



AZMA INTERNATIONAL
Your Complete HVAC-R Solution Partner

COMPANY PROFILE - REFRIGERATION

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INDEX

S.No	PRODUCTS	Pg.No
1	Copper Products	1-6
2	Brazing Items	7-8
3	Refrigerants	9
4	Refrigeration Oils	10
5	Compressors- Scroll / Reciprocating- Hermetic / Semi- Hermetic / Screw / Rotary	11-15
6	Compressor Spare Parts	16-17
7	Condensing Units	18
8	Evaporators	19
9	Heat Exchanger Coils	20
10	Chillers & Freezers	20
12	Refrigeration & AC Spare Parts	21-23
12	ACR – Service & Maintenance parts	24-25
13	Fans & Blower Motors	25

About Us



www.azmaintl.com

Azma International, with its strategic presence in Jebel Ali Free Zone and Mainland, Dubai-UAE, is a professionally managed and rapidly growing company offering a comprehensive range of HVAC and Refrigeration products — all under one roof.



Our primary objective is to provide customers with a convenient one-stop solution through a continuously expanding selection of genuine, high-quality, and reliable products at competitive prices. We are committed to upholding the highest industry standards while meeting customer requirements efficiently and promptly.


Founded by a team of industry professionals with over two decades of expertise in the HVAC-R industry, Azma International has been serving clients across the Middle East and African region.

Driven by innovation and a sense of responsibility as a leading player in the field, we constantly seek modernization and technological advancement to deliver superior value to our customers. Our pursuit of excellence transcends borders — we continuously evolve, expand, and enhance our offerings to ensure exceptional product quality and outstanding customer service.



Azma International proudly collaborates with major global brands by offering a full range of HVAC-R products at highly competitive rates. Our customer-centric and professional approach ensures complete satisfaction and long-term partnerships.

We welcome customers and business partners worldwide to join hands with Azma International — a company built on the values of genuineness, quality, trust, and reliability — as we move together toward a brighter and more sustainable future.

 **TRUST**
trustworthiness and reliability in every aspect of our business. 

 **GENUINNESS**
we pave the way for successful collaborations and mutual growth. 

 **QUALITY**
ensuring that every product we offer meets the highest standards. 

 **RELIABILITY**
guaranteeing peace of mind for everyone we work with. 

ASSOCIATED BRANDS

LS Metal

 **SAMPO**
INDUSTRIAL Co.,Ltd

rime.



Danfoss

embraco




A LINCOLN ELECTRIC COMPANY

Honeywell

GMCC

Copeland
brand products

Rockwell

SUNISO



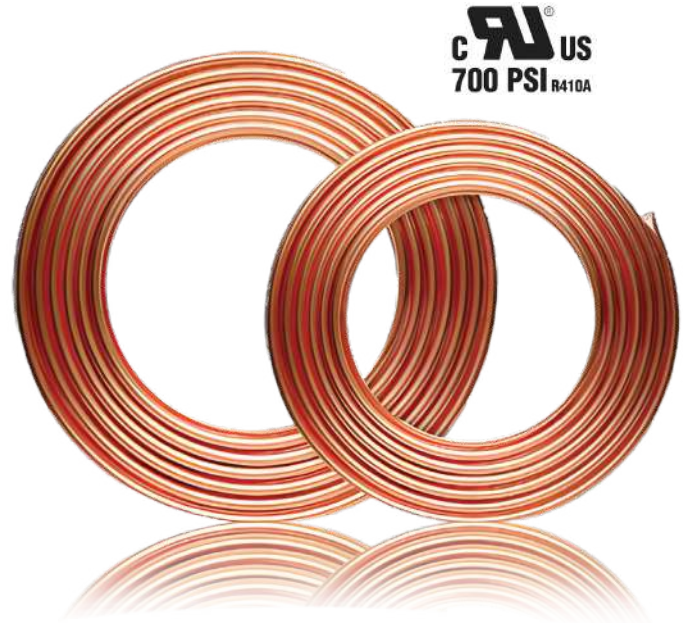
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VALUE

COPPER PRODUCTS

Pancake Coils

Pancake Coil Copper Tube (PCC) is intended for use in the connection, repairs, or alterations of air conditioning or refrigerator units in the field. We supply Pancake tube in accordance with specifications given in ASTM Standards (B88, B280) and European Norm standards (EN12735) and other general norms.



