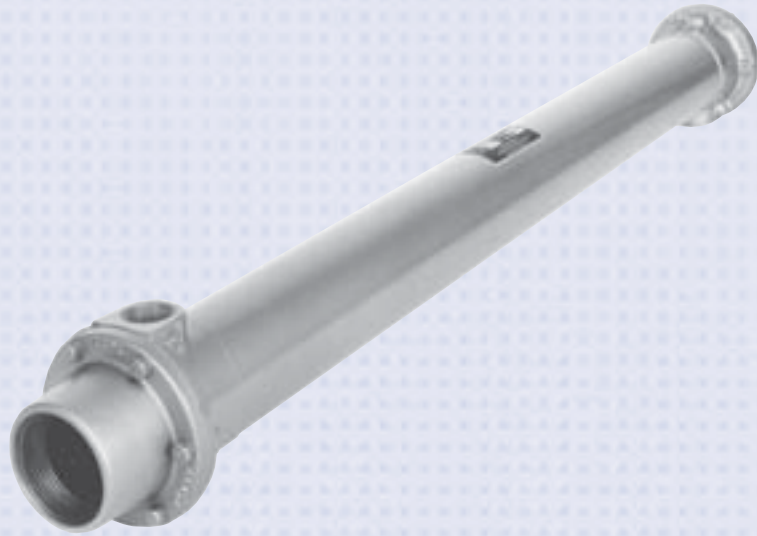


# COMPRESSED AIR COOLING | Air AB Series

## COPPER TUBE CONSTRUCTION

### Features

- **Compressed Air and Gas Aftercoolers**
- **For Water to Air Cooler**
- All Brass Hubs and Shell Assemblies:  
Reduce or Eliminate Galvanic and Other Types of Corrosion
- Copper Nickel Tubes Available  
for Sea Water Service



