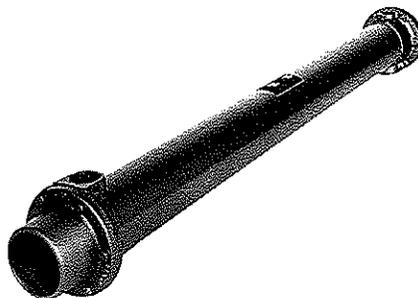


# WATER COOLED FIXED BUNDLE/AB SERIES

COMPRESSED AIR AND GAS AFTERCOOLERS



- All Brass Hubs and Shell Assemblies:  
Reduce or Eliminate Galvanic and Other Types of Corrosion

AB

water cooled

## MATERIALS

**Tubes** - Copper  
**Shell** - Brass  
**End Hubs** - Brass  
**End Bonnets** - Cast Iron  
**Baffles** - Brass

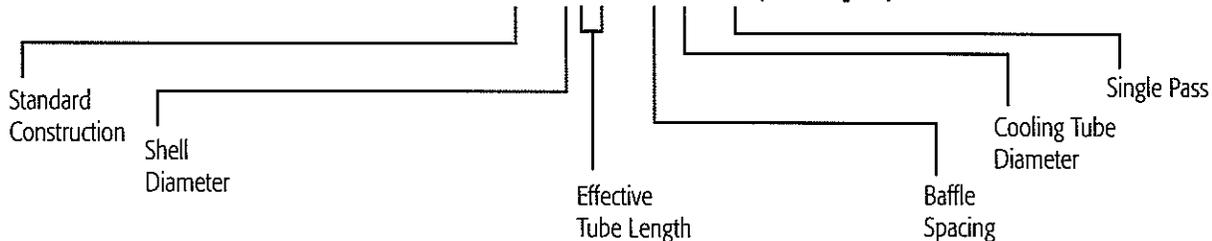
**Mounting Brackets (Optional)** - Steel  
**Gaskets** - Nitrile Rubber  
**Nameplate** - Aluminum Foil

## RATINGS

**OPERATING PRESSURE**  
**Tubes** - 250 psi  
**Shell** - 250 psi  
**Operating temperature** - 350°F

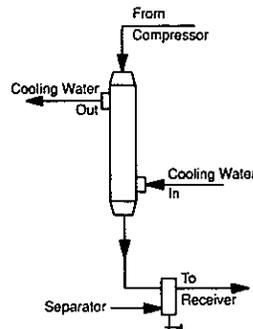
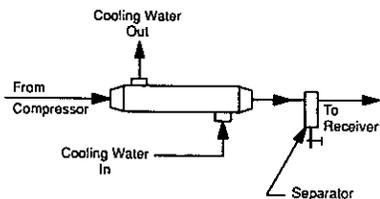
## UNIT CODING

MODEL AB - 403 - A 4 - 0 (Example)



## 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.



# CAPACITY SELECTION CHART

Model	2-Stage 250°F Inlet Air		Rotary 200°F Inlet Air	
	SCFM Capacity* in Tubes	ΔP, PSI, at Rated Capacity	SCFM Capacity* in Tubes	ΔP, PSI, at Rated Capacity
AB-403-A4-0	40	0.1	58	0.1
AB-404-AF-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.

## 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

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

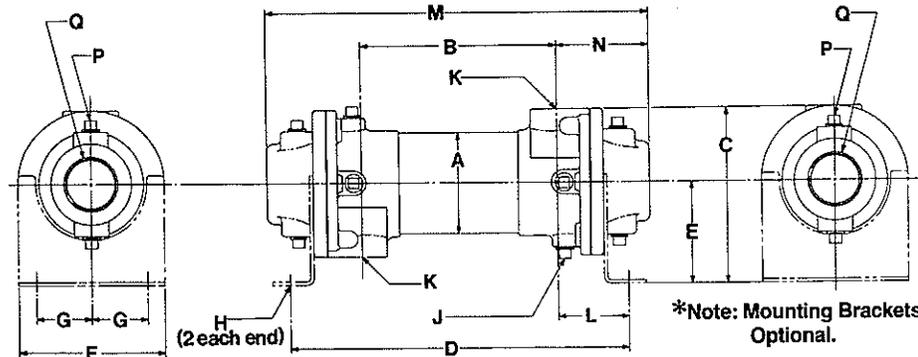
- To determine ΔP: Read column to right of SCFM capacity selected.

ΔP = 0.3 PSI

- Water flow rate required

$$340 \text{ SCFM} \times .03 = 10.2 \text{ GPM}$$

## MODELS, DIMENSIONS & WEIGHTS



For more information or to purchase these products, please contact:

**HYDROTHRIFT CORPORATION**  
**(800) 772-0493**

[www.hydrothrift.com](http://www.hydrothrift.com)  
[sales@hydrothrift.com](mailto:sales@hydrothrift.com)

Model	DIA A	B	C	D*	E*	F*	G*	H*	J NPT	K NPT	L	M	N	P NPT	Q NPT	Weight (Lbs.)	Model
AB-403-A4-0	2.12	25.62	3.50	29.06	1.94	2.62	.88	.41 Dia.	-	.50	1.72	33.36	3.87		1.50	13	AB-403-A4-0
AB-404-A4-0		34.62		42.36								16				AB-404-A4-0	
AB-405-B4-0		43.62		51.36								18				AB-405-B4-0	
AB-705-B4-0	3.66	43.00	6.25	48.38	3.62	5.25	1.50	.44x 1.00	(2) 3/8	1.00	2.69	50.40	3.70		2.50	40	AB-705-B4-0
AB-1006-B6-0	5.12	51.50	7.38	57.62	4.00	6.75	2.00	(6) 3/8	1.50	3.06	59.60	4.05	(4) .50		3.00	80	AB-1006-B6-0
AB-1206-C6-0	6.12	50.50	8.81	57.38	4.75	7.50	2.50		.44x .88	2.00	3.44	60.25				4.88	130
AB-1207-C6-0		59.60		69.25								150		AB-1207-C6-0			
AB-1606-C6-0	8.00	49.60	12.13	58.38	6.50	8.62	3.50	.44x 1.00	3.00	4.39	71.62	6.52		5.00	259	AB-1606-C6-0	
AB-1607-D6-0		58.60		67.38											270	AB-1607-D6-0	
AB-1608-D6-0		67.60		76.38											315	AB-1608-D6-0	

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