



Medistreams Copper Pipe Manufacturer

About Us :

- Medistreams Pipes is a global manufacturer and exporter of premium-quality copper pipes and fittings, meeting international standards.
- We follow a six-step stringent quality inspection process to ensure consistent excellence in production and supply.

Countries we have Reached :

- Saudi Arabia
 - America
 - United Arab Emirates (UAE)
 - Kuwait
 - Indonesia
 - Bahrain
 - Qatar
 - Maldives
- And Many More Other Countries



Production Process

- Copper Cell is Procured
- Cell is Straightened
- Perfect Length Cutting of Cell
- Cell is given the Size from its front Mouth
- Mouth is then placed into a machine where hole pipe's Size is Defined.
- A specific size dia as per Cell Mouth is placed and passed through the Hole Cell with Pressure
- Creating A Pipe of Specific Size
- Then Pickling / Acid Dipping is Done
- Final Cleaning and Polishing is Done

Why Choose Medistreams :

Medistreams is committed to delivering reliable, medical-grade copper piping solutions that meet the highest international standards. Our EN 13348 certified manufacturing, use of high-purity DHP and EC copper grades, and a stringent six-step quality inspection process ensure consistent performance and safety. Each pipe is thoroughly cleaned, degreased, dried, and nitrogen-purged, making it suitable for oxygen and medical gas applications. With ready stock availability and the flexibility to manufacture additional grades on an order basis, combined with our proven global supply experience, Medistreams stands as a trusted partner for healthcare, HVAC, and infrastructure projects worldwide.

Sectors & Grades

SR NO.	Sector	Grade Used
1	HVAC	ASTM B819 EN 13348 BS EN 13348
2	MGPS	ASTM B88 (Type K, L, M) EN 1057 BS EN 1057
3	Renewable Energy & Power	ASTM B68 / B75 EN 12449 BS EN 12449
4	Industrial Applications	ASTM B75 / B251 EN 12449 / EN 12451 BS EN 12449



MGPS

DIMENSION CHART (BS EN 13348)

Description:

- MGPS (Medical Gas Pipeline Systems) uses Copper Pipes with ASTM B88, EN 13348 and EN 1057 .
- Copper pipes used in MGPS must comply with standards such as EN 13348 / ASTM B819 and are cleaned, degreased, dried, and nitrogen-purged to ensure safety for medical gas service.

MGPS Copper Pipes – Packing Process

- End-capped and wrapped to prevent contamination.
- Bundled Securely with dividers for protection
- Labeled & marked with size, standard, and gas type.
- Palletized for safe transport and handling

Chemical Composition

Material	Percentage %
Copper	99.90%
Phosphorous	0.015% – 0.04%



Material Analysis:

- Total Impurities: Maximum 0.060% (excluding phosphorus and silver)
- Copper Melting Point: 1083 °C
- Copper Density: 8.9 g/cm³
- Temper Condition: Half Hard (R250)
- Tensile Strength: Minimum 250 MPa
- Elongation: Minimum 30%
- Hardness (Indicative, HV5): 75 – 100
- Cleanliness - Maximum total carbon content: 0.20 mg/dm²

Dimensions

Nominal OD (mm)	Normal Wall Thickness (R indicates stock with us)								
	0.7	0.8	0.9	1	1.2	1.5	2	2.5	3
10	X	X		X					
12	R	X		X					
14				X					
15	X		R	X	X				
16				X					
18				X	X				
22			R	X	X	X			
28			R	X	X	X			
35				X	R	X	X		
42				X	R	X	X		
54				X	R	X	X		
64							X		
66.7					X		X		
67					R	X	X		
70							X		
76						R	X		
80							X		
88.9							X		
104							X		
108						R		X	
133									

Note: The mentioned thickness is subject to a tolerance of ±10% as per international standards.



HVAC/R

DIMENSION CHART (ASTM B 88)

Description:

- HVAC/R (Heating, Ventilation & Air Conditioning) uses Copper Pipes with ASTM B88 Hard Drawn Copper Pipes for Non VRV/VRF Installations.
- Copper pipes used in HVAC must comply with standards such as ASTM B88 and are cleaned, dried and Proper pressure rating and wall thickness.

HVAC Copper Pipes – Packing Process

- End-capped and wrapped to prevent contamination.
- Bundled Securely with dividers for protection
- Labeled & marked with size, standard, Pressure and Wall thickness.
- Palletized for safe transport and handling

Chemical Composition

Material	Percentage %
Copper	99.90%
Phosphorous	0.015% – 0.04%



NON – VRV HVAC:

- Non-VRV HVAC copper pipes are designed for conventional air-conditioning and chilled water systems.
- Manufactured from high-purity Cu-DHP copper, they provide excellent thermal conductivity and corrosion resistance.
- Suitable for AHU, FCU, ductable split and package units, ensuring reliable performance.
- Produced as per ASTM B88 / EN 1057, available in hard and annealed tempers.

