

# Refrigeration & Air Conditioning Product Catalogue

**RIGID** *Colling Specialist*

**RIGID HVAC CO., LTD**

Web: [www.rigidhvac.com](http://www.rigidhvac.com)

Email: [ann@rigidhvac.com](mailto:ann@rigidhvac.com)

Ph: +86 88888-5122

Fax: +86 8888-5399



Charging Hose



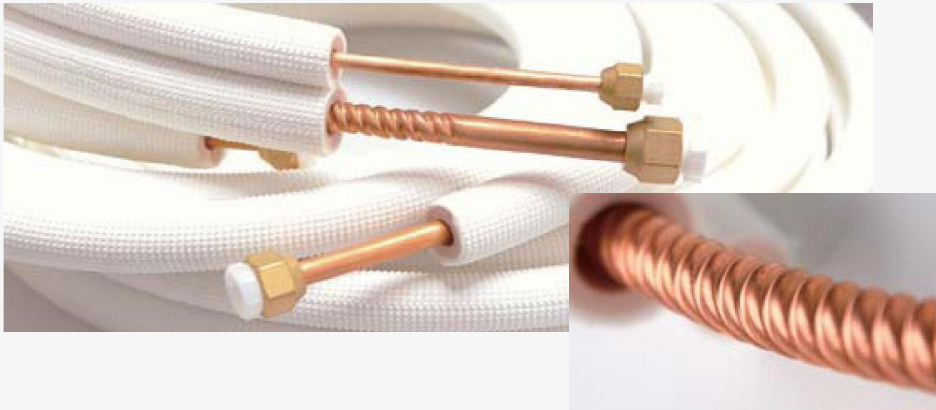
Pressure Gauge





# Refrigerant Gas

RIGID provides Refrigerant gas with top quality. Wide range and timely delivery are our advantages.



# Insulated Copper Tube Set

RIGID insulated copper tube is high quality used for the installation of split air conditioners & refrigeration equipment.

# Copper Tube

RIGID copper tubes are made of C12200 DHP. Pancake coil and straight length are in accordance with both ASTM B-280 and EN12735-1.



## Copper Packing

All the tubes are ended with caps to ensure cleanness of inner surface during transportation and storage

Pancake coils are shrink-wrapped and in cardboard box.

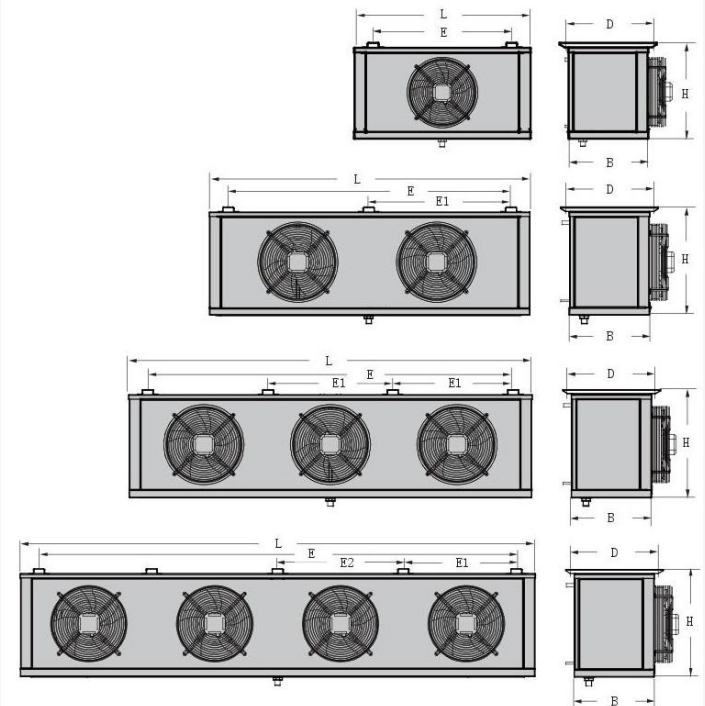
# Air Cooler

The ID series air cooler is designed for a variety of applications.

Its wide range of applicable temperature and cooling capacity enable it to meet any requirements.



