

Committed to becoming a world-class  
manufacturer of advanced refrigeration  
equipment accessories

**Creating one-stop procurement services  
for refrigeration and HVAC applications**

**Office add:** No.68 Xishan Road, Xinbei District,  
Changzhou City, Jiangsu, China

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Industrial Park, Lailong Town, Suyu District, Suqian  
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## **CORPORATE BROCHURE**

**Creating one-stop procurement services  
for refrigeration and HVAC applications**

**Sino Material (jiangsu) Technology Co., Ltd.**



# 01

## COMPANY PROFILE



SINO materials was founded in 2014, and is also a joint venture with SINO-US. We are a professional manufacturer of all different specifications of PE, black rubber and K-FLEX insulated copper pipe for HVAC applications. We also manufacture PVC line set covers and other accessories for use in many different HVAC applications.

All of our insulated copper meets the ASTM B280 and UL94 standards to ensure the quality and integrity of our products. Our manufacturing facility covers more than 300,000 square feet and there are 7 production lines allowing us to satisfy orders quickly and reduce the amount of time it takes for delivery of our products.

We mainly produce pure insulated copper pipe, copper-aluminum insulated pipe, air conditioning corrugated threaded pipe, white PE insulated pipe, black rubber insulated pipe, and also have a wide array of decorative PVC duct covers and fittings.

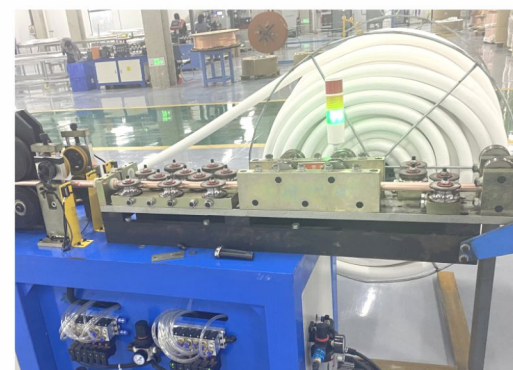
Our products are sold worldwide, mostly for the U.S., Australian, and European markets. Our top priorities are to adhere to the highest quality standards, and to have the highest customer satisfaction for our products. We have created a one-stop procurement service for many different refrigeration and HVAC applications. We manufacture superior quality products to satisfy every order and will cooperate with companies from around the world for the necessary teamwork to achieve the greatest amount of success.



