Publication No. RU-GLY-0315A

GLYCOL UNIT COOLERS

Russell's glycol unit coolers are the environmentally friendly solution to your refrigeration requirements. Offered in a variety of styles, these units are specifically designed for use with glycol mixtures and are ideally suited for storage coolers and freezers for restaurants, convenience stores, warehouses and supermarkets.

Glycol unit cooler performance is determined by the interaction of five distinct variables: entering air temperature, fluid temperature, GPM flow rate, glycol type and mixture percentage.

Contact Russell's Application Engineering group to obtain optimal unit selections and precise capacity data based upon the specific requirements of your project.

Walk-In and Warehouse Models

Cooler & Freezer Applications

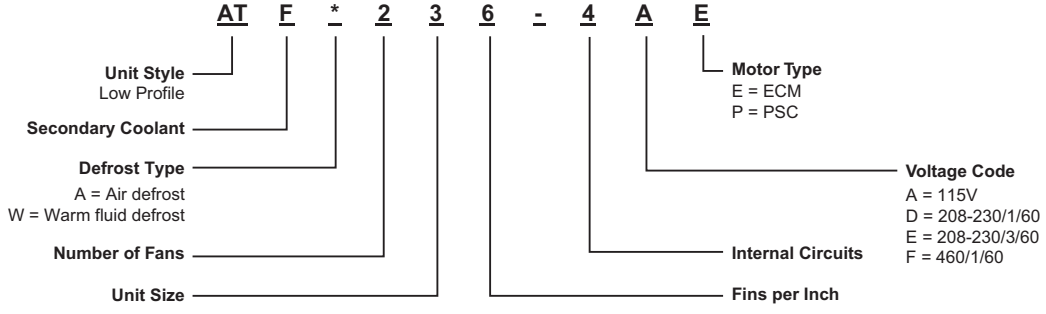
GLYCOL UNIT COOLERS

LOW PROFILE - Electrical Data

Model Number	EC Motors				PSC Motors				Warm Fluid Def. Heater Amps[1]		
	115V		230V		115V		230V		208/230V 1 PH	460V 1 PH	Watts
	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts			
ATF*118	0.9	47	0.45	47	1.0	85	0.5	85	2.2	1.1	500
ATF*128	0.9	47	0.45	47	1.0	85	0.5	85	2.2	1.1	500
ATF*138	0.9	47	0.45	47	1.0	85	0.5	85	2.2	1.1	500
ATF*218	1.8	94	0.90	94	2.0	170	1.0	170	3.5	1.8	800
ATF*228	1.8	94	0.90	94	2.0	170	1.0	170	3.5	1.8	800
ATF*238	1.8	94	0.90	94	2.0	170	1.0	170	4.4	2.2	1,000
ATF*248	1.8	94	0.90	94	2.0	170	1.0	170	3.5	1.8	800
ATF*258	1.8	94	0.90	94	2.0	170	1.0	170	4.4	2.2	1,000
ATF*318	2.7	141	1.35	141	3.0	255	1.5	255	6.5	3.2	1,500
ATF*328	2.7	141	1.35	141	3.0	255	1.5	255	6.5	3.2	1,500
ATF*418	3.6	188	1.80	188	4.0	340	2.0	340	8.7	4.4	2,000
ATF*428	3.6	188	1.80	188	4.0	340	2.0	340	8.7	4.4	2,000
ATF*518	4.5	235	2.25	235	5.0	425	2.5	425	10.9	5.5	2,500