## Dimensions





# INH Series Condenser

The INH series air cooled condenser is designed for the most common refrigerants. Compact design construct and pre-wired axial fans suitable for various applications.



# V-Type Series Condenser

This type air cooled condenser is designed for R410a, R404a, R134a... The capacity ranges from 25kw to 165kw.



# Replaceable Core Shell

Replaceable core shell use in both liquid and suction line of large commercial air conditioning and refrigeration systems.



## Filter Drier Core

Universal replacement for filter drier shell. Compatible with all CFC, HCFC and HFC refrigerants and oils.



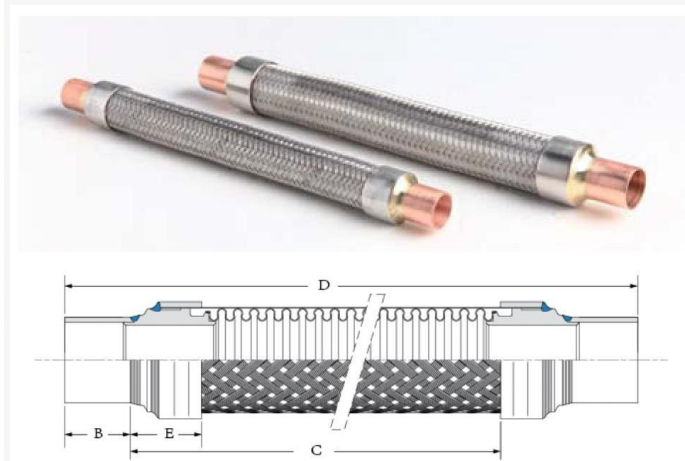


# Sight Glass

Sight glass provides accurate and quick visual refrigerant and moisture level within a system.

## Specification

Model	Connection Size Inch	Connection Type
VASG-1/4F	1/4	Flare to flare
VASG-3/8F	3/8	Flare to flare
VASG-1/2F	1/2	Flare to flare
VASG-5/8F	5/8	Flare to flare
VASG-1/4F-N	1/4	Flare to flare, with brass nut
VASG-3/8F-N	3/8	Flare to flare, with brass nut
VASG-1/2F-N	1/2	Flare to flare, with brass nut
VASG-5/8F-N	5/8	Flare to flare, with brass nut
VASG-1/4S	1/4	Solder to solder, extended copper tube
VASG-3/8S	3/8	Solder to solder, extended copper tube
VASG-1/2S	1/2	Solder to solder, extended copper tube
VASG-5/8S	5/8	Solder to solder, extended copper tube





## Rotalock Valve

The valve is applied in compressor, liquid receiver or tube line connection of refrigeration system, aims to control turn off/on refrigerant flow in system.



## Hand Valve

Valve body is made of forged brass. Its full-size openings are suitable for max flow and min pressure drop, bracket mounting installs easily.





## Solenoid Valve

Solenoid valve is the most frequently used to control elements in refrigeration and air conditioning system.



## 4-Way Reversing Valve

It is suitable for refrigeration system or heat pump applications, which requires a reversal of the refrigeration cycle for cooling/heating as seasonal condition.

## Suction Line Accumulator

The suction line accumulator is designed to protect the compressor from returning refrigerant liquid



## FDW Series Oil Separator

The Oil Separator is used in all refrigeration systems where compressor oil must be returned to the motor



## FDC Series Liquid Receiver

The liquid receiver is designed for refrigerant storage during normal operation and system pump down.





## Ball Valve

Ball valve is widely use in liquid, suction and hot gas lines in both refrigeration and air-conditioning systems.



## Split Shut-off Valve

- \* Combined function of shut-off, charging and testing.
- \*Compatible for all refrigerants.
- \* CE Certified.



# Capacitor

- \* For motor start and run.
- \* TUV, UL, CE approved.
- \* Build in reliable explosion-proof device, metalized polypropylene film, high capacity of self-healing.



# Contactors

Definite purpose contactor with TUV, UL, CE and RoHS approvals.