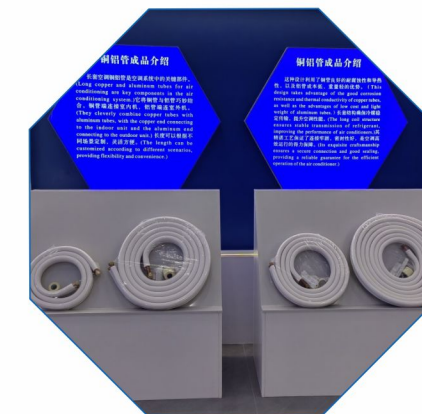
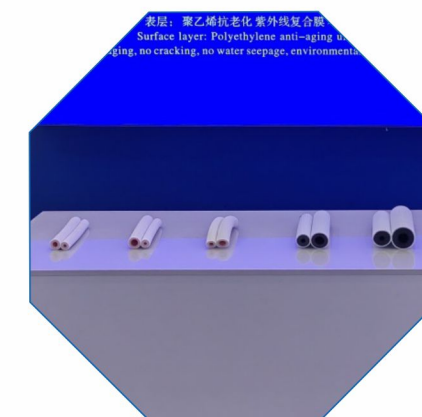
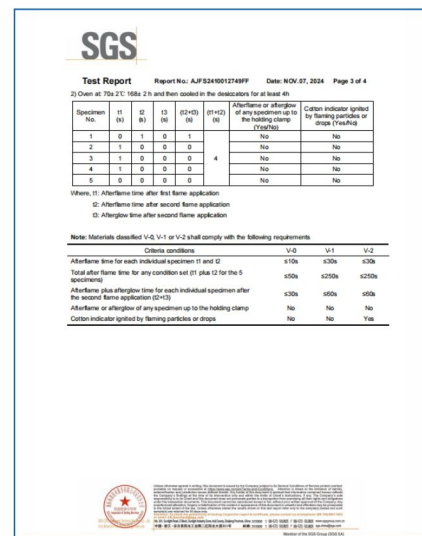
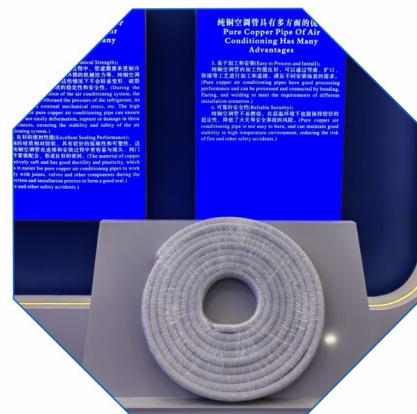
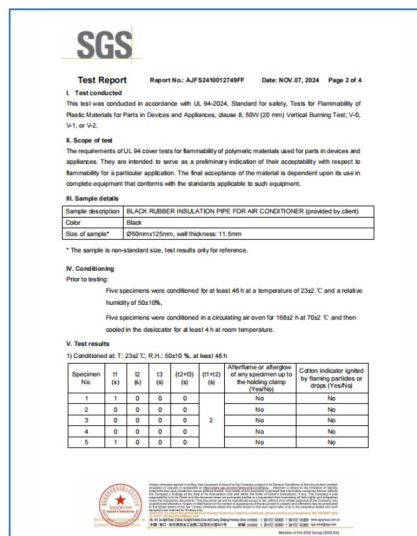
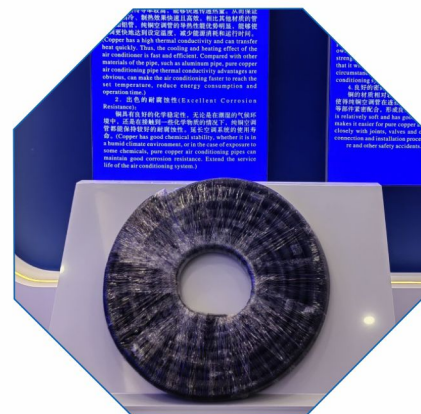
# 02

## COMPANY INTRODUCTION

### Workshop Photos

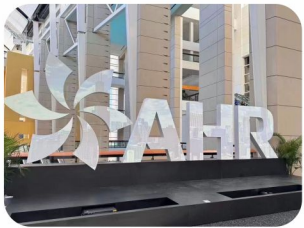
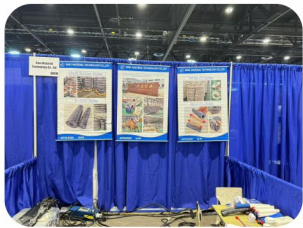




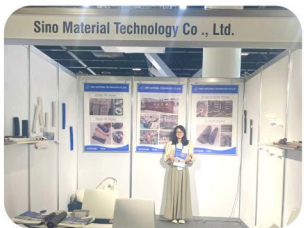
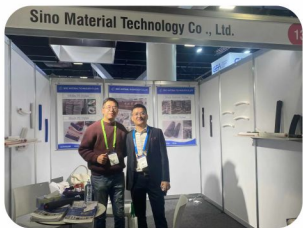
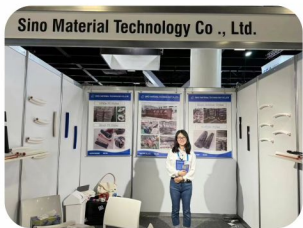




Exhibition photos



2024.1.22-24——AHR EXPO(CHIGAGO)



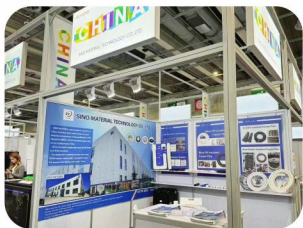
2024.5.28-30—— ARBS 2024 EXHIBITION (ICC Sydney )