Dimensions

Sr No	Size (mm)	Size (Inches)	Temper	SWG	Thickness (mm)	Length (ft)	Weight per Meter	Internal Radius (mm)	Max Working Pressure (MPa)	Bursting Pressure (MPa)
1	6.4	1/4"	1/2H	22 swg	0.7	10	0.112	2.4	45.6	83.3
2	9.4	3/8"	1/2H	21 swg	0.8	10	0.193	3.95	27.7	50.6
3	12.7	1/2"	1/2H	21 swg	0.8	10	0.267	5.55	19.7	36
4	15.9	5/8"	1/2H	21 swg	0.8	10	0.338	7.45	15.3	28
6	19.1	3/4"	1/2H	20 swg	0.9	10	0.459	8.75	12.5	22.9
7	22.2	7/8"	1/2H	20 swg	0.9	10	0.537	10.3	10.6	19.4
8	25.4	1"	1/2H	20 swg	0.9	10	0.617	11.82	10.2	18.6
9	28.6	1-1/8"	1/2H	19 swg	1	10	0.773	13.3	10.3	18.8
10	31.8	1-1/4"	1/2H	19 swg	1	10	0.862	14.8	10.2	18.6
11	34.9	1-3/8"	1/2H	18 swg	1.2	10	1.132	16.24	10.2	18.6
12	38.1	1-1/2"	1/2H	18 swg	1.2	10	1.24	17.73	10.2	18.6
13	41.3	1-5/8"	1/2H	18 swg	1.2	10	1.347	19.22	10.2	18.6



HVAC/R

DIMENSION CHART (ASTM B 88)

Description:

- HVAC/R (Heating, Ventilation & Air Conditioning) uses Copper Pipes with ASTM B88 Hard Drawn Copper Pipes for VRV/VRF Installations.
- Copper pipes used in HVAC must comply with standards such as ASTM B88 and are cleaned, dried and Proper pressure rating and wall thickness.

HVAC Copper Pipes – Packing Process

- End-capped and wrapped to prevent contamination.
- Bundled Securely with dividers for protection
- Labeled & marked with size, standard, Pressure and Wall thickness.
- Palletized for safe transport and handling

Chemical Composition

Material	Percentage %
Copper	99.90%
Phosphorous	0.015% – 0.04%



Material Analysis:

- Total Impurities: Maximum 0.060% (excluding phosphorus and silver)
- Copper Melting Point: 1083 °C
- Copper Density: 8.9 g/cm³
- Temper Condition: Hard Drawn/Soft Annealed
- Tensile Strength: Minimum 290 Mpa (Hard), 205 Mpa (Soft)
- Elongation: Minimum 3% (Hard), 40% (Soft)
- Hardness (Indicative, HV5): >100 HV (Hard), <60 HV (Soft)
- Cleanliness - Bore quality meets the 0.038g/m² ASTM B280 specified limit

Dimensions

Sr No	Size (mm)	Size (Inches)	Temper	SWG	Thickness (mm)	Length (ft)	Weight per Meter	Internal Radius (mm)	Max Working Pressure (MPa)	Bursting Pressure (MPa)
1	6.4	1/4"	1/2H	21 swg	0.8	10	0.126	2.4	45.6	83.3
2	9.4	3/8"	1/2H	21 swg	0.8	10	0.196	3.95	27.7	50.6
3	12.7	1/2"	1/2H	21 swg	0.8	10	0.268	5.55	19.7	36
4	15.9	5/8"	1/2H	21 swg	0.8	10	0.339	7.45	15.3	28
5	15.9	5/8"	1/2H	19 swg	1	10	0.419	6.95	19.7	36
6	19.1	3/4"	1/2H	21 swg	0.8	10	0.411	8.75	12.5	22.9
7	22.2	7/8"	1/2H	21 swg	0.8	10	0.484	10.3	10.6	19.4
8	25.4	1"	1/2H	20 swg	0.88	10	0.606	11.82	10.2	18.6
9	28.6	1-1/8"	1/2H	19 swg	1	10	0.776	13.3	10.3	18.8
10	31.8	1-1/4"	1/2H	19 swg	1.1	10	0.949	14.8	10.2	18.6
11	34.9	1-3/8"	1/2H	18 swg	1.21	10	1.145	16.24	10.2	18.6
12	38.1	1-1/2"	1/2H	18 swg	1.32	10	1.364	17.73	10.2	18.6
13	41.3	1-5/8"	1/2H	17 swg	1.43	10	1.602	19.22	10.2	18.6

Note: The mentioned thickness is subject to a tolerance of ±10% as per international standards.