## Electronically Control Device



### SE Series Starting Relay

For 1/8HP, 1/6HP, 1/5HP, 1/4HP,  
1/3HP, 1/2HP compressor



### SF Series Starting Relay

For 1/8HP, 1/6HP, 1/5HP, 1/4HP,  
1/3HP, 1/2HP compressor



### SG Series Starting Relay

For 1/8HP, 1/6HP, 1/5HP, 1/4HP,  
1/3HP, 1/2HP compressor



### SH Series Starting Relay



### PTC Series Starting Relay



### Overload Protector

For 1/8HP, 1/6HP, 1/5HP, 1/4HP,  
1/3HP, 1/2HP compressor



### 2-Pole Switching Relay

Model	Coil Voltage
PR340	24 V
PR341	110/240 V
PR342	208/240 V

### Contact Rating

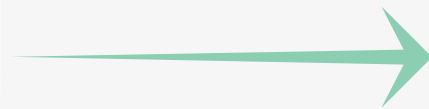
Voltage	120 V	208/240 V
Full Load Amps	12	6
Resistive Amps (277 VAC)	15	15
Inrush Amps	60	35
Horsepower	1/2	1/2

## Pressure Switch

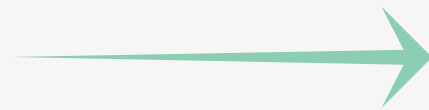
\* High pressure SPST  
open on pressure rise.

\* Low pressure SPST  
open on pressure fall.





