP)</p> |  |  <p>Z type of 8-cylinder</p> |
| <p>ASR3 (7.5-13HP)</p> |  |  <p>2 - stage of AR</p> |
| <p>ASW6 (20-30HP)</p> |  |  <p>2 - stage of AW</p> |
| <p>AW66 (50-100HP)</p> |  |  <p>Butt-joint of 2 AW</p> |

R22 Semi-Hermetic Standard 50Hz

Operating Conditions 25°C Suction Gas Return
No subcooling

| Compressor Model | Cond. Temp. °C | Refrigeration Capacity Watt Evaporating Temperature °C | | | | | | | | | | | | |
|------------------|----------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| | | 12.5 | 10 | 7 | 5 | 0 | -5 | -10 | -15 | -20 | -25 | -30 | -35 | -40 |
| 200-AL-50 | 30 | | 11450 | 10250 | 9100 | 7890 | 6630 | 5400 | 4370 | 3460 | 2660 | 2070 | 1550 | 1050 |
| | 40 | | 10150 | 9150 | 8100 | 6980 | 5780 | 4680 | 3760 | 2930 | 2260 | 1720 | 1200 | 710 |
| | 50 | | 8850 | 7950 | 6950 | 5960 | 4980 | 4010 | 3190 | 2480 | 1900 | 1400 | 865 | 520 |
| 200-AL-60 | 30 | | | | | | | 8020 | 6440 | 5090 | 3930 | 2950 | 2130 | 1440 |
| | 40 | | | | | | | 7030 | 5610 | 4390 | 3350 | 2460 | 1720 | 1100 |
| | 50 | | | | | | | 6100 | 4820 | 3710 | 2790 | 2000 | 1340 | 800 |
| 300-AL-60 | 30 | | 17100 | 15400 | 13700 | 11700 | 9800 | 8020 | 6440 | 5090 | | | | |
| | 40 | | 15100 | 13700 | 12200 | 10500 | 8650 | 7030 | 5610 | 4450 | | | | |
| | 50 | | 13200 | 11900 | 10450 | 9000 | 7500 | 6100 | 4820 | 3710 | | | | |
| 300-AL-65 | 30 | | | | | | | 10550 | 8500 | 6900 | 5450 | 4150 | 3150 | 2240 |
| | 40 | | | | | | | 9500 | 7600 | 6100 | 4720 | 3550 | 2600 | 1850 |
| | 50 | | | | | | | 8100 | 6600 | 5300 | 4040 | 3000 | 2160 | 1480 |
| 300-AL-70 | 30 | | | | | | | 12000 | 9700 | 7700 | 6050 | 4650 | 3410 | 2420 |
| | 40 | | | | | | | 10500 | 8500 | 6700 | 5200 | 3900 | 2810 | 2020 |
| | 50 | | | | | | | | 7250 | 5700 | 4350 | 3250 | 2350 | 1650 |
| 400-AL-65 | 30 | | 21890 | 19800 | 18400 | 15400 | 12800 | 10550 | 8500 | 6900 | | | | |
| | 40 | | 19500 | 17500 | 16300 | 13600 | 11280 | 9500 | 7600 | 6109 | | | | |
| | 50 | | 16900 | 15300 | 14200 | 11800 | 9700 | 8100 | 6600 | 5300 | | | | |
| 400-AL-70 | 30 | | 25070 | 22580 | 21040 | 17520 | 14550 | 12000 | 9700 | 7700 | 6050 | 4650 | 3410 | 2420 |
| | 40 | | | 20220 | 18810 | 15610 | 12840 | 10500 | 8500 | 6700 | 5200 | 3900 | 2800 | 2020 |
| | 50 | | | | | 11200 | 12840 | 10500 | 9040 | 7250 | 5700 | 4350 | 3250 | 2350 |
| 400-AL-75 | 30 | | | | | | | 13840 | 11260 | 9120 | 7200 | 5560 | 4180 | 3050 |
| | 40 | | | | | | | 12240 | 9960 | 800 | 6300 | 4800 | 3560 | 2520 |
| | 50 | | | | | | | 11020 | 8970 | 7240 | 5550 | 4130 | 3000 | 2030 |
| 500-AL-70 | 30 | | 24870 | 22580 | 21040 | 17520 | 14550 | 12000 | 9700 | 7610 | 5940 | 4520 | 3290 | 2290 |
| | 40 | | 22800 | 20600 | 18810 | 15610 | 12840 | 10500 | 8430 | 6600 | 5070 | 3760 | 2660 | 1550 |
| | 50 | | 20020 | 18280 | 16650 | 13710 | 11200 | 9040 | 7250 | 5600 | 4220 | 3100 | 2130 | 1500 |
| 500-AL-75 | 30 | 31370 | 28810 | 25960 | 24180 | 20140 | 16620 | 13840 | 11150 | 8860 | 6900 | 5260 | 3880 | 2740 |
| | 40 | | | 23000 | 21410 | 17780 | 14760 | 12060 | 9750 | 7710 | 5930 | 4410 | 3020 | 2280 |
| | 50 | | | | | 12890 | 10640 | 10640 | 8450 | 5600 | 4960 | 3680 | 2510 | 1865 |
| 750-AM-100 | 30 | 39920 | 34800 | 31300 | 29120 | 24170 | 19860 | 16110 | 12870 | 10090 | | | | |
| | 40 | 33930 | 31080 | 27900 | 25920 | 21410 | 17470 | 14060 | 11100 | 8560 | | | | |
| | 50 | 29840 | 27300 | 24470 | 22690 | 18640 | 15390 | 12510 | 9830 | 7430 | | | | |
| 750-AM-110 | 30 | | | | | | 21650 | 17680 | 14340 | 11310 | 8790 | 6640 | 4840 | 3330 |
| | 40 | | | | | | 19090 | 15520 | 12420 | 9760 | 7490 | 5550 | 3920 | 2500 |
| | 50 | | | | | | 16600 | 13430 | 10680 | 8320 | 6300 | 4520 | 3080 | 1920 |
| 1000-AM-110 | 30 | 42380 | 38890 | 35010 | 32600 | 27100 | 22320 | 18160 | 14570 | 11480 | | | | |
| | 40 | 38060 | 34900 | 31380 | 29180 | 24180 | 19820 | 16030 | 12750 | 9930 | | | | |
| | 50 | 33760 | 30930 | 27770 | 25200 | 21310 | 17390 | 14200 | 11030 | 8480 | | | | |
| 750-AR-120 | 30 | | | | | | 28700 | 23430 | 18850 | 14920 | 11550 | 8850 | 6458 | 4400 |
| | 40 | | | | | | 25700 | 20800 | 16630 | 13000 | 9950 | 7400 | 5200 | 3450 |
| | 50 | | | | | | 22600 | 18400 | 14300 | 11070 | 8330 | 6100 | 4200 | 2600 |
| 1000-AR-120 | 30 | 54800 | 50500 | 45240 | 42100 | 35000 | 28700 | 23430 | 18850 | 14920 | | | | |
| | 40 | 49600 | 45500 | 40850 | 38000 | 31400 | 25700 | 20800 | 16630 | 13000 | | | | |
| | 50 | 44400 | 40600 | 36500 | 33840 | 27830 | 22600 | 18400 | 14300 | 11070 | | | | |
| 1000-AR-130 | 30 | | | | | | 35200 | 28900 | 23200 | 18580 | 14570 | 11120 | 8170 | 5600 |
| | 40 | | | | | | 31500 | 25800 | 20640 | 16210 | 12280 | 9120 | 6550 | 4250 |
| | 50 | | | | | | 27500 | 22300 | 17800 | 14000 | 10850 | 8100 | 5500 | 3400 |
| 1500-AR-130 | 30 | 66240 | 60810 | 54760 | 50990 | 42420 | 35200 | 28900 | 23200 | 18580 | | | | |
| | 40 | 59160 | 54240 | 48770 | 45360 | 37590 | 31500 | 25800 | 20640 | 16210 | | | | |
| | 50 | 52000 | 47630 | 42750 | 39800 | 33200 | 27500 | 22300 | 17800 | 14000 | | | | |
| 1300-AR-140 | 30 | | | | | | 42670 | 34860 | 28100 | 22300 | 17300 | 13100 | 9550 | 6570 |
| | 40 | | | | | | 37500 | 30500 | 24500 | 19200 | 14800 | 10950 | 7750 | 4900 |
| | 50 | | | | | | 32500 | 26300 | 21200 | 16400 | 12500 | 9100 | 6300 | 3970 |
| 2000-AR-140 | 30 | 83300 | 76460 | 68850 | 64100 | 53300 | 43000 | 34860 | 28100 | 22300 | | | | |
| | 40 | 73700 | 67600 | 60800 | 56500 | 46800 | 38000 | 30500 | 24500 | 19200 | | | | |
| | 50 | 64100 | 58800 | 52800 | 49000 | 40500 | 32900 | 26300 | 21200 | 16400 | | | | |
| 600-AV-34 | 30 | | | | | | 24650 | 20790 | 16380 | 13080 | 10270 | 7840 | 5820 | 4130 |
| | 40 | | | | | | 21760 | 17770 | 14330 | 11360 | 8760 | 6600 | 4750 | 3210 |
| | 50 | | | | | | 18820 | 15300 | 12240 | 9460 | 7170 | 5220 | 3600 | 2230 |
| 1000-AV-34 | 30 | 46750 | 40150 | 39350 | 36020 | 36020 | 24750 | 20240 | 16290 | 12910 | | | | |
| | 40 | 41360 | 35500 | 34790 | 31850 | 31850 | 21810 | 17750 | 14240 | 11210 | | | | |
| | 50 | 36110 | 30290 | 30330 | 27690 | 27690 | 18810 | 15220 | 12120 | 9460 | | | | |
| 800-AV-41 | 30 | | | | | | 30090 | 24700 | 20040 | 16040 | 12620 | 9630 | 7170 | 5120 |
| | 40 | | | | | | 26560 | 21660 | 17480 | 13870 | 10680 | 8040 | 5800 | 3930 |
| | 50 | | | | | | 22930 | 18660 | 14950 | 11640 | 8870 | 6510 | 4520 | 2850 |
| 1200-AV-41 | 30 | 55960 | 52410 | 47140 | 43120 | 43120 | 29740 | 24300 | 19650 | 15610 | | | | |
| | 40 | 49780 | 46580 | 41850 | 38320 | 38320 | 26260 | 21410 | 17190 | 13560 | | | | |
| | 50 | 43510 | 40670 | 36510 | 33370 | 33370 | 22690 | 18400 | 14680 | 11500 | | | | |

Note: Head Cooling Fan Head Cooling Fan+Liquid Spray Device (Optional)

R22 Semi-Hermetic Standard 50Hz

Operating Conditions 25°C Suction Gas Return
No subcooling

| Compressor Model | Cond Temp °C | Refrigeration Capacity Watt Evaporating Temperature °C | | | | | | | | | | | | | |
|------------------|--------------|---|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| | | 12.5 | 10 | 7 | 5 | 0 | -5 | -10 | -15 | -20 | -25 | -30 | -35 | -40 | |
| 1000-AV-48 | 30 | | | | | | 34940 | 28670 | 23230 | 18560 | 14560 | 11100 | 8220 | 5800 | |
| | 40 | | | | | | 30770 | 25140 | 20290 | 16060 | 12390 | 9310 | 6710 | 4540 | |
| | 50 | | | | | | 26710 | 21710 | 17350 | 13520 | 10290 | 7550 | 5220 | 3280 | |
| 1300-AV-48 | 30 | 67030 | 62720 | 56350 | 51650 | 42920 | 35430 | 28910 | 23280 | 18430 | | | | | |
| | 40 | 59680 | 55790 | 50080 | 45820 | 38070 | 31310 | 25430 | 20380 | 16020 | | | | | |
| | 50 | 52230 | 48810 | 43800 | 39980 | 33120 | 27150 | 21950 | 17490 | 13660 | | | | | |
| 1300-AV-56 | 30 | | | | | | 40330 | 33080 | 26850 | 21460 | 16860 | 12730 | 9410 | 6620 | |
| | 40 | | | | | | 35920 | 29350 | 23670 | 18780 | 14410 | 10820 | 7800 | 5290 | |
| | 50 | | | | | | 31360 | 25530 | 20430 | 15830 | 12020 | 8800 | 6080 | 3800 | |
| 1800-AV-56 | 30 | 77520 | 72590 | 65270 | 59680 | 49780 | 41060 | 33520 | 27050 | 21460 | | | | | |
| | 40 | 69190 | 64710 | 58110 | 53120 | 44100 | 36260 | 29450 | 23570 | 18530 | | | | | |
| | 50 | 60560 | 56640 | 50860 | 46400 | 38420 | 31510 | 25480 | 20240 | 15730 | | | | | |
| 1500-AV-71 | 30 | | | | | | 51010 | 41400 | 33290 | 26500 | 20850 | 16190 | 12370 | 9270 | |
| | 40 | | | | | | 45960 | 36990 | 29470 | 23210 | 18040 | 13820 | 10390 | 7630 | |
| | 50 | | | | | | 40890 | 32600 | 25710 | 20020 | 15350 | 11570 | 8530 | 6130 | |
| 2500-AV-71 | 30 | 95430 | 88020 | 80620 | 73970 | 61000 | 49960 | 40600 | 32690 | 26040 | 20490 | | | | |
| | 40 | 87160 | 79870 | 72580 | 67480 | 55230 | 44880 | 36150 | 28810 | 22690 | 17630 | | | | |
| | 50 | 78630 | 72470 | 66320 | 60780 | 49380 | 39780 | 31730 | 25010 | 19450 | 14890 | | | | |
| 2000-AV-86 | 30 | | | | | | 61050 | 49370 | 39550 | 31340 | 24530 | 18930 | 14360 | 10660 | |
| | 40 | | | | | | 54150 | 43770 | 34770 | 27300 | 21130 | 16100 | 12020 | 8750 | |
| | 50 | | | | | | 48020 | 38250 | 30110 | 23390 | 17880 | 13410 | 9830 | 6990 | |
| 3000-AV-86 | 30 | 116520 | 107490 | 98460 | 90350 | 74210 | 60560 | 49010 | 39300 | 31180 | 24430 | | | | |
| | 40 | 105940 | 97690 | 89450 | 82040 | 66980 | 54280 | 43600 | 34650 | 27220 | 21080 | | | | |
| | 50 | 95140 | 87700 | 80270 | 73570 | 59680 | 48010 | 38240 | 30100 | 23380 | 17870 | | | | |
| 2500-AW-106 | 30 | | | | | | 81100 | 65100 | 51700 | 40600 | 31600 | 24200 | 18200 | 13400 | |
| | 40 | | | | | | 74000 | 59000 | 46600 | 36300 | 27900 | 21100 | 15700 | 11400 | |
| | 50 | | | | | | | 52800 | 41400 | 32000 | 24300 | 18200 | 13300 | | |
| 3500-AW-106 | 30 | 149000 | 137400 | 125900 | 115500 | 94500 | 76700 | 61800 | 49300 | 38900 | | | | | |
| | 40 | 136100 | 125100 | 114900 | 105400 | 85800 | 69300 | 55500 | 44000 | 34400 | | | | | |
| | 50 | 126500 | 114100 | 103600 | 95000 | 76900 | 61800 | 49200 | 38700 | 30000 | | | | | |
| 3000-AW-129 | 30 | | | | | | 90400 | 74700 | 60000 | 47600 | 37400 | 28900 | 22000 | 16400 | |
| | 40 | | | | | | 81100 | 66900 | 53500 | 42300 | 33000 | 25300 | 19000 | 14000 | |
| | 50 | | | | | | 71900 | 59100 | 47000 | 37000 | 28600 | 21700 | 16100 | | |
| 4000-AW-129 | 30 | 171300 | 158100 | 144800 | 132800 | 109800 | 90100 | 73400 | 59200 | 47300 | | | | | |
| | 40 | 155000 | 142810 | 130800 | 120000 | 98800 | 80700 | 65400 | 52500 | 41600 | | | | | |
| | 50 | 138400 | 127510 | 116800 | 107000 | 87700 | 71400 | 57500 | 45900 | 36100 | | | | | |
| 4000-AW-154 | 30 | | | | | | 108300 | 88500 | 71700 | 57500 | 45600 | 35700 | 27500 | 20700 | |
| | 40 | | | | | | 97800 | 79700 | 64300 | 51300 | 40400 | 31400 | 23900 | 17800 | |
| | 50 | | | | | | 87300 | 70800 | 56900 | 45100 | 35300 | 27100 | 20400 | | |
| 5000-AW-154 | 30 | 203800 | 188100 | 172200 | 159800 | 130800 | 107600 | 87800 | 71000 | 56800 | | | | | |
| | 40 | 185100 | 171050 | 156300 | 143300 | 118300 | 97000 | 78900 | 63500 | 50500 | | | | | |
| | 50 | 166100 | 153050 | 140100 | 128300 | 105700 | 86300 | 69800 | 55900 | 44200 | | | | | |
| 4000-AZ-172 | 30 | | | | | | 147660 | 122260 | 100450 | 81790 | 65920 | 52820 | 41740 | 32460 | 24700 |
| | 40 | | | | | | 133690 | 110580 | 90710 | 73690 | 59190 | 47160 | 37010 | 28490 | 21410 |
| | 50 | | | | | | 11950 | 98720 | 80800 | 65440 | 52350 | 41430 | 32220 | 24520 | |
| 5000-AZ-172 | 30 | 235140 | 21500 | 196970 | 179960 | 149490 | 123400 | 101070 | 82040 | 65910 | | | | | |
| | 40 | 211610 | 193460 | 177170 | 161800 | 134250 | 110630 | 90400 | 73150 | 58540 | | | | | |
| | 50 | 188060 | 171820 | 157350 | 143620 | 119000 | 97860 | 80490 | 64300 | 51190 | | | | | |
| 6000-AZ-205 | 30 | | | | | | 184640 | 153900 | 124780 | 100250 | 79710 | 62620 | 48540 | 37020 | 27660 |
| | 40 | | | | | | 165120 | 137400 | 110680 | 88270 | 69590 | 54140 | 41480 | 31190 | 22910 |
| | 50 | | | | | | 145750 | 121040 | 96810 | 76570 | 59790 | 45990 | 34760 | 25720 | |
| 8000-AZ-205 | 30 | 280280 | 258540 | 236760 | 217220 | 181980 | 151480 | 122170 | 97580 | 77090 | | | | | |
| | 40 | 252050 | 232330 | 212760 | 195080 | 163190 | 135560 | 108480 | 85880 | 67150 | | | | | |
| | 50 | 223800 | 206090 | 188730 | 172950 | 144420 | 119690 | 94960 | 74430 | 57520 | | | | | |
| AW66-50 | 30 | | | | | | 162200 | 130100 | 103400 | 81300 | 63100 | 48300 | 36400 | 26800 | |
| | 40 | | | | | | 147900 | 118000 | 93100 | 72600 | 55800 | 42300 | 31400 | 22800 | |
| | 50 | | | | | | | 105600 | 82700 | 63900 | 48600 | 36400 | 26600 | | |
| AW66-70H | 30 | 298000 | 274800 | 251700 | 231000 | 188900 | 153400 | 123500 | 98500 | 77700 | | | | | |
| | 40 | 272200 | 250200 | 229800 | 210700 | 181600 | 138600 | 111000 | 87900 | 68800 | | | | | |
| | 50 | 253000 | 228200 | 207200 | 189900 | 153900 | 123700 | 98400 | 77400 | 60000 | | | | | |
| AW66-60 | 30 | | | | | | 180800 | 149400 | 119900 | 95200 | 74700 | 57800 | 44000 | 32700 | |
| | 40 | | | | | | 162300 | 133700 | 106900 | 84500 | 65900 | 50500 | 38000 | 27900 | |
| | 50 | | | | | | 143700 | 118100 | 94000 | 73800 | 57100 | 43400 | 32200 | | |
| AW66-80H | 30 | 342600 | 316200 | 289500 | 265600 | 219500 | 180100 | 146700 | 118400 | 94500 | | | | | |
| | 40 | 309800 | 285600 | 261600 | 239900 | 197500 | 161400 | 130800 | 104900 | 83200 | | | | | |
| | 50 | 276700 | 255000 | 233500 | 214000 | 175400 | 142700 | 115000 | 91700 | 72100 | | | | | |
| AW66-80 | 30 | | | | | | 216500 | 176900 | 143400 | 115000 | 91200 | 71300 | 54900 | 41400 | |
| | 40 | | | | | | 195600 | 159300 | 128500 | 102600 | 80800 | 62700 | 47800 | 35600 | |
| | 50 | | | | | | 174500 | 141600 | 113700 | 90100 | 70500 | 54200 | 40800 | | |
| AW66-100H | 30 | 407600 | 376200 | 344300 | 319600 | | 215200 | 175600 | 142000 | 113600 | | | | | |
| | 40 | 370200 | 342100 | 312500 | 286500 | | 194000 | 157700 | 126900 | 100900 | | | | | |
| | 50 | 332100 | 306100 | 280000 | 256600 | | 172600 | 139600 | 111700 | 88300 | | | | | |

