



Compressed Air Aftercoolers

Removable Tube Bundle Type

JOB _____

B & G REPRESENTATIVE _____

UNIT TAG NO. _____

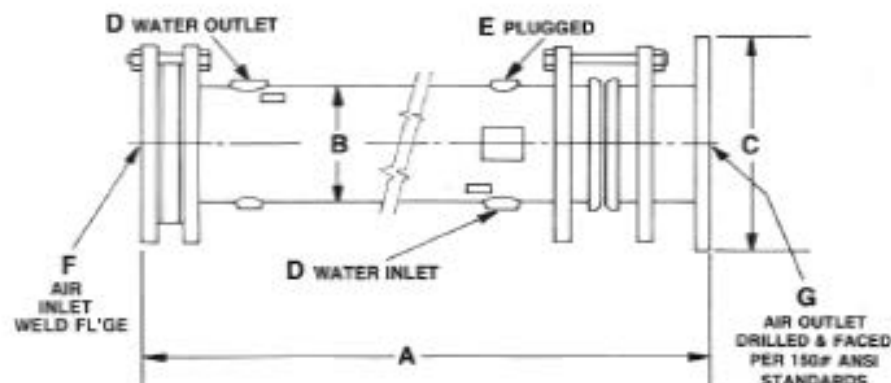
ORDER NO. _____ DATE _____

ENGINEER _____

SUBMITTED BY _____ DATE _____

CONTRACTOR _____

APPROVED BY _____ DATE _____



DESCRIPTION

B&G Compressed Air Aftercoolers are of the shell and tube type. Tube Bundles are removable and tubes are easily cleaned both inside and outside. Tube ends are expanded into both the front and rear tubesheets. Floating tubesheet construction within the rear head compensates for expansion or contraction of the entire bundle regardless of temperature variations. Baffles are stamped to close tolerances, minimizing the slippage of water between the baffles and shell wall.

MODEL NO.	SUR- FACE	SHIP WT.	CAPACITY FREE AIR SCFM		A	B	C	D NPT	E NPT	F I.D.	G	DESIGN PRES. AT 375°F
			1 STAGE	2 STAGE								
ACA 34-12	3.1	90	50	65	54 $\frac{1}{2}$	3 $\frac{1}{2}$	7 $\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	3 $\frac{9}{16}$	3	150
ACA 34-20	5.2	95	80	100	54 $\frac{1}{2}$	3 $\frac{1}{2}$	7 $\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	3 $\frac{9}{16}$	3	150
ACA 34-24	6.3	100	100	125	54 $\frac{1}{2}$	3 $\frac{1}{2}$	7 $\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	3 $\frac{9}{16}$	3	150
ACA 46-12	7.6	200	125	155	86	4 $\frac{1}{2}$	9	$\frac{3}{4}$	$\frac{1}{2}$	4 $\frac{9}{16}$	4	150
ACA 46-16	10.2	210	160	200	86	4 $\frac{1}{2}$	9	$\frac{3}{4}$	$\frac{1}{2}$	4 $\frac{9}{16}$	4	150
ACA 46-22	14.0	220	210	260	86	4 $\frac{1}{2}$	9	$\frac{3}{4}$	$\frac{1}{2}$	4 $\frac{9}{16}$	4	150
ACA 46-26	16.6	230	260	325	86	4 $\frac{1}{2}$	9	$\frac{3}{4}$	$\frac{1}{2}$	4 $\frac{9}{16}$	4	150
ACA 66-30	19.1	350	305	375	86 $\frac{1}{2}$	6 $\frac{1}{2}$	11	$\frac{3}{4}$	$\frac{3}{4}$	6 $\frac{1}{4}$	6	150
ACA 66-36	23.0	360	360	450	86 $\frac{1}{2}$	6 $\frac{1}{2}$	11	$\frac{3}{4}$	$\frac{3}{4}$	6 $\frac{1}{4}$	6	150
ACA 66-42	26.8	370	400	500	86 $\frac{1}{2}$	6 $\frac{1}{2}$	11	$\frac{3}{4}$	$\frac{3}{4}$	6 $\frac{1}{4}$	6	150
ACA 66-52	33.2	380	480	600	86 $\frac{1}{2}$	6 $\frac{1}{2}$	11	$\frac{3}{4}$	$\frac{3}{4}$	6 $\frac{1}{4}$	6	150
ACA 66-64	39.6	390	605	755	86 $\frac{1}{2}$	6 $\frac{1}{2}$	11	$\frac{3}{4}$	$\frac{3}{4}$	6 $\frac{1}{4}$	6	150
ACA 86-84	53.7	500	740	925	86 $\frac{1}{2}$	8 $\frac{1}{2}$	13 $\frac{1}{2}$	1	$\frac{3}{4}$	8 $\frac{1}{4}$	8	150
ACA 86-92	58.7	515	900	1125	86 $\frac{1}{2}$	8 $\frac{1}{2}$	13 $\frac{1}{2}$	1	$\frac{3}{4}$	8 $\frac{1}{4}$	8	150
ACA 86-96	61.0	530	960	1200	86 $\frac{1}{2}$	8 $\frac{1}{2}$	13 $\frac{1}{2}$	1	$\frac{3}{4}$	8 $\frac{1}{4}$	8	150
ACA 86-134	86.9	560	1280	1625	86 $\frac{1}{2}$	8 $\frac{1}{2}$	13 $\frac{1}{2}$	1	$\frac{3}{4}$	8 $\frac{1}{4}$	8	150
ACA 109-82	99.0	800	1620	2025	117 $\frac{1}{2}$	10 $\frac{1}{4}$	16	1 $\frac{1}{4}$	$\frac{3}{4}$	10 $\frac{1}{8}$	10	150
ACA 109-102	123.0	800	2000	2500	117 $\frac{1}{2}$	10 $\frac{1}{4}$	16	1 $\frac{1}{4}$	$\frac{3}{4}$	10 $\frac{1}{8}$	10	150
ACA 109-128	155.0	880	2460	3100	117 $\frac{1}{2}$	10 $\frac{1}{4}$	16	1 $\frac{1}{4}$	$\frac{3}{4}$	10 $\frac{1}{8}$	10	150
ACA 109-136	164.0	1000	2960	3700	117 $\frac{1}{2}$	10 $\frac{1}{4}$	16	1 $\frac{1}{4}$	$\frac{3}{4}$	10 $\frac{1}{8}$	10	150
ACA 109-144	174.0	1020	3600	4500	117 $\frac{1}{2}$	10 $\frac{1}{4}$	16	1 $\frac{1}{4}$	$\frac{3}{4}$	10 $\frac{1}{8}$	10	150

