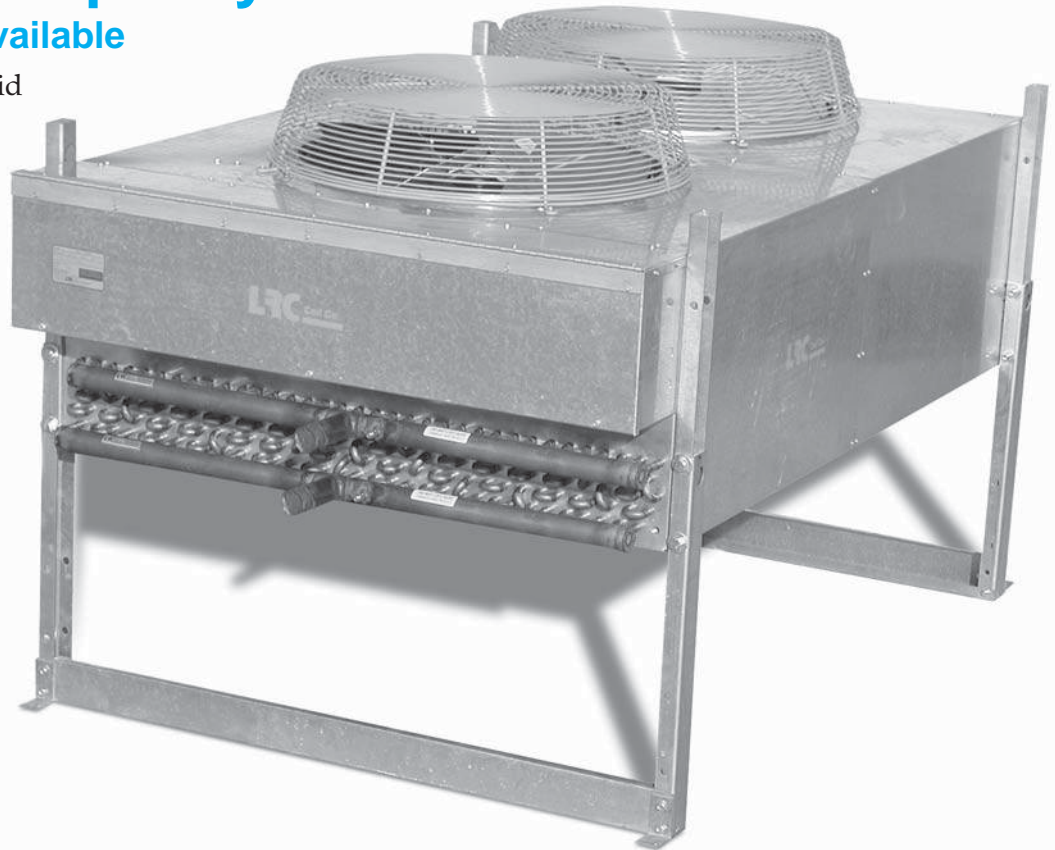


## 5 to 100 Ton Capacity

### Custom Capacities Available

LRC's remote Air Cooled Fluid Coolers (AFC) provide optimum heat transfer efficiency and are manufactured for years of dependable service. Available in 31 sizes, from 5 to 100-ton capacity, LRC's direct drive Air Cooled Fluid Coolers are designed to the latest specifications and are thoroughly tested to guarantee reliable performance. LRC's experienced team of engineers can design a single AFC unit or OEM models to meet your specific needs.

- 31 standard sizes available, from 5 to 100 nominal tons
- Single or double wide configurations
- Direct drive 1140 R.P.M. motors
- Motors are factory wired to a control box for easy installation and have standard thermal protection
- 208/230/460V and 1Ø or 3Ø motors available
- Fan baffles standard on multiple fan units to prevent short circuiting during fan cycling
- Vertical discharge standard, horizontal discharge also available
- Efficient coil design ensures maximum performance
- Aluminum or galvanized steel casing provides corrosion protection for years of service
- ETL certified



### Options Available— Call for details

#### Multi-circuiting

Controlling multiple fluid based systems with a single AFC unit is available upon request

#### Fan cycling control

Can be ordered with contactors and/or fan cycling controls.

#### Motors

High efficiency, 3Ø or permanent split capacitor motors available to save energy. Low RPM, low noise units, and variable speed fan motors and controls are available, call for details

#### Fins

8 to 14 fins per inch available. Copper fins, or phenolic, epoxy, or polyester coated aluminum fins can be ordered.

#### Horizontal Air Discharge

Available upon request for all single wide AFC units.

### Product Number Designation Example

#### AFC-19 can be broken down as

AFC = Air cooled Fluid Cooler  
19 = BTU/H times 10,000

**AFC-19** = Air cooled fluid cooler at 190,000 BTU/H

Our Application Engineers can help you design the system you need. Call us today, 562-944-1969, and we'll help you get the right LRC product for your project.