Product	Temper	Length	Uses	Specifications
Copper Refrigeration Tube	Soft	50 ft. coils 100 ft. coils	Manufacture, installation and maintenance of refrigeration and air conditioning equipment.	ASTM-B280 ASTM-B743 JIS-H3300 AS-1571 EN-12735-1

	Actual Size in Inches	Outside diameter			Wall Thickness			Theoretical Weight	
		inch	mm	Tolerance (inch)	inch	mm	Tolerance (inch)	lb/ft	kg/m
Coil type - Standard	1/4	0.25	6.35	0.002	0.03	0.762	0.003	0.0804	0.12
	5/16	0.312	7.92	0.002	0.032	0.813	0.003	0.109	0.162
	3/8	0.375	9.52	0.002	0.032	0.813	0.003	0.134	0.199
	1/2	0.5	12.7	0.002	0.032	0.813	0.003	0.182	0.271
	5/8	0.625	15.9	0.002	0.035	0.889	0.004	0.251	0.373
	3/4	0.75	19.1	0.0025	0.035	0.889	0.004	0.305	0.454
	3/4	0.75	19.1	0.0025	0.042	1.07	0.004	0.362	0.539
	7/8	0.875	22.2	0.003	0.045	1.14	0.004	0.455	0.677

Standard – ASTM B 280

According to the EN standards, the Pancake tube has good bending properties for use in utility supplies such as plumbing installations, gas transport networks, air conditioning systems, and refrigerant piping. These products are usually supplied in the annealed form. All coils are cleaned and capped to prevent contaminants from entering. These are individually labeled, shrink-wrapped, and boxed in cardboard cartons for ease of handling and distribution.

	Outer Diameter	Outer Diameter	Wall Thickness	Wall Thickness
	inch	mm	inch	mm
Coil type - Economy	3/16	4.76	0.024	0.61
	1/4	6.35	0.024	0.61
	5/16	7.94	0.024	0.61
	3/8	9.53	0.024	0.61
	1/2	12.7	0.028	0.71
	5/8	15.88	0.028	0.71
	3/4	19.05	0.032	0.81
	7/8	22.23	0.040	1.02

Standard - ASTM B 743

	Outer Diameter	Outer Diameter	Wall Thickness	Wall Thickness
	inch	mm	inch	mm
Coil type - Low Economy	1/4	6.35	0.020	0.51
	3/8	9.53	0.022	0.56
	1/2	12.7	0.024	0.61
	5/8	15.88	0.026	0.65
	3/4	19.05	0.028	0.71
	7/8	22.23	0.030	0.76

Standard - ASTM B 280 - Low Eco

COPPER PRODUCTS

Straight Lengths

Straight copper tubes manufactured to ASTM B 280 Type L ACR standard are used for air conditioning & refrigeration industries, electrical industries and sanitary purposes. The Straight length Seamless Copper Tubes with high precision, ultra clean surfaces, bright finish, even structure, high efficient heat exchanging, welding easily, corrosion resistant and good for mobility & straight length with high electrical conductivity could be supplied.



C  **US**
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Product	Temper	Lengths	Uses	Specifications
Type K Copper Water Tube, (heavy wall)	Hard	12ft straight 20ft straight	Domestic water service and distribution, fire protection, solar, fuel/fuel oil HVAC, snow melting, compressed air, natural gas, liquified petroleum (LP) gas, vacuum	ASTM-B88 JIS H3300 AS-1432
	Soft	12ft straight 50ft coils 100ft coils		
Type L Copper Water Tube, (heavy wall)	Hard	20ft straight	Domestic water service and distribution, fire protection, solar, fuel/fuel oil, HVAC, snow melting, compressed air, natural gas, liquified petroleum(LP) gas, vacuum	ASTM-B88 JIS-H3300 AS-1432
	Soft	20ft coils 50ft coils		
Type M Copper Water Tube, (heavy wall)	Hard	20ft straight	General plumbing and heating purposes; drainage waste, vent and other light pressure uses.	ASTM-B88 JIS-H3300 AS-1432

Available Standards – ASTM B 280 Type L ACR / ASMT B 280 ECO / ASTM B 88 Type K, L & M / EN 1057- Type X & Type Y

ASTM B88 & EN 1057 standard copper pipes are used for hot and cold-water distribution systems, gas in sanitary & heating applications. Made from high-grade copper, ASTM B88/EN 1057 copper pipes offer superior corrosion resistance and heat transfer capabilities. They can be used in high-pressure applications such as plumbing, HVAC systems, and irrigation. These copper pipes are available in a variety of sizes and wall thicknesses that make them ideal for any project or application. Whether you're looking for an efficient way to deliver hot or cold water, you can trust ASTM B88/EN 1057 copper pipes to provide superior performance. Quality materials, ease of installation, durability, and longevity make these pipes the top choice for residential, commercial, and industrial applications.

