

## Direct Drive Fluid Coolers—5 to 212 Tons

- Specifically engineered for outdoor installation with heavy gauge galvanized steel construction to resist corrosion
- Factory-installed lifting brackets and single point field wiring reduce installation costs and time
- Coils are fabricated with corrugated aluminum fins and staggered copper tubes for optimum heat transfer
- Models AFS 023 through AFD 212 use the McQuay patented Floating Tube design to virtually eliminate leaks at the tube sheets
- Fan motor and blade assemblies undergo dynamic stress testing to provide low vibration levels and to improve the reliability of the air moving assembly

For more detail, refer to Catalog AFSD.  
For the most current information, refer to [www.mcquay.com](http://www.mcquay.com).



Model AFS 005 through AFS 107—5 to 107 tons  
Model AFD 046 through AFD 212—46 to 212 tons

## Direct Drive Fluid Coolers—Physical Data

### Model 005 through 021

AFS Model	Fan data		Approximate net weight, lb <sup>1</sup>	Approximate shipping weight, lb
	Fan configuration	Fan diameter		
005	1 × 1	24	180	325
008	1 × 1	26	260	380
010	1 × 2	24	450	600
012	1 × 2	26	470	620
014	1 × 2	26	510	650
016	1 × 2	26	530	680
021	1 × 3	26	550	725

1. Net weight is unit only.

### Model 023 through 212

Model	Fan data			Approximate operating charge, gal	Approximate net weight, lb <sup>1, 2</sup>	Approximate shipping weight, lb
	Fan configuration	Number of fans <sup>3</sup>	cfm			
<b>AFS single row of fans</b>						
023	1 × 2	2	23,000	6.7	730	800
027	1 × 2	2	23,200	9.2	790	840
031	1 × 2	2	21,900	9.2	790	860
035	1 × 2	2	20,700	11.8	889	950
041	1 × 3	3	34,800	13.0	1190	1280
045	1 × 3	3	32,900	13.0	1210	1300
049	1 × 3	3	31,800	16.7	1240	1330
053	1 × 4	4	46,400	16.7	1580	1690
061	1 × 4	4	43,900	16.7	1620	1730
065	1 × 4	4	42,400	21.7	1650	1760
071	1 × 4	4	41,500	21.7	1760	1870
075	1 × 5	5	54,900	20.4	2000	2150
079	1 × 5	5	54,800	26.6	2020	2150
089	1 × 5	5	51,800	26.6	2200	2390
097	1 × 6	6	65,800	31.6	2390	2610
107	1 × 6	6	62,200	31.6	2630	2850
<b>AFD double row of fans</b>						
046	2 × 2	4	46,000	13.5	1540	1730
054	2 × 2	4	46,400	18.5	1580	1770
060	2 × 2	4	43,900	18.5	1620	1820
066	2 × 2	4	42,400	23.5	1650	1840
070	2 × 2	4	41,500	23.5	1760	1950
080	2 × 3	6	69,700	25.9	2360	2570
086	2 × 3	6	67,000	25.9	2380	2620
090	2 × 3	6	65,800	25.9	2420	2630
098	2 × 3	6	63,600	33.4	2480	2690
106	2 × 4	8	92,900	33.3	3150	3360
120	2 × 4	8	87,800	33.3	3230	3420
132	2 × 4	8	84,800	43.3	3300	3470
140	2 × 4	8	83,000	43.3	3510	3730
152	2 × 5	10	190,700	40.7	4040	4290
162	2 × 5	10	109,700	53.1	3990	4270
168	2 × 5	10	106,000	53.1	4130	4450
178	2 × 5	10	103,700	53.1	4390	4680
194	2 × 6	12	131,600	63.1	4790	5150
202	2 × 6	12	127,200	63.1	4960	5330
212	2 × 6	12	124,400	63.1	5270	5670

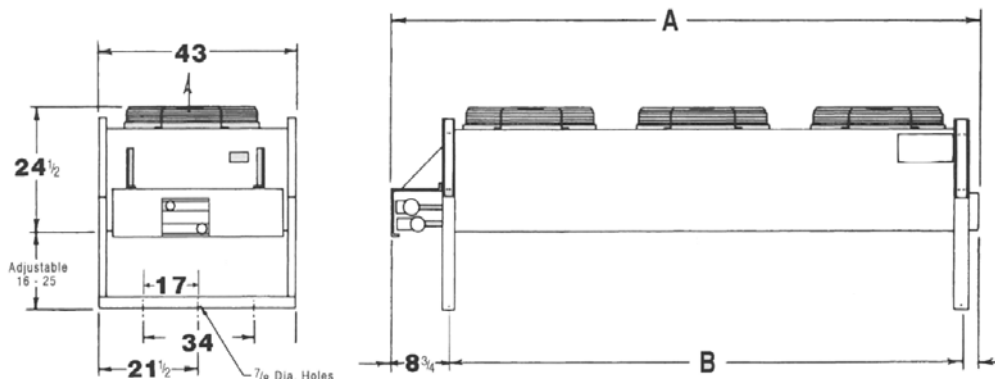
1. Net weight is unit only.