Note: Head Cooling Fan Head Cooling Fan+Liquid Spray Device (Optional)

R134a Semi-Hermetic Standard 50Hz

Operating Conditions 25°C Suction Gas Return
No subcooling

| Compressor Model | Cond. Temp. °C | Refrigeration Capacity Watt Evaporating Temperature °C | | | | | | | | | | | | |
|------------------|----------------|---|--------|--------|--------|--------|--------|-------|-------|-------|-----|-----|-----|-----|
| | | 12.5 | 10 | 7 | 5 | 0 | -5 | -10 | -15 | -20 | -25 | -30 | -35 | -40 |
| 300-AL-60X | 30 | 8660 | 7880 | 7150 | 6470 | 5260 | 4220 | 3330 | 2560 | 1840 | | | | |
| | 40 | 7440 | 6770 | 6130 | 5550 | 4490 | 3590 | 2800 | 2140 | 1580 | | | | |
| | 50 | 6270 | 5680 | 5150 | 4660 | 3750 | 2980 | 2320 | 1760 | 1270 | | | | |
| 400-AL-65X | 30 | 11700 | 10640 | 9670 | 8760 | 7130 | 5730 | 4530 | 3520 | 2660 | | | | |
| | 40 | 10030 | 9120 | 8280 | 7480 | 6080 | 4850 | 3810 | 2930 | 2170 | | | | |
| | 50 | 8430 | 7650 | 6940 | 6260 | 5060 | 4030 | 3150 | 2390 | 1760 | | | | |
| 500-AL-75X | 30 | 13180 | 12000 | 10870 | 9820 | 7960 | 6360 | 4990 | 3820 | 2840 | | | | |
| | 40 | 11330 | 10300 | 9320 | 8420 | 6800 | 5410 | 4210 | 3200 | 2330 | | | | |
| | 50 | 9590 | 8630 | 7810 | 7050 | 5860 | 4490 | 3470 | 2600 | 1860 | | | | |
| 1000-AM-110X | 30 | 21690 | 19710 | 17870 | 16160 | 13100 | 10500 | 8260 | 6380 | 4810 | | | | |
| | 40 | 18590 | 16860 | 15260 | 13780 | 11120 | 8860 | 6930 | 5310 | 3940 | | | | |
| | 50 | 15520 | 14060 | 12710 | 11450 | 9200 | 7280 | 5640 | 4270 | 3120 | | | | |
| 1000-AR-120X | 30 | 27600 | 25100 | 22750 | 20600 | 16720 | 13410 | 10600 | 8210 | 6200 | | | | |
| | 40 | 23670 | 21500 | 19490 | 17890 | 14240 | 11360 | 8910 | 6850 | 5120 | | | | |
| | 50 | 19780 | 17960 | 16250 | 14660 | 11810 | 9370 | 7300 | 5550 | 4100 | | | | |
| 1500-AR-130X | 30 | 34350 | 31200 | 28300 | 25600 | 20750 | 16610 | 13090 | 10110 | 7620 | | | | |
| | 40 | 29400 | 25700 | 24150 | 21800 | 17620 | 14030 | 10970 | 8390 | 6240 | | | | |
| | 50 | 24600 | 22250 | 20100 | 18130 | 14570 | 11530 | 8940 | 6760 | 4950 | | | | |
| 2000-AR-140X | 30 | 43800 | 39760 | 36000 | 32520 | 26270 | 20960 | 16460 | 12650 | 9480 | | | | |
| | 40 | 38020 | 34500 | 31200 | 28150 | 22750 | 18060 | 14090 | 10740 | 7920 | | | | |
| | 50 | 32340 | 29330 | 26560 | 23970 | 19270 | 15280 | 11840 | 8920 | 6470 | | | | |
| 1000-AV-34X | 30 | 22510 | 20420 | 18470 | 16650 | 13410 | 10610 | 8220 | 6190 | 4470 | | | | |
| | 40 | 18880 | 17080 | 15420 | 13860 | 11070 | 8670 | 6620 | 4880 | 3400 | | | | |
| | 50 | 15290 | 13820 | 12430 | 11150 | 8840 | 6850 | 5150 | 3700 | 2480 | | | | |
| 1200-AV-41X | 30 | 27070 | 24560 | 22230 | 20050 | 16180 | 12850 | 10000 | 7580 | 5530 | | | | |
| | 40 | 22740 | 20600 | 18600 | 16740 | 13420 | 10550 | 8110 | 6010 | 4250 | | | | |
| | 50 | 18470 | 16700 | 15040 | 13510 | 10740 | 8350 | 6290 | 4540 | 3060 | | | | |
| 1300-AV-48X | 30 | 32280 | 29250 | 26400 | 23860 | 19210 | 15210 | 11800 | 8900 | 6450 | | | | |
| | 40 | 27210 | 24650 | 22230 | 20000 | 15970 | 12510 | 9560 | 7030 | 4900 | | | | |
| | 50 | 22190 | 20050 | 18030 | 16170 | 12810 | 9910 | 7410 | 5280 | 3460 | | | | |
| 1800-AV-56X | 30 | 37440 | 33950 | 30690 | 27720 | 22280 | 17650 | 13670 | 10270 | 7390 | | | | |
| | 40 | 31530 | 28510 | 25720 | 23120 | 18470 | 14450 | 11010 | 8090 | 5600 | | | | |
| | 50 | 25580 | 23120 | 20790 | 18600 | 14740 | 11390 | 8510 | 6070 | 4000 | | | | |
| 2500-AV-71X | 30 | 49970 | 45590 | 41210 | 37290 | 30270 | 24250 | 19100 | 14730 | 11020 | | | | |
| | 40 | 43160 | 39310 | 35460 | 32000 | 25800 | 20470 | 15900 | 12010 | 8720 | | | | |
| | 50 | 36160 | 32860 | 29560 | 26590 | 21250 | 16640 | 12680 | 9310 | 6440 | | | | |
| 3000-AV-86X | 30 | 59200 | 54040 | 48880 | 44270 | 36000 | 28910 | 22850 | 17690 | 13330 | | | | |
| | 40 | 51230 | 46690 | 42160 | 38090 | 30780 | 24500 | 19120 | 14550 | 10660 | | | | |
| | 50 | 43020 | 39130 | 35250 | 31750 | 25460 | 20030 | 15370 | 11400 | 8020 | | | | |
| 3500-AW-106X | 30 | 76200 | 69200 | 62920 | 56980 | 46340 | 37200 | 29400 | 22760 | 17140 | | | | |
| | 40 | 65940 | 59780 | 54240 | 49020 | 39610 | 31530 | 24600 | 18710 | 13710 | | | | |
| | 50 | 55370 | 50140 | 45360 | 40860 | 32760 | 25770 | 19770 | 14660 | 10310 | | | | |
| 4000-AW-129X | 30 | 90860 | 82590 | 74870 | 67720 | 54910 | 43920 | 34520 | 26530 | 19760 | | | | |
| | 40 | 78390 | 71080 | 64320 | 58010 | 46690 | 36960 | 28620 | 21530 | 15510 | | | | |
| | 50 | 65570 | 59380 | 53510 | 48090 | 38340 | 29930 | 22700 | 16550 | 11310 | | | | |
| 5000-AW-154X | 30 | 111980 | 101400 | 92260 | 83450 | 67650 | 54090 | 42500 | 32660 | 24310 | | | | |
| | 40 | 96590 | 87740 | 79240 | 71470 | 57510 | 45510 | 35220 | 26480 | 19050 | | | | |
| | 50 | 80770 | 73330 | 65910 | 59230 | 47200 | 36830 | 27920 | 20300 | 13800 | | | | |
| 5000-AZ-172X | 30 | 1117800 | 106160 | 97220 | 88020 | 71530 | 57380 | 45280 | 35000 | 26290 | | | | |
| | 40 | 101870 | 91460 | 83760 | 75640 | 61070 | 48540 | 37810 | 28680 | 20930 | | | | |
| | 50 | 85460 | 76370 | 69940 | 62970 | 50410 | 39590 | 30290 | 22370 | 16630 | | | | |
| 8000-AZ-205X | 30 | 144450 | 130130 | 119170 | 107870 | 87610 | 70230 | 55370 | 42750 | 32050 | | | | |
| | 40 | 124840 | 112030 | 102600 | 92640 | 74740 | 59350 | 46170 | 34960 | 25440 | | | | |
| | 50 | 104660 | 93480 | 85610 | 77040 | 61620 | 48320 | 36900 | 27180 | 18900 | | | | |
| AW66-70HX | 30 | 152400 | 138400 | 125800 | 114000 | 92700 | 74400 | 58800 | 45500 | 34300 | | | | |
| | 40 | 131900 | 119600 | 108500 | 98000 | 79200 | 63100 | 49200 | 37400 | 27400 | | | | |
| | 50 | 110700 | 100300 | 90700 | 81700 | 65500 | 51500 | 39500 | 29300 | 20600 | | | | |
| AW66-80HX | 30 | 181700 | 165200 | 149700 | 135400 | 109800 | 87800 | 69000 | 53100 | 39500 | | | | |
| | 40 | 156800 | 142200 | 128600 | 116000 | 93400 | 73900 | 57200 | 43100 | 31000 | | | | |
| | 50 | 131100 | 118800 | 107000 | 96200 | 76500 | 59900 | 45400 | 33100 | 22600 | | | | |
| AW66-100HX | 30 | 224000 | 202800 | 184500 | 166900 | 135300 | 108200 | 85000 | 65300 | 48600 | | | | |
| | 40 | 193200 | 175500 | 158500 | 142900 | 115000 | 91000 | 70400 | 53000 | 38100 | | | | |
| | 50 | 161500 | 146700 | 131800 | 118500 | 94400 | 73700 | 55800 | 40600 | 27600 | | | | |



R404A · R507A Semi-Hermetic Standard 50Hz

Operating Conditions 25°C Suction Gas Return
No subcooling

| Compressor Model | Cond. Temp. °C | Refrigeration Capacity Watt Evaporating Temperature °C | | | | | | | | | | | | |
|------------------|----------------|---|----|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | 12.5 | 10 | 7 | 5 | 0 | -5 | -10 | -15 | -20 | -25 | -30 | -35 | -40 |
| 200-AL-50X | 30 | | | 11320 | 10550 | 8790 | 7360 | 6040 | 4890 | 3890 | 3020 | 2290 | 1650 | 1100 |
| | 40 | | | 9570 | 8910 | 7390 | 6130 | 4990 | 3990 | 3130 | 2370 | 1710 | 1130 | 615 |
| | 50 | | | 7790 | 7230 | 5950 | 4860 | 3910 | 3080 | 2350 | 1710 | 1140 | 620 | |
| 200-AL-60X | 30 | | | | | | | | 6750 | 5420 | 4260 | 3270 | 2410 | 1670 |
| | 40 | | | | | | | | 5650 | 4360 | 3360 | 2500 | 1770 | 1130 |
| | 50 | | | | | | | | 4350 | 3340 | 2510 | 1795 | 1180 | |
| 300-AL-60X | 30 | | | 16580 | 15460 | 12970 | 10790 | 8870 | 7200 | 5740 | 4480 | 3400 | 2470 | 1670 |
| | 40 | | | 14060 | 13090 | 10880 | 9000 | 7360 | 5910 | 4660 | 3560 | 2620 | 1780 | 1040 |
| | 50 | | | | | 8810 | 7230 | 5850 | 4650 | 3590 | 2675 | 1865 | 1140 | |
| 300-AL-65X | 30 | | | | | | 14000 | 11500 | 9400 | 7870 | 6360 | 4910 | 3650 | 2610 |
| | 40 | | | | | | 11720 | 9610 | 7790 | 6500 | 5150 | 3870 | 2770 | 1830 |
| | 50 | | | | | | 9390 | 7620 | 6100 | 5050 | 3940 | 2840 | 1900 | 1100 |
| 300-AL-70X | 30 | | | | | | | | | 9330 | 7450 | 5830 | 4450 | 3270 |
| | 40 | | | | | | | | | 7880 | 6230 | 4800 | 3560 | 2490 |
| | 50 | | | | | | | | | 6390 | 4950 | 3710 | 2620 | 1650 |
| 400-AL-65X | 30 | | | 22820 | 21280 | 17950 | 15010 | 12400 | 10150 | 8150 | 6430 | 4950 | 3680 | 2600 |
| | 40 | | | 19610 | 18270 | 15270 | 12700 | 10450 | 8450 | 6730 | 5210 | 3930 | 2790 | 1810 |
| | 50 | | | | | 12580 | 10340 | 8410 | 6730 | 5260 | 3990 | 2870 | 1890 | |
| 400-AL-70X | 30 | | | | | | 17000 | 14070 | 11500 | 9240 | 7280 | 5600 | 4230 | 3070 |
| | 40 | | | | | | 14400 | 11830 | 9590 | 7620 | 5970 | 4550 | 3330 | 2290 |
| | 50 | | | | | | 11860 | 9660 | 7760 | 6120 | 4700 | 3470 | 2410 | 1480 |
| 400-AL-75X | 30 | | | | | | | | | 10800 | 8660 | 6830 | 5250 | 3930 |
| | 40 | | | | | | | | | 9120 | 7240 | 5640 | 4260 | 3070 |
| | 50 | | | | | | | | | 7400 | 5800 | 4420 | 3230 | 2180 |
| 500-AL-75X | 30 | | | 29800 | 27780 | 23300 | 19310 | 15840 | 12840 | 10560 | 8430 | 6600 | 5040 | 3720 |
| | 40 | | | 25570 | 23800 | 19850 | 16380 | 13350 | 10730 | 8850 | 6990 | 5390 | 4030 | 2860 |
| | 50 | | | | | 16330 | 13370 | 10800 | 8590 | 7130 | 5540 | 4180 | 3000 | |
| 750-AM-100X | 30 | | | 34850 | 31940 | 26730 | 22180 | 18250 | 14850 | 11930 | 9420 | 7290 | | |
| | 40 | | | 29430 | 26980 | 22590 | 18740 | 15390 | 12490 | 9970 | 7820 | 5970 | | |
| | 50 | | | 24170 | 22180 | 18570 | 15440 | 12620 | 10200 | 8090 | 6275 | 4710 | | |
| 750-AM-110X | 30 | | | | | | | | 17140 | 13710 | 10800 | 8360 | 6295 | 4580 |
| | 40 | | | | | | | | 14480 | 11500 | 8950 | 6790 | 4950 | 3990 |
| | 50 | | | | | | | | 11700 | 9210 | 7050 | 5210 | 3615 | 3010 |
| 1000-AM-110X | 30 | | | 39700 | 37100 | 31550 | 25780 | 21200 | 17200 | 13760 | 10840 | 8390 | 6320 | 4600 |
| | 40 | | | 34120 | 31800 | 26580 | 21970 | 18000 | 14510 | 11530 | 8980 | 6810 | 4960 | 4000 |
| | 50 | | | 28310 | 26350 | 21900 | 18005 | 14630 | 11720 | 9210 | 7070 | 5220 | 3620 | |
| 750-AR-120X | 30 | | | | | | | | | 16620 | 13280 | 10420 | 8000 | 5980 |
| | 40 | | | | | | | | | 14000 | 11080 | 8600 | 6490 | 4720 |
| | 50 | | | | | | | | | 11330 | 8850 | 6740 | 4960 | 3470 |
| 1000-AR-120X | 30 | | | 49750 | 46470 | 39000 | 32360 | 26600 | 21600 | 17320 | 13670 | 10600 | 8000 | 5860 |
| | 40 | | | 42100 | 39260 | 32860 | 27240 | 22350 | 18130 | 14500 | 11400 | 8730 | 6470 | 4540 |
| | 50 | | | 343200 | 32000 | 26710 | 22350 | 18130 | 14690 | 11740 | 9190 | 6990 | 5080 | |
| 100-AR-130X | 30 | | | | | | | | | 21750 | 17500 | 13840 | 10750 | 8160 |
| | 40 | | | | | | | | | 18420 | 14740 | 11590 | 8930 | 6690 |
| | 50 | | | | | | | | | 15080 | 11990 | 9370 | 7160 | 5290 |
| 1500-AR-130X | 30 | | | 63310 | 59160 | 49700 | 41400 | 34120 | 27830 | 23390 | 17830 | 13950 | 10700 | 8000 |
| | 40 | | | 53400 | 49860 | 41810 | 34760 | 28630 | 23330 | 18760 | 14860 | 11540 | 8700 | 6280 |
| | 50 | | | 43350 | 40430 | 33820 | 28100 | 23100 | 18800 | 15110 | 11930 | 9180 | 6800 | |
| 1300-AR-140X | 30 | | | | | | | | | 26300 | 21140 | 16730 | 12990 | 9860 |
| | 40 | | | | | | | | | 22270 | 17810 | 14010 | 10800 | 8100 |
| | 50 | | | | | | | | | 18240 | 14500 | 11330 | 8650 | 6400 |
| 2000-AR-140X | 30 | | | 76700 | 71720 | 60300 | 50230 | 41440 | 33850 | 28480 | 21750 | 17060 | 13120 | 9850 |
| | 40 | | | 64780 | 60500 | 50780 | 42250 | 34830 | 28420 | 22900 | 18180 | 14150 | 10700 | 7770 |
| | 50 | | | 52640 | 49110 | 41130 | 34170 | 28160 | 22960 | 18500 | 14640 | 11320 | 8420 | |
| 600-AV-34X | 30 | | | | | | 25160 | 20740 | 16920 | 13620 | 10790 | 8370 | 6310 | 4580 |
| | 40 | | | | | | 21160 | 17370 | 14090 | 11250 | 8810 | 6730 | 4950 | 3460 |
| | 50 | | | | | | | 13930 | 11210 | 8870 | 6860 | 5140 | 3680 | 2460 |
| 1000-AV-34X | 30 | | | 39760 | 36460 | 30510 | 25350 | 20840 | 16970 | 13590 | 10690 | 8200 | 6080 | 4260 |
| | 40 | | | 33580 | 30790 | 25670 | 21260 | 17380 | 14020 | 11120 | 8620 | 6480 | 4650 | 3120 |
| | 50 | | | 27490 | 25160 | 20930 | 17200 | 13970 | 11170 | 8760 | 6680 | 4920 | 3440 | 2200 |
| 800-AV-41X | 30 | | | | | | 30740 | 25350 | 20650 | 16640 | 13180 | 10230 | 7720 | 5620 |
| | 40 | | | | | | 25810 | 21210 | 17190 | 13730 | 10760 | 8220 | 6070 | 4260 |
| | 50 | | | | | | | 17070 | 13760 | 10900 | 8440 | 6330 | 4540 | 3040 |
| 1200-AV-41X | 30 | | | 47900 | 43900 | 36690 | 30460 | 25020 | 20370 | 16330 | 12870 | 9910 | 7410 | 5310 |
| | 40 | | | 40460 | 37070 | 30970 | 25630 | 21020 | 16990 | 13520 | 10530 | 7990 | 5840 | 4020 |
| | 50 | | | 32930 | 30140 | 25160 | 20790 | 16960 | 13630 | 10750 | 8260 | 6130 | 4330 | 2810 |
| 1000-AV-48X | 30 | | | | | | 35620 | 29390 | 23950 | 19260 | 15250 | 11810 | 8890 | 6430 |
| | 40 | | | | | | 30040 | 24650 | 20000 | 15940 | 12470 | 9510 | 7000 | 4880 |
| | 50 | | | | | | | 20000 | 16080 | 12710 | 9820 | 7340 | 5250 | 3500 |