Dimensions are subject to change. If exact dimensions are needed for layout, write for certified prints.

Bell & Gossett

COMPRESSED AIR AFTERCOOLERS Removable Tube Bundle Type

Capacities are based on ambient air at 14.7 psia, 60°F, 70% RH; air entering aftercooler at 100 psig, 350°F single stage, 250°F two stage; and cooling water at 85°F with 2 gpm per 100 SCFM single stage and 1.5 gpm per 100 SCFM two stage. Leaving air temperature is 100°F, pressure drops are approximately 1 psi air or water side.

CAUTION: Cooling water should be circulating through the shellside before hot compressed air enters the tubeside of the Aftercooler.

TYPICAL SPECIFICATION

Furnish and install, approximately where shown on plans and with manufacturers' recommendations, Aftercoolers according to the following specifications:

1. Capacity

- a. To cool _____ SCFM compressed air to within 15°F entering cooling water at _____ GPM.
- b. Maximum air pressure drop 1 psi.
- c. Maximum water pressure drop 1 psi.
- d. Minimum shell diameter _____ inches.
- e. Maximum length _____ feet.
- f. Minimum tube surface _____ sq. feet.

2. Type

Shell and tube, straight tube, floating head — outside packed lantern ring. Compressed air in tubes, water in shell.

3. Materials

- a. Heads — Front: Steel Weld Ring, Rear: Cast Iron
- b. Tubesheets — Steel
- c. Baffles — Steel
- d. Tubes — Copper OD _____ Wall _____ BWG

4. Construction*

A Manufacturers' Data Report for Pressure Vessels, Form No. U-1 as required by the provisions of the ASME Code Rules is furnished with each unit upon request. This form is signed by an authorized inspector, holding a National Board Commission, and who is employed by an authorized inspection agency, certifying that construction conforms to the latest ASME Code for pressure vessels. The ASME "U" symbol is stamped on each vessel. In addition, each unit is registered with the National Board of Boiler and Pressure Vessel Inspectors.

5. Manufacturer

Aftercoolers shall be as manufactured by Bell & Gossett
Factory No. _____ Model No. _____ or approved equal.

*Compliance with this part of the specification will insure acceptance of the vessel by any state of local jurisdiction in the United States.

For further information, contact Bell & Gossett Heat Transfer Products, 175 Standard Parkway, Cheektowaga, NY 14227,
Phone: (716) 862-4171 — Facsimile: (716) 862-4176.

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