ATF*618	5.4	282	2.70	282	6.0	510	3.0	510	13.0	12.5	3,000
ATF*628	5.4	282	2.70	282	6.0	510	3.0	510	13.0	12.5	3,000
ATF*116	0.9	47	0.45	47	1.0	85	0.5	85	2.2	1.1	500
ATF*126	0.9	47	0.45	47	1.0	85	0.5	85	2.2	1.1	500
ATF*136	0.9	47	0.45	47	1.0	85	0.5	85	2.2	1.1	500
ATF*216	1.8	94	0.90	94	2.0	170	1.0	170	3.5	1.8	800
ATF*226	1.8	94	0.90	94	2.0	170	1.0	170	3.5	1.8	800
ATF*236	1.8	94	0.90	94	2.0	170	1.0	170	4.4	2.2	1,000
ATF*246	1.8	94	0.90	94	2.0	170	1.0	170	3.5	1.8	800
ATF*256	1.8	94	0.90	94	2.0	170	1.0	170	4.4	2.2	1,000
ATF*316	2.7	141	1.35	141	3.0	255	1.5	255	6.5	3.2	1,500
ATF*326	2.7	141	1.35	141	3.0	255	1.5	255	6.5	3.2	1,500
ATF*416	3.6	188	1.80	188	4.0	340	2.0	340	8.7	4.4	2,000
ATF*426	3.6	188	1.80	188	4.0	340	2.0	340	8.7	4.4	2,000
ATF*516	4.5	235	2.25	235	5.0	425	2.5	425	10.9	5.5	2,500
ATF*616	5.4	282	2.70	282	6.0	510	3.0	510	13.0	12.5	3,000
ATF*626	5.4	282	2.70	282	6.0	510	3.0	510	13.0	12.5	3,000
ATF*114	0.9	47	0.45	47	1.0	85	0.5	85	2.2	1.1	500
ATF*124	0.9	47	0.45	47	1.0	85	0.5	85	2.2	1.1	500
ATF*134	0.9	47	0.45	47	1.0	85	0.5	85	2.2	1.1	500
ATF*214	1.8	94	0.90	94	2.0	170	1.0	170	3.5	1.8	800
ATF*224	1.8	94	0.90	94	2.0	170	1.0	170	3.5	1.8	800
ATF*234	1.8	94	0.90	94	2.0	170	1.0	170	4.4	2.2	1,000
ATF*244	1.8	94	0.90	94	2.0	170	1.0	170	3.5	1.8	800
ATF*254	1.8	94	0.90	94	2.0	170	1.0	170	4.4	2.2	1,000
ATF*314	2.7	141	1.35	141	3.0	255	1.5	255	6.5	3.2	1,500
ATF*324	2.7	141	1.35	141	3.0	255	1.5	255	6.5	3.2	1,500
ATF*414	3.6	188	1.80	188	4.0	340	2.0	340	8.7	4.4	2,000
ATF*424	3.6	188	1.80	188	4.0	340	2.0	340	8.7	4.4	2,000
ATF*514	4.5	235	2.25	235	5.0	425	2.5	425	10.9	5.5	2,500
ATF*614	5.4	282	2.70	282	6.0	510	3.0	510	13.0	12.5	3,000
ATF*624	5.4	282	2.70	282	6.0	510	3.0	510	13.0	12.5	3,000