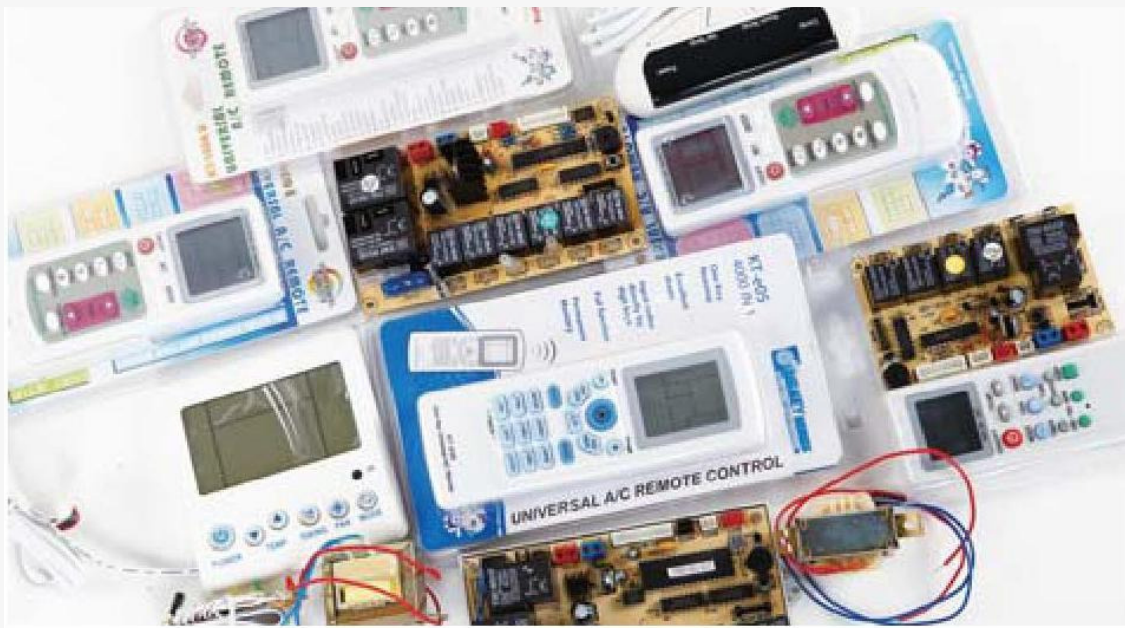
**Fan Relay**



**F2000 / A2000  
Thermostat**



**Thermostat**



## Universal Remote Control System for Air Conditioner



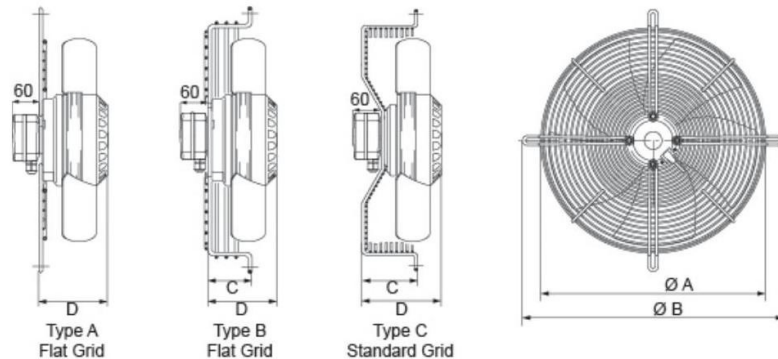
## Spare Valve Core & Core Remover



# Axial Fan

Axial fan is driven by quiet and high-efficient external rotor motor, is widely used in air conditioning and ventilating unit.

## Drawings



- \* Min.working life: 30,000 hours.
- \* Thermal contact protected.
- \* Insulation class: Class B.
- \* Protection class: IP54.
- \* Certificates: CE, UL, CCC



# Shaded Pole Motor



## Accessories for Shaded Pole Motor



# Copper Fitting



# Brass Fitting





## Magnetic Check Valve

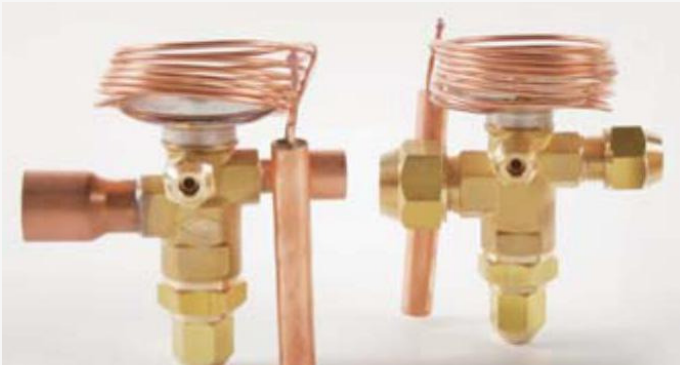
Check valve is normally closed that prevents reverse refrigerant flow in liquid and discharge lines.



## Plunger Check Valve

- \* 100% tested.
- \* Max. working pressure 4.5Mpa.
- \* All CFC, HCFC and HFC are available.
- \* CE Certified.





# Thermostatic Expansion valve

- \* Evap.temp: -40 °C to 10 °C
- \* Able to work under max operating pressure.
- \* CE Certified.



# Capillary Tube

It is equipped with brass nuts. Widely used to connect pressure-switches, gauges and other control devices.





# Thermoplastic Capillary Hose

## Fittings and Accessories

Available in any combination of 1/4" or 3/8" brass SAE flare straight or 90° angel fittings.



90° insert with nut



Straight insert  
with nut



T fitting



Copper gasket



Straight insert



Sleeve

## Assembly Instructions



1. Cut the hose to the required length
2. Put the sleeve onto the hose
3. Slip the nut over the hose, ensure the threaded side toward the end of the hose
4. Push the ferrule over the hose end
5. Push the insert into the hose end
6. Insert the copper gasket
7. Position the ferrule in line with the insert
8. Crimp the ferrule with hand plier



→ **Air Curtain**



→ **AC Axial Fan**



→ **Vacuum Pump**



**Recovery Machine**



**Refrigerant  
Recovery  
Cylinder**



**Charging Station**



The tape is 1/8" thick, 2" wide and 30' long. Each roll is individually packed in plastic bag or cardboard cartons.