R404A · R507A Semi-Hermetic Standard 50Hz

Operating Conditions 25°C Suction Gas Return
No subcooling

| Compressor Model | Cond. Temp. °C | Refrigeration Capacity Watt Evaporating Temperature °C | | | | | | | | | | | | | |
|------------------|----------------|---|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| | | 12.5 | 10 | 7 | 5 | 0 | -5 | -10 | -15 | -20 | -25 | -30 | -35 | -40 | |
| 1300-AV-48X | 30 | | | 57200 | 52460 | 43810 | 36320 | 29860 | 24180 | 19350 | 15180 | 11620 | 8600 | 6050 | |
| | 40 | | | 48550 | 44510 | 37160 | 30740 | 25160 | 20330 | 16150 | 12550 | 9480 | 6880 | 4670 | |
| | 50 | | | 39620 | 36270 | 30230 | 24880 | 20280 | 16210 | 12730 | 9730 | 7180 | 5010 | 3190 | |
| 1300-AV-56X | 30 | | | | | | 40920 | 33720 | 27490 | 22090 | 17500 | 13560 | 10230 | 7430 | |
| | 40 | | | | | | 34690 | 28460 | 23070 | 19430 | 14430 | 11020 | 8130 | 5700 | |
| | 50 | | | | | | 23120 | 18600 | 14720 | 11360 | 8490 | 6060 | 4000 | | |
| 1800-AV-56X | 30 | | | 66030 | 60550 | 50690 | 42090 | 34600 | 28140 | 22560 | 17740 | 13620 | 10100 | 7130 | |
| | 40 | | | 56270 | 51530 | 43020 | 35530 | 29070 | 23440 | 18600 | 14450 | 10910 | 7920 | 5420 | |
| | 50 | | | 46410 | 42460 | 35250 | 28930 | 23490 | 18740 | 14660 | 11170 | 8230 | 5750 | 3710 | |
| 1500-AV-71X | 30 | | | | | | | 46310 | 38010 | 30900 | 24750 | 19610 | 15170 | 11480 | |
| | 40 | | | | | | | 39930 | 32600 | 26330 | 20890 | 16340 | 12390 | 9120 | |
| | 50 | | | | | | | 26770 | 21420 | 16790 | 12890 | 9520 | 6710 | | |
| 2500-AV-71X | 30 | | | 84980 | 77900 | 65370 | 54480 | 45240 | 37080 | 30080 | 24030 | 18980 | | | |
| | 40 | | | 73760 | 67580 | 56610 | 47050 | 38910 | 31710 | 25540 | 20190 | 15710 | | | |
| | 50 | | | 61420 | 56240 | 47020 | 38950 | 32060 | 25940 | 20680 | 16110 | 12280 | | | |
| 2000-AV-86X | 30 | | | | | | | 54280 | 44730 | 36540 | 29470 | 23550 | 18440 | 14190 | |
| | 40 | | | | | | | 47080 | 38650 | 31420 | 25160 | 19920 | 15390 | 11620 | |
| | 50 | | | | | | | 32040 | 25880 | 20540 | 16060 | 12180 | 8950 | | |
| 3000-AV-86X | 30 | | | 100970 | 92610 | 77790 | 64930 | 54010 | 44360 | 36090 | 28950 | 22970 | | | |
| | 40 | | | 87800 | 80500 | 67520 | 56220 | 46610 | 38100 | 30800 | 24480 | 19180 | | | |
| | 50 | | | 73270 | 67150 | 56250 | 46710 | 38560 | 31330 | 25120 | 19720 | 15200 | | | |
| 2500-AW-106X | 30 | | | | | | | 68790 | 56480 | 45940 | 36300 | 29210 | 22620 | 17150 | |
| | 40 | | | | | | | 59340 | 48490 | 39190 | 31130 | 24380 | 18530 | 13680 | |
| | 50 | | | | | | | 39860 | 31930 | 25060 | 19290 | 14280 | | | |
| 3500-AW-106X | 30 | | | 128500 | 117800 | 98830 | 82370 | 68390 | 56030 | 45450 | 36300 | 28650 | | | |
| | 40 | | | 111530 | 102180 | 85570 | 71110 | 58810 | 47910 | 38570 | 30470 | 23690 | | | |
| | 50 | | | 92840 | 85020 | 71060 | 58850 | 48430 | 39170 | 31210 | 24310 | 18510 | | | |
| 3000-AW-129X | 30 | | | | | | | 82420 | 67690 | 55080 | 44180 | 35050 | 27170 | 20620 | |
| | 40 | | | | | | | 71130 | 58140 | 47000 | 37360 | 29280 | 22280 | 16470 | |
| | 50 | | | | | | | 47820 | 38330 | 30100 | 23200 | 17210 | | | |
| 4000-AW-129X | 30 | | | 154330 | 141490 | 118740 | 98980 | 82210 | 67390 | 54700 | 43720 | 35400 | | | |
| | 40 | | | 134000 | 122780 | 102860 | 85510 | 70740 | 57670 | 46460 | 36750 | 28620 | | | |
| | 50 | | | 111600 | 102210 | 85470 | 70820 | 58310 | 47200 | 37660 | 29370 | 22420 | | | |
| 4000-AW-154X | 30 | | | | | | | 123620 | 102840 | 84480 | 68750 | 55150 | 43770 | 33930 | 25770 |
| | 40 | | | | | | | 107070 | 88780 | 72580 | 58680 | 46650 | 36580 | 27850 | 20610 |
| | 50 | | | | | | | 73470 | 59700 | 47880 | 37610 | 29000 | 21520 | | |
| 5000-AW-154X | 30 | | | 190480 | 174610 | 146490 | 122070 | 101340 | 83020 | 67330 | 53770 | 42420 | | | |
| | 40 | | | 165310 | 151440 | 126820 | 105370 | 87120 | 70970 | 57110 | 45110 | 35060 | | | |
| | 50 | | | 137590 | 125980 | 105290 | 87190 | 71720 | 58000 | 46200 | 35960 | 27360 | | | |
| 4000-AZ-172X | 30 | | | | | | | 136260 | 113370 | 93140 | 75810 | 60830 | 48300 | 37460 | 28470 |
| | 40 | | | | | | | 118040 | 97890 | 80040 | 64740 | 51480 | 40380 | 30770 | 22790 |
| | 50 | | | | | | | 98110 | 81030 | 65870 | 52840 | 41530 | 32040 | 23810 | |
| 5000-AZ-172X | 30 | | | 209930 | 192440 | 161460 | 134550 | 111720 | 91530 | 74250 | 59300 | 46800 | | | |
| | 40 | | | 182200 | 166920 | 139800 | 116170 | 96060 | 78260 | 62990 | 49770 | 38700 | | | |
| | 50 | | | 151670 | 138880 | 116090 | 96140 | 79100 | 63980 | 50980 | 39700 | 30230 | | | |
| 6000-AZ-205X | 30 | | | | | | | 166910 | 138870 | 114080 | 92850 | 74500 | 59150 | 45870 | 34850 |
| | 40 | | | | | | | 144580 | 119890 | 98030 | 79280 | 63040 | 49440 | 37670 | 27890 |
| | 50 | | | | | | | 120160 | 99240 | 80660 | 64700 | 50850 | 39220 | 29140 | |
| 8000-AZ-205X | 30 | | | 234080 | 196450 | 163780 | 136050 | 111540 | 90550 | 72390 | 57210 | | | | |
| | 40 | | | 203150 | 170200 | 141510 | 117090 | 95470 | 76930 | 60880 | 47430 | | | | |
| | 50 | | | 169140 | 141450 | 117230 | 96540 | 78170 | 62380 | 48580 | 37180 | | | | |
| AW66-50X | 30 | | | | | | | 137600 | 113000 | 91900 | 72600 | 58400 | 45200 | 34300 | |
| | 40 | | | | | | | 118700 | 97000 | 78400 | 62200 | 48700 | 37100 | 27300 | |
| | 50 | | | | | | | 79700 | 63900 | 50100 | 38600 | 28500 | | | |
| AW66-70HX | 30 | | | 257000 | 235600 | 197700 | 165000 | 136800 | 112000 | 90900 | 72600 | 57300 | | | |
| | 40 | | | 223000 | 204300 | 171000 | 142000 | 117600 | 95800 | 77100 | 60900 | 47400 | | | |
| | 50 | | | 185700 | 170000 | 142000 | 117700 | 96800 | 78300 | 62400 | 48600 | 37000 | | | |
| AW66-60X | 30 | | | | | | | 164800 | 135400 | 110200 | 88400 | 70100 | 54300 | 41200 | |
| | 40 | | | | | | | 142300 | 116300 | 94000 | 74700 | 58500 | 44500 | 32900 | |
| | 50 | | | | | | | 95600 | 76600 | 60200 | 46400 | 34400 | | | |
| AW66-80HX | 30 | | | 308700 | 283000 | 237500 | 198000 | 164400 | 134800 | 109400 | 87400 | 70800 | | | |
| | 40 | | | 268000 | 245600 | 205700 | 171000 | 141500 | 115300 | 92900 | 73500 | 57200 | | | |
| | 50 | | | 223000 | 204400 | 171000 | 141600 | 116600 | 94400 | 75300 | 58700 | 44800 | | | |
| AW66-80X | 30 | | | | | | | 247200 | 205700 | 169000 | 137500 | 110300 | 87500 | 67900 | 51500 |
| | 40 | | | | | | | 214100 | 177600 | 145200 | 117300 | 93300 | 73200 | 55700 | 41200 |
| | 50 | | | | | | | 146900 | 119400 | 95800 | 75200 | 58000 | 43000 | | |
| AW66-100HX | 30 | | | 381000 | 349000 | 293000 | 244000 | 202700 | 166000 | 134700 | 107500 | 84800 | | | |
| | 40 | | | 330600 | 303000 | 253600 | 211000 | 174200 | 142000 | 114200 | 90200 | 70100 | | | |
| | 50 | | | 275200 | 252000 | 210600 | 174400 | 143400 | 116000 | 92400 | 71900 | 54700 | | | |



R407C Semi-Hermetic Standard 50Hz

Operating Conditions 25°C Suction Gas Return
No subcooling

| Compressor Model | Cond. Temp. °C | Refrigeration Capacity Watt Evaporating Temperature °C | | | | | | | | | | | | |
|------------------|----------------|---|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----|-----|-----|
| | | 12.5 | 10 | 7 | 5 | 0 | -5 | -10 | -15 | -20 | -25 | -30 | -35 | -40 |
| 200-AL-50X | 30 | 11100 | 10100 | 9190 | 8350 | 6860 | 5580 | 4470 | 3530 | 2730 | 2060 | | | |
| | 40 | 9600 | 8760 | 7960 | 7230 | 5920 | 4780 | 3820 | 2990 | 2280 | 1690 | | | |
| | 50 | 8200 | 7470 | 6790 | 6160 | 5020 | 4050 | 3210 | 2490 | 1880 | 1360 | | | |
| 300-AL-60X | 30 | 15750 | 14370 | 13100 | 11880 | 9750 | 7910 | 6340 | 4990 | 3860 | 2890 | | | |
| | 40 | 13630 | 12410 | 11270 | 10220 | 8340 | 6710 | 5320 | 4140 | 3120 | 2270 | | | |
| | 50 | 11540 | 10480 | 9500 | 8590 | 6950 | 5530 | 4320 | 3290 | 2400 | 1650 | | | |
| 400-AL-65X | 30 | 21900 | 19970 | 18190 | 16540 | 13600 | 11060 | 8890 | 7040 | 5470 | 4140 | | | |
| | 40 | 18940 | 17260 | 15680 | 14230 | 11640 | 9400 | 7470 | 5830 | 4430 | 3250 | | | |
| | 50 | 16020 | 14550 | 13200 | 11950 | 9680 | 7740 | 6060 | 4630 | 3400 | 2370 | | | |
| 400-AL-70X | 30 | 25840 | 23540 | 21400 | 19440 | 15920 | 12880 | 10280 | 8070 | 6180 | 4600 | | | |
| | 40 | 22580 | 20510 | 18620 | 16860 | 13710 | 11010 | 8690 | 6700 | 5020 | 3590 | | | |
| | 50 | 19250 | 17470 | 15820 | 14280 | 11520 | 9150 | 7100 | 5350 | 3860 | 2600 | | | |
| 500-AL-75X | 30 | 30400 | 27700 | 25250 | 22900 | 18810 | 15270 | 12230 | 9650 | 7450 | 5590 | | | |
| | 40 | 26350 | 24000 | 21800 | 19750 | 16100 | 12970 | 10280 | 7980 | 6030 | 4380 | | | |
| | 50 | 22300 | 20250 | 18360 | 16600 | 13430 | 10700 | 8350 | 6340 | 4630 | 3190 | | | |
| 750-AM-100X | 30 | 44100 | 40200 | 36600 | 33240 | 27240 | 22100 | 17690 | 13920 | 10700 | 8020 | | | |
| | 40 | 38220 | 34800 | 31620 | 28680 | 23380 | 18800 | 14910 | 11580 | 8740 | 6350 | | | |
| | 50 | 32460 | 29520 | 26760 | 24240 | 19600 | 15650 | 12240 | 9320 | 6850 | 4750 | | | |
| 1000-AM-110X | 30 | 42420 | 38660 | 35150 | 31920 | 26170 | 21230 | 16970 | 13340 | 10260 | 7670 | | | |
| | 40 | 37710 | 34300 | 31160 | 28260 | 23040 | 18530 | 14680 | 11370 | 8570 | 6200 | | | |
| | 50 | 32870 | 29880 | 27080 | 24460 | 19800 | 15800 | 12350 | 9400 | 6880 | 4750 | | | |
| 1000-AR-120X | 30 | 54770 | 49930 | 45440 | 41310 | 33860 | 27540 | 22030 | 17390 | 13440 | 10100 | | | |
| | 40 | 48800 | 44470 | 40390 | 36620 | 29880 | 24120 | 19140 | 14900 | 11290 | 8240 | | | |
| | 50 | 42640 | 38760 | 35190 | 31820 | 25800 | 20600 | 16170 | 12350 | 9110 | 6370 | | | |
| 1500-AR-130X | 30 | 65310 | 59590 | 54300 | 49350 | 40510 | 32970 | 26470 | 20900 | 16220 | 12260 | | | |
| | 40 | 58240 | 53140 | 48300 | 43900 | 35880 | 29010 | 23140 | 18100 | 13830 | 10220 | | | |
| | 50 | 51060 | 46500 | 42280 | 38270 | 31200 | 25060 | 19810 | 15300 | 11460 | 8220 | | | |
| 2000-AR-140X | 30 | 79710 | 72760 | 62270 | 49350 | 49350 | 40100 | 32150 | 25330 | 19550 | 14690 | | | |
| | 40 | 70030 | 63830 | 58100 | 43050 | 43050 | 34180 | 27640 | 21570 | 16390 | 12010 | | | |
| | 50 | 60530 | 55100 | 50000 | 36800 | 36800 | 29520 | 23270 | 17900 | 13340 | 9490 | | | |
| 1000-AV-34X | 30 | 43160 | 39390 | 35860 | 26790 | 267790 | 21770 | 17440 | 13760 | 10630 | 7980 | | | |
| | 40 | 37440 | 34140 | 31070 | 23160 | 23160 | 18740 | 14970 | 11740 | 8990 | 6660 | | | |
| | 50 | 31810 | 28970 | 26320 | 19490 | 19490 | 15690 | 12440 | 9670 | 7310 | 5320 | | | |
| 1200-AV-41X | 30 | 51710 | 47160 | 42970 | 32090 | 32090 | 26140 | 21020 | 16610 | 12890 | 9730 | | | |
| | 40 | 45080 | 41110 | 37440 | 27860 | 27860 | 22600 | 18070 | 14200 | 10900 | 8120 | | | |
| | 50 | 38320 | 34880 | 31720 | 23490 | 23490 | 18980 | 15060 | 11730 | 8920 | 6550 | | | |
| 1300-AV-48X | 30 | 61940 | 56460 | 51430 | 46690 | 38320 | 31110 | 24930 | 19670 | 15180 | 11410 | | | |
| | 40 | 54040 | 49200 | 44780 | 40650 | 33300 | 26930 | 21490 | 16810 | 12850 | 9500 | | | |
| | 50 | 46040 | 41950 | 38090 | 34550 | 28180 | 22700 | 17980 | 13980 | 10590 | 7740 | | | |
| 1800-AV-56X | 30 | 71520 | 65290 | 59430 | 54040 | 44370 | 36040 | 28930 | 22840 | 17670 | 13300 | | | |
| | 40 | 62590 | 57110 | 5100 | 47160 | 38600 | 31210 | 24880 | 19440 | 14860 | 10950 | | | |
| | 50 | 53480 | 48640 | 44230 | 40090 | 32650 | 26280 | 20790 | 16080 | 12100 | 8750 | | | |
| 2500-AV-71X | 30 | 97350 | 89110 | 80870 | 73550 | 60460 | 49220 | 39630 | 31460 | 24550 | 18720 | | | |
| | 40 | 86830 | 79380 | 71930 | 65300 | 35400 | 43240 | 34520 | 27100 | 20800 | 15490 | | | |
| | 50 | 75650 | 69040 | 62440 | 56560 | 46000 | 36920 | 29150 | 22520 | 16900 | 12150 | | | |
| 3000-AV-86X | 30 | 115250 | 105510 | 95770 | 87110 | 71630 | 58350 | 47010 | 37360 | 29190 | 22290 | | | |
| | 40 | 102850 | 94040 | 85240 | 77400 | 63370 | 51310 | 41010 | 32240 | 24790 | 18520 | | | |
| | 50 | 89660 | 81850 | 74050 | 67100 | 54620 | 43890 | 34700 | 26860 | 20210 | 14600 | | | |
| 3500-AW-106X | 30 | 141600 | 129130 | 11766 | 107030 | 88000 | 71700 | 57760 | 45910 | 35860 | 27390 | | | |
| | 40 | 126360 | 115240 | 104720 | 95100 | 77850 | 63050 | 50380 | 39600 | 30460 | 22750 | | | |
| | 50 | 110160 | 100470 | 90980 | 82440 | 67100 | 53920 | 42630 | 33000 | 24830 | 17930 | | | |
| 4000-AW-129X | 30 | 170200 | 155100 | 141400 | 128600 | 105700 | 86060 | 69280 | 55000 | 42900 | 32700 | | | |
| | 40 | 151850 | 138300 | 125800 | 114200 | 93400 | 75600 | 60350 | 47360 | 36350 | 27070 | | | |
| | 50 | 132300 | 120500 | 109200 | 98900 | 80420 | 64540 | 50940 | 39350 | 29520 | 21200 | | | |
| 5000-AW-154X | 30 | 205700 | 187800 | 171000 | 155700 | 128200 | 104600 | 84460 | 67320 | 52800 | 40550 | | | |
| | 40 | 172400 | 157400 | 142550 | 138630 | 113700 | 92300 | 73990 | 58400 | 45180 | 3404 | | | |
| | 50 | 160500 | 146560 | 132880 | 120520 | 98360 | 79300 | 62960 | 49040 | 37230 | 27260 | | | |
| 5000-AZ-172X | 30 | 230230 | 209100 | 191490 | 174290 | 143500 | 117090 | 94540 | 75360 | 59100 | 45390 | | | |
| | 40 | 205810 | 186490 | 170780 | 155200 | 127290 | 103320 | 82830 | 65380 | 50580 | 38100 | | | |
| | 50 | 179800 | 162430 | 148750 | 134920 | 110100 | 88760 | 70480 | 54900 | 41670 | 30510 | | | |
| 8000-AZ-205X | 30 | 282700 | 256770 | 235140 | 214010 | 176200 | 143780 | 116090 | 92530 | 72560 | 55740 | | | |
| | 40 | 252710 | 228990 | 209700 | 190570 | 156300 | 126860 | 107100 | 80280 | 62100 | 46180 | | | |
| | 50 | 220770 | 199450 | 182650 | 165670 | 135200 | 108990 | 86550 | 67420 | 51170 | 37470 | | | |
| AW66-70HX | 30 | 283200 | 258300 | 235300 | 214100 | 176000 | 143400 | 115500 | 91800 | 71700 | 54800 | | | |
| | 40 | 252700 | 230500 | 209400 | 190200 | 155700 | 126000 | 100800 | 79200 | 60900 | 45500 | | | |
| | 50 | 220300 | 200900 | 182000 | 164900 | 134200 | 107800 | 85300 | 66000 | 49700 | 35900 | | | |
| AW66-80HX | 30 | 340500 | 310200 | 282800 | 257200 | 211400 | 172100 | 138600 | 110000 | 85800 | 65400 | | | |
| | 40 | 303700 | 276700 | 251600 | 228400 | 186900 | 151200 | 120700 | 94700 | 72700 | 54100 | | | |
| | 50 | 264500 | 241000 | 218300 | 197800 | 160800 | 129100 | 101900 | 78700 | 59000 | 42400 | | | |
| AW66-100HX | 30 | 411300 | 375700 | 342100 | 311400 | 256600 | 209200 | 168900 | 134600 | 105600 | 81100 | | | |
| | 40 | 344900 | 314800 | 305100 | 277300 | 227400 | 184600 | 148000 | 116800 | 90400 | 68100 | | | |
| | 50 | 321200 | 293100 | 265800 | 241000 | 196700 | 158600 | 125900 | 98100 | 74500 | 54500 | | | |

