



COMPRESSOR SPARES
CATALOGUE
2020

INDUSTRIAL
AMMONIA REFRIGERATION
SUPPLY SOLUTIONS

www.ashaenterprises.net



We, Asha Enterprises, with our inception in the year 1976, at Pune, India, have successfully established ourselves as pioneers and a multibrand house in the Refrigeration industry since the past 44 years.

Our organization is engaged in Exports and Supply of superior range of :

- High quality Industrial Refrigeration Valves and Controls – Weld In line & Flange type
- Reciprocating Compressors, Spare Parts and Accessories
- Allied Industrial Ammonia Refrigeration Equipments and Fittings

Under the able guidance of our Founder Mr. Ramesh L. Bhand, we have carved a niche for ourselves in the competitive market as a Export and Trading House dealing in refrigeration products.

As a client, centric organization, we ensure that ethical business polices and transparency is employed at each and every step of the business. Further to above we are serving more than 1200 Industries in Refrigeration Sector for more than 4 decades.

Contact us for all your industrial refrigeration requirements related to -

- MEAT, POULTRY AND SEAFOOD
- LOW TEMPERATURE APPLICATIONS
- BLOCK ICE PLANTS
- COLD STORAGES
- ICE CREAM AND MILK PLANTS
- DISTILLERIES / BREWERIES
- FOOD PROCESSING
- FROZEN FOOD PLANTS
- CHEMICAL AND PHARMACEUTICALS
- TUBE / FLAKE ICE PLANTS
- REFINERIES
- ALLIED AMMONIA APPLICATIONS



**Compressors | Valves | Controls | Pumps | Compressor Spare Parts
Allied Industrial Ammonia Refrigeration Equipments and Fittings**

Piston



Material

- 1) CAST IRON IS- 25 GRADE / SG IRON
- 2) ALUMINIUM ALLOY LM13

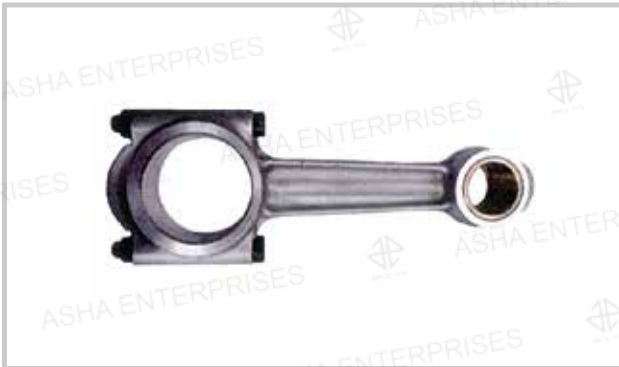
Cylinder Liner



Material

- 1) GRADED CAST IRON 25
- 2) GRADED CAST IRON 26

Connecting Rod



Material

- 1) ALLOY STEEL (EN8D, 42CRM04, C - 70, SG IRON)
- 2) ALLUMINIUM CASTING (LM12, LM13, LM26)
- 3) ALUMINIUM FORGING (HE15, HE17[HE30)
- 4) HIGH TENSILE BOLTS - SAE 4140 (GRADE 10.9/12.9)
- 5) BUSH - BI METAL, SILICON BRASS, PB - 2