Visit [www.lrccoil.com](http://www.lrccoil.com) for installation and maintenance data, and wiring diagrams.

At LRC, we are continuously working to improve our products, therefore, we reserve the right to make changes without notice.

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## Finding the Right Fluid Cooler

To help you determine the proper Air Cooled Fluid Cooler for your project, use the Selection Example in conjunction with the Formulas below. Or you can call LRC's Application Engineers, and we'll be happy to help you select the proper AFC unit for your job.

### Selection Example

#### Location Conditions:

Altitude – 2,000 ft.

Ambient Temperature – 100°F

Entering Fluid Temperature – 140°F

Leaving Fluid Temperature – 120°F

Flow Rate – 50 GPM

Ethylene Glycol Solution – 40%

Max. Fluid Temperature Pressure Drop – 15 ft. wg.

### Calculations

1. Calculate the Average Fluid Temperature using Equation A  
Average Fluid Temp. =  $(140^{\circ}\text{F} + 120^{\circ}\text{F}) / 2$   
Average Fluid Temp. = 130°F
2. Calculate the Design Load using Equation B  
Design Load (Btu/Hr) =  $500 \times 80 \times .940 \times (140^{\circ}\text{F} - 120^{\circ}\text{F})$   
Design Load (Btu/Hr) = 752,000 Btu/Hr
3. Calculate the Fluid Temperature Difference (TD) using Equation C  
TD =  $140^{\circ}\text{F} - 100^{\circ}\text{F}$   
TD = 40°F
4. Determine the Capacity Correction Factor from Table 3  
Capacity correction factor – 1.027
5. Determine the Altitude Correction Factor from Table 4  
Altitude Correction Factor – .96
6. Calculate the Base Capacity using Equation D  
Base Capacity (MBh/°F) =  $752,000 / (1,000 \times 40 \times 1.027 \times .96)$   
Base Capacity (Mbh/°F) = 19.07

Using the AFC Capacities data, select a model that meets or exceeds the required base capacity at the required fluid flow rate. Model AFC-51 with 42 circuits will meet the capacity and maximum

pressure drop requirements.

7. Correct the Fluid Pressure Drop using Equation E  
Actual Pressure Drop =  $9.3 \times .963$   
Actual Pressure Drop = 8.96 ft. wg.
8. Calculate the actual unit rating using Equation F  
Actual Capacity –  $20.15 \times 1,000 \times 40 \times 1.027 \times .89$   
Actual Capacity – 736,708 Btu/Hr
9. Select the Header Correction size from Table 5  
2.0" headers with the same size MPT Connections will be required.

### Formulas

**Equation A** – Average Fluid Temperature =  
 $(\text{Entering Fluid Temperature} + \text{Leaving Fluid Temperature}) / 2$

**Equation B** – Design Load (Btu/Hr) =  
 $500 \times \text{Gallons Per Minute (GPM)} \times (\text{Specific Heat} \times \text{Specific Gravity}) \times (\text{Entering Fluid Temperature} - \text{Leaving Fluid Temperature})$

**Equation C** – Temperature Difference (TD) =  
 $\text{Entering Fluid Temperature} - \text{Entering Air Temperature}$

**Equation D** – Base Capacity (MBh/°F) =  
 $\text{Design Load (Btu/Hr)} / (1,000 \times \text{TD} \times \text{Capacity Correction Factor} \times \text{Altitude Correction Factor})$

**Equation E** – Actual Pressure Drop =  
 $\text{Catalog Pressure Drop} \times \text{Pressure Drop Correction Factor}$

### OUR UNCONDITIONAL GUARANTEE

We're proud of the workmanship that goes into every LRC product. Because of our exacting design and manufacturing standards, and our thorough testing prior to shipping, we unconditionally guarantee our products to be free from manufacturing defects for one year. You can count on LRC Coil for quality heat transfer products.