Straight Lengths

Straight Length Copper Tube ASTM B280 / ASTM B280 Type L ACR	Actual Size in Inches	Outside diameter			Wall Thickness			Theoretical Weight		ASTM B 280 - ECO/B 743
		inch	mm	Tolerance (inch)	inch	mm	Tolerance (inch)	lb/ft	kg/m	
		3/8	0.375	9.52	0.001	0.03	0.762	0.003	0.126	
1/2	0.5	12.7	0.001	0.035	0.889	0.004	0.198	0.295	3/8" x 0.61mm x 5.8 mtr	
5/8	0.625	15.9	0.001	0.04	1.02	0.004	0.285	0.424	1/2" x 0.61mm x 5.8 mtr	
3/4	0.75	19.1	0.001	0.042	1.07	0.004	0.362	0.539	5/8" x 0.71 mm x 5.8 mtr	
7/8	0.875	22.2	0.001	0.045	1.14	0.004	0.455	0.677	3/4" x 0.89 mm x 5.8 mtr	
1 1/8	1.125	28.6	0.0015	0.05	1.27	0.005	0.655	0.975	7/8" x 0.81mm x 5.8 mtr	
1 3/8	1.375	34.9	0.0015	0.055	1.4	0.006	0.884	1.32	1 1/8" x 0.91mm x 5.8 mtr	
1 5/8	1.625	41.3	0.002	0.06	1.52	0.006	1.14	1.7	1 3/8" x 1.02mm x 5.8 mtr	
2 1/8	2.125	54	0.002	0.07	1.78	0.007	1.75	2.6	1 5/8" x 1.07mm x 5.8 mtr	
2 5/8	2.625	66.7	0.002	0.08	2.03	0.008	2.48	3.36	2 1/8" x 1.50mm x 5.8 mtr	
3 1/8	3.125	79.4	0.002	0.09	2.29	0.009	3.33	4.96		
3 5/8	3.625	92.1	0.002	0.1	2.54	0.01	4.29	6.38		
4 1/8	4.125	105	0.002	0.11	2.79	0.011	5.38	8.01		

Type K (STRAIGHT, DRAWN) ASTM B88	Nominal Size in Inches	Actual Size in Inches	Outside diameter			Wall Thickness			Theoretical Weight	
			inch	mm	Tolerance (inch)	inch	mm	Tolerance (inch)	lb/ft	kg/m
			1/4	3/8	0.375	9.52	0.001	0.035	0.89	0.0035
3/8	1/2	0.500	12.7	0.001	0.049	1.24	0.005	0.269	0.4	
1/2	5/8	0.625	15.9	0.001	0.049	1.24	0.005	0.344	0.512	
5/8	3/4	0.750	19.1	0.001	0.049	1.24	0.005	0.419	0.624	
3/4	7/8	0.875	22.2	0.001	0.065	1.65	0.006	0.639	0.953	
1	1 1/8	1.125	28.6	0.0015	0.065	1.65	0.006	0.838	1.25	
1 1/4	1 3/8	1.375	34.9	0.0015	0.065	1.65	0.006	1.034	1.54	
1 1/2	1 5/8	1.625	41.3	0.002	0.072	1.83	0.007	1.359	2.03	
2	2 1/8	2.125	54.0	0.002	0.083	2.11	0.008	2.060	3.07	
2 1/2	2 5/8	2.625	66.7	0.002	0.095	2.41	0.01	2.922	4.36	
3	3 1/8	3.125	79.4	0.002	0.109	2.77	0.011	3.996	5.96	
3 1/2	3 5/8	3.625	92.1	0.002	0.120	3.05	0.012	5.112	7.62	
4	4 1/8	4.125	104.8	0.002	0.134	3.40	0.013	6.500	9.69	
5	5 1/8	5.125	130.2	0.002	0.160	4.06	0.016	9.654	14.4	
6	6 1/8	6.125	155.6	0.002	0.192	4.88	0.019	13.843	20.64	

Type L (STRAIGHT, DRAWN) ASTM B88	Nominal size in inches	Actual Size in Inches	Outside diameter			Wall Thickness			Theoretical Weight	
			inch	mm	Tolerance (inch)	inch	mm	Tolerance (inch)	lb/ft	kg/m
			1/4	3/8	0.375	9.52	0.001	0.030	0.76	0.003
3/8	1/2	0.500	12.7	0.001	0.035	0.89	0.004	0.198	0.295	
1/2	5/8	0.625	15.9	0.001	0.040	1.02	0.004	0.285	0.425	
5/8	3/4	0.750	19.1	0.001	0.042	1.07	0.004	0.362	0.54	
3/4	7/8	0.875	22.2	0.001	0.045	1.14	0.004	0.453	0.676	
1	1 1/8	1.125	28.6	0.0015	0.050	1.27	0.006	0.654	0.975	
1 1/4	1 3/8	1.375	34.9	0.0015	0.055	1.40	0.006	0.881	1.31	
1 1/2	1 5/8	1.625	41.3	0.002	0.060	1.52	0.006	1.142	1.7	
2	2 1/8	2.125	54.0	0.002	0.070	1.78	0.007	1.749	2.61	
2 1/2	2 5/8	2.625	66.7	0.002	0.080	2.03	0.008	2.475	3.69	
3	3 1/8	3.125	79.4	0.002	0.190	2.29	0.009	3.32	4.95	
3 1/2	3 5/8	3.625	92.1	0.002	0.100	2.54	0.01	4.284	6.39	
4	4 1/8	4.125	104.8	0.002	0.114	2.79	0.011	5.368	8.01	
5	5 1/8	5.125	130.2	0.002	0.125	3.18	0.012	7.596	11.33	
6	6 1/8	6.125	155.6	0.002	0.140	3.56	0.014	10.183	15.19	