2024.9.4-7—— BANGKOK RHVAC 2024 EXHIBITION



2024.9.25-27—— HARFKO 2024 EXHIBITION (Seoul)



2024.9.30-10.3——INTERCLIMA (Paris) EXHIBITION



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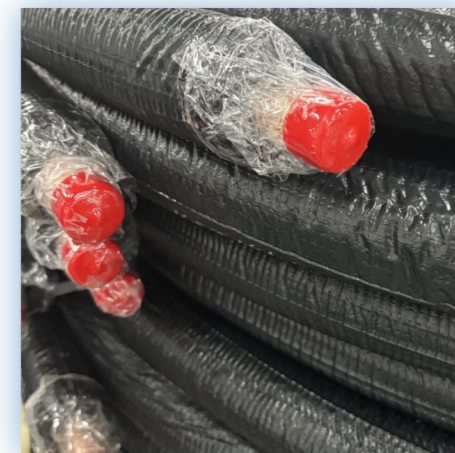
## K-Flex Copper Line Set



K-Flex insulation is an American imported material which is used to cover our copper with a closed cell structure for superior insulation, and to effectively block and minimize heat transfer. The outer layer of the insulation is extremely strong and durable, and is not easily damaged during the equipment installation process.

K-Flex insulation products have great flexibility, leading to quicker, and easier installs. The insulation is also fireproof, waterproof and age resistant, as to not lose much integrity of the product.

It is widely used in the field of HVAC and provides excellent insulation and protection to ensure the equipment runs smoothly and efficiently, reducing costs to both the contractor and the consumer.



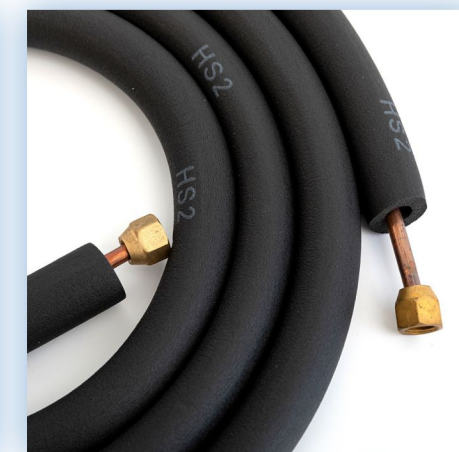
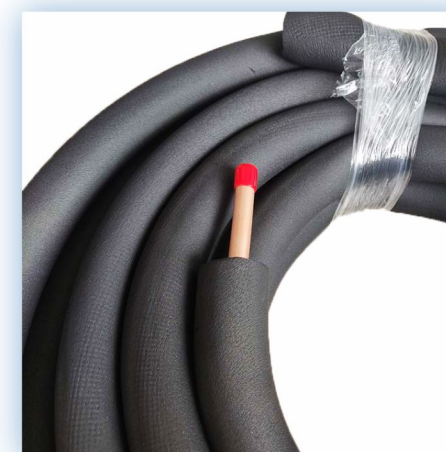