* = A for air defrost, W for warm fluid defrost.
1. Warm fluid defrost models have electric drain pan heaters.

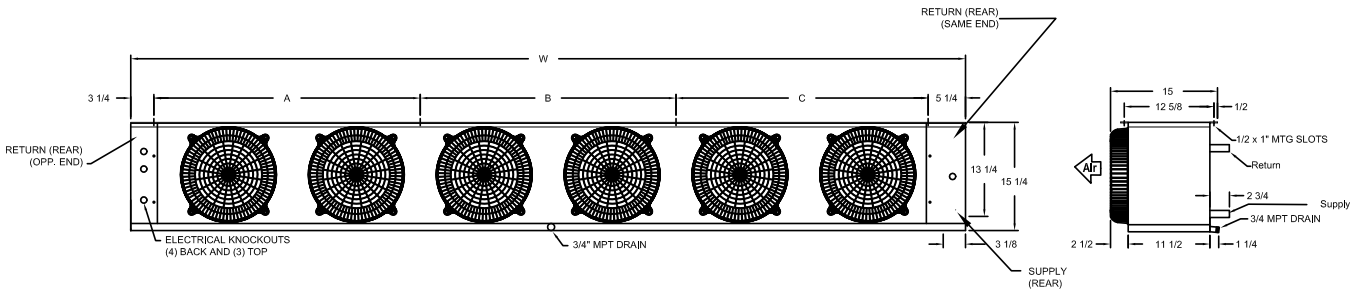
MODEL NUMBER NOMENCLATURE



LOW PROFILE - Specifications

Model Number	Fan Data		No. of Hangers	Dimensions (Inches)				Ship Wt. (lbs.)
	Qty	CFM		A	B	C	W	
ATF*118	1	800	2	19	—	—	27½	33
ATF*128	1	770	2	19	—	—	27½	34
ATF*138	1	740	2	19	—	—	27½	36
ATF*218	2	1,460	2	33	—	—	41½	48
ATF*228	2	1,420	2	33	—	—	41½	51
ATF*238	2	1,540	2	37	—	—	45½	58
ATF*248	2	1,380	2	33	—	—	41½	60
ATF*258	2	1,480	2	37	—	—	45½	63
ATF*318	3	2,310	2	55	—	—	63½	79
ATF*328	3	2,220	2	55	—	—	63½	84
ATF*418	4	3,080	3	36½	36½	—	81½	254
ATF*428	4	2,960	3	36½	36½	—	81½	262
ATF*518	5	3,850	3	54½	36½	—	99½	312
ATF*618	6	4,620	4	36½	36	36½	117½	354
ATF*628	6	4,440	4	36½	36	36½	117½	370
ATF*116	1	830	2	19	—	—	27½	41
ATF*126	1	800	2	19	—	—	27½	44
ATF*136	1	780	2	19	—	—	27½	47
ATF*216	2	1,540	2	33	—	—	41½	54
ATF*226	2	1,500	2	33	—	—	41½	55
ATF*236	2	1,600	2	37	—	—	45½	62
ATF*246	2	1,460	2	33	—	—	41½	59
ATF*256	2	1,560	2	37	—	—	45½	67
ATF*316	3	2,400	2	55	—	—	63½	78
ATF*326	3	2,340	2	55	—	—	63½	85
ATF*416	4	3,200	3	36½	36½	—	81½	255
ATF*426	4	3,120	3	36½	36½	—	81½	265
ATF*516	5	4,000	3	54½	36½	—	99½	306
ATF*616	6	4,800	4	36½	36	36½	117½	353
ATF*626	6	4,680	4	36½	36	36½	117½	368
ATF*114	1	870	2	19	—	—	27½	42
ATF*124	1	840	2	19	—	—	27½	46
ATF*134	1	830	2	19	—	—	27½	49
ATF*214	2	1,630	2	33	—	—	41½	51
ATF*224	2	1,590	2	33	—	—	41½	52
ATF*234	2	1,670	2	37	—	—	45½	59
ATF*244	2	1,550	2	33	—	—	41½	56
ATF*254	2	1,650	2	37	—	—	45½	64
ATF*314	3	2,500	2	55	—	—	63½	76
ATF*324	3	2,470	2	55	—	—	63½	83
ATF*414	4	3,330	3	36½	36½	—	81½	252
ATF*424	4	3,290	3	36½	36½	—	81½	261
ATF*514	5	4,160	3	54½	36½	—	99½	299
ATF*614	6	4,990	4	36½	36	36½	117½	351
ATF*624	6	4,940	4	36½	36	36½	117½	365

Connections		
GPM Range	ODS SWT	MPT Size
.5 - 2.8	5/8	1/2
2.9 - 6.0	7/8	3/4
6.1 - 10	1-1/8	1
10.1 - 15	1-3/8	1-1/4
15.1 - 20	1-5/8	1-1/2
20.1 - 36	2-1/8	2
36.1 - 75	2-5/8	2-1/2
> 75.1	3-1/8	3