R22 Semi-Hermetic 2-Stages Standard 50Hz

Operating Conditions 20°C Suction Gas Return
No subcooling

| Compressor Model | Cond. Temp. °C | Refrigeration Capacity Watt Evaporating Temperature °C | | | | | | | | |
|------------------|----------------|---|-------|-------|-------|-------|-------|-------|-----|-----|
| | | -20 | -25 | -30 | -35 | -40 | -45 | -50 | -55 | -60 |
| ASR3-750 | 30 | | | 7640 | 6130 | 4870 | 3770 | 2860 | | |
| | 40 | | | 7210 | 5810 | 4640 | 3630 | 2780 | | |
| | 50 | | | 6710 | 5420 | 4410 | 3420 | 2600 | | |
| ASR3-1000 | 30 | | | 9760 | 7770 | 6110 | 4730 | 3590 | | |
| | 40 | | | 9220 | 7380 | 5830 | 4550 | 3490 | | |
| | 50 | | | 8570 | 6870 | 5460 | 4290 | 3320 | | |
| ASR3-1300 | 30 | | | 11460 | 9130 | 7170 | 5550 | 4220 | | |
| | 40 | | | 10820 | 8650 | 6840 | 5340 | 4100 | | |
| | 50 | | | 10050 | 8060 | 6410 | 5030 | 3890 | | |
| ASV4-1500 | 30 | 22070 | 17780 | 14200 | 11250 | 8800 | 6810 | 5210 | | |
| | 40 | 20320 | 16410 | 13140 | 10430 | 8190 | 6350 | 4880 | | |
| | 50 | 18520 | 15000 | 12040 | 9580 | 7540 | | | | |
| ASW6-2000 | 30 | 33800 | 27800 | 22700 | 18400 | 14800 | 11800 | 9400 | | |
| | 40 | 32900 | 27000 | 22100 | 17900 | 14400 | 11400 | 9000 | | |
| | 50 | 31700 | 26000 | 21200 | 17100 | 13700 | 10800 | | | |
| ASW6-2500 | 30 | 40000 | 32600 | 26400 | 21200 | 16900 | 13300 | 10300 | | |
| | 40 | 38800 | 31600 | 25600 | 20500 | 16200 | 12600 | 9700 | | |
| | 50 | 37400 | 30500 | 24500 | 19500 | 15300 | 11800 | | | |
| ASW6-3000 | 30 | 47770 | 39100 | 31700 | 25480 | 20200 | 15900 | 12350 | | |
| | 40 | 46530 | 37950 | 30670 | 24550 | 19400 | 15160 | 11660 | | |
| | 50 | 44860 | 36510 | 29380 | 23350 | 18300 | 14100 | | | |
| ASZ8-3500 | 30 | 52380 | 43040 | 35380 | 28650 | 22940 | 18135 | 14160 | | |
| | 40 | 50790 | 42020 | 34480 | 27850 | 22460 | 17810 | 13950 | | |
| | 50 | 49040 | 40690 | 33455 | 27240 | 21925 | | | | |
| ASZ8-4000 | 30 | 62310 | 51445 | 42080 | 34075 | 27285 | 21575 | 16845 | | |
| | 40 | 604115 | 49990 | 41015 | 33295 | 26720 | 21185 | 16590 | | |
| | 50 | 58335 | 48405 | 39800 | 32405 | 26080 | | | | |

R404A Semi-Hermetic 2-Stages Standard 50Hz

Operating Conditions 20°C Suction Gas Return
No subcooling

| Compressor Model | Cond. Temp. °C | Refrigeration Capacity Watt Evaporating Temperature °C | | | | | | | | |
|------------------|----------------|---|-------|-------|-------|-------|-------|-------|------|------|
| | | -30 | -35 | -40 | -45 | -50 | -55 | -60 | -65 | -70 |
| ASR3-750X | 30 | 8500 | 7150 | 5950 | 4850 | 3850 | 3000 | 2300 | 1800 | 1400 |
| | 40 | 7950 | 6700 | 5600 | 4550 | 3600 | 2800 | 2150 | 1700 | |
| | 50 | 7200 | 6050 | 5050 | 4150 | 3250 | 2550 | | | |
| ASR3-1000X | 30 | 10850 | 9150 | 7600 | 6200 | 4900 | 3800 | 2950 | 2300 | 1750 |
| | 40 | 10150 | 8550 | 7150 | 5800 | 4600 | 3600 | 2750 | 2150 | |
| | 50 | 9200 | 7750 | 6450 | 5250 | 4150 | 3250 | | | |
| ASR3-1300X | 30 | 12750 | 10750 | 8950 | 7300 | 5750 | 4500 | 3450 | 2700 | 2050 |
| | 40 | 11950 | 10050 | 8500 | 6850 | 5400 | 4200 | 3250 | 2550 | |
| | 50 | 10800 | 9100 | 7600 | 6200 | 4900 | 3800 | | | |
| ASV4-1500X | 30 | 15800 | 13300 | 11100 | 9050 | 7150 | 5550 | 4300 | 3350 | 2550 |
| | 40 | 14500 | 12200 | 10150 | 8300 | 6550 | 5100 | 3950 | 3050 | |
| | 50 | 12900 | 10850 | 9050 | 7400 | 5850 | 4550 | | | |
| ASW6-2000X | 30 | 23830 | 19560 | 15780 | 12490 | 9680 | 7360 | 5470 | 3970 | 2830 |
| | 40 | 21040 | 17210 | 13820 | 10930 | 8460 | 6460 | 4810 | 3470 | |
| | 50 | 18040 | 14730 | 11850 | 9390 | 7300 | 5540 | | | |
| ASW6-2500X | 30 | 28920 | 23740 | 19180 | 15170 | 11770 | 8930 | 6650 | 4840 | 3440 |
| | 40 | 25540 | 20890 | 16800 | 13260 | 10300 | 7840 | 5830 | 4220 | |
| | 50 | 21880 | 17890 | 14400 | 11400 | 8870 | 6730 | | | |
| ASW6-3000X | 30 | 34560 | 28400 | 22900 | 18120 | 14050 | 10680 | 7940 | 5780 | 4100 |
| | 40 | 30530 | 24970 | 20050 | 15850 | 12300 | 9370 | 6980 | 5040 | |
| | 50 | 26170 | 21360 | 17200 | 13620 | 10590 | 8040 | | | |
| ASZ8-3500X | 30 | 39300 | 33050 | 27550 | 22450 | 17700 | 13800 | 10650 | 8300 | 6300 |
| | 40 | 37950 | 31900 | 26600 | 21650 | 17100 | 13300 | 10250 | 8000 | |
| | 50 | 35800 | 30100 | 25100 | 20450 | 16150 | 12550 | | | |
| ASZ8-4000X | 30 | 46750 | 39300 | 32750 | 26650 | 21050 | 16400 | 12650 | 9850 | 7500 |
| | 40 | 45150 | 37950 | 31650 | 25750 | 20350 | 15850 | 12200 | 9500 | |
| | 50 | 42600 | 35800 | 29850 | 24300 | 19200 | 14950 | | | |

Technical Data & Dimensions - Semi-Hermetic 50Hz

| Compressor Model | Nominal Power (HP/KW) | Displacement Volume (m³/h) | Connection Size | | Oil Charge (litre) | Power Supply (V/Hz/Ψ) | Elektrical Data | | | Overall Dim. AXBXC (mm) | Mounting Dim. EXDXΦ (mm) | Weight Net (Kg) |
|------------------|-----------------------|----------------------------|-----------------|-----------|--------------------|--|-----------------|---------|---------|-------------------------|--------------------------|-----------------|
| | | | Suc. Φ mm | Dis. Φ mm | | | MRA (1) (A) | LRA (A) | PWS (A) | | | |
| 200-AL-50(X) | 2/1.49 | 9.1 | 7/8" | 1/2" | 2.5 | ΔY Δ220±10% /50/3 Δ260±10% /60/3 Y380±10% /50/3 Y440±10% /60/3 | 9.5/5.5 | 45/26 | | 457X340 X370 | 295X280 X90 | 86 |
| 200-AL-60(X) | 2/1.49 | 12.9 | 7/8" | 1/2" | 2.5 | | 9.5/5.5 | 45/26 | | 457X340 X370 | 295X280 X90 | 86 |
| 300-AL-60(X) | 3/2.24 | 12.9 | 1 1/8" | 5/8" | 2.5 | | 12.1/7.0 | 67.5/39 | | 457X340 X370 | 295X280 X90 | 91 |
| 300-AL-65(X) | 3/2.24 | 17.1 | 1 1/8" | 5/8" | 2.5 | | 13.5/7.8 | 67.5/39 | | 457X340 X370 | 295X280 X90 | 91 |
| 300-AL-70(X) | 3/2.24 | 19.4 | 1 1/8" | 5/8" | 2.5 | | 13.5/7.8 | 67.5/39 | | 457X340 X370 | 295X280 X90 | 91 |
| 400-AL-65(X) | 4/2.98 | 17.1 | 1 1/8" | 5/8" | 2.5 | | 18.0/10.4 | 71/41 | | 482X340 X370 | 295X280 X90 | 93 |
| 400-AL-70(X) | 4/2.98 | 19.4 | 1 1/8" | 5/8" | 2.5 | | 15.5/9.0 | 71/41 | | 482X340 X370 | 295X280 X90 | 93 |
| 400-AL-75(X) | 4/2.98 | 22.5 | 1 1/8" | 5/8" | 2.5 | | 16.4/9.5 | 71/41 | | 482X340 X370 | 295X280 X90 | 93 |
| 500-AL-70(X) | 5/3.70 | 19.4 | 1 1/8" | 5/8" | 2.5 | | 19.7/11.4 | 79.6/46 | | 482X340 X370 | 295X280 X90 | 96 |
| 500-AL-75(X) | 5/3.70 | 22.5 | 1 1/8" | 5/8" | 2.5 | | 19.7/11.4 | 79.6/46 | | 482X340 X370 | 295X280 X90 | 96 |
| 750-AM-100(X) | 7.5/5.55 | 27.4 | 1 3/8" | 1 1/8" | 2.5 | | 26.6/15.4 | 125/72 | | 610X337 X450 | 295X280 X152 | 144 |
| 750-AM-110(X) | 7.5/5.55 | 31.3 | 1 3/8" | 1 1/8" | 2.5 | | 25.6/14.8 | 125/72 | | 610X337 X450 | 295X280 X152 | 144 |
| 1000-AM-110(X) | 10/7.40 | 31.3 | 1 3/8" | 1 1/8" | 2.5 | | 32.1/18.6 | 142/82 | | 610X337 X450 | 295X280 X152 | 150 |
| 750-AR-120(X) | 7.5/5.5 | 40.9 | 1 3/8" | 1 1/8" | 3 | | 32.5/18.8 | 125/72 | | 705X356 X470 | 381X305 X169 | 158 |
| 1000-AR-120(X) | 10/7.40 | 40.9 | 1 3/8" | 1 1/8" | 3 | | 37.7/21.8 | 142/82 | | 705X356 X470 | 381X305 X169 | 165 |
| 1000-AR-130(X) | 10/7.40 | 49.9 | 1 3/8" | 1 1/8" | 3 | | 37.0/21.4 | 142/82 | | 705X356 X470 | 381X305 X169 | 165 |
| 1500-AR-130(X) | 15/11.30 | 49.9 | 1 5/8" | 1 1/8" | 3 | | 48.4/28.0 | 176/102 | | 705X356 X470 | 381X305 X169 | 177 |
| 1300-AR-140(X) | 13/9.67 | 60.3 | 1 3/8" | 1 1/8" | 3 | | 48.4/28.0 | 154/89 | | 705X356 X470 | 381X305 X169 | 172 |
| 2000-AR-140(X) | 20/14.80 | 60.3 | 1 5/8" | 1 1/8" | 3 | | 60.3/35 | 238/138 | | 705X356 X470 | 381X305 X169 | 186 |

Note: 1) For the selection of relay, cable and fuses, the MRA must be considered.

Technical Data & Dimensions - Semi-Hermetic

| Compressor Model | Nominal Power (HP/KW) | Displacement Volume (m ³ /h) | Connection Size | | Oil Charge (litre) | Power Supply (V/Hz/Ψ) | Elektrical Data | | | Overall Dim. AXBXC (mm) | Mounting Dim. EXDXΦ (mm) | Weight Net (Kg) |
|------------------|-----------------------|---|-----------------|-----------|--------------------|--|-----------------|---------|---------|-------------------------|--------------------------|-----------------|
| | | | Suc. Φ mm | Dis. Φ mm | | | MRA (1) (A) | LRA (A) | PWS (A) | | | |
| 600-AV-34(X) | 6/4.5 | 34 | 28 | 22 | 2.6 | ΔY Δ220±10% /50/3 Δ260±10% /60/3 Y380±10% /50/3 Y440±10% /60/3 | 14 | 68 | 39 | 635X310 X390 | 367X256 XΦ20.5 | 135 |
| 1000-AV-34(X) | 10/7.4 | 34 | 28 | 22 | 2.6 | | 27 | 99 | 59 | 635X310 X390 | 367X256 XΦ20.5 | 145 |
| 800-AV-41(X) | 8/6 | 41 | 35 | 28 | 2.6 | | 17 | 81 | 49 | 635X310 X390 | 367X256 XΦ20.5 | 140 |
| 1200-AV-41(X) | 12/9 | 41 | 35 | 28 | 2.6 | | 24 | 113 | 69 | 635X310 X390 | 367X256 XΦ20.5 | 145 |
| 1000-AV-48(X) | 10/7.4 | 48 | 35 | 28 | 2.6 | | 21 | 99 | 59 | 635X310 X390 | 367X256 XΦ20.5 | 145 |
| 1300-AV-48(X) | 13/9.67 | 48 | 42 | 28 | 2.6 | | 31 | 132 | 81 | 635X310 X390 | 367X256 XΦ20.5 | 150 |
| 1300-AV-56(X) | 13/9.67 | 56 | 35 | 28 | 2.6 | | 24 | 113 | 69 | 635X310 X390 | 367X256 XΦ20.5 | 150 |
| 1800-AV-56(X) | 18/13.5 | 56 | 42 | 28 | 2.6 | | 37 | 158 | 97 | 635X310 X390 | 367X256 XΦ20.5 | 155 |
| 1500-AV-71(X) | 15/11 | 71 | 42 | 28 | 7.5/4.5(1) | PW YY380±10% /3/50 YY440±10% /3/60 | 31 | 118 | 77.8 | 710X465 X510/440 | 380X305 XΦ11 | 208 |
| 2500-AV-71(X) | 25/18.5 | 71 | 54 | 35 | 7.5/4.5 | | 45 | 172 | 113 | 710X465 X530/460 | 380X305 XΦ11 | 215 |
| 2000-AV-86(X) | 20/15 | 86 | 42 | 28 | 7.5/4.5 | | 37 | 146 | 96.7 | 710X465 X510/440 | 380X305 XΦ11 | 210 |
| 3000-AV-86(X) | 30/22 | 86 | 54 | 35 | 7.5/4.5 | | 53 | 185 | 122 | 710X465 X530/460 | 380X305 XΦ11 | 215 |
| 2500-AW-106(X) | 25/18.5 | 106 | 54 | 35 | 7.5/4.5 | | 45 | 190 | 120 | 790X530 X520/450 | 380X305 XΦ11 | 250 |
| 3500-AW-106(X) | 35/26 | 106 | 54 | 35 | 7.5/4.5 | | 61 | 250 | 150 | 790X530 X520/450 | 380X305 XΦ11 | 260 |
| 3000-AW-129(X) | 30/22 | 129 | 54 | 35 | 7.5/4.5 | | 55 | 230 | 138 | 790X530 X520/450 | 380X305 XΦ11 | 255 |
| 4000-AW-129(X) | 40/30 | 129 | 67 | 42 | 7.5/4.5 | | 75 | 330 | 198 | 790X530 X520/450 | 380X305 XΦ11 | 270 |
| 4000-AW-154(X) | 40/30 | 154 | 67 | 42 | 7.5/4.5 | | 75 | 330 | 198 | 790X530 X520/450 | 380X305 XΦ11 | 270 |
| 5000-AW-154(X) | 50/37 | 154 | 67 | 42 | 7.5/4.5 | | 95 | 405 | 243 | 790X530 X520/450 | 380X305 XΦ11 | 275 |
| 4000-AZ-172(X) | 40/30 | 172 | 67 | 42 | 8 | | 90 | 300 | 198 | 845X515 X605 | 458X305 XΦ11 | 300 |
| 5000-AZ-172(X) | 50/37 | 172 | 80 | 42 | 8 | | 101 | 314 | 208 | 845X515 X605 | 458X305 XΦ11 | 305 |
| 6000-AZ-205(X) | 60/44.5 | 205 | 80 | 54 | 8 | | 114 | 366 | 241 | 845X515 X605 | 458X305 XΦ11 | 320 |
| 8000-AZ-205(X) | 80/60 | 205 | 80 | 54 | 8 | | 125 | 475 | 313 | 845X515 X605 | 458X305 XΦ11 | 330 |

Note: 1) The height dimensions and oil charge have two types designs: deep oil sump for using in ship, fleet oil ship, fleet oil sump.
2) For the selection of relay, cable and fuses, the MRA must be considered.