## Black Rubber Copper Line Set



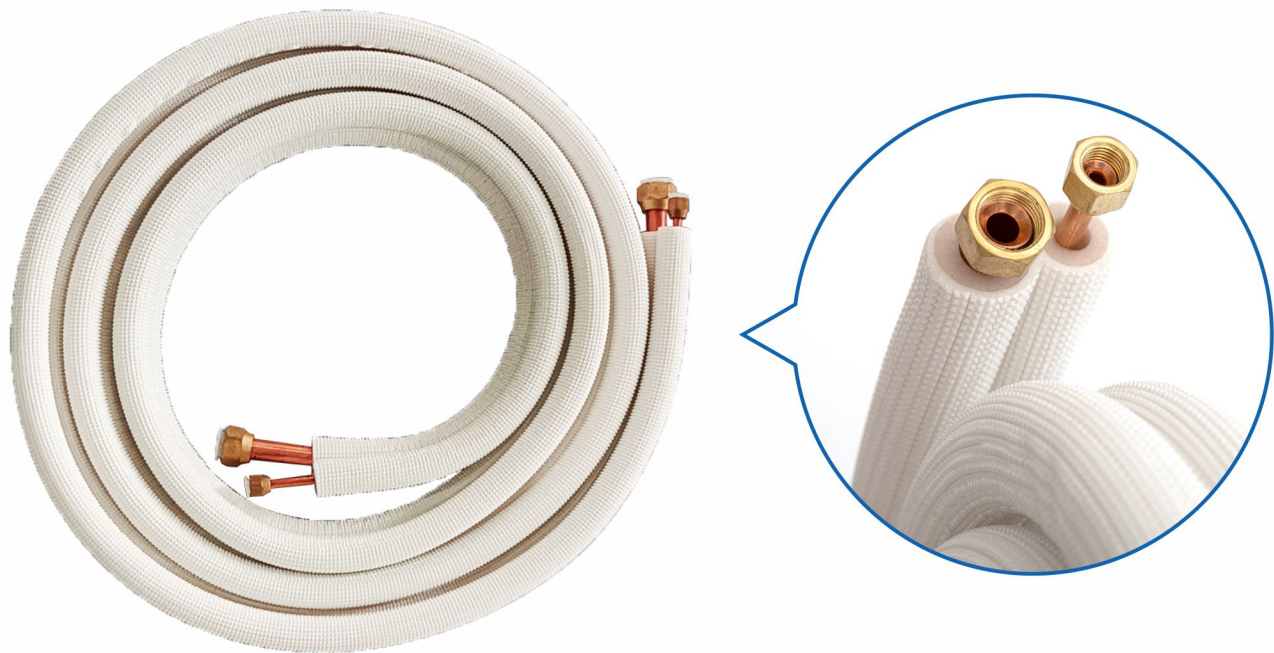
This high quality, B1 class rubber insulation is mainly made of NBR and PVC with a closed cell structure. Again, with excellent insulation and heat resistant properties, this insulation can effectively reduce heat conduction and save energy.

There is very good flexibility with this insulation, making it easy to install and trim to fit for any length or shape of piping. This rubber insulation is also fireproof, waterproof, and helps to reduce aging of the material providing a long service life and reliable insulation protection for HVAC systems.





White/Black PE Copper Line Set

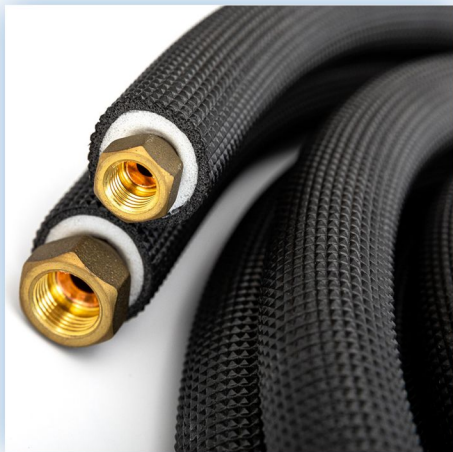


These line sets have a triple layer of protection providing efficiency and durability. There is an inner layer of Polyethylene water bridge with an independent, closed hole, tight insulation with great heat preservation.

A middle layer of dense Polyethylene electronic bridge foam which is both heat and cold resistant, has good heat preservation and high wear resistance. This is both environmentally friendly and flame retardant.



Finally, the surface layer is constructed of Polyethylene, anti-aging, ultraviolet composite film with minimal deterioration, no cracking, no water seepage, environmentally friendly and flame retardant.