## AFC Capacities

Model Number	Flow # Circ.	10 gpm		20 gpm		30 gpm		40gpm		50gpm		60 gpm		70 gpm		80 gpm	
		MBh/°F	P.D.	MBh/°F	P.D.	MBh/°F	P.D.	MBh/°F	P.D.	MBh/°F	P.D.	MBh/°F	P.D.	MBh/°F	P.D.	MBh/°F	P.D.
Single Wide Units																	
AFC-5	7	1.95	3.6	2.64	12.9	2.95	27.6										
	9	1.75	1.7	2.48	6.3	2.79	13.4	2.98	23.0								
	14	1.44	0.5	2.23	2.0	2.63	4.2	2.85	7.2	3.00	11.0	3.12	15.5	3.20	20.7	3.27	26.7
	29	0.96	0.1	1.58	0.3	2.06	0.7	2.40	1.2	2.64	1.8	2.82	2.5	2.93	3.3	3.02	4.3
AFC-6	7	2.07	3.6	2.86	12.9	3.23	27.6										
	9	1.85	1.7	2.69	6.3	3.05	13.4	3.28	23.0								
	14	1.50	0.5	2.38	2.0	2.86	4.2	3.12	7.2	3.30	11.0	3.44	15.5	3.55	20.7	3.63	26.7
	29	0.99	0.1	1.66	0.3	2.20	0.7	2.59	1.2	2.88	1.8	3.07	2.5	3.20	3.3	3.31	4.3
AFC-7	10	2.15	1.8	3.15	6.6	3.57	14.2	3.55	24.3								
	14	1.90	0.7	2.93	2.8	3.48	5.9	3.77	10.1	3.97	15.3	4.12	21.6	4.23	28.9		
	21	1.51	0.2	2.50	0.9	3.12	2.0	3.51	3.4	3.73	5.2	3.90	7.3	4.03	9.8	4.13	12.5
	43	1.22	0.0	1.67	0.1	2.26	0.3	2.71	0.6	3.06	0.9	3.33	1.3	3.55	1.7	3.72	2.2
AFC-8	10	2.24	1.8	3.35	6.7	3.83	14.2	4.13	24.3								
	14	1.96	0.7	3.10	2.8	3.71	5.9	4.04	10.1	4.27	15.3	4.44	21.6				
	21	1.56	0.2	2.62	0.9	3.30	2.0	3.75	3.4	4.00	5.2	4.19	7.3	4.34	9.8	4.46	12.5
	43	1.24	0.0	1.72	0.1	2.36	0.3	2.85	0.6	3.23	0.9	3.54	1.3	3.79	1.7	3.98	2.2
AFC-9	14	2.25	1.0	3.47	3.6	4.11	7.6	4.45	12.9	4.68	19.7						
	19	1.96	0.4	3.16	1.6	3.88	3.4	4.30	5.7	4.55	8.7	4.73	12.2	4.88	16.3		
	29	1.64	0.1	2.62	0.5	3.36	1.1	3.86	1.9	4.22	2.9	4.44	4.1	4.60	5.4	4.73	7.0
	58	1.42	0.0	1.80	0.1	2.34	0.2	2.84	0.4	3.25	0.6	3.57	0.8	3.84	1.1	4.06	1.4
AFC-11	7	3.03	5.2	4.51	18.6	5.25	39.2										
	9	2.78	2.5	4.32	9.0	5.03	18.9										
	14	2.25	0.8	3.83	2.8	4.75	5.9	5.24	10.0	5.59	15.1	5.86	21.2				
	29	1.48	0.1	2.64	0.4	3.62	0.9	4.36	1.5	4.93	2.3	5.29	3.3	5.54	4.4	5.74	5.6
AFC-13	10	3.19	2.7	5.14	9.7	6.07	20.3										
	14	2.80	1.1	4.74	4.0	5.90	8.4	6.54	14.3	7.00	21.6						
	21	3.48	0.3	5.28	1.2	6.24	2.4	6.86	4.1	7.29	6.2	7.61	8.7	7.86	11.6	8.05	14.9
	43	2.27	0.0	2.62	0.2	3.74	0.5	4.64	0.8	5.35	1.2	5.93	1.7	6.40	2.2	6.78	2.9
AFC-15	10	3.24	2.7	5.26	9.7	6.24	20.3										