Power Compressor Exchange Holdings
professional compressor remanufacturers

Compressor Spare Parts

Power Compressor Exchange Holdings (Pty) Ltd. imports a comprehensive range of replacement spares for open drive and semi-hermetic compressors, such as Pistons, Piston Rings, Conrods, Loose Gaskets & Gasket Kits, Oil Pumps, Bearing Bushes, Valve Plate Assemblies, Suction and Discharge Valve Reeds, Oil Strainers, Thrust Washers, Gas Strainers, Shaft Seals, Suction & Discharge Springs, O' Rings, Piston Pins, Unloader Valves, Crankshafts, Electronic Motor Protection Sensors & Modules, Terminal Bolts, Boards & Parts, Check Valves, Solenoid Coils, Conrod Bushings, Sight Glasses, Crankcase Heaters, Cylinder Liners, Pressure Relief Valves, and Service Valves.

Our popular brands include (but not limited to): Bitzer, Carrier, Copeland, DWM, Prestcold, Trane, and York. Bock, Dorin, Frascold and Refcomp can also be sourced.



Bitzer

4 / 6 Cylinder F,G,H,J,M
2 / 4 Cylinder N,P,T,V,Z
4 Cylinder NC, PC, TC, VC (Octagon Series)



Carrier

5H40 - 5H120 & 5H46 - 5H126
5F20-5F60
05D
05G
06D
06E



Copeland
DWM
Prestcold

1.5 HP K
2 HP L200, S200, DL
3/4 HP L, N
5 / 7.5 HP MR
5 / 7.5 / 15 HP 9R
4 / 6 / 8 Cylinder Reed (10 - 60 HP)
3 Cylinder Discus (incl. Delta Type)
4 / 6 / 8 Cylinder Discus (10 - 60 HP)



Trane

Open and Semi E, F, M, R



York

JG, JH, JL, JS, Z



Electronic Compressor Protection

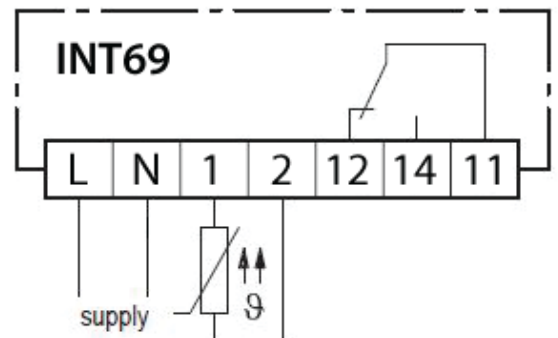
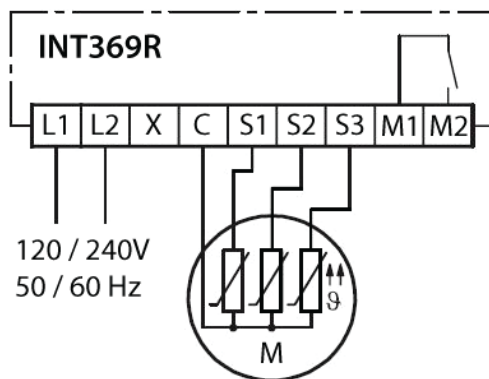


The INT369R is designed to protect against excessive motor winding temperatures by monitoring the resistance of PTC thermistors embedded in the windings.

As the winding temperatures approaches the design response temperature of the PTC thermistors, the increase in resistance is sensed by the INTR369R module. The output relay drops out immediately and locks out. Reset is achieved by interrupting the supply voltage for at least 5 seconds, provided that the fault condition has been corrected.

The INT69 module is suitable for installation in motor terminal boxes. The module is highly reliable and is in use world-wide. Up to 9 PTC thermistors can be connected in series to the measuring circuit input.

If the temperature in one of the areas monitored exceeds nominal response temperature of the PTC thermistor, the sensor resistance increases and the INT69 control module switches the motor contactor off. The module resets when the temperature drops below the response temperature by approximately 3 K.



* PTC Thermistors available in 70°C and 120°C

Sentronic® Oil Pressure Control

The Copeland Sentronic® electronic oil pressure safety control uses a pressure sensor and an electronic module to precisely measure oil pump differential pressure. Common sources of leaks (bellows, capillary tubes, and pressure connections) are eliminated when using the Sentronic® oil pressure control. The control has a precise electronic clock for the two minute time-out circuit.

Should oil pressure fall below a 7 to 9 PSI differential the module will open a normally closed contact, shutting the compressor off. A trip of the oil pressure safety switch is a warning that the system has been without proper lubrication for too long. It will also shut the compressor down if the oil pressure fluctuates between acceptable and low oil pressure and records a history of low oil pressure for 60% or more of a running cycle.



Copeland Three Phase Voltage Monitor

- Helps protect motors from premature failure and burnouts.
- Phase unbalance: 2-5% adjustable.
- Over / Under voltage protection: 2-10% adjustable.
- Phase loss protection: 25% of nominal.
- Delay on break timer: 2-10 minutes.
- Fault interrogation delay: provides a delay between fault detection and system shut down – helps eliminate unnecessary shut downs.
- Programmable, 25 fault memory.
- 190-630 VAC, 50 / 60 Hz.



PCE 'Super Duper' Acid External Coil Cleaner is a heavy-duty cleaner for removing corrosion deposits and film from weathered aluminium, such as condenser and evaporator coils. Super Duper quickly cuts through stains, loose dirt and heavy soiling, leaving surfaces clean and bright in one application; it may also be used to clean stainless steel and copper.

Directions:

For regular washing and brightening of equipment in good condition, use Super Duper diluted 1:5 to 1:19 parts with water. For cleaning and brightening severely corroded or very dirty equipment use Super Duper diluted 1:5 to 1:1 water. Solutions of Super Duper can be applied by low-pressure spray or brush. Allow to stand until reaction ceases, then scrub off rinsing well. Heavily soiled and corroded areas may require a second application. Rinse thoroughly.

Acid External Coil Cleaner Safety Precautions

When handling Super Duper Acid External Coil Cleaner, chemical resistant gloves, aprons, mask and protective goggles or face shield should be worn. Dilute 1:5 to 1:19.

** Product specification and safety sheet available on request.*



Alkaline Based Degreaser Safety Precautions

When handling Super Duper Degreaser, chemical resistant gloves, aprons, mask and protective goggles or face shield should be worn. Dilute 1:5 to 1:15.

** Contains Caustic Soda.*



Deodorising / Disinfectant Treatment

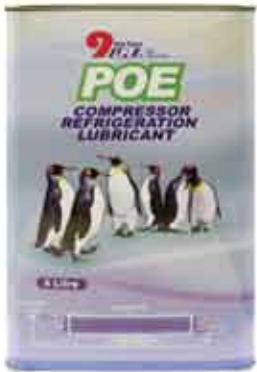
- Refreshes stale, musty airconditioning and heating systems.
- Uses biocide to kill bacteria, germs, mould and fungus.
- Reduces airborne malodour caused by mildew.
- Freshens and deodorises.
- No CFC's.
- Also suitable for auto airconditioning.
- Spray on surfaces, filters, fins and in ductings.





Power Compressor Exchange Holdings
professional compressor remanufacturers

Lubricants



| Gas Type: | Replaces Gas: | Lubricant Type: |
|--|-------------------|-----------------|
| Medium / Low Temperature Refrigeration, Air-conditioning | | |
| R22 | Being phased out. | Mineral |
| Domestic & Commercial Air-conditioning | | |
| R407c | R22 | POE |
| R410a | R22 | POE |
| Automotive Air-conditioning | | |
| R134a | R12 | PAG |
| Domestic Refrigeration | | |
| R134a | R12 | POE |
| R600a | R12 | Mineral |
| Medium Temperature Refrigeration | | |
| R406a | R12 | POE |
| Medium to Low Temperature Refrigeration | | |
| R22 | Being phased out. | Mineral |
| R404a | R502 | POE |
| R408a | R502 | POE |
| R507 | R502 | POE |
| Cleaning / Foaming Agent | | |
| R141b | R11 | n/a |

- Mineral Oil in 32, 68 ISO Viscosity - Available in 1L, 5L, & 20L Bottles
- Polyester Oil (POE) in 32, 56, & 68 ISO Viscosity - Available in 1L & 4L Cans *
- Polyalkylene Glycol Oil (PAG) in 46 & 100 ISO Viscosity - Available in 1L Cans *
- CO2 (R744) Oil in 85 ISO Viscosity - Available in 1L Cans *
- Vacuum Pump Oil - Available in 5L Bottles

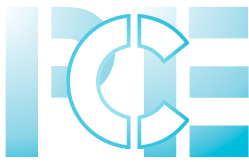
* POE, PAG & CO2 Oil absorbs moisture from the atmosphere, use immediately after opening.

Composite Refrigerant-oil Additives

REFRIGERATION LUBRICANT

Our compressor-oil agents are applicable for the following refrigerant oil
Type: POE, PAG, FORCFC's and HCFC's series.





Power Compressor Exchange Holdings
professional compressor remanufacturers

Working Directions



POE compressor lubricant has good compatible performance with any kind refrigerant.

Such as:

- HFC series — R134a R404a R410a R407c R 507 R508b R 23
- HCFC series — R 22 R 408 R 123 R 406 R 415
- CFC series — R 11 R 12 R 502
- HC series — R 290 R600A

To ensure the best effect, please don't open cans until using it and lock tightly after taking oil out, then place in shady and cool place.

Compressor Type / Suggested Oil Specification

| Refrigeration temperature | 35°C ↓ | 20°C~35°C | 20°C ↑ |
|---------------------------|-----------|-----------|-----------|
| Suitable Viscosity | Viscosity | Viscosity | Viscosity |
| Compressor Type | | | |
| Reciprocating Compressor | AC-2 AC-3 | AC-6 | AC-7 |
| Centrifugal Compressor | AC-2 | AC-3 | AC-6 |
| Rotary Compressor | AC-2 | AC-3 | AC-6 |
| Scroll Compressor | AC-2 AC-3 | AC-4 | AC-6 |
| Screw Compressor | AC-8 | AC-9 | AC-10 |

Car Compressor Model / Suggested Oil Specification

| Applicable when lubricant and refrigerant run together | | | Applicable when lubricant and refrigerant run separately | |
|--|---------------------------------|----------------------------|--|--|
| Bus Compressor | AC-4 | AC-5 | AC-6 | |
| Automotive Compressor | AC-3 AC-S Any kind available | AC-4 Any kind available | AC-6 Any kind available | |
| Refrigerator Compressor | AC-2 AC-S | AC-4 | AC-6 | |

The above suggestion are subject to the four conditions: the way oil runs / refrigeration temperature / compressor model / compressor manufacturer's requirement.

Lubricant Viscosity Comparison

| | | | | | | | | | | | |
|------------------|------|------|------|------|------|------|------|------|------|-------|-----------|
| 9LIFE Viscosity | AC-1 | AC-2 | AC-3 | AC-4 | AC-5 | AC-6 | AC-7 | AC-8 | AC-9 | AC-10 | AC- SUPER |
| ISO Viscosity | 10 | 22 | 32 | 46 | 56 | 68 | 100 | 150 | 220 | 320 | 46 |
| SUNISO Viscosity | | | 3GS | | | 4GS | 5GS | 6GS | | | |

Drier Cores and Shells

| | | Recommended Valve (kW) | | | Length (cm) |
|----------------------|--|------------------------|--------------|--------|-------------|
| | | Refrigeration | | Aircon | |
| | | R134a | R404a / R507 | R 22 | |
| 48 Core Shell | | | | | |
| DS4-058-1 | SUCTION DRIER SHELL 5/8" (1 CORE) - 48 | 26.4 | 26.4 | 35.2 | 23.65 |
| DS4-078-1 | SUCTION DRIER SHELL 7/8" (1 CORE) - 48 | 42.2 | 35.2 | 52.8 | 24.13 |
| DS4-118-1 | SUCTION DRIER SHELL 1-1/8" (1 CORE) - 48 | 42.2 | 35.2 | 70.3 | 23.83 |
| DS4-138-1 | SUCTION DRIER SHELL 1-3/8" (1 CORE) - 48 | 42.2 | 35.2 | 70.3 | 24.77 |
| DS4-078-2 | SUCTION DRIER SHELL 7/8" (2 CORE) - 48 | 70.3 | 52.8 | 87.9 | 38.43 |
| DS4-118-2 | SUCTION DRIER SHELL 1-1/8" (2 CORE) - 48 | 87.9 | 87.9 | 123 | 38.58 |
| DS4-138-2 | SUCTION DRIER SHELL 1-3/8" (2 CORE) - 48 | 111.5 | 111.1 | 155 | 38.89 |
| DS4-158-2 | SUCTION DRIER SHELL 1-5/8" (2 CORE) - 48 | 132.1 | 134.5 | 190 | 38.89 |
| DS4-118-3 | SUCTION DRIER SHELL 1-1/8" (3 CORE) - 48 | 106 | 106 | 141 | 52.07 |
| DS4-138-3 | SUCTION DRIER SHELL 1-3/8" (3 CORE) - 48 | 141 | 123 | 176 | 52.71 |
| DS4-158-3 | SUCTION DRIER SHELL 1-5/8" (3 CORE) - 48 | 183 | 134 | 206 | 52.71 |
| DS4-218-3 | SUCTION DRIER SHELL 2-1/8" (3 CORE) - 48 | 224 | 156 | 247 | 53.19 |

| 100 Core Shell (Higher Capacity) | | | | | |
|---|---|-----|-----|-----|-------|
| DS1-218-3 | SUCTION DRIER SHELL 2-1/8" (3 CORE) - 100 | 285 | 267 | 374 | 62.94 |
| DS1-258-3 | SUCTION DRIER SHELL 2-5/8" (3 CORE) - 100 | 302 | 285 | 391 | 63.50 |
| DS1-318-3 | SUCTION DRIER SHELL 3-1/8" (3 CORE) - 100 | 329 | 299 | 417 | 63.83 |
| DS1-258-4 | SUCTION DRIER SHELL 2-5/8" (4 CORE) - 100 | 401 | 370 | 492 | 88.27 |

| Filter Drier Cores | |
|---------------------------|---|
| SJ-48C | FILTER DRIER CORE - ACID - 48 |
| SJ-48H | FILTER DRIER CORE - MOISTURE - 48 |
| SJ-100C | FILTER DRIER CORE - ACID - 100 |
| SJ-100H | FILTER DRIER CORE - MOISTURE - 100 |
| SJ-48F | FILTER PLEATED CORE - 48F (Filtration Only) |



Liquid Line Drier

| | | Max Working Pressure (Mpa) | Liquid Flow Capacity (kW) | | | |
|----------|-------------------------------------|----------------------------|---------------------------|------|-------|--------------|
| | | | R134a | R22 | R407c | R404a / R507 |
| LLD-052 | LIQUID LINE FILTER DRIER 1/4" FLARE | 3.5 | 9 | 9.8 | 7.7 | 6.5 |
| LLD-052S | LIQUID LINE FILTER DRIER 1/4" ODF | 3.5 | 13.3 | 14.4 | 12.3 | 9.6 |
| LLD-053 | LIQUID LINE FILTER DRIER 3/8" FLARE | 3.5 | 21.4 | 23.3 | 13.4 | 15.4 |
| LLD-053S | LIQUID LINE FILTER DRIER 3/8" ODF | 3.5 | 26.5 | 28.9 | 16.9 | 19.1 |
| LLD-082 | LIQUID LINE FILTER DRIER 1/4" FLARE | 3.5 | 8.6 | 9.3 | 8.4 | 6.2 |
| LLD-082S | LIQUID LINE FILTER DRIER 1/4" ODF | 3.5 | 13.7 | 14.6 | 12 | 9.9 |
| LLD-083 | LIQUID LINE FILTER DRIER 3/8" FLARE | 3.5 | 21.8 | 23.7 | 15.1 | 15.7 |
| LLD-083S | LIQUID LINE FILTER DRIER 3/8" ODF | 3.5 | 27.4 | 29.8 | 17.2 | 19.8 |
| LLD-084 | LIQUID LINE FILTER DRIER 1/2" FLARE | 3.5 | 36.4 | 39.6 | 25 | 26.2 |
| LLD-084S | LIQUID LINE FILTER DRIER 1/2" ODF | 3.5 | 38.9 | 42.4 | 26.4 | 28.1 |
| LLD-163 | LIQUID LINE FILTER DRIER 3/8" FLARE | 3.5 | 22.2 | 24.2 | 14.4 | 16.1 |
| LLD-163S | LIQUID LINE FILTER DRIER 3/8" ODF | 3.5 | 31.7 | 34.3 | 16.5 | 22.9 |
| LLD-164 | LIQUID LINE FILTER DRIER 1/2" FLARE | 3.5 | 38.5 | 41.9 | 27 | 27.8 |
| LLD-164S | LIQUID LINE FILTER DRIER 1/2" ODF | 3.5 | 49.6 | 54 | 54 | 31.6 |
| LLD-165 | LIQUID LINE FILTER DRIER 5/8" FLARE | 3.5 | 50.5 | 54.9 | 36.2 | 36.4 |
| LLD-165S | LIQUID LINE FILTER DRIER 5/8" ODF | 3.5 | 67.2 | 73.1 | 37.6 | 48.5 |
| LLD-167S | LIQUID LINE FILTER DRIER 7/8" ODF | 3.5 | 70.6 | 76.8 | 58 | 51 |
| LLD-304 | LIQUID LINE FILTER DRIER 1/2" FLARE | 3.5 | 43.6 | 47.5 | 30.2 | 31.5 |
| LLD-304S | LIQUID LINE FILTER DRIER 1/2" ODF | 3.5 | 54.3 | 59.1 | 38 | 39.2 |
| LLD-305 | LIQUID LINE FILTER DRIER 5/8" FLARE | 3.5 | 55.6 | 60.5 | 39.7 | 40.1 |
| LLD-305S | LIQUID LINE FILTER DRIER 5/8" ODF | 3.5 | 74 | 80.5 | 46.8 | 53.4 |

| | | | | | | |
|----------|-------------------------------------|-----|-------|-------|-------|------|
| LLD-307S | LIQUID LINE FILTER DRIER 7/8" ODF | 3.5 | 83.4 | 90.8 | 62.9 | 60.2 |
| LLD-309S | LIQUID LINE FILTER DRIER 1-1/8" ODF | 3.5 | 109.1 | 118.7 | 73.1 | 78.7 |
| LLD-415 | LIQUID LINE FILTER DRIER 5/8" FLARE | 3.5 | 68.5 | 74.5 | 45 | 49.4 |
| LLD-419S | LIQUID LINE FILTER DRIER 1-1/8" ODF | 3.5 | 113.8 | 123.8 | 103.3 | 82.1 |
| LLD-757S | LIQUID LINE FILTER DRIER 7/8" ODF | 3.5 | 78 | 84.7 | 83 | 56.6 |
| LLD-759S | LIQUID LINE FILTER DRIER 1-1/8" ODF | 3.5 | 115 | 124.5 | 122.4 | 83.3 |

- Safe maximum working pressure of 3.5 Mpa.
- Soluble to water and acid contaminants.
- Solder-on and flare type connections available.
- Suitable for R12, R22, R134a, R407c, R404a, R502, R507.
- Desiccant and filter to prevent foreign matter entering the system.