Discharge Valve Assembly



Material

- 1) GRADED CAST IRON 25
- 2) GRADED CAST IRON 26
- 3) EN8D

Valve Plate



Material

- 1) GRADED CAST IRON 25
- 2) GRADED CAST IRON 26
- 3) SG IRON
- 4) ALUMINIUM ALLOY
- 5) MS PLATES

Valve Reeds



Material

- 1) 420 STAINLESS STEEL (SS)
- 2) EN42J
- 3) EN47
- 4) 7C27M02

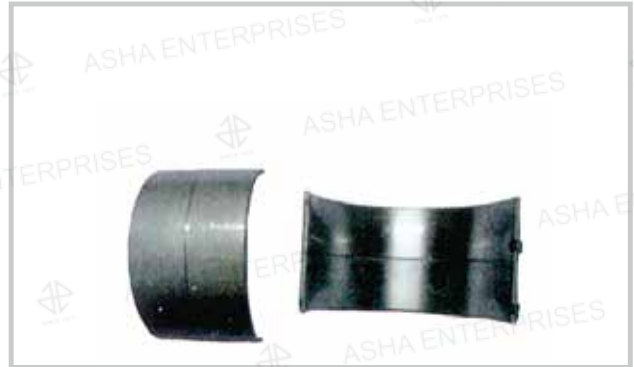
Main Bearing



Material

- WHITE METAL / BI-METAL / TRI-METAL

Connecting Rod Bering



Material

- WHITE METAL / BI-METAL / TRI-METAL

Connecting Rod Busk



Material

- 1) GRADED CAST IRON 25
- 2) GRADED CAST IRON 26

Thrust Washer



Material

- 1) PHOSPHOR BRONZE (90-10)
- 2) LEADED GUNMETAL (85-5-5-5)
- 3) BI METAL

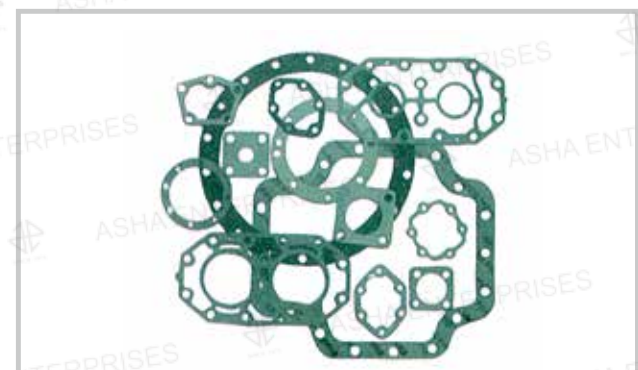
Shaft Seal Assembly



Material

- 1) **COIL SPRING BELLOW SEAL**
 - I) SEAL FACES - CARBON (CY10C/MY 10K)
 - II) SECONDARY SEALS - NITRILE/NEOPRENNE/VITON
 - III) METAL COMPONENT - MS/SS
- 2) **METAL BELLOW SEAL**
 - I) SEAL FACES - CARBON/TC VS SIC/TC
 - II) SECONDARY SEALS - VITON/PTFE/GFT/GRAPHITE
 - III) METAL COMPONENT - SS-316
 - IV) BELLOW MATERIAL - AM350/ALLOY C276/ALLOY 20

Gasket Set



Material

- 1) NON ASBESTOS / ASBESTOS
- 2) RUBBER COMPONENT - NEOPRENNE / EPDM
- 3) SHEET METAL WITH TEFLON



Bitzer 2GC/4FC



Bitzer 2EC/4EC/2FC



Alfa P22



Bitzer 2DC/4DC



Carrier 6D48



Carrier 6D68



Carrier 6D75



Carrier 05G



Bitzer 2CC/4CC



Bitzer 4VCS



Bitzer 4P



BOCK F3/F4



Daikin C55



Daikin C58



Bitzer 2N/4N



Bitzer 4TCS



Bitzer 2T/4T



Bock FK40



Carrier 5F



Bitzer PCS



Sabroe CMO1



Sabroe SMC 65



Carrier 06E Contour



Carrier 06E Flat



Sabroe CMO2



Bock F5/F6



Bitzer 4H/6H



Bitzer 4NFC

Pistons



Bitzer NCS



Bitzer 4G/6G



Bitzer 8GC



Alfa Laval P2



Daikin C75



Gram 75



Bock F14



Bock F16



Bitzer 6F



Bitzer 8FC



Carrier 5H40



Carrier 5H46



Kirlosakar AC70



Bitzer type v



Mycom A



Mcquay 808/906



York J/JS



Sabroe SMC100S



Sabroe SMC100L



Sabroe SMC 100E



Gram 100



Grasso RC9



Kirlosakar PC2



Vilter 440/450



Gram 125



Mycom B



Grasso RC11/RC12



Kirlosakar
KC/110



Sabroe SMC 180





Working Dimension

Diameter : 10mm - 70mm

Length : 10mm - 300mm

Material

- i) 153Cr3,17Cr3
- ii) 16MnCr5,20MnCr5
- iii) SCM415H
- iv) EN351/ EN353
- v) SAE 8620

Hardness : 58 - 65 HRC

Applicable For

- Affa
- B/tzer
- Bock
- Carrier
- Copeland
- Daikin
- Gram
- Grasso
- Kirloskar
- Mcquay
- Mycom
- Sabroe
- Stal
- Vilter
- York