Type M (STRAIGHT, DRAWN) ASTM B88	Nominal size in inches	Actual Size in Inches	Outside diameter			Wall Thickness			Theoretical Weight	
			inch	mm	Tolerance (inch)	inch	mm	Tolerance (inch)	lb/ft	kg/m
			3/8	1/2	0.500	12.7	0.001	0.025	0.64	0.002
1/2	5/8	0.625	15.9	0.001	0.028	0.71	0.003	0.203	0.303	
3/4	7/8	0.875	22.2	0.001	0.032	0.81	0.003	0.327	0.488	
1	1 1/8	1.125	28.6	0.0015	0.035	0.89	0.004	0.464	0.692	
1 1/4	1 3/8	1.375	34.9	0.0015	0.042	1.07	0.004	0.68	1.01	
1 1/2	1 5/8	1.625	41.3	0.002	0.049	1.24	0.006	0.939	1.4	
2	2 1/8	2.125	54.0	0.002	0.058	1.47	0.006	1.457	2.17	
2 1/2	2 5/8	2.625	66.7	0.002	0.065	1.65	0.006	2.023	3.02	
3	3 1/8	3.125	79.4	0.002	0.072	1.83	0.007	2.672	3.98	
3 1/2	3 5/8	3.625	92.1	0.002	0.083	2.11	0.008	3.573	5.33	
4	4 1/8	4.125	104.8	0.002	0.095	2.41	0.01	4.653	6.94	
5	5 1/8	5.125	130.2	0.002	0.109	2.77	0.011	6.644	9.91	
6	6 1/8	6.125	155.6	0.002	0.122	3.01	0.012	8.9	13.27	



CRAI[®] US
700 PSI R410A



LWC Coils



LWC tubes are normally produced according to ASTM & European Norm specifications. These specifications were prepared to take account of the requirements of ACR industry. Level Wound Coils are especially suited to long production runs for industrial applications and it is widely applied to the Air Conditioning & Refrigeration as well as the Heat Exchanger field. Each millimeter of tubes is 100% Eddy-Current tested and any surface defects found will be clearly marked by black color. LWC copper tubes are supplied in the form of “Eye to the Wall or Sky” form as per customer request. During the Annealing process the inside and outside tube is normal cleaned with Nitrogen purging.

Level Wound Coils are most supplied in the soft and light annealed form, also they can be ordered in hard drawn temper.

Available Standards – ASTM B 68, B 75 & B 88

General Specifications							
Sizes		Material	Temper		Coil Weight	Form of Packing	
Outside Diameter (mm) 4 – 19.05	Wall Thickness (mm) 0.28 – 1.20	Cu: 99.90% Phosphorous: 0.015-0.040%	Light Annealed (O50)	Soft Annealed (O60)	80-400 (kg)	With Bobbin	Bobbin-less
		C12200 DHP (ASTM B68, B75, B88, B903)				Cardboard & Wooden Reels	Cardboard
		Cu - DHP (EN 12735, En 12449)	Also Can be supplied in Hard Drawn temper		Stacked on pallets and shrink wrapped		

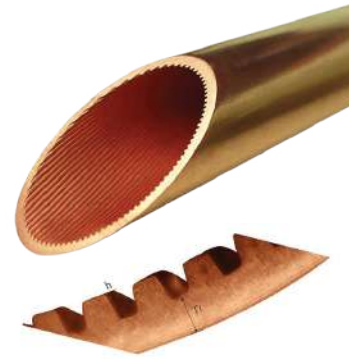
Applications: Air Conditioning units and heat exchanger industries, Refrigeration and general engineering applications.

Products Range															
W.T. O.D.	mm	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.63	0.7	0.76	0.8	0.9	1	1.2
mm	inch	0.012	0.014	0.016	0.018	0.020	0.022	0.024	0.025	0.028	0.030	0.031	0.035	0.039	0.047
4	----			✓	✓	✓	✓	✓	✓	✓	✓	✓			
4.76	3/16			✓	✓	✓	✓	✓	✓	✓					
6.35	1/4		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
7.93	5/16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
9.52	3/8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
12	----		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
12.7	1/2		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15.87	5/8			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16	----					✓	✓	✓	✓	✓	✓	✓	✓	✓	
18	----							✓	✓	✓	✓	✓	✓	✓	
19.05	3/4							✓	✓	✓	✓	✓	✓	✓	

Note: Other sizes can be made as per customer requirement according to mutual agreement.

Inner Grooved Copper Tube

Inner Grooved copper are used to improve the heat transfer characteristics of tube, the inner surface of the tube is provided with spirally running grooves. Increased internal surface area, turbulent flow of refrigerant and uniform distribution of refrigerant around the periphery of tube cause increment of efficiency. Heat transfer coefficient of these tubes is about 1.8-2 time of the same specification of plain tube. It is widely applied in Air Conditioning and Refrigeration Industries, which are in conformance with the developing tendency of the air conditioner to high efficiency, energy saving, environment-friendly and healthy.



