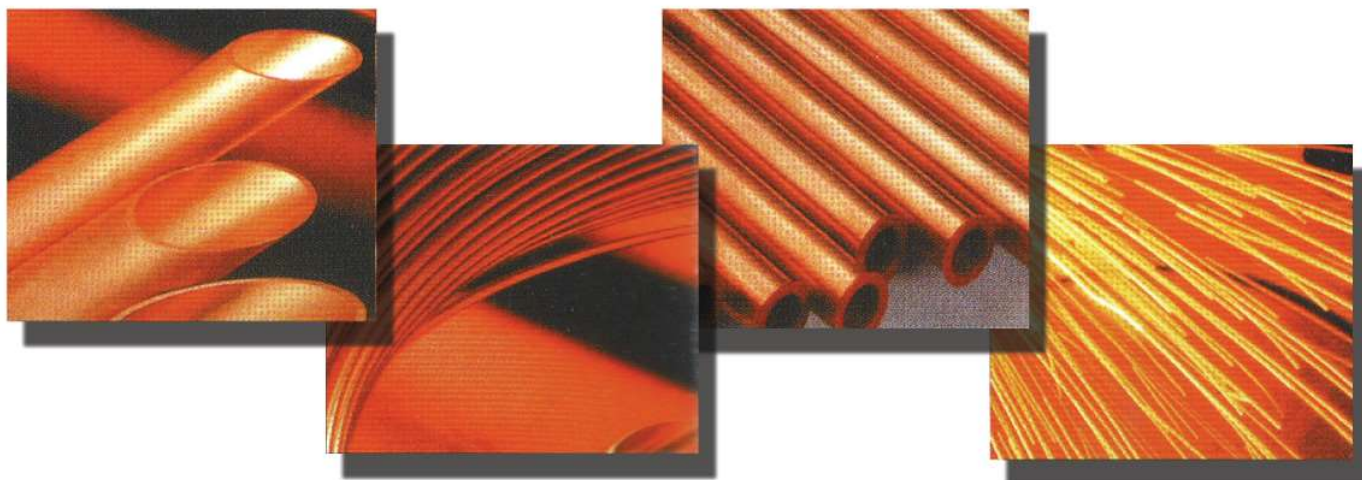


COPPER TUBES & FITTINGS





What is Source 1

SOURCE 1 is a One-Stop Shop for

- Aftermarket Parts and Accessories for HVAC & R Equipment
- Air-conditioning Installation Materials / Hardware / Safety Tools / Ducting Materials

We endeavour to bring together good quality items that will fit and service any brand and type of these Equipment / Products.

It will offer many product lines from top suppliers under the supplier brand names, in addition to the items house-branded SOURCE 1, qualified to Aikon Supplies strict quality requirements.

- | | |
|---|---|
| 1. Acid / Moisture Test Kits | 24. Measuring Meters |
| 2. Air Filters / Washable Media Filters Rolls | 25. Manifold Gauges / Sets |
| 3. Actuators (Motorized/Modulating) | 26. Motors |
| 4. Bearings | 27. Mounting Brackets |
| 5. Blowers and Fans | 28. Pulleys |
| 6. Cables, Wires and Electrical Accessories | 29. Refrigeration Controls |
| 7. Capacitors | 30. Refrigerants |
| 8. Chemicals | 31. Refrigerant Recovery Systems |
| 9. Chiller Barrels | 32. Safety Products (Helmet/Harness/Vest) |
| 10. Coils - Condenser and Evaporator | 33. Sealants |
| 11. Compressors (full range and many brands) | 34. Shafts |
| 12. Condensate Drain Pans (Water Tray) | 35. Sheet Metals |
| 13. Condensing Units | 36. Tape and Foil |
| 14. Contactors | 37. Theromostats |
| 15. Copper Tubes | 38. Thermocouples |
| 16. Ducting Materials (Rockwool / Fibreglass) | 39. Thermometers |
| 17. Aluflex Flexible Duct | 40. Timers and Time Delay / Relays |
| 18. Filter Driers and Cores | 41. Tools |
| 19. Fittings (Copper and PVC) | 42. Transformers |
| 20. Instruments | 43. Trunking / Conduits |
| 21. Insulation Tubes, Sheets and Materials | 44. Valves |
| 22. Leak Detector / Reactants | 45. V-Belts |
| 23. Lubricants / Oils | 46. Welding Rods and Tools |



