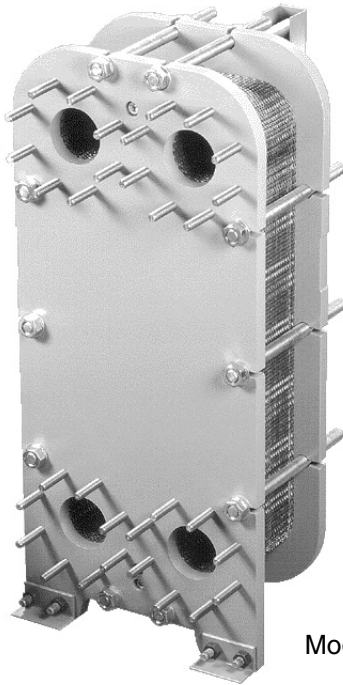


TOWER ISOLATION PF SERIES



Model PF3-60

ELIMINATE FOULING ON COOLING SURFACES

Plate and frame type heat exchangers offer more heat transfer in less space. The Conair Tower Isolation PF Series perform with one third to one fifth the surface area of conventional shell and tube heat exchangers for the same application. By isolating the tower water from the plant cooling passages the reduction in preventative maintenance reduces staffing and quickly pays for itself.

MAINTENANCE SAVING TOWER WATER ISOLATION

Cooling towers, while very efficient in cooling processes, also collect debris and grow dangerous biologicals in the water. The Conair Tower Isolation Heat Exchangers PF Series isolate the contaminated water to the tower, tower pump, filter and heat exchanger only.

These components, while still requiring the consistent preventative maintenance for peak performance, isolate any biologicals from the rest of the facility. The biocide in the evaporative towers does not flow freely throughout the plant.

The PF Series Heat Exchangers are available in 3-degree and 5-degree approach models. The process water can get to within 3°F or 5°F {1.6° or 2.8°C} of the tower temperature at a designated day. The 10°F {5.6°C} standard range (difference of inlet and outlet temperatures) works with standard tower designs.

■ Superior heat transfer

Get the most heat transfer with the least temperature difference. And keep tower process water to within 3° or 5°F {1.6° or 2.8°C} of the actual tower water at design heat load.

■ True countercurrent flow

All heat exchangers perform most efficiently and output the smallest approach with countercurrent flow. Multipass shell and tube types lose some of this effectiveness.

■ Expandable design

Many models are expandable to meet increasing loads just by adding plates. The unit can be backflushed to clean, and disassembled to restore original performance after long periods of use.

■ Low pressure drop

Pressure drops of 10 psi or less at design keeps pump power losses to a minimum and energy costs low.

■ Reduced mineralization

Since plant process water is not continuously concentrated plating of minerals on heat transfer surfaces is significantly reduced and preventative maintenance nearly eliminated.