Pistons Ringset



Working Dimension

Diameter : 10mm - 70mm

Length : 10mm - 300mm

Material

- i) Graded Cast Iron - Hardness 205-265 HB
- ii) Alloyed Cast Iron - Hardness 235-290 HB
- iii) SG/Ductite Iron - Hardness 280-360 HB

Applicable For

- Affa
- B/tzer
- Bock
- Carrier
- Copeland
- Daikin
- Gram
- Grasso
- Kirloskar
- Mcquay
- Mycom
- Sabroe
- Stal
- Vilter
- York



Connecting Rools



Alfa Laval P2



Alfa Laval P22



Bitzer 4DC



Bitzer 4NCS



Bitzer 4H



Bitzer 4N



Bitzer 4T



Bock F3/F4



Bock FK40



Bock F5/F6



Bock F14/F16



Carrier 5F



Carrier 5H



Carrier 06E LS



Carrier 06E SS



Carrier 6 D48



Carrier 6D68



Carrier 6D75



Gram 75



Gram 100



Kirlosakar PC2



Kirlosakar AC70



Kirlosakar KC



Kirlosakar KCX

Connecting Rods



Daikin C55



Daikin C75 LS



Daikin C75 SS



Daikin C58



Mycom A



Mycom B



Grasso RC -9



Grasso RC -11



Grasso RC -12



Sabroe CMO 1



Sabroe CMO 2



Sabroe SMC65



Sabroe SMC100



Vilter 440



Vilter 450



Mcquary



York JS LS



York JS SS

Main Bearings



Alfa Laval P2



Bitzer 2N/2T



Bitzer 4H/4G/6F



Bitzer 4J



Bitzer 4N/49/4T



Bock F4/5



Bock F14/F16



Carrier 5H80 Intermediate



Carrier 5H120 Intermediate



Carrier 5H40 PE



Carrier 5H40 SE



Carrier 06E



Carrier 6D68



Carrier 6D75



Carrier 6D48



Carrier 5F PE



Carrier 5F SE



Daikin C58 SE



Daikin C58 PE



Daikin C55 PE



Daikin C55 SE



Daikin C75 ME



Daikin C75 PE



Daikin C75 SE



Gram 100



Kirloskar KC Plain



Kirloskar KC Flangr



Kirloskar KC Intermediate



Kirloskar KCX



Kirloskar PC2



Mcquay



Sabore CMO 1



Sabore CMO 2



Sabore SMC 65



Sabore SMC 100



Sabore SMC 180



York JS

Connecting Rod Bearings



Alfa Laval P2



Alfa Laval P22



Carrier 5H



Carrier 5F



Mcquay



Daikin C55



Daikin C58



Daikin C75



Grasso RC 9



Grasso RC -11



Grasso RC -12



Gram 75



Gram 100



Gram 125



Mycom A



Mycom B



Kirloskar PC2



Kirloskar KC



Kirloskar KCX



Sabroe SMC 65



Sabrae SMC 100



Sabrae SMC 180



Vilter 440



Vilter 450

Washers



Alfa Laval P2



Bitzer



Carrier 5F PE



Carrier 5F SE



Carrier 5F Steel



Carrier 5H PE



Carrier 5F SE



Carrier 5H120 Steel



Carrier 5H120



Carrier 06 E



Carrier 6D



Grasso RC 9



Grasso Rc 11



Grasso RC 11



Grasso RC11 Steel



Grasso Rc12



Grasso Rc12 Steel



Kirloskar KC



Kirloskar KC



Kirloskar KC Steel



Daikin C75



York JS

Connecting Rool Bushes



Alfa Laval P2



Bitzer 6H/6G/6F



Carrier 5H



Grasso RC 9



Grasso RC 11



Vilter 400/450



Mycom A



Mycom B



Sabrae SMC 65



Sabrae SMC 100



Sabrae SMC 180



Kirloskar KC/KCX



Kirloskar PC2

Valve Plate Assembly



Alfa Laval P2/4/6/8



Bitzer 2DC/2GC



Bitzer 4CC



Bitzer 4P



Bitzer 4N



Bitzer 4T



Bitzer 4H



Bitzer 6G



Bitzer F



Bitzer 8FC



Bock F3/F4



Bock F5/F6



Bock Fk40 Type I



Bock Fk40 Type II



Carrier 5F20/30



Carrier 5F40



Carrier 5H40



Carrier 6D48



Carrier 6D68



Carrier 6D75



Carrier 06 E type I



Carrier 06 E type II



Carrier 06 E type III



Carrier 06 E type IV