	14	2.83	1.1	4.84	4.0	6.05	8.4	6.73	14.3	7.21	21.6						
	21	2.26	0.3	4.11	1.3	5.41	2.8	6.32	4.8	6.82	7.2	7.20	10.1	7.50	13.4	7.74	17.2
	43	1.84	0.1	2.65	0.2	3.80	0.5	4.73	0.8	5.48	1.2	6.08	1.7	6.57	2.2	6.98	2.9
AFC-16	10	3.33	2.7	5.54	9.7	6.66	20.4										
	14	2.91	1.1	5.07	4.0	6.43	8.4	7.21	14.3	7.76	21.6						
	21	2.31	0.3	4.28	1.3	5.71	2.8	6.73	4.8	7.31	7.2	7.74	10.1	8.09	13.4	8.38	17.2
	43	1.87	0.1	2.72	0.2	3.94	0.5	4.95	0.8	5.78	1.2	6.45	1.7	7.01	2.2	7.48	2.9
AFC-19	14	3.29	1.4	5.76	5.3	7.34	11.0	8.25	18.6	8.89	28.1						
	19	2.87	0.5	5.21	2.3	6.86	4.8	7.96	8.2	8.62	12.3	9.12	17.3	9.51	22.9		
	29	2.45	0.2	4.30	0.7	5.90	1.6	7.11	2.7	8.02	4.0	8.65	5.7	9.07	7.5	9.41	9.6
	58	2.14	0.0	2.87	0.1	3.90	0.3	4.98	0.5	5.90	0.7	6.68	1.0	7.33	1.4	7.88	1.8
AFC-21	18	3.27	0.8	5.90	3.3	7.74	7.0	8.88	11.8	9.60	17.7						
	24	2.86	0.3	5.29	1.5	7.09	3.2	8.38	5.4	9.25	8.1	9.79	11.3	10.21	15.0	10.55	19.2
	36	2.67	0.1	4.27	0.4	5.95	1.1	7.25	1.8	8.24	2.8	9.01	3.9	9.59	5.1	9.95	6.5
	72	2.36	0.0	3.20	0.1	3.83	0.2	4.95	0.3	5.92	0.5	6.75	0.8	7.44	1.0	8.04	1.3
AFC-23	10	3.89	3.6	6.71	12.8	8.31	26.6										
	14	3.41	1.4	6.16	5.3	8.03	11.0	9.14	18.6								
	21	2.76	0.4	5.29	1.8	7.20	3.7	8.61	6.2	9.45	9.3	10.09	12.9	10.59	17.1	11.00	21.9
	43	2.27	0.1	3.36	0.2	4.98	0.6	6.34	1.0	7.47	1.5	8.40	2.0	9.18	2.7	9.82	3.4
AFC-24	10	3.97	3.6	7.01	12.8	8.79	26.6										
	14	3.46	1.4	6.39	5.3	8.46	11.0	9.72	18.6								
	21	2.80	0.4	5.47	1.8	7.54	3.7	9.11	6.2	10.08	9.3	10.80	12.9	11.38	17.1		
	43	2.32	0.1	3.46	0.2	5.18	0.6	6.66	1.0	7.91	1.5	8.96	2.1	9.84	2.7	10.58	3.5
AFC-28	14	3.84	1.8	7.09	6.9	9.47	14.5	10.97	24.4								
	19	3.39	0.7	6.47	3.1	8.86	6.4	10.62	10.7	11.73	16.0						
	29	2.95	0.2	5.38	0.9	7.65	2.1	9.46	3.5	10.90	5.2	11.96	7.3	1.27	9.6	13.25	12.2
	58	2.61	0.1	3.65	0.1	5.03	0.3	6.60	0.6	7.96	0.9	9.14	1.3	10.15	1.7	11.02	2.3
AFC-30	10	4.31	4.6	7.74	15.9	9.90	32.9										
	14	3.80	1.7	7.10	6.6	9.54	13.6	11.09	22.9								
	21	3.12	0.5	6.17	2.2	8.60	4.5	10.47	7.6	11.69	11.3	12.59	15.8	13.33	20.8		
	43	2.63	0.1	3.99	0.3	6.00	0.7	7.80	1.2	9.30	1.8	10.57	2.5	11.64	3.3	12.54	4.2