Specification	Insulation thickness	Length
1/4"	3/16"-1"	10-164ft
3/8"	3/16"-1"	10-164ft
1/2"	3/16"-1"	10-164ft
5/8"	3/16"-1"	10-164ft
3/4"	3/16"-1"	10-164ft
7/8"	3/16"-1"	10-164ft
1 1/8"	3/16"-1"	10-164ft
1/4"- 3/8"	3/16"-1"	10-164ft
1/4"- 1/2"	3/16"-1"	10-164ft
1/4"-5/8"	3/16"-1"	10-164ft
3/8"-5/8"	3/16"-1"	10-164ft
3/8"-3/4"	3/16"-1"	10-164ft
3/8"-7/8"	3/16"-1"	10-164ft
1/2"-3/4"	3/16"-1"	10-164ft



## Pure Copper Insulated Pipe

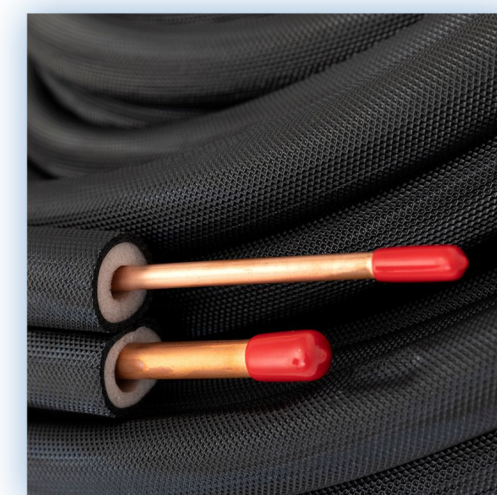


Pure copper pipe in HVAC has many advantages:

1.Excellent Thermal Conductivity - Copper has a high thermal conductivity and can transfer heat quickly. Thus making the cooling and heating of the HVAC equipment fast and much more efficient. Compared with other materials of the pipe, such as aluminum pipe, pure copper air conditioning pipe thermal conductivity advantages are obvious and can achieve a set temperature faster, reducing energy consumption and operation times.

2.Excellent Corrosion Resistance - Copper has good chemical stability whether it is in a humid environment or being exposed to corrosive materials. It maintains good corrosion resistance and extends the life of the HVAC system.

3.High Mechanical Strength - During the installation and operation of the HVAC system, the piping needs to withstand the pressure of the refrigerant, it's own weight and external mechanical stress. The high strength of the pure copper pipe can ensure that it will not easily deform, rupture or damage in these situations, ensuring the stability and safety of the HVAC system.





»»»

Copper Aluminum Insulated Pipe



Copper and Aluminum tubes for HVAC systems are key components. They cleverly combine copper tubes with aluminum tubes, with the copper end connecting to the indoor unit and the aluminum end connecting to the outdoor unit.

The lengths can be customized according to different needs, providing flexibility and convenience. The long coil structure ensures stable transmission of refrigerant, improving the performance of the HVAC systems. It's exquisite craftsmanship ensures a secure connection and a good seal, providing a reliable guarantee for the efficient operation of the air conditioner.



Specification	Insulation thickness	Length
1/4"- 3/8"	3/16"-1"	10-50ft
1/4"- 1/2"	3/16"-1"	10-50ft
1/4"-5/8"	3/16"-1"	10-50ft
3/8"-5/8"	3/16"-1"	10-50ft
3/8"-3/4"	3/16"-1"	10-50ft
3/8"-7/8"	3/16"-1"	10-50ft
1/2"-3/4"	3/16"-1"	10-50ft



»»» Air Conditioning Corrugated Pipe Threaded Pipe



The whole body consists of pure copper material that can be bent at will. It will not break, will not flatten out, has a strong rigidity and good ductility.





## PE Insulation



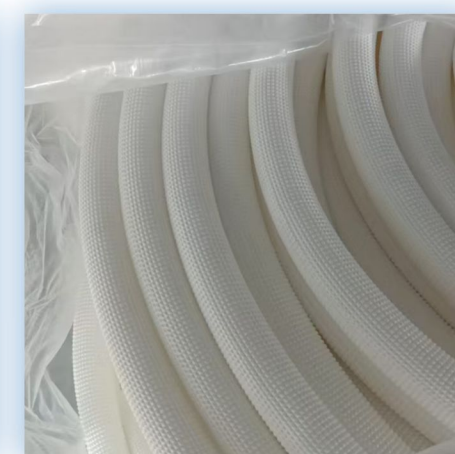
Our PE insulation, the thickness can be customized, can be 5mm-25mm(3/16"-1"), commonly used is 9mm(3/8"), 13mm(1/2"), 19mm(3/4").