Manufactured to ASTM Standard



CHEMICAL COMPOSITION					
Standard	Copper Alloy No.	Chemical Composition (%)		Related Standard	Application
		Cu	P		
ASTM-B280	C12200 (DHP)	99.90% min	0.015-0.040%	BS 2871 DIN 1787 JIS H 3300 KS D5301	Air Conditioning Refrigeration

MECHANICAL PROPERTIES					
Temper	Tensile Strength psi (kg/mm ²)	Elongation in 2" (%)	Rockwell Hardness		Grain Size (mm)
			Scale	Hardness	
Hard Drawn (H)	45,000 min (32 min)	-	30 T	55 min	-
Drawn (1/2 H)	36,000 min (25 min)	-	30T	30 min	-
Light Drawn (1/4 H)	36,000 min (25 min)	-	30T	30-60	-
Light Annealed (OL)	30,000 min (21 min)	40 min	*15 T F	65 max. 55 max.	.040 max.
Soft Annealed (O)	30,000 min (21 min)	40 min	*15 T F	50 max. 50 max.	.040 min.

- Rockwell 15T scale shall apply to tubes having a wall thickness of 0.015 to 0.035 in. (0.381 to 0.889 mm) and F scale shall apply to tubes having a wall thickness of 0.035in. (0.889mm) and over.



Seamless Copper ACR Pancake Coils

Soft annealed and manufactured to the standard
of ASTM B280

OD mm x THK mm x 15m LENGTH		OD" x SWG x 50' LENGTH	NO. of COILS PER CARTON	NO. of COILS PER TON	THEORETICAL WEIGHT/COIL (KG)
4.76	0.51	3/16 x 25	16	1,098	0.91
4.76	0.56	3/16 x 24	16	1,012	0.99
4.76	0.61	3/16 x 23	16	940	1.07
7.94	0.51	5/16 x 25	10	628	1.60
7.94	0.56	5/16 x 24	10	735	1.74
7.94	0.61	5/16 x 23	10	537	1.88
7.94	0.71	5/16 x 22	10	464	2.155
6.35	0.51	1/4 x 25	12	799	1.25
6.35	0.56	1/4 x 24	12	734	1.37
6.35	0.61	1/4 x 23	12	697	1.48
6.35	0.71	1/4 x 22	12	595	1.68
9.52	0.51	3/8 x 25	9	518	1.94
9.52	0.56	3/8 x 24	9	474	2.11
9.52	0.61	3/8 x 23	9	438	2.29
9.52	0.71	3/8 x 22	9	380	2.63
12.7	0.51	1/2 x 25	7	382	2.62
12.7	0.56	1/2 x 24	7	350	2.86
12.7	0.61	1/2 x 23	7	322	3.11
12.7	0.71	1/2 x 22	7	279	3.59
12.7	0.91	1/2 x 20	7	221	4.52
15.88	0.56	5/8 x 24	5	277	3.61
15.88	0.61	5/8 x 23	5	255	3.92
15.88	0.71	5/8 x 22	5	221	4.54
15.88	0.81	5/8 x 21	5	195	5.14
15.88	0.91	5/8 x 20	5	174	5.74
19.05	0.71	3/4 x 22	3	182	5.49
19.05	0.81	3/4 x 21	3	161	6.22

SOURCE 1 supplies the full range of HVAC&R Copper Tubes. Please contact SOURCE 1 for tube diameters and wall thicknesses not found in this table.



