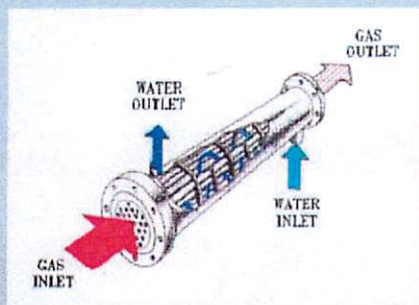


## Water Cooled AfterCoolers



### The IPAC Advantage

The most compact unit of its kind because of its extended tube surface, the IPAC Inc. Water Cooled Aftercooler is suitable for packaged compressors or any site where space is limited. Built with either patented Helical or plain tubes, 51 series Aftercoolers are designed to deliver a 15-20 degree Fahrenheit approach temperature, depending on water temperature and quantity. The 59 series delivers a 5-10 Fahrenheit approach.

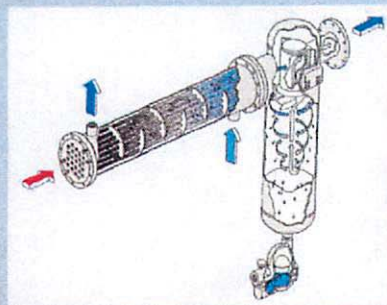


As hot compressed air flows through the extended surface tubes of the IPAC Water Cooled Aftercooler, the cooling water flows on the outside of the tubes in the opposite direction. This counter-flow arrangement makes the tube walls progressively colder for maximum cooling efficiency.

Heat from the compressed air is transferred throughout the tube walls to the water, thereby reducing the air temperature until the dew point is reached. Further cooling causes the vapor to condense on the tube walls forming water droplets, thus reducing the water vapor content of the compressed air.

### Product Features

- Available with patented Helical tubes offering extended tube surface for maximum efficiency.
- Alternate materials - stainless steel, admiralty, cupro-nickel, brass, etc.
- Also available in plain tube allowing for lower pressure drop.
- Compact size, vertical or horizontal mounting.
- Standard capacities range from 10 SCFM to 27,000SCFM.
- Built to ASME and TEMA standards.
- Removable bundle configuration facilitates cleaning.
- Custom designs of up to 3,000 PSIG and higher are available depending on application.
- Special designs available - consult factory.



## Water Cooled After Cooler Specs

W0045	76/1.0	76/1.7	76/2.9	76/5.8	22	2" NPT	1/2" NPT	WS01	SAC120
W0055	134/1.4	134/2.4	134/3.9	134/7.7	30	2-1/2" NPT	1/2" NPT	WS02	SAC120
W0065	220/2.4	220/3.4	220/5.8	220/11.6	46	3" NPT	3/4" NPT	WS03	SAC120
W0070	220/2.4	220/3.4	220/5.8	220/11.6	60	2-1/2" FLG	3/4" NPT	S04H	SAC120
W0110	350/3.8	350/6.3	350/9.2	350/19.3	89	3" FLG	3/4" NPT	S04H	SAC120
W0160	500/4.8	500/7.2	500/11.6	500/23.2	122	4" FLG	1" NPT	S04H	SAC120
W0210	600/5.8	600/9.6	600/14.4	600/29	128	4" FLG	1-1/4" NPT	S04H	SAC120
W0270	765/7.2	765/11.5	765/17.3	765/34.7	168	5" FLG	1-1/4" NPT	S4AH	SAC120
W0350	1,050/9.6	1,050/15.4	1,050/23.1	1,050/42.4	181	5" FLG	1-1/2" NPT	S05H	SAC120
W0420	1,200/13.5	1,200/23.1	1,200/36	1,200/72	265	8" FLG	2" NPT	S06H	SAC120
W0650	2,010/22	2,010/36.6	2,010/58	2,010/111	389	10" FLG	2-1/2" NPT	S06H	SAC120
W0900	2,785/29	2,785/48.1	2,785/77	2,785/160	399	10" FLG	2-1/2" NPT	S08H	SAC100
W1250	3,840/36	3,840/60.6	3,840/87	3,840/193	600	12" FLG	2-1/2" NPT	S09H	SAC100
W1500	4,785/43	4,785/72.1	4,785/116	4,785/241	775	14" FLG	2-1/2" NPT	S10H	SAC100