HVAC/R

DIMENSION CHART (ASTM B 280)

Description:

- HVAC/R (Heating, Ventilation & Air Conditioning) uses Copper Pipes with ASTM B280 Soft Annealed Copper Tubes for Air Conditioning and Refrigeration (for VRV and Non VRV Installations)
- Copper pipes used in HVAC must comply with standards such as ASTM B280 and are cleaned, dried and Proper pressure rating and wall thickness.

HVAC Copper Pipes – Packing Process

- End-capped and wrapped to prevent contamination.
- Bundled Securely with dividers for protection
- Labeled & marked with size, standard, Pressure and Wall thickness.
- Palletized for safe transport and handling

Chemical Composition

Material	Percentage %
Copper	99.90%
Phosphorous	0.015% – 0.04%



Material Analysis:

- Total Impurities: Maximum 0.060% (excluding phosphorus and silver)
- Copper Melting Point: 1083 °C
- Copper Density: 8.9 g/cm³
- Temper Condition: Half Hard (R250)
- Tensile Strength: Minimum 250 MPa
- Elongation: Minimum 30%
- Hardness (Indicative, HV5): 75 – 100
- Cleanliness - Maximum total carbon content: 0.20 mg/dm²

Dimensions

LIGHT WEIGHT – NON VRV / VRF INSTALLATIONS – SOFT COIL FORM

Sr No	Size (mm)	Size (Inches)	SWG	Thickness (mm)	Length (ft)	Approx Weight per Coil	Internal Radius (mm)	Max Working Pressure (MPa)	Bursting Pressure (MPa)
1	6.4	1/4"	23G	0.6	50	1.5	2.6	9.5	47.3
2	9.5	3/8"	23G	0.6	50	2.5	4.15	6	29.6
3	12.7	1/2"	22G	0.7	50	3.5	5.65	5.1	25.4
4	15.9	5/8"	22G	0.7	50	4.5	7.25	4	19.8
5	19.1	3/4"	21G	0.8	50	6.4	8.75	3.8	18.7

SPECIFIC REQUIREMENT FOR VRF / VRV INSTALLATIONS – SOFT COIL FORM

Sr No	Size (mm)	Size (Inches)	Temper	Thickness (mm)	Length (ft)	Approx Weight per Coil	Internal Radius (mm)	Max Working Pressure (MPa)	Bursting Pressure (MPa)
1	6.4	1/4"	O (Coil)	0.8	50	1.92	2.4	13.8	68.3
2	9.5	3/8"	O (Coil)	0.8	50	2.98	3.95	8.4	41.5
3	12.7	1/2"	O (Coil)	0.8	50	4.08	5.55	6	29.5
4	15.9	5/8"	O (Coil)	1	50	6.38	6.95	5.9	29.5
5	19.1	3/4"	O (Coil)	1	50	7.75	8.55	4.8	24

Note: The mentioned thickness is subject to a tolerance of ±10% as per international standards.



Copper Pipe

Type L

Description:

- Copper Type L tubing is a medium-wall copper pipe designed for reliable performance in plumbing, HVAC, and medical gas applications.
- It offers excellent corrosion resistance, pressure strength, and compatibility with soldered, brazed, and press-fit joints under ASTM B88 standards.



Material Analysis:

- Total Impurities: Maximum 0.060% (excluding phosphorus and silver)
- Copper Melting Point: 1083 °C
- Copper Density: 8.9 g/cm³
- Temper Condition: Hard
- Tensile Strength: ≥ 250 MPa
- Elongation: 10-15%
- Hardness (Indicative, HV5): 75 – 100
- Cleanliness - Maximum total carbon content: 0.20 mg/dm²

HVAC Copper Pipes – Packing Process

- End-capped and wrapped to prevent contamination.
- Bundled Securely with dividers for protection
- Labeled & marked with size, standard, Pressure and Wall thickness.
- Palletized for safe transport and handling

Chemical Composition

Material	Percentage %
Copper	99.90%
Phosphorous	0.015% – 0.04%

Dimensions

Size ID	Size OD	ID (MM)	OD (MM)	Thickness	Length	Weight per MTR	Weight per Pipe
1 3/4"	1 7/8"	44.45	48	1.6MM	3 MTR	2.13 Kgs	6.39 Kgs