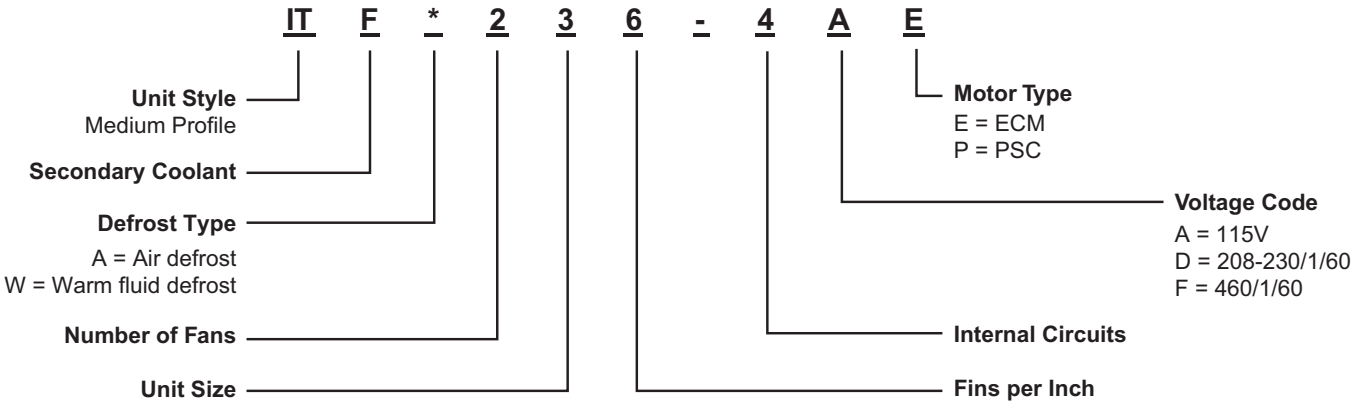
GLYCOL UNIT COOLERS

MEDIUM PROFILE - Electrical Data

Model Number	EC Motors			PSC Motors				Warm Fluid Def. Heater Amps [1]		
	115V Amps	230V/1 Amps	EC Watts	115V Amps	230V/1 Amps	460v/1 Amps	PSC Watts	208/230V 1 PH	460V 1 PH	Watts(460/230)
ITF*218	2.4	1.8	140	4.0	1.8	1.0	282	7.4	3.4	1,555/1,693
ITF*228	2.4	1.8	140	4.0	1.8	1.0	282	7.4	3.4	1,555/1,693
ITF*318	3.6	2.7	210	6.0	2.7	1.5	423	10.7	4.9	2,258/2,458
ITF*328	3.6	2.7	210	6.0	2.7	1.5	423	10.7	4.9	2,258/2,458
ITF*238	6.0	6.4	450	14.2	6.4	2.6	714	10.7	4.9	2,258/2,458
ITF*248	6.0	6.4	450	14.2	6.4	2.6	714	10.7	4.9	2,258/2,458
ITF*338	9.0	9.6	675	21.3	9.6	3.9	1,071	10.7	4.9	2,258/2,458
ITF*348	9.0	9.6	675	21.3	9.6	3.9	1,071	10.7	4.9	2,258/2,458
ITF*358	9.0	9.6	675	21.3	9.6	3.9	1,071	10.7	4.9	2,258/2,458
ITF*216	2.4	1.8	140	4.0	1.8	1.0	282	7.4	3.4	1,555/1,693
ITF*226	2.4	1.8	140	4.0	1.8	1.0	282	7.4	3.4	1,555/1,693
ITF*316	3.6	2.7	210	6.0	2.7	1.5	423	10.7	4.9	2,258/2,458
ITF*326	3.6	2.7	210	6.0	2.7	1.5	423	10.7	4.9	2,258/2,458
ITF*236	6.0	6.4	450	14.2	6.4	2.6	714	10.7	4.9	2,258/2,458
ITF*246	6.0	6.4	450	14.2	6.4	2.6	714	10.7	4.9	2,258/2,458
ITF*336	9.0	9.6	675	21.3	9.6	3.9	1,071	10.7	4.9	2,258/2,458
ITF*346	9.0	9.6	675	21.3	9.6	3.9	1,071	10.7	4.9	2,258/2,458
ITF*356	9.0	9.6	675	21.3	9.6	3.9	1,071	10.7	4.9	2,258/2,458
ITF*214	2.4	1.8	140	4.0	1.8	1.0	282	7.4	3.4	1,555/1,693
ITF*224	2.4	1.8	140	4.0	1.8	1.0	282	7.4	3.4	1,555/1,693
ITF*314	3.6	2.7	210	6.0	2.7	1.5	423	10.7	4.9	2,258/2,458
ITF*324	3.6	2.7	210	6.0	2.7	1.5	423	10.7	4.9	2,258/2,458
ITF*234	6.0	6.4	450	14.2	6.4	2.6	714	10.7	4.9	2,258/2,458
ITF*244	6.0	6.4	450	14.2	6.4	2.6	714	10.7	4.9	2,258/2,458
ITF*334	9.0	9.6	675	21.3	9.6	3.9	1,071	10.7	4.9	2,258/2,458
ITF*344	9.0	9.6	675	21.3	9.6	3.9	1,071	10.7	4.9	2,258/2,458
ITF*354	9.0	9.6	675	21.3	9.6	3.9	1,071	10.7	4.9	2,258/2,458

* = A for air defrost, W for warm fluid defrost.
1. Warm fluid defrost models have electric drain pan heaters.