Capacities are based on 130°F average fluid temperature at 95° ambient using 40% ethylene glycol.



# Air Cooled Fluid Coolers

COIL COMPANY

TECHNICAL BULLETIN AFCRA 01205 A

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## AFC Capacities

Model Number	Flow		10 gpm		20 gpm		30 gpm		40gpm		50gpm		60 gpm		70 gpm		80 gpm		
	# Circ.		MBh/°F	P.D.	MBh/°F	P.D.	MBh/°F	P.D.	MBh/°F	P.D.	MBh/°F	P.D.	MBh/°F	P.D.	MBh/°F	P.D.	MBh/°F	P.D.	
Single Wide Units (continued)																			
AFC-37	14		4.13	2.2	7.81	8.6	10.69	17.9											
	19		3.70	0.8	7.21	3.8	10.06	7.9	12.28	13.2	13.77	19.8							
	29		3.28	0.3	6.09	1.1	8.79	2.5	11.02	4.3	12.83	6.4	14.25	8.9	15.21	11.7	16.01	14.9	
	58		2.94	0.1	4.23	0.2	5.88	0.4	7.79	0.7	9.48	1.1	10.97	1.5	12.26	2.0	13.38	2.5	
AFC-40	14		4.16	2.2	7.92	8.7	10.93	18.0											
	19		3.73	0.8	7.31	3.8	10.27	7.9	12.61	13.2	14.19	19.8							
	29		3.30	0.3	6.17	1.1	8.95	2.5	11.28	4.3	13.19	6.4	14.71	8.9	15.72	11.7	16.57	14.9	
	58		2.96	0.1	4.27	0.2	5.95	0.4	7.91	0.7	9.67	1.1	11.21	1.5	12.56	2.0	13.74	2.5	
AFC-46	10		4.45	4.6	8.27	15.9	10.87	33.0											
	14		3.91	1.7	7.52	6.6	10.39	13.7	12.33	22.9									
	21		3.20	0.5	6.51	2.2	9.30	4.5	11.57	7.6	13.14	11.4	14.32	15.8	15.30	20.9			
	43		2.69	0.1	4.13	0.3	6.37	0.7	8.39	1.2	10.18	1.8	11.73	2.5	13.07	3.3	14.24	4.2	
AFC-50	14		4.22	2.2	8.15	8.7	11.43	18.0	13.79	30.2									
	19		3.78	0.8	7.51	3.8	10.71	7.9	13.35	13.2	15.20	19.8							
	29		3.34	0.3	6.32	1.1	9.30	2.5	11.87	4.3	14.05	6.4	15.82	8.9	17.06	11.7	18.10	14.9	
	58		3.00	0.1	4.35	0.2	6.12	0.4	8.22	0.7	10.15	1.1	11.88	1.5	13.42	2.0	14.79	2.6	
Double Wide Units																			
AFC-25	14		6.06	5.2	9.02	18.6	10.51	39.2											
	18		5.56	2.5	8.63	9.0	10.06	18.9											
	28		4.51	0.8	7.66	2.8	9.50	5.9	10.48	10.0	11.19	15.1	11.72	21.2					
	58		2.96	0.1	5.27	0.4	7.24	0.9	8.73	1.5	9.86	2.3	10.59	3.3	11.08	4.4	11.49	5.6	
AFC-31	20		6.47	2.7	10.51	9.7	12.48	20.3											
	28		5.66	1.1	9.67	4.0	12.11	8.4	13.46	14.3	14.43	21.6							
	42		4.51	0.3	8.22	1.3	10.81	2.8	12.63	4.8	13.63	7.2	14.39	10.1	14.99	13.4	15.48	17.2	
	86		3.67	0.1	5.30	0.2	7.60	0.5	9.46	0.8	10.95	1.2	12.16	1.7	13.14	2.2	13.96	2.9	
AFC-35	20		6.67	2.7	11.09	9.7	13.33	20.4											
	28		5.81	1.1	10.13	4.0	12.87	8.4	14.41	14.3	15.53	21.6							
	42		4.61	0.3	8.56	1.3	11.41	2.8	13.46	4.8	14.61	7.2	15.49	10.1	16.18	13.4	16.75	17.2	
	86		3.74	0.1	5.44	0.2	7.88	0.5	9.90	0.8	11.55	1.2	12.91	1.7	14.03	2.2	14.95	2.9	
AFC-44	20		7.77	3.6	13.43	12.8	16.61	26.6											
	28		6.82	1.4	12.32	5.3	16.06	11.0	18.29	18.6									
	42		5.51	0.4	10.58	1.8	14.39	3.7	17.21	6.2	18.91	9.3	20.17	12.9	21.18	17.1	22.01	21.9	
	86		4.55	0.1	6.72	0.2	9.96	0.6	12.69	1.0	14.95	1.5	16.81	2.0	18.35	2.7	19.64	3.4	
AFC-51	20		7.95	3.6	14.01	12.8	17.58	26.6											
	28		6.92	1.4	12.79	5.3	16.92	11.0	19.43	18.6									
	42		5.61	0.4	10.93	1.8	15.07	3.7	18.22	6.2	20.15	9.3	21.60	12.9	22.76	17.1			
	86		4.63	0.1	6.93	0.2	10.37	0.6	13.33	1.0	15.82	1.5	17.92	2.1	19.67	2.7	21.15	3.5	
AFC-57	28		7.67	1.8	14.17	6.9	18.94	14.5	21.95	24.4									
	38		6.78	0.7	12.95	3.1	17.72	6.4	21.23	10.7	23.47	16.0							
	58		5.90	0.2	10.77	0.9	15.30	2.1	18.93	3.5	21.80	5.2	23.92	7.3	2.53	9.6	26.50	12.2	
	116		5.23	0.1	7.29	0.1	10.07	0.3	13.19	0.6	15.92	0.9	18.27	1.3	20.30	1.7	22.04	2.3	
AFC-61	20		8.62	4.6	15.48	15.9	19.79	32.9											
	28		7.60	1.7	14.19	6.6	19.07	13.6	22.17	22.9									
	42		6.24	0.5	12.35	2.2	17.20	4.5	20.95	7.6	23.38	11.3	25.19	15.8	26.65	20.8			
	86		5.25	0.1	7.97	0.3	12.01	0.7	15.60	1.2	18.61	1.8	21.14	2.5	23.27	3.3	25.07	4.2	
AFC-75	28		8.26	2.2	15.62	8.6	21.38	17.9											
	38		7.40	0.8	14.42	3.8	20.12	7.9	24.55	13.2	27.53	19.8							
	58		6.55	0.3	12.18	1.1	17.58	2.5	22.03	4.3	25.67	6.4	28.50	8.9	30.42	11.7	32.02	14.9	
	116		5.89	0.1	8.45	0.2	11.75	0.4	15.58	0.7	18.97	1.1	21.93	1.5	24.51	2.0	26.75	2.5	
AFC-80	28		8.32	2.2	15.85	8.7	21.87	18.0											
	38		7.46	0.8	14.62	3.8	20.54	7.9	25.22	13.2	28.38	19.8							
	58		6.60	0.3	12.34	1.1	17.91	2.5	22.56	4.3	26.39	6.4	29.42	8.9	31.44	11.7	33.14	14.9	
	116		5.92	0.1	8.53	0.2	11.90	0.4	15.83	0.7	19.34	1.1	22.43	1.5	25.13	2.0	27.48	2.5	
AFC-93	20		8.91	4.6	16.53	15.9	21.74	33.0											
	28		7.82	1.7	15.04	6.6	20.79	13.7	24.66	22.9									
	42		6.41	0.5	13.03	2.2	18.60	4.5	23.15	7.6	26.27	11.4	28.65	15.8	30.61	20.9			
	86		5.38	0.1	8.26	0.3	12.74	0.7	16.79	1.2	20.35	1.8	23.46	2.5	26.15	3.3	28.48	4.2	
AFC-100	28		8.44	2.2	16.30	8.7	22.86	18.0	27.58	30.2									
	38		7.55	0.8	15.03	3.8	21.42	7.9	26.69	13.2	30.39	19.8							
	58		6.69	0.3	12.65	1.1	18.60	2.5	23.74	4.3	28.09	6.4	31.64	8.9	34.11	11.7	36.20	14.9	
	116		6.00	0.1	8.71	0.2	12.23	0.4	16.45	0.7	20.29	1.1	23.75	1.5	26.84	2.0	29.58	2.6	