### Ratings

#### Operating Pressure

**Tubes** 250 PSI

**Shell** 250 PSI

**Operating Temperature** 350° F

### Materials

**Tubes** Copper

**Shell** Brass

**End Hubs** Brass

**End Bonnets** Cast Iron

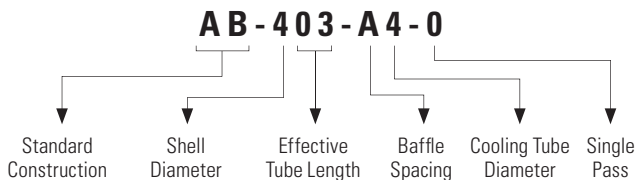
**Baffles** Brass

**Mounting Brackets (optional)** Steel

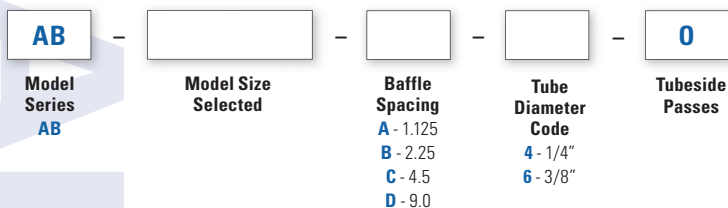
**Gaskets** Nitrile Rubber

**Nameplate** Aluminum Foil

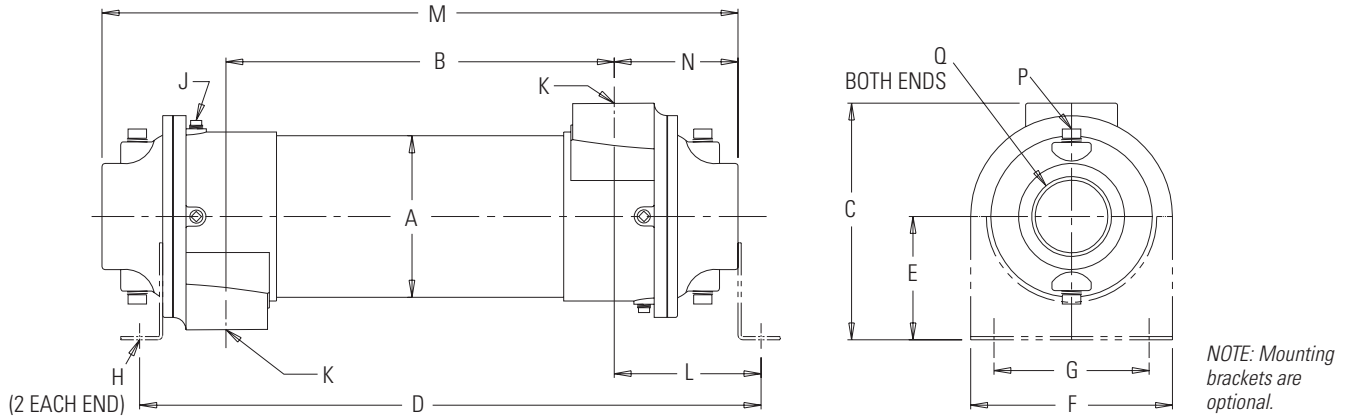
### Unit Coding



### How to Order



# Dimensions



Model	DIA A	B	C	D*	E*	F*	G*	H*	J NPT	K NPT	L	M	N	P NPT	Q NPT	Weight (Lbs.)
AB-403-A4-0	2.12	25.62	3.50	29.06	1.94	2.62	1.76	.41 Dia.	—	.50	1.72	33.36	3.87		1.50	13
AB-404-A4-0		34.62		38.06								42.36				16
AB-405-B4-0		43.62		47.06								51.36				18
AB-705-B4-0	3.66	43.00	6.25	48.38	3.62	5.25	3.00	.44x	(2) .38	1.00	2.69	50.40	3.70	(4) .50	2.50	40
AB-1006-B6-0	5.12	51.50	7.38	57.62	4.00	6.75	4.00	1.00	(6) .38	1.50	3.06	59.60	4.05			80
AB-1206-C6-0	6.12	50.50	8.81	57.38	4.75	7.50	5.00	.44x		2.00	3.44	60.25	4.88			3.00
AB-1207-C6-0		59.60		66.38				69.25				150				
AB-1606-C6-0	8.00	49.60	12.13	58.38	6.50	8.62	7.00	.44x	1.00	3.00	4.39	62.62	6.52	5.00	259	
AB-1607-D6-0		58.60		67.38								71.62			270	
AB-1608-D6-0		67.60		76.38								80.62			315	

NOTE: We reserve the right to make reasonable design changes without notice. All dimensions in inches.

## Capacity Selection

Model	2-Stage Recip 250°F Inlet Air		Rotary Screw 200°F Inlet Air	
	SCFM Capacity* in Tubes	Δ P, PSI, at Rated Capacity	SCFM Capacity* in Tubes	Δ P, PSI, at Rated Capacity
AB-403-A4-0	40	0.1	58	0.1
AB-404-A4-0	80	0.3	110	0.6
AB-405-B4-0	150	1.2	205	2.0
AB-705-B4-0	310	1.0	439	1.6
AB-1006-B6-0	440	0.3	654	0.5
AB-1206-C6-0	640	0.3	955	0.6
AB-1207-C6-0	1250	1.1	1690	1.9
AB-1606-C6-0	1600	0.5	2280	0.9
AB-1607-D6-0	2100	1.0	3080	1.7
AB-1608-D6-0	2800	1.6	3170	2.0

\*Based on ambient air at 60°F, 14.7 psia, and 50% relative humidity. Compressed air cooled to within 15°F of inlet water temperature. Water flow rate 3 GPM per 100 SCFM air flow. For single stage compressor type, 300°F inlet, use 2-stage SCFM capacities with a 15% reduction.

## Piping Diagrams

Thermal Transfer Aftercoolers can be mounted in either of the positions shown. Separators should be used as shown. Consult factory for separator recommendations.

## Selection Example

### Specified

Two stage compressor with a 340 SCFM air delivery at 100 psig and a 250°F discharge temperature. Maximum allowable pressure loss is 2 psi. Water flow rate to be determined.

### Solution

**STEP 1** From the 2-stage compressor column select model **AB-1006-B6-0** with 440 SCFM capacity.

**STEP 2** To determine Δ P: Read column to right of SCFM capacity selected.  
**Δ P = 0.3 PSI**

**STEP 3** Water flow rate required  
**340 SCFM x .03 = 10.2 GPM**