### Shaded Portion Indicates ASME Section VIII, Division 1, "U" Stamped

Model Number For 59" units	Maximum Capacity (SCFM) Inlet Air Temperature (°F)				Weight (Lbs.)	Connections		Recommended IPAC	
	200° Scfm/Gpm	250° Scfm/Gpm	300° Scfm/Gpm	400° Scfm/Gpm		Air In/Out	Water In/Out	Horizontal Separator	Drain
	W0039	37/1.0	37/1.5	37/2.1		37/4.8	20	1-1/2" NPT	1/2" NPT
W0049	69/1.1	69/1.7	69/2.6	69/5.5	26	2" NPT	1/2" NPT	WS01	SAC120
W0059	120/1.9	120/2.4	120/3.6	120/7.7	34	2-1/2" NPT	1/2" NPT	WS02	SAC120
W0069	210/2.6	210/3.9	210/5.8	210/10.6	53	3" NPT	3/4" NPT	WS03	SAC120
W0090	210/2.6	210/3.9	210/5.8	210/10.6	69	2-1/2" FLG	3/4" NPT	S04H	SAC120
W0140	320/4.0	320/6.7	320/9.2	320/17.0	102	3" FLG	3/4" NPT	S04H	SAC120
W0180	460/5.0	460/7.7	460/11.6	460/19.0	137	4" FLG	1" NPT	S04H	SAC120
W0230	550/6.7	550/10.0	550/14.5	550/28.0	144	4" FLG	1-1/4" NPT	S04H	SAC120
W0330	720/8.2	720/12.5	720/17.3	720/31.0	188	5" FLG	1-1/4" NPT	S4AH	SAC120
W0380	955/10.6	955/15.4	955/21.2	955/38.6	205	5" FLG	1-1/2" NPT	S05H	SAC120
W0490	1,145/19.3	1,145/25.1	1,145/38.6	1,145/69.6	297	8" FLG	2" NPT	S06H	SAC120
W0710	1,915/24.0	1,915/38.5	1,915/58.0	1,915/116	440	10" FLG	2-1/2" NPT	S06H	SAC120
W0980	2,630/33.7	2,630/53.0	2,630/77.0	2,630/145	450	10" FLG	2-1/2" NPT	S08H	SAC100
W1400	3,635/41.0	3,635/63.5	3,635/91.0	3,635/169	660	12" FLG	2-1/2" NPT	S09H	SAC100
W1700	4,315/48.0	4,315/72.1	4,315/106	4,315/193	850	14" FLG	2-1/2" NPT	S10H	SAC100
W2000	4,880/58.0	4,880/81.7	4,880/120	4,880/212	950	14" FLG	4" FLG	S12H	SAC100
W3000	7,180/92.0	7,180/135	7,180/192	7,180/387	1,250	18" FLG	5" FLG	S13H	SAC100
W4000	9,675/116	9,675/188	9,675/289	9,675/531	1,600	20" FLG	6" FLG	S14H	SAC100
W5000	11,970/139	11,970/222	11,970/323	11,970/579	1,950	20" FLG	8" FLG	S15H	SAC100

#### NOTES:

- Compressed air rated at 100 PSIG.
- Ambient conditions rated at 75°F and 50% relative humidity
- Water inlet temperature rated at 80°F
- Average air pressure drop is less than 2 PSI
- Typical inlet temperatures: single stage = 350°F; two stage = 250°F rotary = 200°F
- Model W0035 - W0065 - MAWP 300 PSIG.
- Model W0039 - W0069 - MAWP 300 PSIG
- All other models - MAWP 200 PSIG.
- All units for 51" Series are 51-1/8" overall length.
- All units for 59" Series are 59" overall length.

#### SIZING YOUR AFTERCOOLER:

1. Enter selection chart at the appropriate compressed air inlet temperature.
2. Move down the column until you reach the SCFM Capacity of the compressor.
3. Read the left to find the model number that handles your required capacity.
4. Approach temperature 51 Series – 15°F, 59 Series – 10°F.

**Southwest Thermal Technology**

Questions? Call Sales M-F 8am-5pm PT  
p. 888-226-8522 | [www.SouthwestThermal.com](http://www.SouthwestThermal.com)