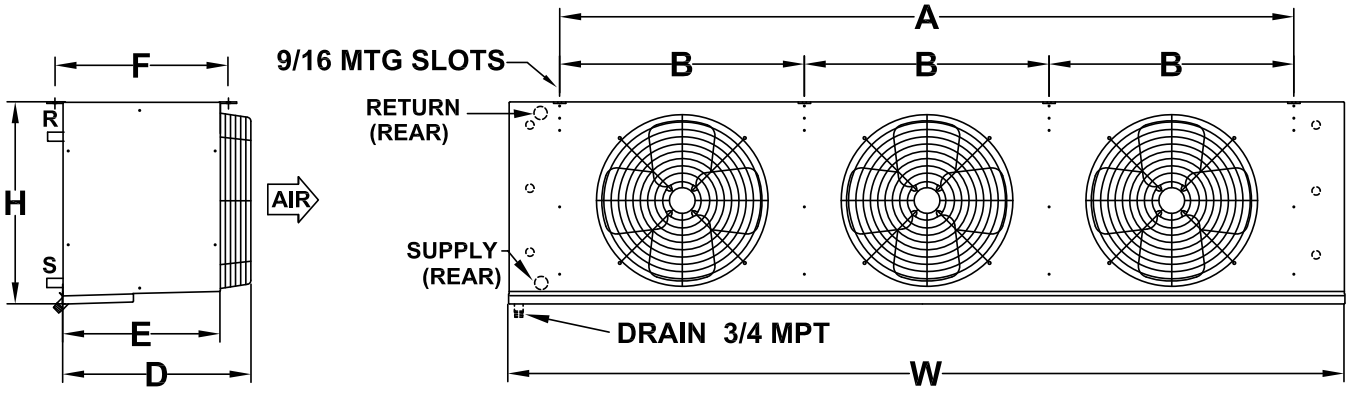
MODEL NUMBER NOMENCLATURE



MEDIUM PROFILE - Specifications

Model Number	Fan Data		No. of Hangers	Dimensions (Inches)							Ship Wt. (lbs.)
	Qty	CFM		H	W	A	B	D	E	F	
ITF*218	2	3,530	2	19	55	42	---	18-3/4	15	17	125
ITF*228	2	3,320	2	19	55	42	---	18-3/4	15	17	145
ITF*318	3	5,300	2	19	76	63	---	18-3/4	15	17	295
ITF*328	3	4,750	2	19	76	63	31-1/2	18-3/4	15	17	330
ITF*238	2	5,250	3	25	76	63	31-1/2	20	16	18	370
ITF*248	2	5,020	3	25	76	63	31	20	16	18	390
ITF*338	3	8,290	2	25	106	93	31	20	16	18	430
ITF*348	3	8,250	2	25	106	93	31	20	16	18	540
ITF*358	3	7,470	2	25	106	93	31	20	16	18	540
ITF*216	2	3,680	2	19	55	42	---	18-3/4	15	17	125
ITF*226	2	3,470	2	19	55	42	---	18-3/4	15	17	140
ITF*316	3	5,510	2	19	76	63	31-1/2	18-3/4	15	17	295
ITF*326	3	4,960	2	19	76	63	31-1/2	20	16	17	320
ITF*236	2	5,460	3	25	76	63	31-1/2	20	16	18	365
ITF*246	2	5,180	3	25	106	93	31	20	16	18	450
ITF*336	3	8,620	2	25	106	93	31	20	16	18	490
ITF*346	3	8,520	2	25	106	93	31	20	16	18	535
ITF*356	3	7,770	2	25	106	93	31	20	16	18	520
ITF*214	2	3,830	2	19	55	42	---	18-3/4	15	17	120
ITF*224	2	3,620	2	19	55	42	---	18-3/4	15	17	135
ITF*314	3	5,750	2	19	76	63	31-1/2	18-3/4	15	17	295
ITF*324	3	5,200	3	19	76	63	31-1/2	20	16	17	285
ITF*234	2	5,710	2	25	76	63	31-1/2	20	16	18	315
ITF*244	2	5,430	3	25	106	93	31	20	16	18	450
ITF*334	3	8,995	2	25	106	93	31	20	16	18	350
ITF*344	3	8,990	2	25	106	93	31	20	16	18	530
ITF*354	3	8,140	2	25	106	93	31	20	16	18	505

Connections		
GPM Range	ODS SWT	MPT Size
.5 - 2.8	5/8	1/2
2.9 - 6.0	7/8	3/4
6.1 - 10	1-1/8	1
10.1 - 15	1-3/8	1-1/4
15.1 - 20	1-5/8	1-1/2
20.1 - 36	2-1/8	2
36.1 - 75	2-5/8	2-1/2
> 75.1	3-1/8	3