Daikin 3HC55



Daikin C55



Daikin 2C58



Daikin C75



Alfa Laval P2



Bitzer 4P



Bitzer 4N



Bitzer 6H/6G



Bitzer 6F



Bitzer 8GC



Bitzer type V



Bock F5



Bock F14/F16



Bock FK40



Carrier 5F



Carrier 5H



Daikin C55



Daikin C58



Daikin C75



Gram 100



Kirloskar AC70



Kirloskar KC



Mycom A



Mycom B



Sabroe CMO1



Sabroe CMO2



Sabroe SMC65



Sabroe SMC100



York JS

Discharge Valve Assembly



Carrier 5H



Carrier 5F



Gram 75



Gram 100



Grasso Rc -12



Grasso Rc -9



Grasso Rc -11



Kirloskar PC2



Kirloskar KC



Kirloskar KCX



Sabroe CMO1



Sabroe CMO2



Sabroe SMC65



Sabroe SMC100



Mycom A



Mycom B



York JS



Trance E

Shaft Seal Assembly



Alfa Laval P2



Alfa Laval P22



Bitzer 4n



Bitzer 4nfc



Bock F5



Bock F4



Bock F5/6



Bock F14



Bock Fk 40



Carrier 5F



Carrier 5H



Daikin C55



Daikin C75



Gram 75



Gram 100



Gram 125



Grasso Rc 9



Grasso Rc 11



Kirloskar AC 70



Kirloskar FK 4



Kirloskar KC



Mycom A
Double Collar



Mycom B
Single Collar



Mycom B
Double Collar



Sabroe CMO1



Sabroe SMC 65



Sabroe SMC 100



Vilter 440



Vilter 450



Alfa Laval



Bitzer 6F



Bitzer Oil Pump
with Cover



Bock F2/F3



Bock F4/F5



Carrier 5H



Carrier 06E



Carrier 6D



Copeland



Daikin C55



Daikin C75



Gram 75



Grasso RC - 9



Grasso RC - 11



Grasso RC - 12



York JS



Mycom A



Mycom B



Kirloskar KC



Kirloskar KCX

Crankshafts



Alfa Laval P2



Bock F3



Bock FK40



Mycom 8B



Carrier 5H40



Carrier 5H46



Carrier 5H60



Carrier 5H66



Carrier 5H80



Carrier 5H86



Carrier 5H120



Carrier 5H126



Daikin 6C55



Daikin 8C55



Daikin 2C58LE



Daikin 2C58 SE



Daikin 4C75



Daikin 6C75



Daikin 8C75



Sabroe CMO 16



Sabroe CMO 26



Sabroe CMO 28



Alfa Laval P2



Bitzer 4N/4P/4T



Bitzer 4J/4F



Bitzer 2T/2N



Bock F3/4/5/FK4



Carrier 5F20



Carrier 5F30



Carrier 5F40



Carrier 5F60



Carrier 5H



Carrier 5H40



Carrier 5H60



Carrier 5H80



Carrier 5H120



Carrier 5H120



Carrier 06CC



Carrier 6D



Daikin C55



Daikin C75



Daikin C75



Daikin C58



Grasso RC 11



Grasso RC 11



Grasso RC 12



Grasso RC 12



Grasso RC 9



Kirloskar FK4



Kirloskar AC70



Sabroe CMO 1



Sabroe CMO 2



Sabroe SMC 100



Sabroe SMC 112



vilter 440/450



York JS



York JS

Cylinder Liners



Alfa Laval P2



Bock F16



Carrier 5F



Carrier 5H



Daikin C55



Daikin C75



Grasso RC 9



Grasso RC 11



Kirloskar KC



Kirloskar KCX



Kirloskar AC80



Mcquay



Mycom A



Mycom B



Sabroe CMO 1



Sabroe CMO 2



Sabroe SMC 65



Sabroe SMC 100



Vilter 440



Vilter 450



Bitzer 6H/6G/6F



Bock FK40



Bock F3/F4



Bock F5/F6



Carrier 5F



Carrier 5H



Carrier 06E



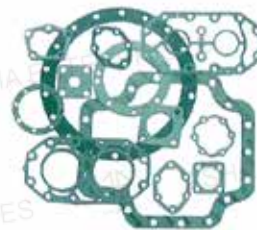
Carrier 6D48



Carrier 6D68



Carrier 6D75



Daikin C55



Daikin C58



Daikin C75



Gram 75



Gram 100



Grasso RC - 9



Mycom A



Mycom B



Sabroe CMO 1



Sabroe CMO 2



Sabroe SMC 65



Sabroe SMC 100



Vilter 440/450

Industrial Refrigeration Reciprocating & Screw Compressors

Available in :