General Specifications

Outside Diameter (mm)	Temper		Coil Weight	Delivery Form
5.00 - 15.87	Light Annealed O50 (ASTM B75,B68,B903)	Hard Drawn H85 (ASTM B75,68,B903)	80 – 170 Kg	LWC and Straight length

Application: Air Conditioning & Refrigeration Industry

Range of Grooving patterns



Specification of Inner Grooved Tubes

Specification	Outside Diameter OD (mm)	Bottom Wall Thickness TW (mm)	Groove Depth Hf (mm)	Apex Angle α (degree)	Helix Angle β (degree)	Number of Tooth (Num.)	Unit Weight (gr/m)
$\Phi 5.00 \times 0.20 + 0.15$	5.00 ^{+0.05}	0.20 ^{+0.03}	0.15 ^{+0.02}	40 ⁻²⁷	18 ⁺²²	40	34
$\Phi 7.00 \times 0.22 + 0.10$	7.00 ^{+0.05}	0.22 ^{+0.03}	0.10 ^{+0.02}	40 ⁻²⁷	15 ⁺²²	65	47
$\Phi 7.00 \times 0.23 + 0.14$		0.23 ^{+0.03}	0.14 ^{+0.03}	40 ⁻²⁷	18 ⁺²²	58	54
$\Phi 7.00 \times 0.25 + 0.10$		0.25 ^{+0.03}	0.10 ^{+0.02}	40 ⁻²⁷	18 ⁺²²	65	52
$\Phi 7.00 \times 0.25 + 0.18$		0.25 ^{+0.03}	0.18 ^{+0.02}	40 ⁻²⁷	18 ⁺²²	50	58
$\Phi 7.00 \times 0.28 + 0.15$		0.28 ^{+0.03}	0.15 ^{+0.02}	40 ⁻²⁷	18 ⁺²²	50	62
$\Phi 7.93 \times 0.28 + 0.15$		7.93 ^{+0.05}	0.28 ^{+0.03}	0.15 ^{+0.02}	40 ⁻²⁵	18 ⁺²²	50
$\Phi 9.52 \times 0.27 + 0.16$	9.52 ^{+0.05}	0.27 ^{+0.03}	0.16 ^{+0.02}	40 ⁻²⁷	18 ⁺²²	70	82
$\Phi 9.52 \times 0.28 + 0.12$		0.28 ^{+0.03}	0.12 ^{+0.02}	40 ⁻²⁷	18 ⁺²²	65	80
$\Phi 9.52 \times 0.28 + 0.15$			0.15 ^{+0.02}	40 ⁻²⁷	18 ⁺²²	60	86
$\Phi 9.52 \times 0.28 + 0.20$		0.20 ^{+0.03}	53 ⁻²⁷	18 ⁺²²	60	89	
$\Phi 9.52 \times 0.30 + 0.20$		0.30 ^{+0.03}	0.20 ^{+0.03}	53 ⁻²⁷	18 ⁺²²	60	95
$\Phi 9.52 \times 0.34 + 0.15$		0.34 ^{+0.03}	0.15 ^{+0.02}	50 ⁻²⁷	18 ⁺²²	60	103
$\Phi 9.52 \times 0.34 + 0.20$		0.34 ^{+0.03}	0.20 ^{+0.02}	50 ⁻²⁷	18 ⁺²²	60	111
$\Phi 9.52 \times 0.45 + 0.20$		0.45 ^{+0.04}	0.20 ^{+0.03}	48 ⁻²⁷	18 ⁺²²	60	132
$\Phi 12.00 \times 0.41 + 0.20$	12.00 ^{+0.05}	0.41 ^{+0.04}	0.20 ^{+0.03}	65 ⁻²⁷	18 ⁺²²	60	156
$\Phi 12.70 \times 0.35 + 0.25$	12.70 ^{+0.05}	0.35 ^{+0.03}	0.25 ^{+0.03}	53 ⁻²⁷	18 ⁺²²	65	155
$\Phi 12.70 \times 0.45 + 0.20$		0.45 ^{+0.04}	0.20 ^{+0.03}	53 ⁻²⁷	18 ⁺²²	50	180
$\Phi 15.87 \times 0.40 + 0.30$	15.88 ^{+0.05}	0.40 ^{+0.04}	0.30 ^{+0.03}	53 ⁻²⁷	18 ⁺²²	60	218
$\Phi 15.87 \times 0.45 + 0.30$		0.45 ^{+0.04}	0.30 ^{+0.03}	53 ⁻²⁷	18 ⁺²²	75	239
$\Phi 15.87 \times 0.55 + 0.25$		0.55 ^{+0.05}	0.25 ^{+0.02}	53 ⁻²⁷	18 ⁺²²	60	295
$\Phi 15.88 \times 0.63 + 0.20$		0.63 ^{+0.05}	0.20 ^{+0.03}	53 ⁻²⁷	18 ⁺²²	75	316

Note: Other sizes can be manufactured as per customer requirement with mutual agreement.

Fittings – Copper & Brass



We offer a complete range of copper and brass fitting including end feed copper fittings, copper press fittings, solder ring copper fittings, ACR copper fittings, brass compression fittings, brass solder fittings, brass thread fittings, and PEX fittings. Copper pipe fittings are ideal for plumbing and ACR pipe installation and offer a speedy, convenient solution for amateurs and professionals alike. Brass fittings are the collective name for the parts of the piping system that play a role in connecting, controlling, diverting, diverting, sealing, supporting, etc. The main categories are elbow, direct, reducer, and tee. Used to connect copper pipes, iron pipes, PPR pipes, ABS pipes, etc.