GLYCOL UNIT COOLERS

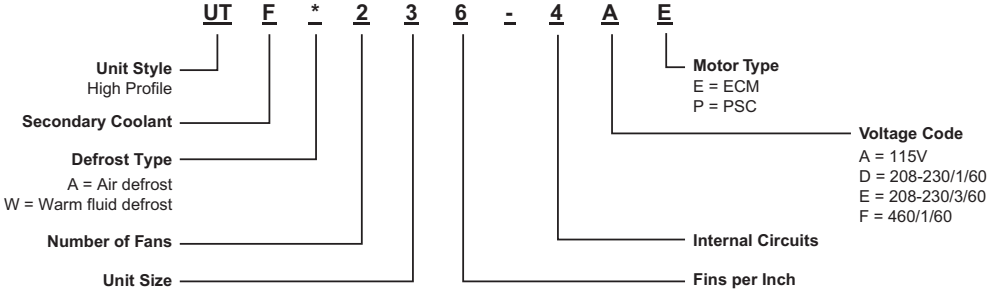
WAREHOUSE UNITS - Electrical Data

Model Number	EC Motors				PSC Motors						Warm Fluid Def. Heater Amps		
	115V Amps	230V/1 Amps	230/3 Amps	EC Watts	115V Amps	230V/1 Amps	230/3 Amps	460V/1 Amps	460V/3 Amps	PSC Watts	208/230V 1 PH	460V 1 PH	Watts
UTF*118	3.0	2.1	—	225	7.1	3.1	—	1.3	—	357	6.0	3.0	1,378
UTF*128	3.0	2.1	—	225	7.1	3.1	—	1.3	—	357	6.0	3.0	1,378
UTF*138	3.0	2.1	—	225	7.1	3.1	—	1.3	—	357	6.0	3.0	1,378
UTF*218	6.0	4.2	—	450	14.2	6.2	—	2.6	—	714	10.7	5.3	2,458
UTF*228	6.0	4.2	—	450	14.2	6.2	—	2.6	—	714	10.7	5.3	2,458
UTF*238	6.0	4.2	—	450	14.2	6.2	—	2.6	—	714	10.7	5.3	2,458
UTF*248	6.0	4.2	—	450	14.2	6.2	—	2.6	—	714	10.7	5.3	2,458
UTF*318	18.0	6.3	3.6	675	21.3	9.3	5.4	3.9	2.3	1,071	15.4	7.7	3,538
UTF*328	18.0	6.3	3.6	675	21.3	9.3	5.4	3.9	2.3	1,071	15.4	7.7	3,538
UTF*338	18.0	6.3	3.6	675	21.3	9.3	5.4	3.9	2.3	1,071	15.4	7.7	3,538
UTF*348	18.0	6.3	3.6	675	21.3	9.3	5.4	3.9	2.3	1,071	15.4	7.7	3,538
UTF*418	21.0	8.4	5.6	900	28.4	12.4	8.2	5.2	3.4	1,428	4.7	1.2	540
UTF*428	21.0	8.4	5.6	900	28.4	12.4	8.2	5.2	3.4	1,428	4.7	1.2	540
UTF*438	21.0	8.4	5.6	900	28.4	12.4	8.2	5.2	3.4	1,428	4.7	1.2	540
UTF*448	—	20.8	13.8	1,980	—	17.2	11.4	10.0	6.6	3,400	4.7	1.2	540
UTF*458	—	20.8	13.8	1,980	—	17.2	11.4	10.0	6.6	3,400	4.7	1.2	540
UTF*468	—	20.8	13.8	1,980	—	17.2	11.4	10.0	6.6	3,400	4.7	1.2	540
UTF*478	—	20.8	13.8	1,980	—	17.2	11.4	10.0	6.6	3,400	4.7	1.2	540
UTF*518	—	26.0	15.0	2,475		21.5	14.9	12.5	8.7	4,250	5.7	1.4	660
UTF*528	—	26.0	15.0	2,475		21.5	14.9	12.5	8.7	4,250	5.7	1.4	660
UTF*618	—	31.2	18.0	2,970	—	25.8	18.4	15.0	10.8	5,100	6.8	1.7	780
UTF*628	—	31.2	18.0	2,970	—	25.8	18.4	15.0	10.8	5,100	6.8	1.7	780
UTF*116	3.0	2.1	—	225	7.1	3.1	—	1.3	—	357	6.0	3.0	1,378
UTF*126	3.0	2.1	—	225	7.1	3.1	—	1.3	—	357	6.0	3.0	1,378
UTF*136	3.0	2.1	—	225	7.1	3.1	—	1.3	—	357	6.0	3.0	1,378
UTF*216	6.0	4.2	—	450	14.2	6.2	—	2.6	—	714	10.7	5.3	2,458
UTF*226	6.0	4.2	—	450	14.2	6.2	—	2.6	—	714	10.7	5.3	2,458
UTF*236	6.0	4.2	—	450	14.2	6.2	—	2.6	—	714	10.7	5.3	2,458
UTF*246	6.0	4.2	—	450	14.2	6.2	—	2.6	—	714	10.7	5.3	2,458
UTF*316	18.0	6.3	3.6	675	21.3	9.3	5.4	3.9	2.3	1,071	15.4	7.7	3,538
UTF*326	18.0	6.3	3.6	675	21.3	9.3	5.4	3.9	2.3	1,071	15.4	7.7	3,538