Capacities are based on 130°F average fluid temperature at 95° ambient using 40% ethylene glycol.

## Correction Factors

**Table 1 - Specific Heat x Specific Gravity (Sp Ht x Sp Gr)**

Glycol % Concentration	Average Fluid Temperature					
	90	100	110	120	130	140
0	1.000	1.000	1.000	1.000	1.000	1.000
20	0.967	0.967	0.967	0.967	0.966	0.965
30	0.936	0.937	0.938	0.939	0.940	0.941
40	0.887	0.891	0.894	0.897	0.899	0.901
50	0.854	0.859	0.862	0.866	0.869	0.872

**Table 2 - Pressure Drop Correction Factor**

Glycol % Concentration	Average Fluid Temperature					
	90	100	110	120	130	140
0	0.869	0.860	0.850	0.841	0.832	0.813
20	0.991	0.963	0.944	0.925	0.907	0.897
30	1.075	1.037	1.009	0.981	0.963	0.944
40	1.121	1.084	1.056	1.028	1.000	0.981
50	1.178	1.140	1.103	1.075	1.056	1.037

**Table 3 - Capacity Correction Factor**

Glycol % Concentration	Average Fluid Temperature					
	90	100	110	120	130	140
0	1.069	1.074	1.078	1.083	1.089	1.093
20	1.026	1.031	1.040	1.046	1.051	1.057
30	0.998	1.005	1.012	1.021	1.027	1.033
40	0.966	0.974	0.984	0.992	1.000	1.007
50	0.930	0.939	0.951	0.961	0.970	0.979

**Table 4 - Altitude Correction Factor**

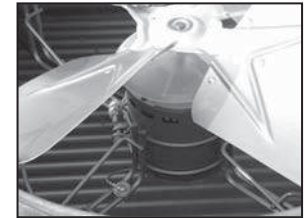
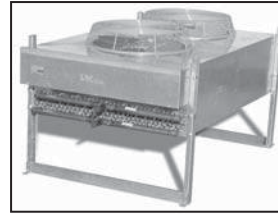
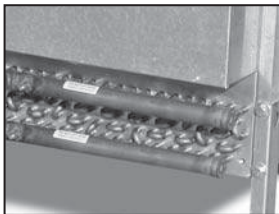
Altitude	Factor
Sea Level	1.00
1,000 ft.	0.98
2,000 ft.	0.96
3,000 ft.	0.93
4,000 ft.	0.91
5,000 ft.	0.89
6,000 ft.	0.86
7,000 ft.	0.84
8,000 ft.	0.82
9,000 ft.	0.79
10,000 ft.	0.77

**Table 5 - Header Connection Sizes**

Flow Rate (GPM)	Single Wide Units	Double Wide Units
1 to 29	1 1/2"	(2) 1 1/2"
30 to 59	2"	(2) 2"
60 to 89	2 1/2"	(2) 2 1/2"
90+	3"	(2) 3"

Our Application Engineers can help you design the system you need. Call us today, 562-944-1969, and we'll help you get the right LRC product for your project.