Have color white/black/grey/blue...can be chosen and customized.

These insulation have a triple layer. There is an inner layer of Polyethylene water bridge with an independent, closed hole, tight insulation with great heat preservation.

A middle layer of dense Polyethylene electronic bridge foam which is both heat and cold resistant, has good heat preservation and high wear resistance. This is both environmentally friendly and flame retardant.

Finally, the surface layer is constructed of Polyethylene, anti-aging, ultraviolet composite film with minimal deterioration, no cracking, no water seepage, environmentally friendly and flame retardant.







PVC line set covers are an important accessory component for the HVAC system. This provides a space to properly place the line set, making the layout clean and aesthetically pleasing.

The protection provided also helps to preserve the life of the insulation and the copper. These are easily installed and available in different sizes and colors.





In order to meet the different use environments and needs of users, we have developed ZY75,ZY100, ZY130, ZY160, 4 types of decorative pipe groove to suit different air conditioners and requirements.

Pipeline Cover

	A(mm)	B(mm)	C(mm)
ZY75	75(2.95")	65(2.56")	1000(39.37")
ZY100	100(3.94")	65(2.56")	2000(78.74")
ZY130	130(5.12")	95(3.74")	1000(39.37")
ZY160	160(6.30")	150(5.91")	2000(78.74")

Bent Hose

	A(mm)	B(mm)	C(mm)	D(mm)
ZY75	70(2.76")	28(1.10")	475(18.70")	50(1.97")
ZY100	90(3.54")	45(1.77")	665(26.18")	55(2.17")
ZY130	120(4.72")	40(1.57")	830(32.68")	70(2.76")
ZY160	156(6.14")	74(2.91")	850(33.46")	110(4.33")

Wall Cover

	A(mm)	B(mm)	C(mm)	D(mm)
ZY75	75(2.95")	63(2.48")	177(6.97")	98(3.86")
ZY100	100(3.94")	65(2.56")	215(8.46")	130(5.12")
ZY130	130(5.12")	90(3.54")	230(9.06")	155(6.10")
ZY160	160(6.30")	146(5.75")	230(9.06")	200(7.87")

Vertical Elbow

	A(mm)	B(mm)	C(mm)
ZY75	65(2.56")	65(2.56")	90(3.54")
ZY100	65(2.56")	100(3.94")	130(5.12")
ZY130	91(3.58")	130(5.12")	165(6.50")
ZY160	130(5.12")	122(4.80")	170(6.69")

Straight Connector

	A(mm)	B(mm)	C(mm)
ZY75	75(2.95")	65(2.56")	60(2.36")
ZY100	100(3.94")	65(2.56")	65(2.56")
ZY130	130(5.12")	87(3.43")	80(3.15")
ZY160	160(6.30")	122(4.80")	80(3.15")

Horizontal Elbow

	A(mm)	B(mm)	C(mm)
ZY75	75(2.95")	65(2.56")	120(4.72")
ZY100	100(3.94")	65(2.56")	140(5.51")
ZY130	130(5.12")	90(3.54")	165(6.50")
ZY160	160(6.30")	120(4.72")	208(8.19")

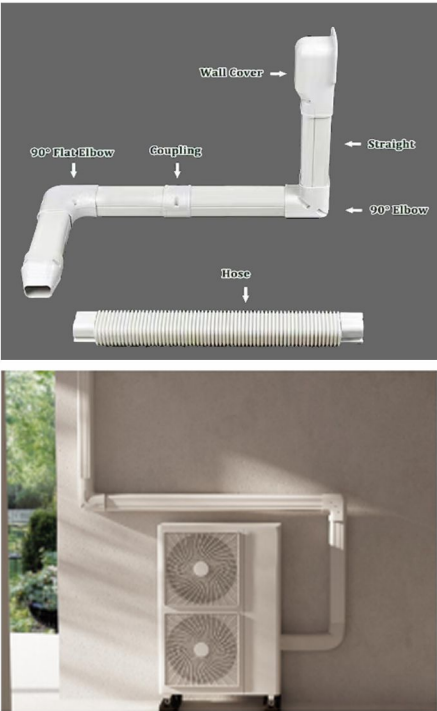
Tee Joint

	A(mm)	B(mm)	C(mm)	D(mm)
ZY130	130(5.12")	90(3.54")	130(5.12")	205(8.07")
ZY160	160(6.30")	124(4.88")	209(8.23")	254(10.00")