TOWER ISOLATION PF SERIES

3F° Approach Models	Duty, Tower Tons (15,000 BTU/hr)	Duty BTU/hr	Hot/Cold Flow Rate GPM	ΔP Both Sides*	Connections	Length in.	Width in.	Height in.	Weight, lb	
									dry	wet
PF3-20	19.88	298200	60	4	2" FPT	31.42	12.13	47	464	504
PF3-30	29.82	447300	90	4.23	2" FPT	31.42	12.13	47	509	569
PF3-40	39.76	596400	120	4.52	2" FPT	47.26	12.13	47	592	672
PF3-50	49.70	745500	150	5.00	2" FPT	47.26	12.13	47	630	727
PF3-60	59.6	894700	180	10	4" 150#	34.49	20.5	72.1	1497	1637
PF3-75	74.6	1118300	225	10	4" 150#	34.49	20.5	72.1	1541	1680
PF3-85	84.5	1267400	255	10	4" 150#	34.49	20.5	72.1	1581	1743
PF3-100	99.4	1491100	300	10	4" 150#	50.21	20.5	72.1	1678	1859
PF3-115	114.3	1714800	345	9.8	4" 150#	50.21	20.5	72.1	1727	1937
PF3-125	124.26	1863900	375	9.9	4" 150#	50.21	20.5	72.1	1766	1999
PF3-170	169	2534900	510	10	4" 150#	50.21	20.5	72.1	1916	2236
PF3-175	174	2609500	525	10	4" 150#	50.21	20.5	72.1	1934	2264
PF3-185	184	2758600	555	10	4" 150#	50.21	20.5	72.1	1969	2318
PF3-210	208.7	3131400	630	10	4" 150#	62.09	20.5	72.1	2117	2525
PF3-240	238.6	3578800	720	10	4" 150#	62.09	20.5	72.1	2240	2719
PF3-270	268.4	4026100	810	10	4" 150#	69.89	20.5	72.1	2412	2972
PF3-300	298.2	4473500	900	10.2	4" 150#	89.57	20.5	72.1	2587	3203
PF3-340	338	5069900	1020	10	6" 150#	90.31	25.7	77.6	2849	3714
PF3-370	367.8	5517300	1110	9.9	6" 150#	90.31	25.7	77.6	2944	3887
PF3-475	477.2	7157600	1440	10	6" 150#	110.00	25.7	77.6	3430	4693
PF3-500	497	7455800	1500	10	6" 150#	110.00	25.7	77.6	3508	4836
PF3-600	596.5	8947000	1800	10	6" 150#	110.00	25.7	77.6	3820	5393
PF3-630	628.3	9424200	1896	10	8" 150#	95.01	31.5	87.3	6078	7882

5F° Approach Models	Duty, Tower Tons (15,000 BTU/hr)	Duty BTU/hr	Hot/Cold Flow Rate GPM	ΔP Both Sides*	Connections	Length in.	Width in.	Height in.	Weight, lb	
									dry	wet
PF5-20	19.87	298100	60	9.8	2" FPT	23.62	12.13	47	408	432
PF5-30	29.81	447100	90	9.9	2" FPT	31.42	12.13	47	453	489
PF5-40	39.74	596200	120	10	2" FPT	31.42	12.13	47	480	527
PF5-50	49.68	745200	150	9.9	4" 150#	34.53	20.5	46.63	900	958
PF5-60	59.62	894300	180	9.3	4" 150#	34.53	20.5	46.63	950	1018
PF5-75	74.53	1117800	225	10	4" 150#	50.21	20.5	46.63	1004	1091
PF5-85	84.46	1266900	255	9.9	4" 150#	49.49	20.5	46.63	1033	1133
PF5-100	99.36	1490500	300	9.9	4" 150#	50.21	20.5	46.63	1062	1182
PF5-115	114.27	1714000	345	9.9	4" 150#	50.21	20.5	46.63	1096	1233
PF5-125	124.21	1863100	375	10	4" 150#	50.21	20.5	46.63	1116	1264
PF5-170	168.92	2533800	510	10	4" 150#	62.09	20.5	46.63	1253	1455
PF5-175	173.90	2608400	525	10	4" 150#	62.09	20.5	46.63	1260	1465
PF5-185	183.83	2757400	555	10	4" 150#	62.09	20.5	46.63	1287	1508
PF5-210	208.67	3130000	630	10	4" 150#	69.89	20.5	46.63	1380	1638
PF5-240	238.48	3577200	720	10	4" 150#	89.57	20.5	46.63	1530	1835
PF5-270	268.29	4024300	810	10	4" 150#	89.57	20.5	46.63	1617	1970
PF5-300	298.10	4471500	900	9.9	6" 150#	62.71	25.7	77.6	2338	2791
PF5-340	337.85	5067700	1020	9.9	6" 150#	62.71	25.7	77.6	2282	2796
PF5-370	367.66	5514900	1110	10	6" 150#	62.71	25.7	77.6	2344	2908
PF5-475	476.96	7154400	1440	10	6" 150#	70.63	25.7	77.6	2613	3367
PF5-500	496.84	7452500	1500	10	6" 150#	70.63	25.7	77.6	2657	3447
PF5-600	596.21	8943000	1800	10	6" 150#	90.31	25.7	77.6	2998	3970
PF5-630	628.00	9420000	1896	10	6" 150#	90.31	25.7	77.6	3125	4152

*Pressure drops are measured on new, clean equipment at design flow rates.