## Air Cooled Fluid Cooler Features



### Coils

- Every coil is 100% leak tested with dry nitrogen to guarantee it is leak free.
- Fins are made of formed corrugated aluminum for optimum heat transfer. Phenolic, epoxy, or polyester coated fins are available for additional corrosion protection.
- Tubes are seamless 1/2" copper, and are mechanically expanded for permanent fin/tube contact.
- Headers are heavy walled copper tubing, and are brazed to the coil.

### Construction

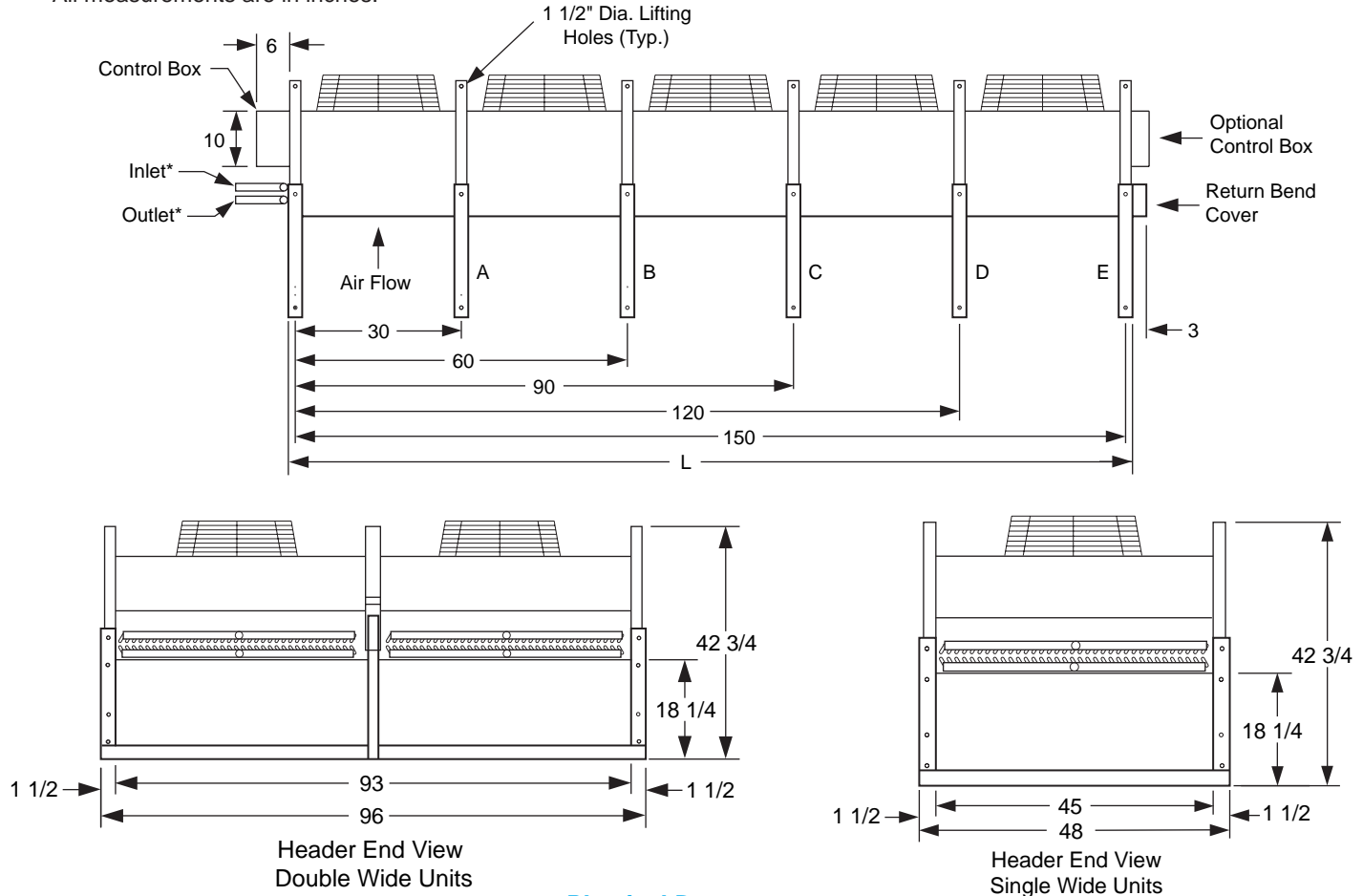
- Each condenser consists of a casing, coil, direct drive motor(s) and fan(s), approved fan guards and mounting legs.
- Housings are constructed from heavy gauge galvanized steel to provide maximum rigidity and corrosion protection.
- Headers are seamless, heavy walled copper tubing, and shall be no longer than 45".
- Tube sheets are mill finished aluminum.