- Wide range of sizes
- Wrought copper, Press, Soldering ring, Brass range selection
- Cleaned and bagged, customized package available
- For residential, commercial plumbing and HVAC systems



Azma International for Copper Pancake Coils, Straight Length, Copper & Brass Fittings deals with major brands like LS Metal, rime from Vietnam & Sampo from Korea & all kind of sizes & models are available upon request.

Brands



BRAZING ALLOYS & FLUXES

The Harris Products Group is a world leader in metal working products used in the brazing, soldering, welding, cutting and gas distribution industries.



HARRIS® 0



This low-cost alloy is suitable for most copper-to-copper or brass joints where good fit-up exists, and the assemblies are not subject to excessive vibration nor movement.

STAY-SILV® 2



This economical, low silver alloy, is designed to broaden the melting range of Harris 0, and has proven useful in some specific applications where mechanical properties are less critical.

STAY-SILV® 5



Stay-Silv® 5 This medium range alloy is well suited where close fit-up cannot be maintained. This filler metal is somewhat more ductile than Harris 0 or Stay-Silv 2

STAY-SILV® 15



Stay-Silv®15 This is a very strong and formidable brazing filler metal and is excellent for situations in which close fit-up does not exist, and where thermal expansion and service vibration are involved.

STAY-SILV® 45



These high-silver brazing alloys are commonly used for brazing joints on HVAC equipment, drill bits, machine parts, and other items that will be subject to high vibration.

BLOCKADE



BLOCKADE® is a phosphorus-tin-silicon alloy engineered to provide a low cost alternative to silver bearing filler metals. It is self fluxing on copper and its lower melting temperature makes it an excellent choice for brass. BLOCKADE flows rapidly but can be used to "cap" brazed joints.

The Harris Products Group is a world leader in metalworking products used in the brazing, soldering, welding, cutting, and gas distribution industries. The company was formed in 2006 with the merger of Harris Calorific, Inc., a manufacturer of gas welding and cutting equipment and gas regulation and distribution systems, and the J.W. Harris Co., a manufacturer of brazing and soldering alloys and welding consumables. The Harris Products Group currently operates manufacturing facilities in Mason, Ohio, USA; Gainesville, Georgia, USA; Dzierzonow, Poland, and Sao Paulo, Brazil. Each is ISO 9001 certified for quality management systems.

Azma International for Brazing items deals with major brand like Harris from USA.

All models are available upon request.



Brand



Refrigerants



Azma International offers different brands of refrigerants to cater Heating, Ventilation, Air Conditioning and refrigeration industries, offering a wide range of products like HCFCs, HFCs, HCs, Natural refrigerants and MAPP Gas.

We supply high-purity hydrocarbons in the refrigerants, pharmaceutical, industrial, electronics, agricultural and chemical industries. Refrigerants Trading portfolio contains products with different performance characteristics that meet the diverse needs of everyone in the HVACR industry.

Applications

- Refrigerant Gases for Car AC Systems
- Refrigerants for Commercial and Residential AC Systems
- Refrigerants for Industrial AC Systems

R134A - R410A - R404A - R407C - R32 - R507A - R417A - R600A - R290 - R22 - R141B - AC Flush Gas

Azma International for Refrigerants deals with major brands like Honeywell- USA, Refron-India, Floron-India & Chinese origin. All models are available upon request.

Brands

Honeywell



Chinese Origin

Refrigeration Oils



Refrigeration Oils are developed for refrigeration compressors and systems requiring ozone-friendly HFC refrigerants. These Environmental Awareness Lubricants are developed to give:

- Excellent evaporator cleanliness.
- Less compressor wear.
- Low-temperature fluidity.
- High system efficiency and proper oil return in refrigeration system designs.

Applications include:

- Household refrigeration such as refrigerators, freezers, air conditioners, and heat pumps.
- Industrial applications such as food preparation and freezing, as well as cryogenic applications.
- Commercial refrigeration applications such as business, mall and hotel air conditioning, and low- temperature transportation.

Azma International for Refrigeration Oils deals with major brands like Suniso & all models are available upon request.

Brands





AZMA INTERNATIONAL



COMPRESSORS

www.azmaintl.com



A scroll compressor (also called a spiral compressor), is a device for compressing air or refrigerant. Many residential central HP and A/C systems employ a scroll compressor instead of the more traditional rotary and reciprocating compressors.

A scroll compressor uses two interleaving scrolls to pump, compress or pressurize fluids such as liquids and gases. The vane geometry may be involutes, Archimedean spiral or hybrid curves. Often, one of the scrolls is fixed, while the other orbits eccentrically without rotating, thereby trapping and pumping or compressing pockets of fluid between the scrolls.

Azma International for Scroll Compressors deals with major brands like Copeland, Danfoss & Embraco. All models are available upon request.

Brands



Reciprocating Compressors - Hermetic



A reciprocating compressor, also known as a piston compressor, is an air compressor that uses pistons driven by a crankshaft to compress air. The pistons move back and forth in a cylinder, compressing the air as they move toward the cylinder head. The compressed air is then stored in a receiver tank, ready for use.