Seamless Copper ACR Straight Pipes

Hard tempered and manufactured to the standard
of ASTM B280

OD mm x THK mm x 5.8M LENGTH		OD" x SWG x 5.8M LENGTH	NO. of PIPES PER TON	THEORETICAL WEIGHT/COIL (KG)
6.35	0.51	1/4 x 25	2,067	0.48
6.35	0.56	1/4 x 24	1,899	0.53
6.35	0.61	1/4 x 23	1,754	0.57
6.35	0.71	1/4 x 22	1,538	0.65
9.52	0.61	3/8 x 23	1,133	0.88
9.52	0.71	3/8 x 22	984	1.02
12.7	0.61	1/2 x 23	834	1.20
12.7	0.71	1/2 x 22	723	1.38
12.7	0.81	1/2 x 21	639	1.56
15.88	0.61	5/8 x 23	632	1.51
15.88	0.71	5/8 x 22	571	1.75
19.05	0.71	3/4 x 22	472	2.11
19.05	0.81	3/4 x 21	416	2.40
22.2	0.71	7/8 x 22	403	2.48
22.20	0.81	7/8 x 21	354	2.81
25.40	0.71	1.0 x 22	351	2.85
25.40	0.81	1.0 x 21	309	3.23
25.40	0.91	1.0 x 20	276	3.62
28.58	0.71	1-1/8 x 22	311	3.21
28.58	0.81	1-1/8 x 21	273	3.65
28.58	0.91	1-1/8 x 20	244	4.09
34.93	0.81	1-3/8 x 21	222	4.49
34.93	0.91	1-3/8 x 20	198	5.03
34.93	1.22	1-3/8 x 18	150	6.68
41.28	0.91	1-5/8 x 20	167	5.97
41.28	1.22	1-5/8 x 18	126	7.94
53.98	0.91	2-1/8 x 20	127	7.84
53.98	1.15	2-1/8 x 19	101	9.87
53.98	1.22	2-1/8 x 18	96	10.45
66.68	1.15	2-5/8 x 19	92	12.24
66.68	1.22	2-5/8 x 18	77	12.97
79.38	1.50	3-1/8 x 1.50MM	52	18.97
104.78	1.50	4-1/8 x 1.50MM	40	25.16

SOURCE 1 supplies the full range of HVAC&R Copper Tubes. Please contact SOURCE 1 for tube diameters and wall thicknesses not found in this table.



Copper ACR Fittings

Manufactured to the standard of ASTM B280



Copper 90 Deg Elbow



Copper Socket

Size	MM	Size	MM
1/4"	6.35	1/4"	6.35
3/8"	9.53	3/8"	9.53
1/2"	12.7	1/2"	12.7
5/8"	15.88	5/8"	15.88
3/4"	19.05	3/4"	19.05
7/8"	22.22	7/8"	22.22
1"	25.40	1"	25.40
1-1/8"	28.58	1-1/8"	28.58
1-3/8"	34.93	1-3/8"	34.93
1-5/8"	41.28	1-5/8"	41.28
2-1/8"	53.98	2-1/8"	53.98
2-5/8"	66.68	2-5/8"	66.68
3-1/8"	79.38	3-1/8"	79.38
4-1/8"	104.78	4-1/8"	104.78



Copper Tee



Copper 45 Deg Elbow

Size	MM	Size	MM
1/4"	6.35	1/4"	6.35
3/8"	9.53	3/8"	9.53
1/2"	12.7	1/2"	12.7
5/8"	15.88	5/8"	15.88
3/4"	19.05	3/4"	19.05
7/8"	22.22	7/8"	22.22
1"	25.40	1"	25.40
1-1/8"	28.58	1-1/8"	28.58
1-3/8"	34.93	1-3/8"	34.93
1-5/8"	41.28	1-5/8"	41.28
2-1/8"	53.98	2-1/8"	53.98
2-5/8"	66.68	2-5/8"	66.68
3-1/8"	79.38	3-1/8"	79.38
4-1/8"	104.78	4-1/8"	104.78