Vibration Absorber

| | | Pipe I.D. | Working Press | Aprox. Length |
|--------|---------------------------|-----------|---------------|---------------|
| | | in | psig | cm |
| VD-038 | VIBRATION ABSORBER 3/8" | 3/8" | 500 | 21.60 |
| VD-012 | VIBRATION ABSORBER 1/2" | 1/2" | 500 | 22.86 |
| VD-058 | VIBRATION ABSORBER 5/8" | 5/8" | 500 | 25.08 |
| VD-034 | VIBRATION ABSORBER 3/4" | 3/4" | 500 | 26.67 |
| VD-078 | VIBRATION ABSORBER 7/8" | 7/8" | 500 | 30.48 |
| VD-118 | VIBRATION ABSORBER 1-1/8" | 1-1/8" | 500 | 33.02 |
| VD-138 | VIBRATION ABSORBER 1-3/8" | 1-3/8" | 500 | 39.37 |
| VD-158 | VIBRATION ABSORBER 1-5/8" | 1-5/8" | 500 | 43.02 |
| VD-218 | VIBRATION ABSORBER 2-1/8" | 2-1/8" | 425 | 52.07 |
| VD-258 | VIBRATION ABSORBER 2-5/8" | 2-5/8" | 355 | 61.27 |
| VD-318 | VIBRATION ABSORBER 3-1/8" | 3-1/8" | 285 | 68.42 |



Adjustable Mechanical Oil Level Regulator

- Controls the oil back to the compressor, keeping the oil level at the manufacturers recommended level with an adjustable float operated valve.
- Adjustable between 1/2 and 1/4 level.
- Capacity of 0.9 Litre of Oil.
- Operating temperature: -40° ~ 80°C.
- Operating pressure: 3 Mpa
- Bolts to the sight glass opening on the compressor.





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Suction Line Accumulator

- Prevents compressor damage due to liquid **flood-back** of refrigerant, and oil dilution.
- Located as close to the compressor as possible.
- Must be installed upright.
- In reverse cycle systems, the accumulator must be installed between the reversing valve and the compressor.

Things to remember:

- The accumulator should have adequate liquid holding capacity, at least 50% of the entire system charge. (The only 100% safe accumulator is one that can hold 100% of the entire system charge.)
- The accumulator should not add excessive pressure drop to the system.
- The selection of an accumulator should not be based on suction line pipe size. (An accumulator pipe size may not be the same size as the suction line. Choose by holding capacity.)



| Model | Connection | Liquid Refrigerant Holding Capacity (Kg) | | |
|--------|------------|--|-------|--------------|
| | | R134a | R22 | R404a / R507 |
| SA-204 | 1/2" | 1.59 | 1.50 | 1.54 |
| SA-205 | 5/8" | 1.99 | 1.81 | 1.91 |
| SA-206 | 3/4" | 2.77 | 3.08 | 2.81 |
| SA-207 | 7/8" | 4.45 | 4.08 | 4.22 |
| SA-208 | 1-1/8" | 6.44 | 6.03 | 6.21 |
| SA-209 | 1-3/8" | 9.89 | 9.30 | 9.62 |
| SA-210 | 1-5/8" | 10.8 | 10.20 | 10.50 |



ICE CREAM MACHINE

ISO9001:2000



BQL-35/2M 3-Flavor
Soft Ice Cream Machine



BL-240 3-Flavor
Soft Ice Cream Machine



BL-220 3-Flavor
Soft Ice Cream Machine



BQJ-50 Hard
Ice Cream Machine



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Technical Parameter (Hard Ice Cream Machine)

Product Characteristics

1. All materials in contact with the products are stainless steel, non-toxic engineered plastic or non-toxic silicon rubber seals which conform to product license No. 01732.
2. The compressor utilised in the system is manufactured by means of advanced technology and key facilities designed by Hitachi.
3. The system is equipped with the following safeties: overload, phase failure, high and low pressure. This enables reliable operation of the unit and limits breakdowns.
4. Applying automation in the system ensures the reliability and safety of the unit.
5. The mixing system controls the rigidity of the ice cream.

| Parameter | Model | BQJ - 50 |
|-----------------|---------------------|-------------------------|
| Output | Kg / h | 50 |
| Expansion rate | | 35 ~ 45 % |
| Power | Kw / h | 5 |
| Refrigerant | Model | 400FSV ² - F |
| Compressor | Voltage / Frequency | 380 V ± 10% / 50 |
| Refrigerant | | R 502 |
| Mixing motor | Fan Model | YD132S - 8/4 |
| | Voltage / Frequency | 380 V ± 10% / 50 |
| | V / Kw | 2.2 / 3.3 |
| Fan motor | W | 120 |
| | Voltage / Frequency | 220 V ± 10% / 50 |
| Main Circuit | | 380 V ± 10% / 50 |
| Control Circuit | | 220 V ± 10% / 50 |
| Complete | Overall Dimension | 1.2 x 0.62 x 1.28 |
| Machining | Net weight | 380 Kg |

Technical Parameter (Soft Ice Cream Machine)

Product Characteristics

1. BQL - 35/ 2M soft ice cream machine on upmarket unit and has the advantage of being on castors for ease of movement.
2. BQL - 35 / 2M soft ice cream machine utilises on air pump systems that doubles the expansion rate of the product compared to former domestic ice cream machine.
3. Aircooled condenser is equipped with a high air volume and low noise fan system.
4. All materials in contact with the products are stainless steel, non-toxic engineered plastic or non-toxic silicon rubber seals which conform to product license No. 01732.
5. This unit utilises a reliable control system. This system controls all aspects of the unit and also protects the unit by monitoring compressor overload, phase failure, low voltage and low temperature.

| Model Model | | BQL - 35 / 2M | BL - 240 | BL-220 | BL -460 | |
|---------------------------|------------------------------|---------------|------------------------|-------------------|------------------|--------------------|
| PARAMETER | | | | | | |
| Output | L/h | 45 | 40 | 20 | 60 | |
| Compressor | Model | 200 -AL-60 | 400FSV ² -F | T2190 | 300-AL-65 | |
| | Voltage / power rate | V /kW | 380 / 1.5 | 380 /3 | 220 / 0.8 | 380 / 2.2 |
| | Regulated protection current | A | 5.5 | 9 | 5 | 7.5 |
| Mixing Motor | Voltage / power rate | V /kW | 380 / 1.5 | 220 / 1.1 | 380 / 2.2 | |
| | Regulated protection current | A | 4.5 | 7 | 9 | |
| Air pump motor power rate | W | 10 | None | | | |
| Condenser | Cooling Method | Air Cooling | | | | |
| | Fan Model | YDK -40-6K | 350FZL-01M | M4Q045-EA-01-01 | F2L450-4DQ-P | |
| | Voltage / power rate | V /kW | 220 / 0.04 | 380 /0.12 | 220 / 0.025 | 220 / 0.07 |
| Refrigerant | Name | R 22 | | | | |
| | Injection dose | kg | 1.5 | 0.7 | 2 | |
| Completed Machine | Voltage / Frequency | V / Hz | 380 ± 10% / 50 | 220 ± 10% / 50 | 380 ± 10% / 50 | |
| | Power rate | kW | 3.1 | 4.6 | 2.0 | 5.0 |
| | Overall Dimension | m | 0.81 x 0.7 x 1.58 | 0.80 x 0.6 x 1.36 | 0.58 x 0.8 x 1.3 | 0.95 x 0.75 x 1.45 |
| | Net weight | Kg | 280 | 250 | 200 | 370 |

Note: (1) Measuring of the output should be at 24° C of ambient temperature and 7° C of feeding material temperature. In the formula, the content of cream fat is no less than 5 %, total dry material is no less than 20%.

(2) Ingredients and their ratios: milk powder 10 %, sugar 13 %, egg 5 % starch, gluten 0.05 % and remainder is water. All material should be in conformity with state or industry standard.

Chillers ~ Air and Water-Cooled

Many more Chillers in Stock .



Carrier Water Cooled Chiller 110kw



Air-Cooled Ciat 300KWR Chiller.



Air Cooled Chiller 652kw



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LSB Water-Cooled Water Chilling Units

LSB WATER - COOLED WATER CHILLING UNITS

| Parameter | Units | LSB73 | LSB93 | LSB107 | LSB128 | LSB145 | LSB176 |
|--------------------------------|-------|-------|-------|--------|--------|--------|--------|
| Nominal Refrigerating Capacity | Kw | 73 | 93 | 107 | 128 | 145 | 176 |
| Refrigerant | | R 22 | | | | | |

| | | | | | | | |
|---|---------------------------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|
| Compressor | Model | 3000-AV-86 | 3500-AW-106 | 4000-AW-129 | 5000-AW-154 | 5000-AZ-172 | 8000-AZ-205 |
| | Rated Power | 22 | 26 | 30 | 37 | 37 | 60 |
| Evaporator | Coolant | Water | | | | | |
| | Water Outlet Temperature | 7 | | | | | |
| | Water Outlet Temperature | 12 | | | | | |
| Condenser | Water flow | 12.6 | 16 | 18.4 | 22 | 25 | 30.3 |
| | Water Inlet / Outlet Caliber | 2 1/2" | | 3" | | | |
| | Water Inlet Temperature | 30 | | | | | |
| Condenser | Water Outlet Temperature | 35 | | | | | |
| | Condenser water flow | 19 | 24 | 27.8 | 33.3 | 37.7 | 45.8 |
| | Condenser water Inlet/ Outlet Caliber | 2 1/2" | | 3" | | | |
| Mounting Dimension | Power Supply | 380V / 3N / 50 Hz | | | | | |
| | Operation Control Method | Automatic | | | | | |
| | Safety Protect Feature | Motor overload, high/low pressure, condenser water, condenser water stop, condenser water low temperature, oil pressure difference | | | | | |
| | Motor Cooled Method | Freon gas refrigeration | | | | | |
| Units input power under rated operation condition | Kw | 22.41 | 26.57 | 30.57 | 37.85 | 38.85 | 61.52 |
| | mm | 1800 x 600 x 1200 | 2100 x 650 x 1300 | 2350 x 650 x 1300 | 2600 x 800 x 1350 | 2600 x 800 x 1350 | 2600 x 800 x 1350 |
| Overall Dimension (L * W * H) | mm | 1000 x 380 | 1100 x 400 | 1200 x 400 | 1200 x 400 | 1400 x 400 | 1400 x 400 |
| | mm | 4 - x Φ 20 | | | | | |

LSB

LSB Water-Cooled Water Chilling Units



LSB Water - Cooled Water Chilling Units

Technical Data & Dimensions

| Parameter | Units | Units Model | | | | |
|--------------------------------|-------|-------------|-------|-------|-------|-------|
| | | LSB26 | LSB34 | LSB40 | LSB49 | LSB60 |
| Nominal Refrigerating Capacity | Kw | 26 | 34 | 40 | 49 | 60 |
| Refrigerant | | R 22 | | | | |

| | | | | | | | |
|--------------------|---|---|-------------------|-------------|-------------------|------------|-------|
| Compressor | Model | 1000-AM-110 | 1000-AR-120 | 1500-AR-130 | 2000-AR-140 | 2500-AV-71 | |
| | Rated Power | Kw | 7.4 | 7.4 | 11.3 | 14.8 | 18.5 |
| Evaporator | Coolant | Water | | | | | |
| | Water Outlet Temperature | 7 | | | | | |
| | Water Outlet Temperature | 12 | | | | | |
| | Water flow | m ³ / h | 4.5 | 5.8 | 6.9 | 8.4 | 10.3 |
| Condenser | Water Inlet / Outlet Caliber | 1 1/2" | 2" | | | | |
| | Water Inlet Temperature | 30 | | | | | |
| | Water Outlet Temperature | 35 | | | | | |
| | Condenser water flow | m ³ / h | 7.5 | 9 | 10.5 | 12.8 | 15.6 |
| | Condenser water Inlet/ Outlet Caliber | 1 1/2" | 2" | | | | |
| Mounting Dimension | Power Supply | 380V /3N / 50Hz | | | | | |
| | Operation Control Method | Automatic | | | | | |
| | Safety Protect Feature | Motor overload, high/low pressure, condenser water stop, condenser water low temperature, oil pressure difference | | | | | |
| | Motor Cooled Method | Freon gas refrigeration | | | | | |
| | Units input power under rated operation condition | Kw | 7.56 | 8.56 | 11.76 | 15.12 | 18.72 |
| | Overall Dimension (L * W * H) | mm | 1500 x 550 x 1100 | | 1600 x 550 x 1200 | | |
| | | L * W | 700 x 300 | 800 x 380 | | | |
| | hole * diameter | mm | 4 -xΦ20 | | | | |

Note: Compressor operation condition: evaporating temperature +2°C, condensing temperature +40°C, suction temperature +25°C

LSBF

LSBF Air-Cooled Water Chilling Units





Power Compressor Exchange Holdings
professional compressor remanufacturers

LSBF Air-Cooled Water Chilling Units

LSBF air - cooled water chilling units

Technical Data & Dimensions

| Parameter | Units | Units Model | |
|---|--------------------|---|--------------------|
| | | LSBF30 | LSBF35 |
| Nominal Refrigerating Capacity | Kw | 30 | 35 |
| Refrigerant | | R 22 | |
| Compressor | | | |
| Model | | 1000-AR-120 | 1500-AR-130 |
| Rated Power | Kw | 7.4 | 11.3 |
| Coolant | °C | Water | |
| Water Outlet Temperature | °C | 7 | |
| Water Inlet Temperature | °C | 12 | |
| Water flow | m ³ / h | 6 | 7 |
| Water Inlet / Outlet Caliber | | 2 | |
| Condensing area | m ² | 120 | 150 |
| | W | 3 x 370 | 3 x 370 |
| Power Supply | | 380V / 3N~50Hz | |
| Operation Control Method | | automatic | |
| Safety Protect Feature | | motor overload, high low temperature, cold low temperature, oil pressure difference | |
| Motor Cooled Method | | freon gas refrigeration | |
| Units input power under rated operation condition | Kw | 8.8 | 10.29 |
| Overall Dimension (L * W * H) | mm | 2470 x 900 x 1800 | 3180 x 1150 x 1960 |
| L * W | mm | 2000 x 780 | 3120 x 850 |
| Mounting hole * diameter | mm | 4- x Φ 20 | |
| Evaporator | | | |
| | | | 2000-AR-140 |
| | | | 14.8 |
| | | | 8.6 |
| | | | 180 |
| | | | 4 x 370 |
| | | | 12.65 |

Note: Compressor Operation condition: evaporating temperature +7 °C, condensing temperature +50 °C, suction temperature +25 °C

FL

FL Air-Cooled Condensing Units



ISO9001:2000



S² - FL Air - cooled Condensing units

| Condensing Unit Model | Compressor Model | Power KW | MRA A | W | Maximum R 22 charge Kg | Suction pipe mm inch | Liquid pipe mm | Overall Dim L x B x H mm | Mounting Dim 1 x b x Φ mm | Weight Kg |
|------------------------|-------------------------|----------|-------|---------|------------------------|----------------------|----------------|--------------------------|---------------------------|-----------|
| 300S ² - FL | 300FSV ² - F | 2.20 | 5.50 | 180 | 8 | 19 | 10 | 770 x 740 x 550 | 610 x 700 x 13 | 160 |
| 400S ² - FL | 400FSV ² - F | 3.00 | 7.50 | 120 x 2 | 9 | 19 | 10 | 880 x 740 x 675 | 700 x 700 x 13 | 170 |
| 503S ² - FL | 503FSV ² - F | 3.70 | 8.50 | 120 x 2 | 10 | 25 | 12 | 920 x 760 x 685 | 720 x 720 x 13 | 185 |
| 755S ² - FL | 755FSV ² - F | 5.50 | 13.00 | 180 x 2 | 12 | 25 | 16 | 1130 x 820 x 725 | 880 x 780 x 13 | 210 |

| Condensing Unit Models | Cond Temp °C | Evaporating Temperature °C | | | | |
|------------------------|--------------|----------------------------|-------|-------|-------|------|
| | | -5 | -10 | -15 | -20 | -25 |
| 300S ² - FL | 27 | 7351 | 6140 | 5000 | 4010 | 3130 |
| | 32 | 7090 | 5880 | 4740 | 3750 | 2870 |
| | 43 | 6210 | 5020 | 4030 | 3140 | 2350 |
| 400S ² - FL | 27 | 9980 | 8300 | 6830 | 5430 | 4190 |
| | 32 | 9720 | 8040 | 6570 | 5170 | 3930 |
| | 43 | 8480 | 7120 | 5700 | 4380 | 3290 |
| 503S ² - FL | 27 | 13170 | 10800 | 8660 | 6730 | 5160 |
| | 32 | 12910 | 10540 | 8400 | 6470 | 4900 |
| | 43 | 11160 | 9000 | 7040 | 5360 | 3960 |
| 755S ² - FL | 27 | 19090 | 15740 | 12820 | 10150 | 7930 |
| | 32 | 18830 | 15480 | 12560 | 9890 | 7670 |
| | 43 | 16640 | 13650 | 10690 | 8100 | 6530 |



Kulthorn Group

HERMETIC

COMPRESSORS

CATALOGUE

WORLD CLASS PRODUCTS FOR REFRIGERATION & AIR CONDITIONING

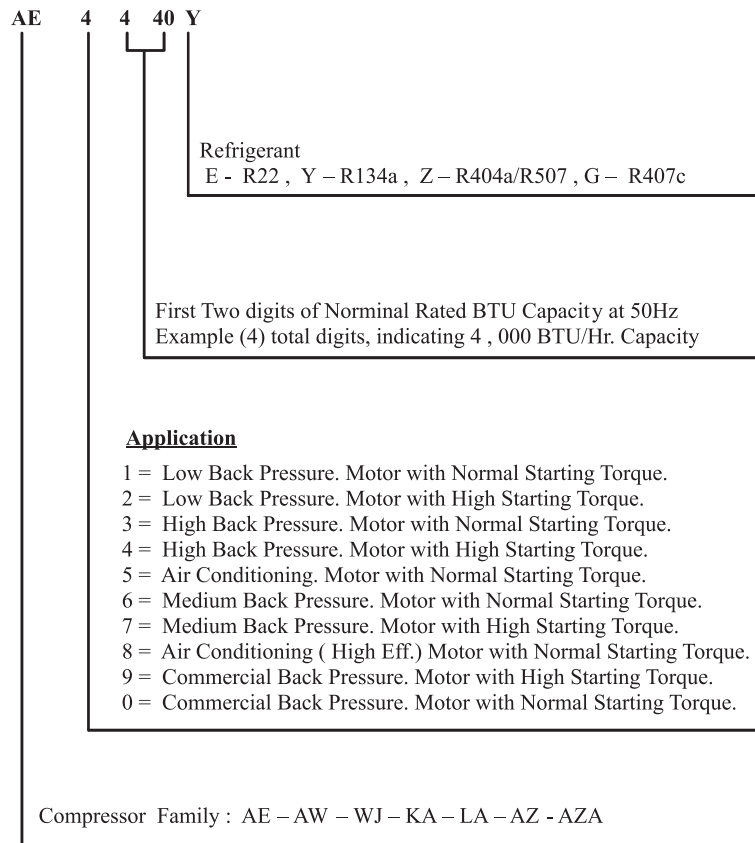


Kulthorn Kirby
Public Company Limited



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Model Designation System



Kulthorn Compressor Specifications

Hermetic compressors - 220-240V/50Hz/1PH

R22,MBP,WITH OVERLOAD,RELAY AND MOUNTING PARTS

| | | | |
|------------|---------------------|-------|--------|
| AE 4448 EK | HERMETIC 670W, CSR | -5 °c | 1/3Hp |
| AE 4474 EK | HERMETIC 940W,CSR | -5 °c | 1/2Hp+ |
| AE 7415 EK | HERMETIC 370W, CSIR | -5 °c | 1/4Hp |
| AE 7426 EK | HERMETIC 690W,CSIR | -5 °c | 1/3Hp+ |
| AE 7435 EK | HERMETIC 920W, CSR | -5 °c | 1/2Hp |
| AE 7445 EK | HERMETIC 1200W, CSR | -5 °c | 5/8Hp |
| AE 9422 EK | HERMETIC 562W,CSIR | -5 °c | 1/4Hp |