Air Cooled and Water Cooled

Accessories:

- Drive Set
 - 'V' Belt drives. (Fly wheel, Motor pulley). Belts. for a wide range of standard speeds.
 - Direct drive. (Flexible coupling)
- Base frame, Slide rails for motor with foundation bolts.
- Stop valves (shut-off) for suction & discharge lines.
- Electrically operated solenoid valves for capacity control.
- Pressure gauges & Safety pressure cutouts, Crankcase heater & Oil separator.



Reciprocating Compressors



Screw Compressors Packages



V-belt Drive

Base Frame for Compressor

Oil Separator

Shut-off Valves

Reconditioned Ammonia Reciprocating Compressors

We also master the technique in supplying solutions for industrial refrigeration ammonia re-conditioned / used compressors with full warranty.

This compressor are picked from various reliable industries from India and are inspected by a team of well experienced technicians and further reconditioned using OEM spare parts and then we put it on open trail to ensure smooth functioning of the reconditioned compressors and we assure the performance of the same.

This compressors are popular in India and Abroad in Ice Plants and Small Ammonia Refrigeration units were Commercial values are a concern.

The advantage of installing this compressors are pure commercial. We also ensure ready stock and cheap availability of the spares in future.

Reconditioned Compressors are available for Positive and Negative applications.



Disassembling



Disassembling includes all internal and external compressor components like pistons, rods, crankshafts, etc and even electrical components. A complete part list is made for remanufacturing and the compressor body is dispatched for cleaning.

Cleaning



All cast iron components and bodies are burned in an air oven for degreasing. Once all oils and metal particles are burned, the castings are placed in a shot peen machine, charged with specially manufactured soft shot, to clean the castings to its original manufactured appearance. This process is environmentally safe and does not use chemicals that are harmful to the environment. Quality control checks all castings and surfaces to assure no particles remain, and that all surfaces meet the required finish to seal. Surfaces with any marks or scratches are put on a lapping machine or one of our resurfacing machines.

Rewinding



For varnish, we use the latest material to submerge, dip, and encapsulate stators after windings, then curing in our temperature-controlled ovens. Vacuum Pressure Impregnation (VPI) system ensures full slot penetration of varnish to guarantee no wire flex in the slot to eliminate slot burnouts. All of our semi-hermetic stators and rotors are surge tested to guarantee initial start-up under load. In addition, all stators are tested on a digital watt ohmmeter which enables us to check our rewinders. The digital ohmmeter measuring is as low as 1/10,000 of an ohm to check for the balance of the coils and conductivity through all soldered connections.

Inspection



We check all the material dimensionally, quality test for spares and open head testing to check for leakage. We also repair old compressors and change the compressor spares only as per requirement.

Assembling



Directly from sub-assembly/Quality Control, the compressors are ready for assembly. All internal parts are QC stamped along with the compressor casting. Torque specifications, tolerances, and clearances pertaining to each assembly are checked. All the instruments are calibrated, following the ISO Certification program.

Welding



Fully equipped welding department which is skilled in submerged arc welding, tig, and argon gas welding

Testing



All pre-qualified internal parts are matched to each compressor casting, and crankshafts are thoroughly checked, going through all tolerances and are laid out with new parts on trays for assembly. The final step for QC is to scrutinize specifications, stamping the parts with the QC approval code. Once completed, the compressor is forwarded to Assembling. Compressors are tested with a computerized test program.

Finished Product




Leak Detection is accomplished using a highly sophisticated helium detection system. After leak detection, all compressors are evacuated to 250 microns and charged with a 5# holding charge of nitrogen. The compressors are then painted to match manufacturer's original colors and skidded.



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RATA
The Refrigeration & Air Conditioning Traders Association's Ltd.