



FS-1500V

FS Series Benefits

- Easy installation.
- Adaptable to heat recovery systems.
- Extends the life of water-cooled machinery.
- Eliminates organic, mineral scale and corrosion problems.
- Significantly reduces water consumption and sewer costs.
- Provides cooler water when used with a trim cooler.
- Reduces maintenance cost and downtime, since there is no need to shut down the system for cleaning.

FS Series Options

- Water inlet/outlet temperature and pressure gauge.
- No-flow and low-water level shutdown.
- Mixing valve, sight glass, water strainer, and circuit breaker.
- Totally enclosed fan controlled motor.
- Audible alarm for high temperature.
- Pressure relief bypass.
- Flip-top hinged fan panels.
- Fan cycling control (per fan to be cycled).
- Fused disconnect.
- Automatic fill.
- Larger expansion tank.
- High outlet temperature warning light.
- High efficiency water filter.
- NEMA 7 explosion proof motor.
- NEMA 4 or 12 electrical for single/twin pumping station.

The **Aircel FS Series (50 - 3,000)** Industrial Closed-Loop Fluid Cooling System is the most cost-effective cooling system available for virtually any fluid. Using ambient air to remove heat from the coolant, it efficiently cools fluids to 15-20°F of the ambient temperature. Lower temperatures can be achieved when used in conjunction with city water. Combining a Closed-Loop Fluid Cooling System with a Trim-Cooler can provide a cost-effective and versatile cooling system for your application throughout the year.

As one of the world's leading manufacturers of compressed air purification equipment, Aircel has built a comprehensive engineering, manufacturing, and customer support network to meet the most demanding applications. Aircel manufactures an efficient Industrial Closed-Loop Fluid Cooling System and Pumping Station that extends the life of your fluid-cooled machinery by eliminating organic, mineral scale and corrosion problems. The Closed-Loop Fluid Cooling System can be designed specific to your application requirements and environment.

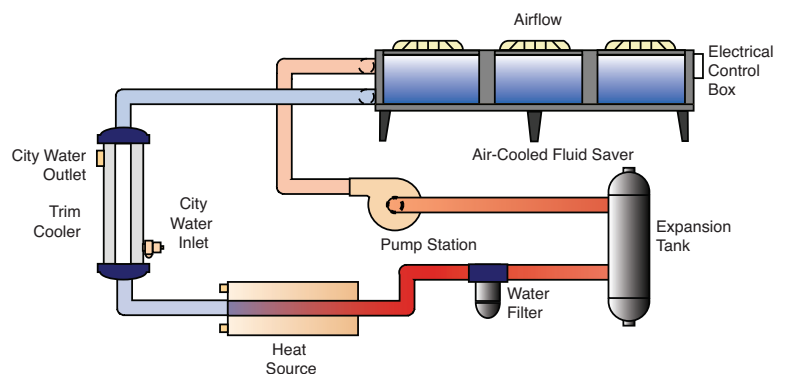
FS SERIES How it Works

Glycol/water mixture cools the water leaving the industrial processes in the heat source. It then exits the heat source and enters the optional water filter for scales and particulate removal.

The glycol mixture then flows through the expansion tank and then to the inlet side of the pump, which keeps the water/glycol mixture flowing through the entire closed loop system. It then enters the fluid saver to be cooled within 5°F to 25°F of the ambient temperature.

It later enters the trim cooler (optional), which further cools the glycol mixture if necessary during extreme ambient temperature conditions through a thermostatic water regulating valve (standard with trim cooler).

The valve regulates the flow of city water or chilled water through the trim cooler. The glycol mixture then enters the heat source and the process is continuously repeated.



FS SERIES TECHNICAL SPECIFICATIONS



FS SERIES Model Comparison

Models	Minimum			Maximum			Fan Data		Water Connection (in. FNPT)	Dimensions (in.)			Weight (lbs)	Selection for Rotary Air Comp. (Max HP)
	kBTU/HR	ΔT	GPM	kBTU/HR	ΔT	GPM	Qty	HP		Length	Width	Height		
FS50-H	26.8	6.0	10	30.4	3.2	20	1	1/2	1	48	48	46	165	20
FS75-H	63.6	14.0	10	84.0	6.4	30	1	1/2	1	48	48	46	188	25
FS100-H	80.0	17.6	10	106.8	4.8	50	1	1/2	1	48	48	46	204	30
FS150-H	100.0	22.4	10	172.4	5.6	70	2	1/2	1-1/4	104	48	46	303	40
FS200-H	122.4	27.2	10	213.6	5.6	70	2	1/2	1-1/4	104	48	46	328	50
FS250-H	169.2	18.8	20	233.2	3.6	140	2	1/2	1-1/4	104	48	46	352	60
FS300-V	182.4	20.4	20	272.8	6.0	100	2	1	1-1/4	104	48	46	693	75
FS400-V	337.6	25.2	30	545.6	7.6	160	2	1.5	2	104	48	46	709	100
FS500-V	257.2	26.4	30	590.4	6.0	220	2	1.5	2	104	48	46	748	125
FS600-V	395.6	29.2	30	668.9	5.3	280	2	1.5	2-1/2	104	48	46	791	150
FS700-V	419.6	31.2	30	826.0	7.2	260	3	1.5	2-1/2	152	48	46	948	200
FS800-V	513.6	28.8	40	887.2	5.6	340	3	1.5	2-1/2	152	48	46	972	250
FS900-V	535.6	30.0	40	962.8	5.2	400	3	1.5	2-1/2	152	48	46	1062	275
FS1000-V	607.6	34.0	40	1258.4	7.2	380	4	1.5	2-1/2	104	96	46	1365	300
FS1100-V	620.8	34.8	40	1306.4	7.6	380	4	1.5	3	104	96	46	1420	350
FS1300-V	735.2	32.8	50	1643.2	7.2	500	6	1.5	3	152	96	46	1809	400
FS1500-V	782.0	34.8	50	1730.4	6.8	550	6	1.5	3	152	96	46	1929	450
FS1800-V	924.4	34.4	60	1847.2	9.2	450	6	1.5	4 FLG	152	96	46	2349	500
FS2000-V	1122.4	35.6	70	2413.6	9.6	550	8	1.5	4 FLG	200	96	46	2510	600
FS2200-V	1142.2	36.4	70	2508.0	10.0	550	8	1.5	4 FLG	200	96	46	2620	700
FS2500-V	1590.4	35.6	100	3068.8	12.4	550	10	1.5	4 FLG	248	96	46	3075	900
FS3000-V	2113.4	33.7	140	3601.8	14.6	550	12	1.5	4 FLG	296	96	46	3750	10000

¹Capacity rates are based on 25°F temperature approach with 90-95°F ambient temperature and 140°F inlet water temperature. Due to a continuous program of product improvement, specification and dimensions are subject to change without notice.

Optional SPS and TPS Series Pumping Station

The **Aircel SPS & TPS Series (50 - 3,000)** is offered in two series: Single (SPS) or Twin (TPS), which are pre-piped and mounted on a single skid with the controls. Both pumping systems provide fully-automatic operation for applications with 20 to 800 gpm and head change to pressures of 10-150 feet. Combining the latest technology, the Aircel Pumping Station delivers excellent efficiency and provides low maintenance costs by combining highly serviceable design and high quality components for long service life.



TPS-50