### Fan Motors

- 3/4 hp, 1Ø or 3Ø direct drive motors include thermal protection and lifetime bearing lubrication.
- All motors are factory wired to a control panel, with a single power input for easy wiring connections.
- Motor assemblies are housed in a welded, heavy gauge wire structure that is zinc-chromate coated for corrosion protection.
- Each unit is designed for maximum energy efficiency, and is balanced to minimize noise and eliminate vibration.



All measurements are in inches.



Our Application Engineers can help you design the system you need. Call us today, 562-944-1969, and we'll help you get the right LRC product for your project.

**OUR UNCONDITIONAL GUARANTEE**

We're proud of the workmanship that goes into every LRC product. Because of our exacting design and manufacturing standards, and our thorough testing prior to shipping, we unconditionally guarantee our products to be free from manufacturing defects for one year. You can count on LRC Coil for quality heat transfer products.

**Physical Data**

Model Number	Fan Data		208/230/1 FLA	460/1 FLA	208/230/3 FLA	460/3 FLA	Dimensions (Inches)		Ship Wt. (lbs.)
	Qty	CFM					Leg(s)	L	
<b>Single Wide Units</b>									
AFC-5	1	8,200	4.2	2.1	3	1.5	A	32 1/4	220
AFC-6	1	8,000	4.2	2.1	3	1.5	A	32 1/4	235
AFC-7	1	7,900	4.2	2.1	3	1.5	A	32 1/4	270
AFC-8	1	7,600	4.2	2.1	3	1.5	A	32 1/4	295
AFC-9	1	7,400	4.2	2.1	3	1.5	A	32 1/4	302
AFC-11	2	16,600	8.4	4.2	6	3	B	62 1/4	340
AFC-13	2	16,200	8.4	4.2	6	3	B	62 1/4	355
AFC-15	2	15,700	8.4	4.2	6	3	B	62 1/4	370
AFC-16	2	15,300	8.4	4.2	6	3	B	62 1/4	380
AFC-17	2	14,900	8.4	4.2	6	3	B	62 1/4	400
AFC-19	2	14,400	8.4	4.2	6	3	B	62 1/4	420
AFC-21	2	13,700	8.4	4.2	6	3	B	62 1/4	480
AFC-23	3	23,600	12.6	6.3	9	4.5	B, C	92 1/4	546
AFC-24	3	23,000	12.6	6.3	9	4.5	B, C	92 1/4	560
AFC-28	3	21,700	12.6	6.3	9	4.5	B, C	92 1/4	630
AFC-30	4	31,500	16.8	8.4	12	6	B, D	122 1/4	680
AFC-37	4	29,800	16.8	8.4	12	6	B, D	122 1/4	740
AFC-40	4	28,900	16.8	8.4	12	6	B, D	122 1/4	800
AFC-46	5	38,300	21.0	10.5	15	7.5	B, C, E	152 1/4	988
AFC-50	5	37,200	21.0	10.5	15	7.5	B, C, E	152 1/4	1,062
<b>Double Wide Units</b>									
AFC-25	4	33,300	16.8	8.4	12	6	B	62 1/4	760
AFC-31	4	31,500	16.8	8.4	12	6	B	62 1/4	790
AFC-35	4	30,600	16.8	8.4	12	6	B	62 1/4	890
AFC-44	6	47,300	25.2	12.6	18	9	B, C	90 1/4	1,080
AFC-51	6	46,000	25.2	12.6	18	9	B, C	90 1/4	1,190
AFC-57	6	43,300	25.2	12.6	18	9	B, C	90 1/4	1,330
AFC-61	8	63,000	33.6	16.8	24	12	B, D	122 1/4	1,440
AFC-75	8	60,000	33.6	16.8	24	12	B, D	122 1/4	1,580
AFC-80	8	57,800	33.6	16.8	24	12	B, D	122 1/4	1,700
AFC-93	10	76,600	42.0	21.0	30	15	B, C, E	152 1/4	1,975
AFC-100	10	74,400	42.0	21.0	30	15	B, C, E	152 1/4	2,125

Fan diameter is 24" Fan Horsepower is 3/4 FLA is Full Load Amps  
 \* Inlet/outlet size based on GPM. See Capacities Chart.

**Notes**

- Mounting legs are retracted for shipping, and must be lowered in position for unit installation.
- All Dimensions are in inches.
- All mounting holes are 5/8" diameter.
- Units are available in horizontal air flow arrangements. Contact LRC's Applications Engineers for details.