2. Operating weight based on 50% ethylene glycol at 130°F.

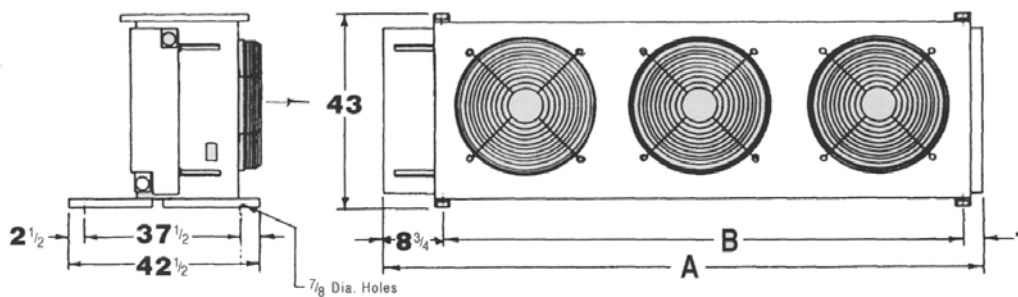
3. All fans are 30 inches in diameter.

## Direct Drive Fluid Coolers—Dimensions

AFS 005 through AFS 021 with Vertical Flow



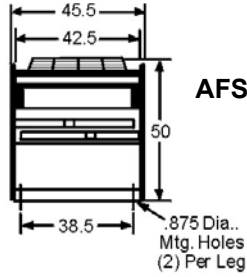
AFS 005 through AFS 021 with Horizontal Flow



AFS Model	Dimensions (inches)	
	A	B
005	39 3/4	30
008	49 3/4	40
010	69 3/4	60
012	69 3/4	60
014	89 3/4	80
016	89 3/4	80
021	129 3/4	120

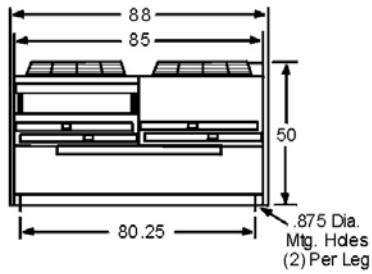
## End Views

### Single Row of Fans



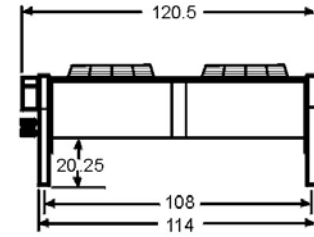
AFS 023 through AFS 107

### Double Row of Fans

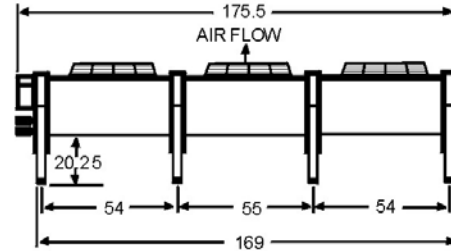


AFD 046 through AFD 212

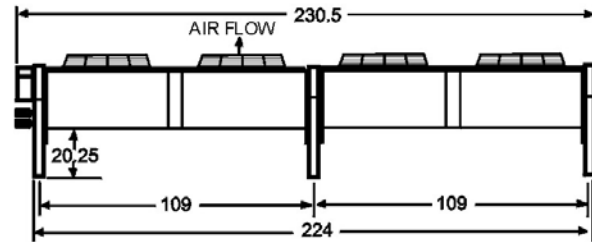
## Side Views



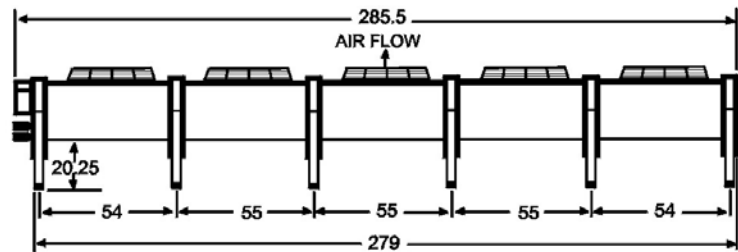
1 x 2  
2 x 2



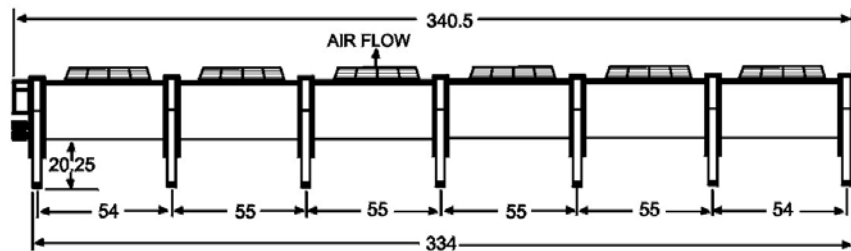
1 x 3  
2 x 3



1 x 4  
2 x 4



1 x 5  
2 x 5



1 x 6  
2 x 6