End Joint

	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
ZY75	80(3.15")	70(2.76")	97(3.82")	62(2.44")	43(1.69")

- Protect the refrigerant pipe**  
 Protect the refrigerant pipe, prevent the refrigerant pipe and cable being damaged by the outside, extend the service life of the air conditioner.
- Eco friendly**  
 Protect the refrigerant's insulation pipe, efficiently improve heatinsulation,improve the efficiency of air conditioning.
- Landscaping**  
 Decorative groove is easy to install, suitable for professional installation or home self-installation, improving the indoor decoration effect, and beautify the outdoor wall.



Package specifications	Type for AC	Straight duct	Wall cover	Flat Corner	Cover Joint	Flexible Duct	Elbow Corner	End Cover	Ceiling Cap
ZY 75	1.5P-3P	1M*2	1	1	2	1	1	1	1
ZY 100	3P-6P	1M*3	1	1	2	1			
ZY 130	6P-15P	1M*3	1	1	2	1			

# Product Advantages



Protect the refrigerant pipe



Landscaping



ABS+PVC materials

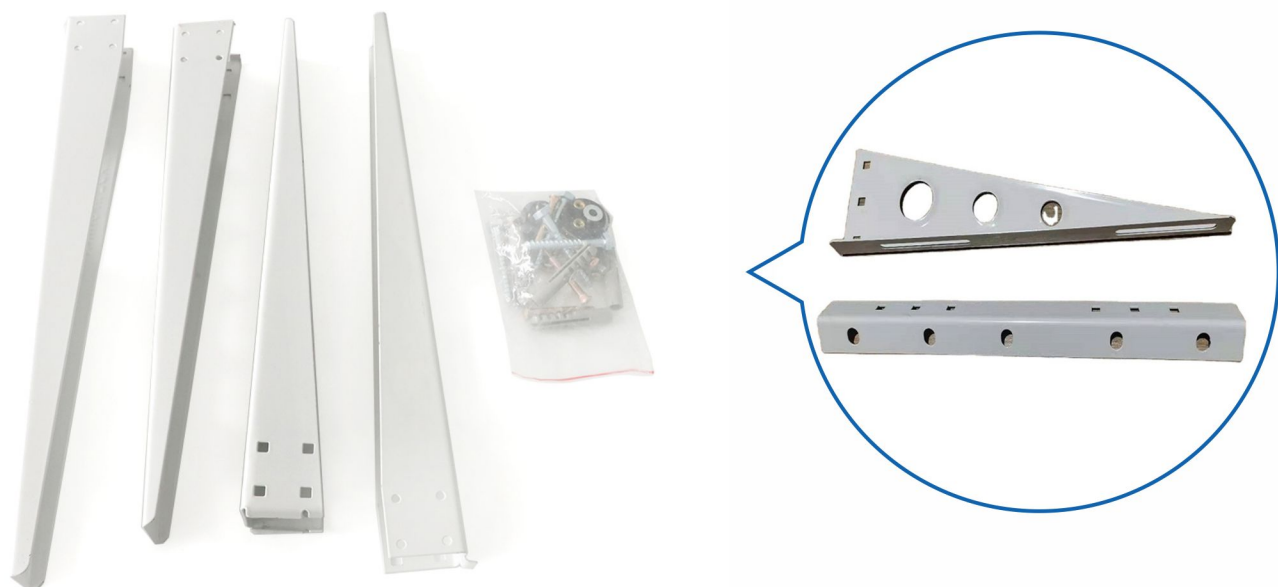


Refused secondary materials



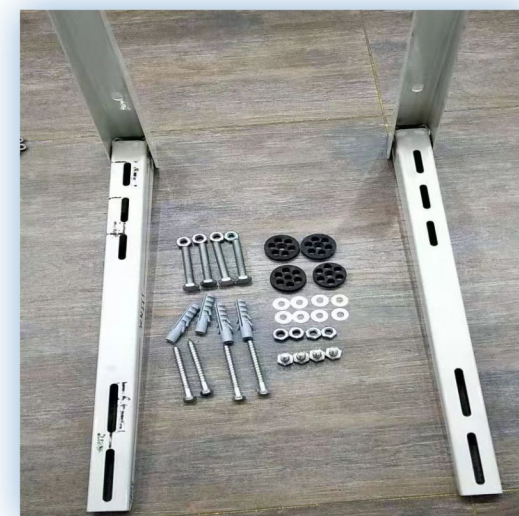


## »»» Air Conditioning Brackets



Air conditioning brackets have many advantages. First of all, the material is mostly made of stainless steel or galvanized steel, which has high strength and corrosion resistance and can adapt to various harsh environments.