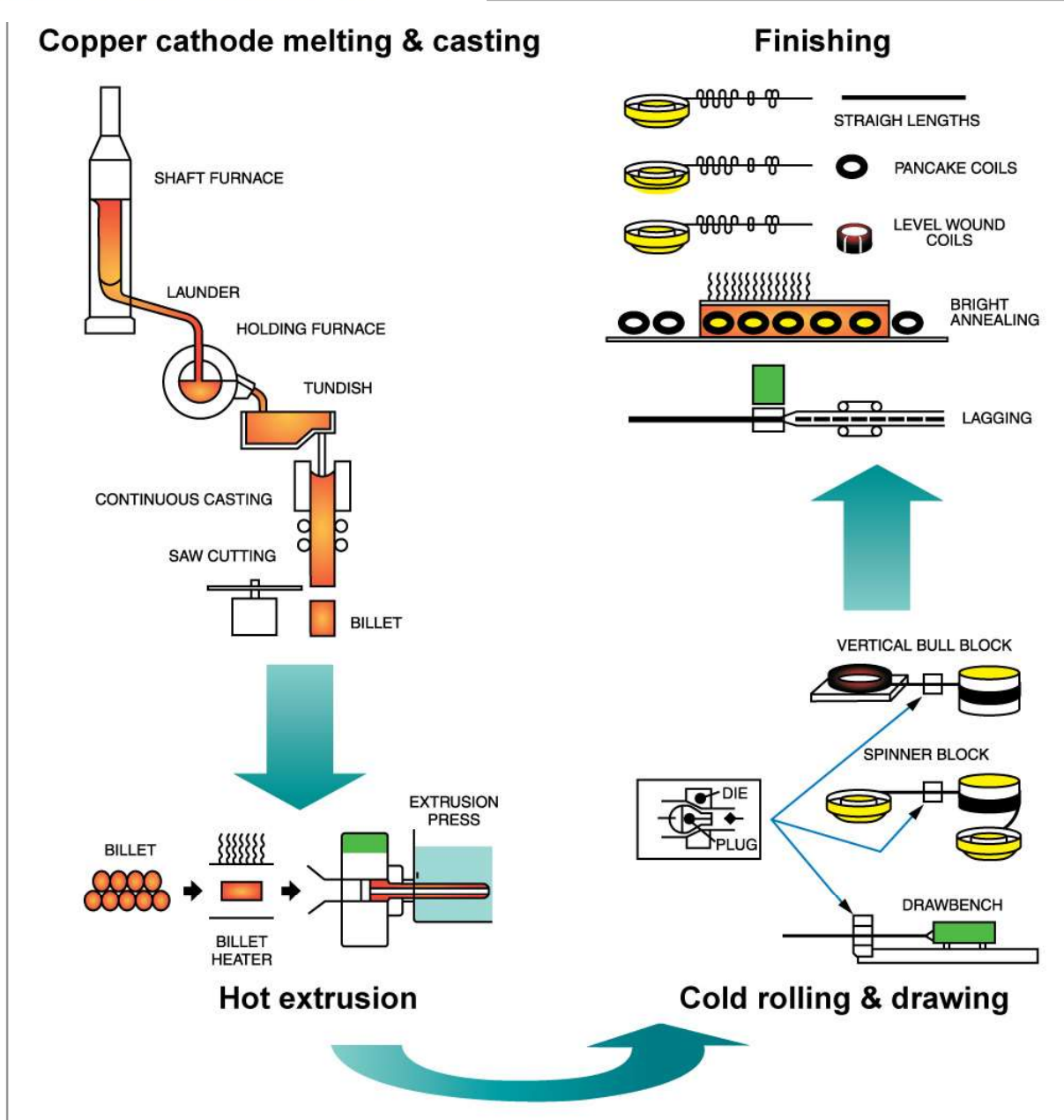
SOURCE 1 supplies the full range of HVAC&R Copper Fittings. Please contact SOURCE 1 for sizes not found in this table.



SOURCE1

HVAC&R Parts & Accessories

Manufacturing Process



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