R22,MBP,WITH ELECTRICAL BOX FULLY WIRED

| | | | |
|------------|--------------------|-------|---------|
| WJ 9460 EK | HERMETIC 1490W,CSR | -5 °c | 7/8Hp |
| WJ9485EK | HERMETIC 2410W,CSR | -5 °c | 1 1/8Hp |

R22,MBP&HBP,WITH OVERLOAD,MOUNTING PARTS, ELECTRICAL BOX AN VALVE

| | | | |
|---------------|--------------------|------|---------|
| WJ 9460 EK-SA | HERMETIC 1535W,CSR | -5°c | 7/8Hp |
| WJ 9470 EK-SA | HERMETIC 1825W,CSR | -5°c | 1 1/8Hp |
| WJ 9485 EK-SA | HERMETIC 2010W,CSR | -5°c | 1 1/4Hp |



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Kulthorn Compressor Specifications

R22, HBP, WITH MOTOR PROTECTOR, RUN CAPACITOR AND MOUNTING PARTS

| | | | | | |
|-----------------|--------|-------|----------|----------------|--|
| Accumulator | | | | | |
| RM 5512 GNE81 | ROTARY | +7 °C | 10000BTU | (small accum) | |
| RM 5515 GNE81 | ROTARY | +7 °C | 12520BTU | (small accum) | |
| RM 5518 GNE81 | ROTARY | +7 °C | 14980BTU | (small accum) | |
| RM 5522 GNE4 | ROTARY | +7 °C | 18320BTU | (small accum) | |
| RM 65243 GNHE83 | ROTARY | +7 °C | 19180BTU | (medium accum) | |

R407c

| | | | |
|--------------|--------|-------|----------|
| RM 5512 HNE5 | ROTARY | +7°C | 10310BTU |
| RM 5515 HNE5 | ROTARY | +7 °C | 12900BTU |
| RM 5518 HNE5 | ROTARY | +7 °C | 15420BTU |
| RM 5523 HNE5 | ROTARY | +7 °C | 19760BTU |
| RM 5526 HNE5 | ROTARY | +7 °C | 22320BTU |

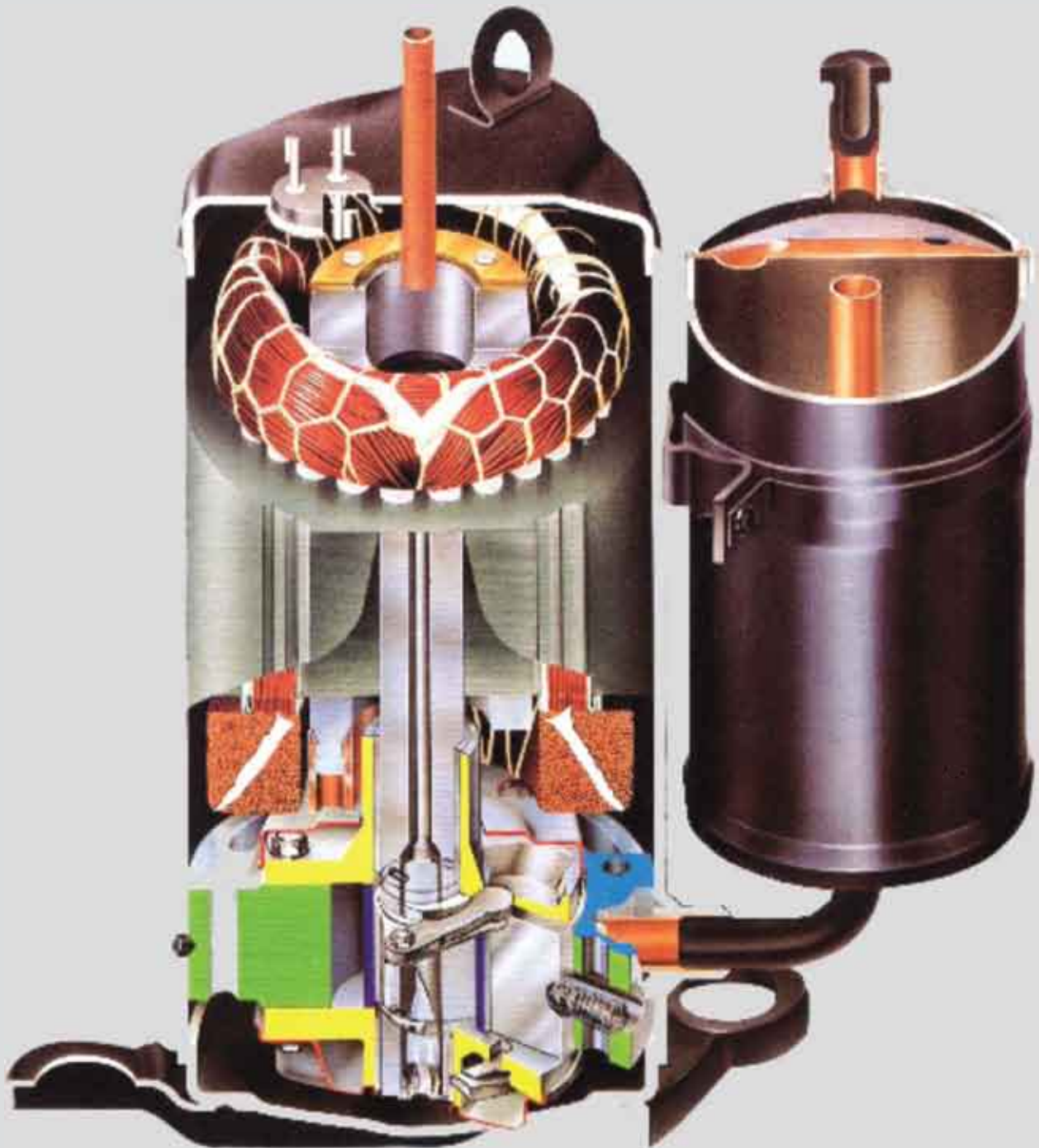
KULTHORN COMPRESSOR SELECTIONS

| | |
|------|---|
| RSIR | = OVERLOAD + RELAY |
| CSIR | = OVERLOAD + RELAY + START CAPACITOR. |
| CSR | = OVERLOAD + RELAY + START & RUN CAPACITOR. |
| PSC | = RUN CAPACITOR. |
| M | = MEDIUM BACK |
| H | = HIGH BACK |
| L | = LOW BACK |
| E | = R 22 |
| Y | = R 134a |
| Z | = R 404a |
| SA | = VALVE REQUIRED |



KULTHORN

Saving Our Environment from Global Warming Introducing our R-407C and R-410a Models



Technical Specifications

Torque Classification

Low Starting Torque - LBP- MBP- HBP- Ac applications with RSIR- RSCR-PSC electric motors. Execution suitable for systems with a capillary tube or with balanced pressures at start up.

High Starting Torque – LBP – MBP- HBP applications with CSIR- CSR electric motors. Execution suitable for systems with expansion valve or capillary, with unbalanced pressures at start up.

Type of Application

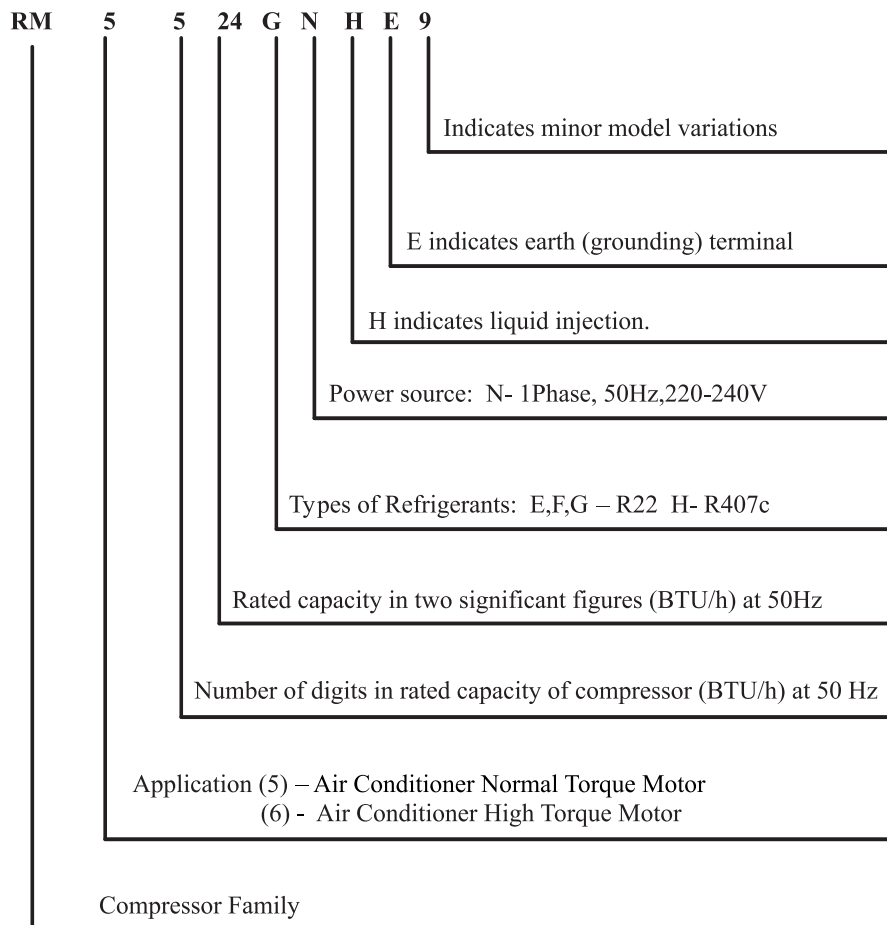
Low Back Pressure - Models at low evaporating temperatures between -35°C and -10°C. Use for Refrigerators, Freezers, Frozen food cabinets, Frozen food display cases, Display windows.

Medium Back Pressure – Models for medium evaporating temperatures between -15°C or -25°C and +15°C. Use for Fresh food cabinets, Drink coolers, Ice makers.

High Back Pressure – Models at high evaporating temperatures between 0°C and +15°C. Use for Fresh food cabinets, Drink coolers, Ice makers, Dehumidifiers.

Air conditioning – Models for air conditioning with R22, suitable for applications with positive working evaporating temperatures. Use for Air conditioners, Heat pumps and Dehumidifiers.

Model Designation System



Kulthorn Compressor Specifications

R22, HBP, WITH OVERLOAD, RELAY, MOUNTING PARTS, ELECTRICAL BOX AND VALVE

| | | | |
|---------------|--------------------|-------|---------|
| AW 4519 EK-SA | HERMETIC 2600W,CSR | -5°c | 1 1/2Hp |
| AW 4520 EK-SA | HERMETIC 2910W,CSR | -5 °c | 1 3/4Hp |
| AW 4522 EK-SA | HERMETIC 3220W,CSR | -5 °c | 2Hp |

R22, HBP, WITH RUN CAPACITOR AND MOUNTING PARTS (Piston Type Air-Conditioning Compressor)

| | | | |
|------------|---------------------------|-------|--|
| WJ 5510 EK | HERMETIC 9200BTU/HR,PSC | +7 °c | |
| WJ 5513 EK | HERMETIC 10800BTU/HR,PSC | +7 °c | |
| WJ 5515 EK | HERMETIC 12000BTU/HR,PSC | +7 °c | |
| WJ 5518 EK | HERMETIC 15100BTU/HR,PSC | +7 °c | |
| AW 5519 EK | HERMETIC 16500BTU/HR,CSR* | +7 °c | |

R134a, HBP, WITH OVERLOAD, RELAY AND MOUNTING PARTS

| | | | |
|-----------|---------------------|-------|--------|
| AE 4430 Y | HERMETIC 820W,CSIR | -5 °c | 1/2Hp+ |
| AE 4440 Y | HERMETIC 1075W,CSIR | -5 °c | 1/3Hp |
| AE 4448 Y | HERMETIC 1190W,CSIR | -5 °c | 5/8Hp |

R134a, MBP, WITH OVERLOAD, RELAY AND MOUNTING PARTS

| | | | |
|--------------|--------------------|-------|--------|
| WJ 9430 YK-P | HERMETIC 880W,CSR | -5 °c | 1/2Hp |
| WJ 9445 YK-P | HERMETIC 1170W,CSR | -5 °c | 5/8Hp+ |
| WJ 9460 YK-P | HERMETIC 1580W,CSR | -5 °c | 1Hp |

R404a, LBP, WITH OVERLOAD, RELAY, START & RUN CAP AND MOUNTING PARTS

| | | | |
|---------------|--------------------|--------|---------|
| AE 2428 ZK-SR | HERMETIC 700W,CSR | -23 °c | 1/2Hp |
| AW 2450 ZK | HERMETIC 1244W,CSR | -23 °c | 3/4Hp |
| AW 2464 ZK | HERMETIC 1580W,CSR | -23 °c | 1 1/2Hp |
| AW 2495 ZK | HERMETIC 2322W,CSR | -23 °c | 2Hp |

PCCE

Power Compressor Exchange Holdings
professional compressor remanufacturers





Power Compressor Exchange Holdings
professional compressor remanufacturers

Series Axial Fan Motors

YWF300 SERIES AXIAL FAN MOTOR (300 MM) - Suction

| Model | Voltage | Frequency (Hz) | Current | Input (W) | Speed (r/min) | Air volume (m ³ h) | Noise (dBA) | Capacitance(μF) | Approx. weight(kg) |
|-----------|---------|----------------|---------|-----------|---------------|-------------------------------|-------------|-----------------|--------------------|
| YWF2D-300 | 380 | 50 | 0.35 | 140 | 2550 | 2800 | 60 | | 3.3 |
| YWF2E-300 | 220 | 50 | 0.65 | 140 | 2530 | 2800 | 60 | 4 | 3.3 |

YWF 350 SERIES AXIAL FAN MOTOR (350 MM) - Suction

| Model | Voltage | Frequency (Hz) | Current | Input (W) | Speed (r/min) | Air volume (m ³ h) | Noise (dBA) | Capacitance(μF) | Approx. weight(kg) |
|-----------|---------|----------------|---------|-----------|---------------|-------------------------------|-------------|-----------------|--------------------|
| YWF4D-300 | 380 | 50 | 0.35 | 140 | 2550 | 2800 | 60 | | 4.9 |
| YWF4E-350 | 220 | 50 | 0.70 | 150 | 1380 | 2973 | 62 | 4 | 4.9 |

YWF 400 SERIES AXIAL FAN MOTOR (400 MM) - Suction

| Model | Voltage | Frequency (Hz) | Current | Input (W) | Speed (r/min) | Air volume (m ³ h) | Noise (dBA) | Capacitance(μF) | Approx. weight(kg) |
|-----------|---------|----------------|---------|-----------|---------------|-------------------------------|-------------|-----------------|--------------------|
| YWF4D-400 | 380 | 50 | 0.50 | 180 | 1380 | 4500 | 68 | | 5.6 |
| YWF4E-400 | 220 | 50 | 0.80 | 180 | 1380 | 4400 | 68 | 6 | 5.6 |

YWF 420 SERIES AXIAL FAN MOTOR (420 MM) - Suction

| Model | Voltage | Frequency (Hz) | Current | Input (W) | Speed (r/min) | Air volume (m ³ h) | Noise (dBA) | Capacitance(μF) | Approx. weight(kg) |
|-----------|---------|----------------|---------|-----------|---------------|-------------------------------|-------------|-----------------|--------------------|
| YWF4D-420 | 380 | 50 | 0.52 | 220 | 1350 | 4850 | 68 | | 5.8 |
| YWF4E-420 | 220 | 50 | 1.00 | 220 | 1350 | 4700 | 68 | 6 | 5.8 |

YWF 450 SERIES AXIAL FAN MOTOR (450 MM) - Suction

| Model | Voltage | Frequency (Hz) | Current | Input (W) | Speed (r/min) | Air volume (m ³ h) | Noise (dBA) | Capacitance(μF) | Approx. weight(kg) |
|-----------|---------|----------------|---------|-----------|---------------|-------------------------------|-------------|-----------------|--------------------|
| YWF4D-450 | 380 | 50 | 0.60 | 250 | 1360 | 5600 | 68 | | 7.2 |
| YWF4E-450 | 220 | 50 | 1.20 | 250 | 1350 | 5507 | 68 | 8 | 7.2 |

YWF 500 SERIES AXIAL FAN MOTOR (500 MM) - Suction

| Model | Voltage | Frequency (Hz) | Current | Input (W) | Speed (r/min) | Air volume (m ³ h) | Noise (dBA) | Capacitance(μF) | Approx. weight(kg) |
|-----------|---------|----------------|---------|-----------|---------------|-------------------------------|-------------|-----------------|--------------------|
| YWF4D-500 | 380 | 50 | 0.90 | 450 | 1300 | 6246 | 72 | | 9.5 |
| YWF4E-500 | 220 | 50 | 1.85 | 420 | 1300 | 6046 | 72 | 10 | 9.5 |

YWF 550 SERIES AXIAL FAN MOTOR (550 MM) - Suction

| Model | Voltage | Frequency (Hz) | Current | Input (W) | Speed (r/min) | Air volume (m ³ h) | Noise (dBA) | Capacitance(μF) | Approx. weight(kg) |
|-----------|---------|----------------|---------|-----------|---------------|-------------------------------|-------------|-----------------|--------------------|
| YWF4D-550 | 380 | 50 | 1.2 | 600 | 1300 | 8487 | 75 | | 10.5 |
| YWF4E-550 | 220 | 50 | 2.4 | 500 | 1300 | 8268 | 75 | 10 | 10.5 |

YWF 600 SERIES AXIAL FAN MOTOR (600 MM) - Suction

| Model | Voltage | Frequency (Hz) | Current | Input (W) | Speed (r/min) | Air volume (m ³ h) | Noise (dBA) | Capacitance(μF) | Approx. weight(kg) |
|-----------|---------|----------------|---------|-----------|---------------|-------------------------------|-------------|-----------------|--------------------|
| YWF4D-600 | 380 | 50 | 1.60 | 830 | 1350 | 12500 | 78 | | 14.0 |
| YWF4E-600 | 220 | 50 | 3.00 | 650 | 1300 | 10500 | 78 | 10 | 14.0 |

YWF 630 SERIES AXIAL FAN MOTOR (630 MM) - Suction

| Model | Voltage | Frequency (Hz) | Current | Input (W) | Speed (r/min) | Air volume (m ³ h) | Noise (dBA) | Capacitance(μF) | Approx. weight(kg) |
|-----------|---------|----------------|---------|-----------|---------------|-------------------------------|-------------|-----------------|--------------------|
| YWF4D-630 | 380 | 50 | 1.80 | 880 | 1320 | 13000 | 78 | | 15.0 |
| YWF4E-630 | 220 | 50 | 3.20 | 700 | 1300 | 11000 | 78 | 10 | 15.0 |

LS Industrial Systems

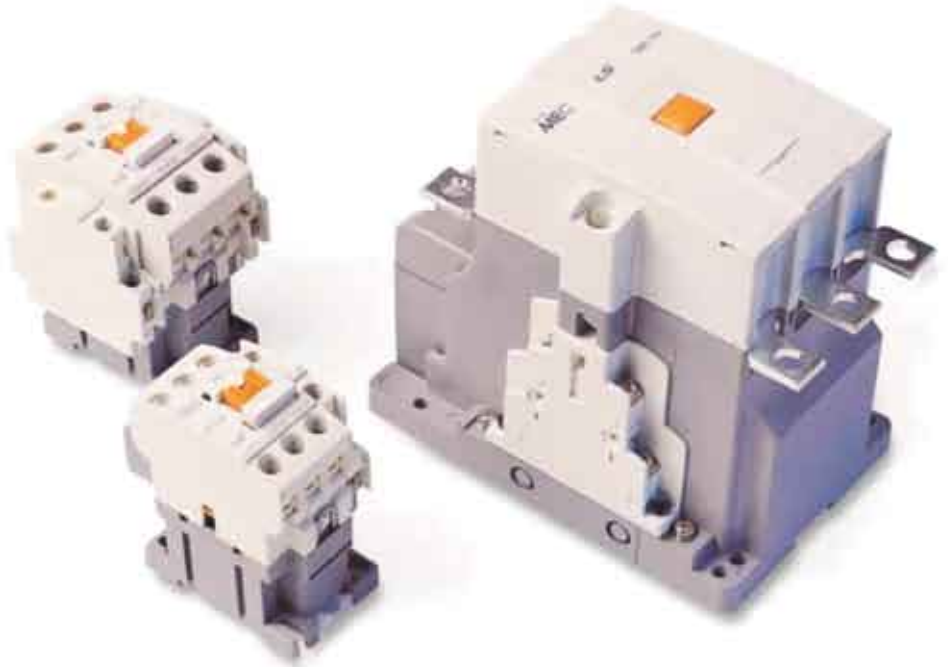
New Name of  LG Industrial Systems

GMC-M - AC range of Mini-Contactors
from 6Amp - 16Amp (3Kw - 7.5Kw)

GMC - AC range of Contactors from
9Amp - 85Amp (4Kw - 45Kw)
Available in various coil voltages
100Amp - 800Amp AC/DC common
Operating coil.