UTF*336	18.0	6.3	3.6	675	21.3	9.3	5.4	3.9	2.3	1,071	15.4	7.7	3,538
UTF*346	18.0	6.3	3.6	675	21.3	9.3	5.4	3.9	2.3	1,071	15.4	7.7	3,538
UTF*416	21.0	8.4	5.6	900	28.4	12.4	8.2	5.2	3.4	1,428	4.7	1.2	540
UTF*426	21.0	8.4	5.6	900	28.4	12.4	8.2	5.2	3.4	1,428	4.7	1.2	540
UTF*436	21.0	8.4	5.6	900	28.4	12.4	8.2	5.2	3.4	1,428	4.7	1.2	540
UTF*446	—	20.8	13.8	1,980	—	17.2	11.4	10.0	6.6	3,400	4.7	1.2	540
UTF*456	—	20.8	13.8	1,980	—	17.2	11.4	10.0	6.6	3,400	4.7	1.2	540
UTF*466	—	20.8	13.8	1,980	—	17.2	11.4	10.0	6.6	3,400	4.7	1.2	540
UTF*476	—	20.8	13.8	1,980	—	17.2	11.4	10.0	6.6	3,400	4.7	1.2	540
UTF*516	—	26.0	15.0	2,474	—	21.5	14.9	12.5	8.7	4,250	5.7	1.4	660
UTF*526	—	26.0	15.0	2,474	—	21.5	14.9	12.5	8.7	4,250	5.7	1.4	660
UTF*616	—	31.2	18.0	2,970	—	25.8	18.4	15.0	10.8	5,100	6.8	1.7	780
UTF*626	—	31.2	18.0	2,970	—	25.8	18.4	15.0	10.8	5,100	6.8	1.7	780
UTF*114	3.0	2.1	—	225	7.1	3.1	—	1.3	—	357	6.0	3.0	1,378
UTF*124	3.0	2.1	—	225	7.1	3.1	—	1.3	—	357	6.0	3.0	1,378
UTF*134	3.0	2.1	—	225	7.1	3.1	—	1.3	—	357	6.0	3.0	1,378
UTF*214	6.0	4.2	—	450	14.2	6.2	—	2.6	—	714	10.7	5.3	2,458
UTF*224	6.0	4.2	—	450	14.2	6.2	—	2.6	—	714	10.7	5.3	2,458
UTF*234	6.0	4.2	—	450	14.2	6.2	—	2.6	—	714	10.7	5.3	2,458
UTF*244	6.0	4.2	—	450	14.2	6.2	—	2.6	—	714	10.7	5.3	2,458
UTF*314	18.0	6.3	3.6	675	21.3	9.3	5.4	3.9	2.3	1,071	15.4	7.7	3,538
UTF*324	18.0	6.3	3.6	675	21.3	9.3	5.4	3.9	2.3	1,071	15.4	7.7	3,538
UTF*334	18.0	6.3	3.6	675	21.3	9.3	5.4	3.9	2.3	1,071	15.4	7.7	3,538
UTF*344	18.0	6.3	3.6	675	21.3	9.3	5.4	3.9	2.3	1,071	15.4	7.7	3,538
UTF*414	21.0	8.4	5.6	900	28.4	12.4	8.2	5.2	3.4	1,428	4.7	1.2	540
UTF*424	21.0	8.4	5.6	900	28.4	12.4	8.2	5.2	3.4	1,428	4.7	1.2	540
UTF*434	21.0	8.4	5.6	900	28.4	12.4	8.2	5.2	3.4	1,428	4.7	1.2	540
UTF*444	—	20.8	13.8	1,980	—	17.2	11.4	10.0	6.6	3,400	4.7	1.2	540
UTF*454	—	20.8	13.8	1,980	—	17.2	11.4	10.0	6.6	3,400	4.7	1.2	540
UTF*464	—	20.8	13.8	1,980	—	17.2	11.4	10.0	6.6	3,400	4.7	1.2	540
UTF*474	—	20.8	13.8	1,980	—	17.2	11.4	10.0	6.6	3,400	4.7	1.2	540
UTF*514	—	26.0	15.0	2,475	—	21.5	14.9	12.5	8.7	4,250	5.7	1.4	660
UTF*524	—	26.0	15.0	2,475	—	21.5	14.9	12.5	8.7	4,250	5.7	1.4	660
UTF*614	—	31.2	18.0	2,970	—	25.8	18.4	15.0	10.8	5,100	6.8	1.7	780
UTF*624	—	31.2	18.0	2,970	—	25.8	18.4	15.0	10.8	5,100	6.8	1.7	780