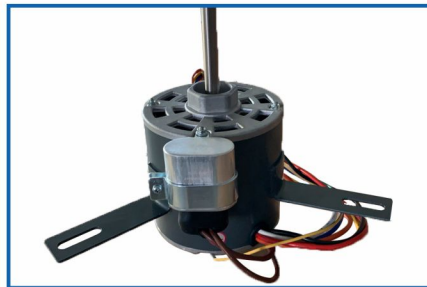
In terms of structure, the reasonable design developed by the company makes it have strong carrying capacity, which can firmly support the outdoor unit of the air conditioner and ensure safety. The precise mounting hole position is convenient and quick installation, suitable for a variety of models, and good versatility. And part of the bracket can be adjusted to flexibly respond to different installation needs, saving installation costs and time.





## Refrigeration Product

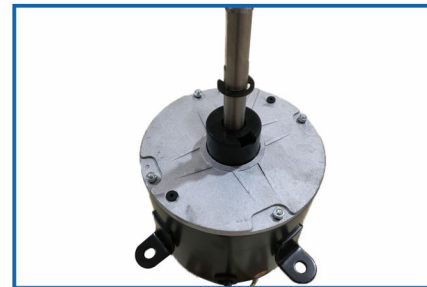
### AC Motor



5KCP29JG E271S



80W YDK120-80-6



145w YDK139-145-8

### AC Capacitor



CBB60



CBB61



Cd60

### Vacuum Pump

New Refrigerant  
Single StageDual-Band Dual-Pressure  
Stage

Pulley-Style Stage Single

## Refrigeration Product

### Electric Box



### Hand Tool



CT-128



CT-364



CT-806AM-F



CT-808



CT-275



CT-532

### Compressor

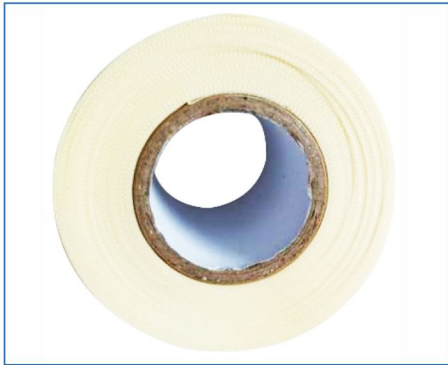




Fittings



Tape  
16\*6000mm (0.05'\*20')



Ribbon  
width:50mm (0.16')



Hole decorative cover  
φ55mm(0.18')



Putty  
100g



Band  
length 200mmx2pcs  
(0.65'\*2pcs)



Nail  
length: 50mmx4pcs  
(0.16'x4pcs)



Hose  
length 10'/pcs



Electric wire  
SJ00W 16/4 AWG  
SJ00W 14/4 AWG



Customer Centricity Team Efficiency

END