It is a type of machine that increases the pressure of a gas by reducing its volume. The word "reciprocating" means "back and forth," which is the exact movement the pistons in this type of compressor make.

A reciprocating compressor has a cylinder and a piston. The piston moves back and forth inside the cylinder, helping to compress the gas. Reciprocating compressors are used in a broad range of devices. Hermetic reciprocating compressors are the type most widely used in household appliances. Reciprocating compressors are commonly used in our freezers, refrigerators, air coolers, and water-cooling equipment. They are popular for domestic applications because of their low maintenance cost and durability.

Azma International for Reciprocating Compressors deals with major brands like Embraco & Danfoss. All models are available upon request.

Brands

embraco

Danfoss

Semi- Hermetic /Screw Compressors



A Semi-hermetic compressor has both the compressor and the motor fully protected from the environment within a sealed shell. Unlike the hermetic compressor, though, semi-hermetic models are designed so they can be opened for diagnosis and periodic maintenance.

Maintenance truly is the key to extending the service life of a compressor and thus saving thousands of dollars in the long run. While no compressor will last forever, modern compressors can perform at full efficiency deep into their operational lifespan as long as they are getting the right maintenance.

With that in mind, the semi-hermetic compressor has displaced most other options as a common and reliable go-to for most approaches. This is even true when it comes to smaller reciprocating units that would have been designed as hermetic compressors in the past.

Semi-hermetic Screw Compressors

HS Series: Versatile compressors for low and medium temperature refrigeration, air conditioning, and marine applications. They feature multi-step or stepless capacity control and are suitable for speed-controlled operation with a frequency inverter.

CS Series (Compact): These models integrate the motor and oil separator within the housing for a compact design. They use mechanical capacity control and are known for excellent full- and part-load efficiency. Specific models include the CSH and CSW variants, with the latter designed for water-cooled chillers.

CSV Series (Compact with Frequency Inverter): These compressors have an integrated frequency inverter for best-in-class seasonal efficiency and precise temperature control through a wide capacity modulation range.

Azma International for Semi-Hermetic/Screw Compressors deals with major brand like Bitzer. All models are available upon request.

Brands





Rotary Compressors are hermetically sealed. This means that the Compressor and the Motor are enclosed inside a welded casing and they are connected by a common shaft. They are widely used for refrigerators, deep freezers and air conditioning applications because of their compact and portable design

The cylinder volume is separated into a high-pressure side and a low-pressure side by the vane that is located in the cylinder slot. As the eccentric crankshaft rotates, the roller also spins, which takes the refrigerant gas into the cylinder.

The roller rotates within the cylinder, traveling in an orbital path. This motion is what compresses the refrigerant gas.

Inverter & Non-Inverter Type

With non-inverter unit, the compressor kicks into cool the room and kicks off when the target temperature is reached. With an inverter unit, the unit controls the speed of the compressor to maintain the temperature, which is usually more efficient, and it means there is less variation in the noise coming from the unit.

**Azma International for Rotary Compressors deals with major brand like GMCC.
All models are available upon request.**

Brands

GMCC



Cylinder Liners

Centrifugal Casted Cylinder Liners with high-quality Machinery as per OEM Standards to match all types of AIR & GAS Compressors.



Pistons & Pins

Aluminium Alloy (LM-13) Casted Pistons & Pins made out of Steel grade (8620) with high-quality machining as per O.E.M standards to match all types of AIR & GAS Compressors



Connecting Rods

Aluminium Alloy - Gravity Casting / Forged Connecting Rods with high-quality machining as per O.E.M standards to match all types of AIR & GAS Compressors.



Valve Plates & Reeds

High Quality Steel & C.I. Casted Valve Plates and seats with VMC Machining. Valve Reeds made out of SS410 & SANDVIK 7C27Mo2 Grade spring steel and cutting with high-quality dies and tools as per O.E.M standards to match all types of AIR & GAS Compressors.



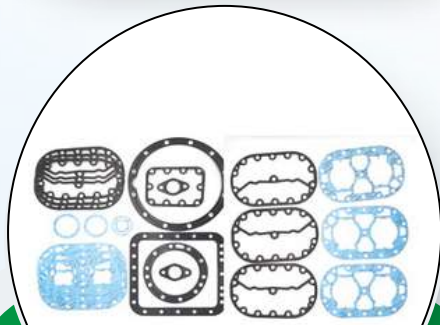
Bearing Bush

Bi-Metal Bearings & Bushes made out of Aluminium - Tin Alloy 90% Tin as matrix with Antimony & Copper as alloying elements with high-quality machining as per O.E.M standards to match all types of AIR & GAS Compressors



OIL PUMPS & OIL SEALS

Mechanical and Rotary Oil Seals with CYIO Carbon High Quality Oil Pumps and Gears designed as per OEM standards, to match all types of AIR & GAS Compressors.



METAL & FIBER GASKETS

PTEF Coated steel Gaskets & FIBER Gaskets made out of Interface MP-15 & NAM-32 Grade Raw material with high-quality tools and dies as per OEM standards, to match all types of AIR & GAS Compressors.



