

## General Description:

WOER air conditioner tube set adopt Resistance Welding to effect seamless. 4Mpa air tightness test, no distortion. Burst pressure  $\geq 13$  MPa, no leakage. The leakage rate in weld joint is less than 10ppm. Compared to other Cu-Al connection pipe set suppliers, WOER air conditioner tube set has higher quality and more competitive prices. Random length of our Air conditioner tube set is available. There are 3 types of insulation cottons are available from WOER, economical type (in grey), standard type (in black) and luxury type (in white).



## WOER Technology Advantage:

1. Welding: With resistance welding technology, WOER Cu-Al connection pipe is tested & approved by State Key Laboratory of CONNECTING TECHNIC CENTER of HARBIN INSTITUTE OF TECHNOLOGY <http://en.hit.edu.cn/>. Our Cu-Al connection pipe performs very well during the test of Pull Off, Pressure and Bending, NO not good, Burst Pressure  $\geq 13$  MPa;
2. Inclusive Pipe End Expansion Technology 【WOER patent】 : When ID $\leq 3.2$ mm in size of  $\varnothing 6.35$  air conditioner pipe set, there would come out block phenomenon occasionally. but WOER company adopt Pipe End Expansion technology to ensure the ID of the pipe  $\geq 3.3$ mm, which can meet the requirement of the air conditioner pipe set very well and avoid block phenomenon;
3. Sealing accessories protection 【WOER patent】 : WOER Air conditioner tube set has Hot Melt Adhesive Sleeve(exclusive tech) in the point of weld, which would adhere the WOER Air conditioner tube (i.e. heat shrink tubing) and Cu-Al connection pipe tightly, thus isolate the moisture and prevent corrosion completely;
4. WOER Air conditioner tube 【WOER patent】 : The Cu-Al connection pipe is protected by WOER Air conditioner tube(i.e., heat shrink tubing special for WOER Cu-Al connection pipe), halogen free, anti-corrosion, flame-retardant and environment friendly material, build the dual protection to WOER Air conditioner tube set when work along with Hot Melt Adhesive Sleeve;

## Test Standard:

1. Point of weld: Without pores, cracks, welding tumor, burr, badly burned, no block or obvious narrowing inside;
2. Air tightness: All WOER Air conditioner tube set pass 4Mpa air tightness test;
3. Bend: According to standard test, no crack in 180 angles' bend;
4. Sealing: Air conditioner tube shrinks completely, can't be moved any more after shrink; hot melt adhesive sleeve melts completely, can't be moved any more after melt; cover the entire weld joint;

## **WOER Al-Cu Connection Pipe Set VS Full Cu Pipe Set:**

1. Energy saving: Thermal coefficient of Al is lower than Cu, can decrease the loss when temperature transferring, what's more, WOER Air conditioner tube can make the insulation effect even better;
2. Resources: Given the scarcity of stocks edge (The production of Al ranked the second in metal production), the replacing of has great positive effect to help relieve the shortage of the Cu resource. What's more, the aluminum price is much more stable;
3. Cost savings: Regarding to the tendency of the prices of copper and aluminum, Cu is 4.5 times of Al;
4. Mature technology: WOER Air conditioner tube set can meet the requirement of Cooling pipe completely, tested & approved by State Key Laboratory of CONNECTING TECHNIC CENTER of HARBIN INSTITUTE OF TECHNOLOGY, Experimental results show: No matter in air tightness, bend, corrosion prevention, Mechanical Properties or cleanness of inside of the pipe, all characters can meet the international air conditioner pipe set's requirement completely, has the same performance of full Cu pipe;
5. Easy installation: Except for cutting (Due to the Aluminum's welding performance is not so good, please do NOT cut our Air conditioner tube set.), there are no differences between Cu-Al connection pipe and full Cu pipe in installation. What's more, aluminum has better bend character and lighter than copper, which make the installation easier.
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## Standard Specs

O.D. mm(inch)	Application
Ø6.35(1/4")+Ø9.52(3/8")	1P
Ø6.35(1/4")+Ø12.7(1/2")	1.5P~2P
Ø9.52(3/8")+Ø15.88(5/8")	3P
Ø9.52(3/8")+Ø19.05(3/4")	<5P
Ø12.7(1/2")+Ø19.05(3/4")	5P

**Shenzhen Woer Heat-Shrinkable Material Co.,Ltd.**

Website: <http://en.woer.com> E-mail: [woer@woer.cn](mailto:woer@woer.cn) [woer@woer.com](mailto:woer@woer.com) Fax: +86 755 28299160