GMD-M - DC range of Mini-Contactors
from 6Amp - 16Amp (3Kw - 7.5Kw)
(Available in various voltages)

GMD - DC range of Contactors from
9Amp - 85Amp (4Kw - 45Kw)
Available in: 12VDC; 24VDC; 48VDC
110VDC; 220VDC.



Manual Motor Starters (MMS)

Range: 0.16Amp – 100Amp in 32AF, 63AF and 100AF frame sizes
25KA – 100KA, plus various accessories available.

- Adjustable thermal release.
- Magnetic release 13 le max.
- Trip class 10.
- Protective function.
- Phase –failure protection.
- Short circuit.
- Overload.



MMS-32H

MMS-63H

MMS-100H



LS is everywhere!



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professional compressor remanufacturers

LS Electrical Switchgear

Contactor - 3 Pole, 240 VAC Coil

| | |
|---------|---|
| GMC-9 | CONTACTOR 3 POLE, 9A, 4kW, 240 VAC COIL |
| GMC-12 | CONTACTOR 3 POLE, 12A, 5.5kW, 240 VAC COIL |
| GMC-18 | CONTACTOR 3 POLE, 18A, 7.5kW, 240 VAC COIL |
| GMC-22 | CONTACTOR 3 POLE, 22A, 11kW, 240 VAC COIL |
| GMC-32 | CONTACTOR 3 POLE, 32A, 15kW, 240 VAC COIL |
| GMC-40 | CONTACTOR 3 POLE, 40A, 18.5kW, 240 VAC COIL |
| GMC-50 | CONTACTOR 3 POLE, 50A, 22kW, 240 VAC COIL |
| GMC-65 | CONTACTOR 3 POLE, 65A, 30kW, 240 VAC COIL |
| GMC-75 | CONTACTOR 3 POLE, 75A, 37kW, 240 VAC COIL |
| GMC-100 | CONTACTOR 3 POLE, 100A, 55kW, 240 VAC COIL |

Thermal Overload Relay (for GMC Contactor)

| | |
|--------------|--|
| GTK-22/5 | THERMAL OVERLOAD 4-6A 2.2kW (GMC9-22) |
| GTK-22/7.5 | THERMAL OVERLOAD 6-9A 3.7kW (GMC9-22) |
| GTK-22/11 | THERMAL OVERLOAD 9-13A 5.5kW (GMC9-22) |
| GTK-22/15 | THERMAL OVERLOAD 12-18A 7.5kW (GMC9-22) |
| GTK-22/19 | THERMAL OVERLOAD 16-22A 11kW (GMC9-22) |
| GTK-40/30 | THERMAL OVERLOAD 24-36A 15kW (GMC32-40) |
| GTK-40/34 | THERMAL OVERLOAD 28-40A 18.5kW (GMC32-40) |
| GTK-100/80 | THERMAL OVERLOAD 65-100A 45kW (GMC100-125) |
| GMP80-3SR/80 | THERMAL OVERLOAD 16-80A 22-37kW (ELECTRONIC) |

"MMS" Manual Motor Starter

| | |
|------------|---------------------------------------|
| MMS-32H6 | MANUAL MOTOR STARTER 4-6A 2.2kW |
| MMS-32H10 | MANUAL MOTOR STARTER 6-10A 4kW |
| MMS-32H13 | MANUAL MOTOR STARTER 9-13A 5.5kW |
| MMS-32H17 | MANUAL MOTOR STARTER 11-17A 7.5kW |
| MMS-32H22 | MANUAL MOTOR STARTER 16-22A 10kW |
| MMS-32H32 | MANUAL MOTOR STARTER 22-32A 15kW |
| MMS-63S40 | MANUAL MOTOR STARTER 28-40A 18.5kW |
| MMS-63S63 | MANUAL MOTOR STARTER 45-63A (22-)30kW |
| MMS-100S75 | MANUAL MOTOR STARTER 55-75A 37kW |
| MMS-100S90 | MANUAL MOTOR STARTER 70-90A 45kW |

Auxiliary Contact Block (for MMS)

| | |
|-------|--|
| LX-20 | AUXILIARY MMS CONTACT BLOCK, SIDE MOUNT, 2NO |
| FX-20 | AUXILIARY MMS CONTACT BLOCK, TOP MOUNT, 2NO |

Oil Separators

Oil Separators are used to separate oil from the refrigerant gas in the system.

- Situated as close to the compressor as possible.
- Installed on the discharge line.
- Uses a typical impingement screen.
- 3.5 MPa maximum working pressure.
- Returns oil to compressor crankcase.
- 1/4" and 3/8" return connection.



| | | Capacity in kW at Evaporator Temperature | | | | | |
|---------|------------------------------------|--|----------|---------|----------|---------|----------|
| | | R134a | | R22 | | R404a | |
| | | - 40 °C | +4.44 °C | - 40 °C | +4.44 °C | - 40 °C | +4.44 °C |
| OS-1003 | OIL SEPARATOR 3/8" (1000 SERIES) | 2.637 | 3.517 | 3.517 | 5.275 | 3.517 | 5.275 |
| OS-2004 | OIL SEPARATOR 1/2" (2000 SERIES) | 3.517 | 5.275 | 5.275 | 7.034 | 5.275 | 7.034 |
| OS-2005 | OIL SEPARATOR 5/8" (2000 SERIES) | 10.551 | 14.068 | 15.826 | 19.343 | 16.705 | 20.222 |
| OS-2007 | OIL SEPARATOR 7/8" (2000 SERIES) | 15.826 | 19.343 | 24.619 | 28.136 | 26.377 | 29.894 |
| OS-2009 | OIL SEPARATOR 1-1/8" (2000 SERIES) | 21.102 | 26.377 | 31.623 | 36.928 | 33.411 | 40.445 |
| OS-2011 | OIL SEPARATOR 1-3/8" (2000 SERIES) | 26.377 | 35.170 | 40.445 | 47.479 | 42.204 | 50.996 |
| OS-3007 | OIL SEPARATOR 7/8" (3000 SERIES) | 21.102 | 28.136 | 31.623 | 35.170 | 31.623 | 35.170 |
| OS-3009 | OIL SEPARATOR 1-1/8" (3000 SERIES) | 28.136 | 35.170 | 38.687 | 42.204 | 31.653 | 42.204 |
| OS-3011 | OIL SEPARATOR 1-3/8" (3000 SERIES) | 31.623 | 42.204 | 45.721 | 49.238 | 52.755 | 52.755 |
| OS-3013 | OIL SEPARATOR 1-5/8" (3000 SERIES) | 38.687 | 49.238 | 56.272 | 56.272 | 70.340 | 70.340 |
| OS-3017 | OIL SEPARATOR 2-1/8" (3000 SERIES) | 59.789 | 77.374 | 87.925 | 105.51 | 105.510 | 105.510 |

[We offer integrated control solutions for
Air-Conditioning, Refrigeration and Humidification.]



Air-Conditioning

Standard controllers for temperature, pressure, humidity control.

Programmable controllers for specific applications: chillers, HPs, AC units, air-handling units.

Customized controllers designed to meet customer requirements.

Carel controllers can be connected to BMS via CAREL Modbus®, BACnet™, TCP/IP, SNMP, Metasys®, LonWorks® (Echelon®) and Trend protocols.

Refrigeration

Controllers for specific applications: cold rooms, display cabinets, showcases, compressor packs.

Programmable or customized versions designed to meet customer requirements in terms of size, functioning, specifications, aesthetic design. Local and remote management solutions. Integrated solutions for CO₂ applications in commercial refrigeration (retail sistema).

Humidification

Systems for humidity control: **adiabatic humidifiers** (air/water, pressurised water, centrifugal, safe in terms of hygiene and allowing energy savings) and **isothermal humidifiers** (electrical, immersed electrodes and gas) which enable the right solution to be found for every kind of application.

Tapes

Thermal Insulation Foam Tape

- Self-adhesive.
- Free of CFC / HFC / HCFC's.
- Added UV Resistance.
- Mould and Mildew Resistant.
- Great Fire Performance.
- Low Thermal Energy Conductivity, Big Energy Savings. (0.039 W/mK)
- Closed Cell Structure, Least Moisture Intrusion. (1.16×10^{-13} Kg/m².Pa)
- Application: Sealing Air-conditioning & Refrigeration Piping. Can be applied to irregular surfaces and narrow working areas. (-183°C ~ +105°C)
- Available in rolls of 50mm wide x 5mm thick.



Lasso Tape

- Self-adhesive.
- PVC. A slightly softer compound than electrical tape, making it more stretchable.
- Available in rolls of 48mm width.



Thread Seal Tape

- PTFE thread sealing tape.
- For threaded pipe fittings.



Aluminium Tape

- Self-adhesive.
- Aluminium foil tape 40 micron thick.
- Available in rolls of 48mm width.



Electrical Insulation Tape

- Self-adhesive.
- Generic PVC insulation tape for electrical use.
- Available in black, white, red, yellow, blue and green.



Non Drip Cork Tape

- Self-adhesive. "Tacky Tape."
- Black butyl tape impregnated with small particles of cork which can be wrapped around cold pipes to prevent condensation.
- Available in rolls of 48mm x 10m





Power Compressor Exchange Holdings
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Copper Tubing

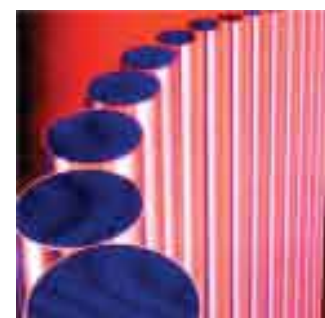
"RC" SOFT DRAWN COPPER TUBING

| Size (Imperial) | Size (mm) | | Length |
|--------------------|-----------|------|---------|
| | O.D | W.T | |
| 1/8" | 3.18 | 0.76 | 15.24mm |
| 3/16" | 4.76 | 0.61 | 15.24mm |
| | 4.76 | 0.71 | |
| 1/4" | 6.35 | 0.61 | 15.24mm |
| | 6.35 | 0.71 | 15.24mm |
| 5/16" | 7.94 | 0.61 | 15.24mm |
| | 7.94 | 0.71 | 15.24mm |
| 3/8" | 9.53 | 0.61 | 15.24mm |
| | 9.53 | 0.71 | 15.24mm |
| 1/2" | 12.70 | 0.71 | 15.24mm |
| 5/8" | 15.88 | 0.71 | 15.24mm |
| 3/4" | 19.05 | 0.81 | 15.24mm |
| 7/8" | 22.23 | 1.14 | 15.24mm |



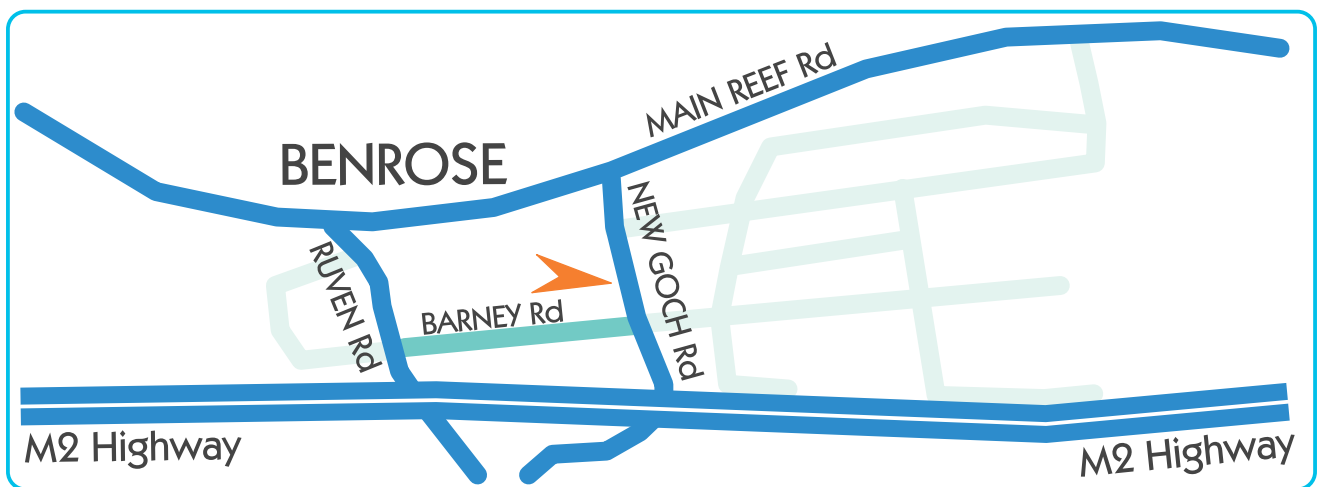
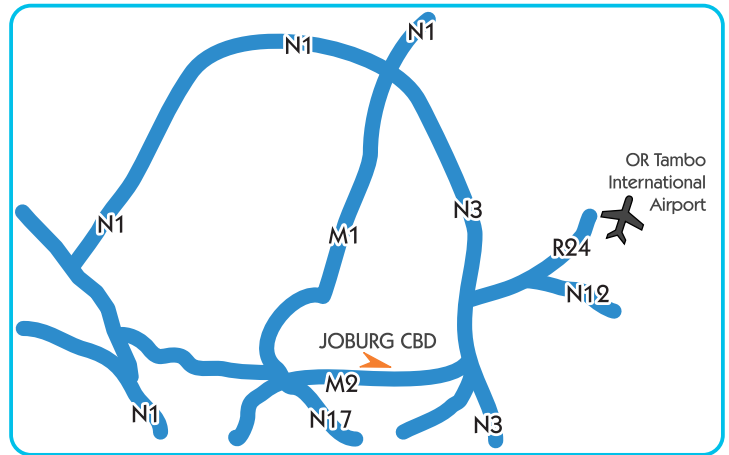
"RL" HARD DRAWN COPPER TUBING

| Size (Imperial) | Size (mm) | | Length |
|--------------------|-----------|------|-----------|
| | O.D | W.T | |
| 1/4" | 6.35 | 0.51 | 5.5 metre |
| 3/8" | 9.53 | 0.61 | 5.5 metre |
| 1/2" | 12.70 | 0.61 | 5.5 metre |
| 5/8" | 15.88 | 0.71 | 5.5 metre |
| 3/4" | 19.05 | 0.71 | 5.5 metre |
| 7/8" | 22.23 | 0.81 | 5.5 metre |
| 1 1/8" | 28.58 | 0.91 | 5.5 metre |
| 1 3/8" | 34.93 | 1.02 | 5.5 metre |
| 1 5/8" | 41.28 | 1.22 | 5.5 metre |
| 2 1/8" | 53.98 | 1.42 | 5.5 metre |
| 2 5/8" | 66.68 | 1.63 | 5.5 metre |
| 3 1/8" | 79.38 | 1.78 | 5.5 metre |
| 3 5/8" | 92.08 | 2.08 | 5.5 metre |
| 4 1/8" | 104.78 | 2.41 | 5.5 metre |



MAP & DIRECTIONS

- From Pretoria, East Rand, Edenvale (N3): Go to Gilloolies Interchange along the N3 South. Take the M2 West Germiston / Johannesburg. Keep right, follow Johannesburg signs. Take Benrose / Ruven off ramp, turn right at the traffic lights and right at the next traffic lights. Turn Left into New Goch. Cross Barney Rd and turn left into Benrose Industrial Village. We are Unit 15.
- From Pretoria, Midrand, Sandton (N1): Take the N1 South to Johannesburg, join the M2 East. Take Benrose / Ruven off ramp, go straight at the traffic lights. At the next set of traffic lights, turn left into New Goch, Cross Barney Rd and turn left into Benrose Industrial Village. We are Unit 15.



ADDRESS

Power Compressor Exchange
P.O. Box 27014
Benrose
2011

Physical Address:
23 New Goch Road
Unit 15, Benrose Industrial Village
Benrose, 2094

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Fax: +27 11 624 2716 or +27 11 624 2299
e-mail: cs@compressorexchange.com

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| | | |
|---------------------|----------------------------|-----------------|
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| Spare Sales: | Adele Louw & William Groth | +27 11 624 2710 |
| Chiller Sales: | Billy van Blerk | +27 83 659 4422 |
| Electrical Foreman: | Sam Tshanki | +27 82 950 6419 |
| Financial Manager: | Sandra Mitchkey ACIS | +27 11 624 2710 |
| Technical Manager: | Iwan van den Berg | +27 83 800 0926 |
| Accounts: | Dasja Fourie | +27 11 624 2710 |
| Marketing: | Amanda Grobler | +27 83 283 4434 |

BANK DETAILS

| | |
|---------------|------------------------------------|
| Account Name: | Power Compressor Exchange Holdings |
| Bank Name: | Standard Bank |
| Account No: | 410 250 791 |
| Account Type: | Cheque |
| Branch Name: | Centurion |
| Branch Code: | 012645 |

HAVE YOU OPENED AN ACCOUNT WITH US? ACCOUNT HOLDERS QUALIFY FOR DISCOUNTS!



Power Compressor Exchange Holdings

professional compressor remanufacturers

Co. Reg. No. 2003/029583/07



Power Compressor Exchange Holdings

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E-mail: cs@compressorexchange.com

Website: www.compressorexchange.com