## Insulation Foam Tape/Cork Tape



## Non-Adhesive PVC Tape



## Cloth Duct Adhesive Tape



## PVC, PE Adhesive Tape





**Filter Drier**



**Flexible  
PVC Pipe**



**Nylon Tie**



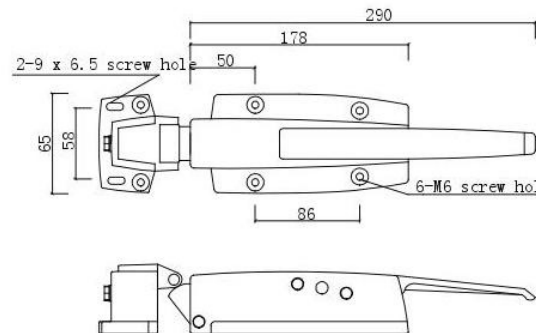
**Aluminum  
Foil Tape**





# Latch & Hinge

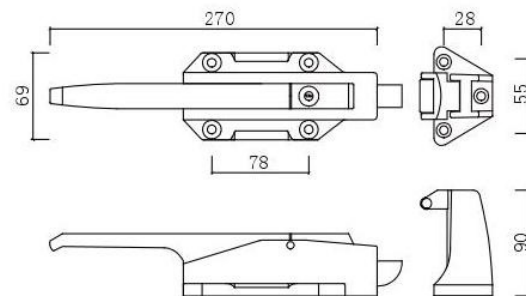
For cold storage applications



## Cam-lift Safety Latch

Model	Material	Remark
CRLH-W38	High pressure die-cast zinc	With lock
CRLH-W38B	High pressure die-cast zinc	No lock

Inside Release Handle	Material	Length
P1	Nylon fiber	105 mm
P3	Stainless steel	150 mm
P4	Iron	160 mm



## Cam-lift Safety Latch

Model	Material	Remark
CRLH-1178	High pressure die-cast zinc	Installation height: 40 – 70 mm





## Cold Storage Panel



## PVC Strip Curtain



Hinged door



Insert hinged door



Sliding door



Automatisme sliding door

## Cold Room Door



# Condensing Unit

# Evaporator

# Condenser

RIGID high-efficient condensing units, air cooled evaporators and condensers come from ... ..



## Line Set Cover

The Covers and Fittings are specially designed to protect exposed connection tubes, electrical cables, wires and drain pipes.





# Insulation Tube and Sheet

The flexible insulation tubes and sheets can be easily installed to pipe or tubing, which provides a highly efficient method of insulating against both heat loss and heat gain.

- High resistance to water vapor
- Flexibility for easy installation
- Low density and closed cell structure to save energy consumption

## Standard Packing

For insulation tube 2 m (or 6 feet) length / piece

I.D. Size		Quantity (Pieces) per Carton				
Inch	mm	1/4" Wall 6 mm	3/8" Wall 9 mm	1/2" Wall 13 mm	3/4" Wall 19 mm	1" Wall 25 mm
1/4	6	300	168	120	48	-
3/8	10	210	120	100	36	30
1/2	13	180	100	80	30	28
5/8	16	140	90	63	30	24
3/4	19	120	72	56	26	20
7/8	22	80	65	42	24	20
1	25	70	49	36	20	18
1-1/8	28	60	49	36	20	18
1-1/4	32	55	42	30	20	16
1-3/8	35	50	36	30	18	15
1-5/8	42	-	30	25	16	12
1-7/8	48	-	28	20	12	10
2	51	-	24	20	12	9
2-1/8	54	-	20	18	12	9
2-3/8	60	-	20	18	9	9
2-5/8	67	-	18	13	8	8
2-7/8	73	-	18	13	8	8
3	76	-	18	12	8	8
3-1/8	80	-	15	12	6	6



## Continuous Sheet Roll

The insulation sheet is an ideal choice when insulating tanks, large pipes or irregular shapes.

Those sheets normally come in rolls, sizes on request.



# Glass Wool Insulation

The glass wool thermal insulation comes with aluminum foil faced, normally supplied in compression packed rolls and easy to cut and install.

- Non-combustible, high absorption of noise
- Long-life & energy saving
- Light weight & maintenance free

## Specification

Density kg/m <sup>3</sup>	Thickness mm	Length m	Width mm	Thermal Conductivity W/mK
12 to 48	25 to 150	10 to 25	1200	0.033 to 0.060



# Aluminum Flexible Duct

This flexible duct is made by laminated fire-resistant aluminum foil and high tensile steel wire helix which can be compressed to 10% of its extended length.

- Duct diameter: 3" to 12.5"
- Standard Length: 10 meter
- Temperature range: -30 °C to +140 °C
- Max. working pressure: 2500 pa