TERMINAL PLATES

High Quality Steel Insulated Terminal Plates as per O.E.M standards to match all types of Refrigeration Compressors.

Azma International for Compressor Spare Parts offers different types of parts of all below mentioned brands.

- BITZER • BOCK • CARRIER • HANBELL • HITACHI • COPELAND
- DORIN • YORK • CUSTOM DESIGNS

Condensing Units



Condensing units (CDUs) are the outdoor HVAC/R units. Their main function is to condense refrigerant or other substances from their gaseous state to liquid state. The latent heat is then transferred to the condenser coolant.

The main types of condensers comprise air-cooled, water-cooled, evaporative, surface, and jet condensers. Each type of Condenser has specific advantages and is selected based on application, efficiency needs, and environmental conditions.

Condensing Units with Semi-Hermetic Compressors are specially designed for low temperature applications, condensing units with 2-stage compressor boast a large range of capacities as well as well-coordinated components such as efficient condensers and fans. They're compact, robust and suitable for applications with low-GWP refrigerants.

**Azma International for Condensing Units deals with major brand like Bitzer.
All models are available upon request.**

Brands



Evaporators



Evaporators for condensing units are heat exchangers where the refrigerant absorbs heat and changes from a liquid to a gas, creating the cool surface for air conditioning or refrigeration. They are an essential part of a refrigeration system's heat transfer process. Types include forced air, static, liquid, flooded, shell and tube, and plate evaporators, each suited for different applications, and are often made of copper or aluminum with fins to increase surface area and improve heat exchange.

Key Applications

Refrigeration and Air Conditioning

Evaporators absorb unwanted heat from a building or a cold room, cooling the space as the refrigerant inside the evaporator turns into a gas.

Industrial Processes

Evaporators are used to concentrate liquids in industries like food manufacturing by vaporizing water, leaving the dissolved substances behind. They are also used for purification, separating different chemical species based on their boiling points.

Types of Evaporators

There are various types of evaporators designed for different applications, including: Falling film evaporators, Forced circulation evaporators, and Multiple effect evaporators (for increased efficiency in industrial processes).

Azma International for Evaporators deals with major brand like rime. All models are available upon request.

Brands

rime.

Heat Exchanger Coils



A heat exchanger is a system used to transfer heat between a source and a working fluid. Heat exchangers are used in both cooling and heating processes. They are widely used in space heating, refrigeration, air conditioning, power stations, chemical plants, petrochemical plants, petroleum refineries, natural-gas processing, and sewage treatment.

Azma International for Heat Exchanger Coils deals with major brands of Exchanger Coils. All models of Steam, Evaporator, Hot Water, Refrigerant & Chilled Waters Coils are available upon request.

Chillers & Freezers



Chillers & Freezers in a refrigeration display, often called display cases or showcase chillers, are units used in retail and hospitality settings like supermarkets, restaurants, and bakeries to showcase and keep products such as food, beverages, and desserts cold.

Azma International for Chillers & Freezers deals with major brand Rockwell from India origin.

Brands



Refrigeration & AC Spare Parts

Filter Driers & Cores



Thermostat & Guard



Valve Series



Oil Separator, Vibration Eliminator & Evaporator Coil Cleaner



Refrigeration & AC Spare Parts

Suction Accumulators & Liquid Receivers



Valves, Actuators, Pressure Control Switches & Sensors



Refrigeration & AC Spare Parts

Portable Welding Outfit, Mapp Gas Pro & Hand Torch



Brands



AC Brackets, Clamp Meter & Heat Sensor



Temperature Controller & High-Pressure Controller



Hand Tools for HVAC -R

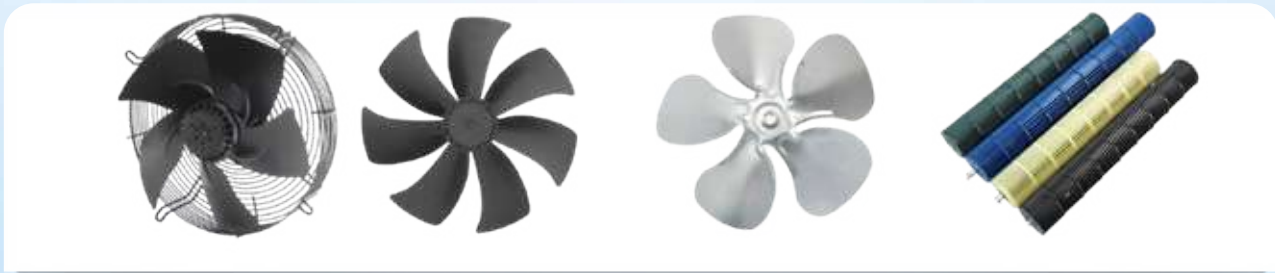


Fans & Blower Motors

Fan Motors



Axial Fans/Fan Blades/Blowers



Blower Motors/Ventilation Fans



Brands





AZMA INTERNATIONAL

Your Complete HVAC-R Solution Partner



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