* = A for air defrost, W for warm fluid defrost. Note: Warm fluid defrost models have electric drain pan heaters.

All models have single phase motors. Three fan models and larger are delta wired to accept three phase supply power.

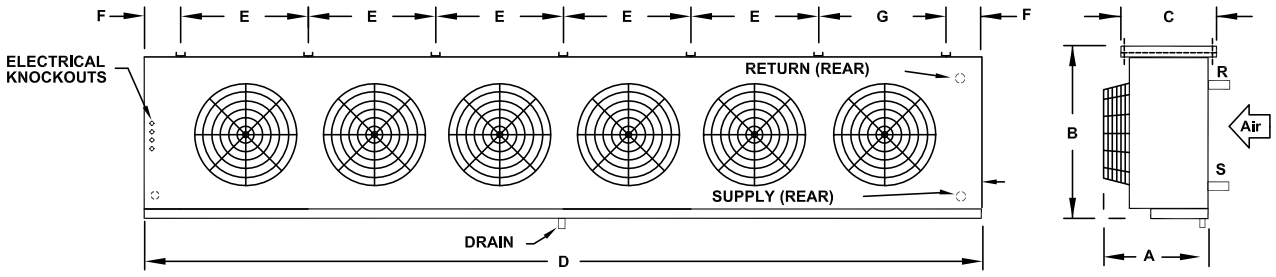
MODEL NUMBER NOMENCLATURE



WAREHOUSE UNITS - Specifications

Model Number	Fan Data		Dimensions (Inches)							Qty of Hangers	Drain	Ship Wt. (lbs.)
	Qty	CFM	A	B	C	D	E	F	G			
UTF*118	1	2,880	22 3/8	25-3/4	22-1/2	46-1/2	30	8-3/8	29-3/8	2	3/4	210
UTF*128	1	2,800	22 3/8	25-3/4	22-1/2	46-1/2	30	8-3/8	29-3/8	2	3/4	220
UTF*138	1	2,720	22 3/8	25-3/4	22-1/2	46-1/2	30	8-3/8	29-3/8	2	3/4	230
UTF*218	2	6,880	22 3/8	26	22-1/2	76-1/2	30	8-3/8	29-3/8	3	3/4	370
UTF*228	2	6,600	22 3/8	26	22-1/2	76-1/2	30	8-3/8	29-3/8	3	3/4	410
UTF*238	2	6,400	24 1/8	31-3/4	22-1/2	76-1/2	30	8-3/8	29-3/8	3	3/4	435
UTF*248	2	6,250	24 1/8	31-3/4	22-1/2	76-1/2	30	8-3/8	29-3/8	3	3/4	455
UTF*318	3	9,800	24 1/8	32	22-1/2	106-1/2	30	8-3/8	29-3/8	4	3/4	550
UTF*328	3	9,600	24 1/8	32	22-1/2	106-1/2	30	8-3/8	29-3/8	4	3/4	600
UTF*338	3	9,400	24 1/8	32	22-1/2	106-1/2	30	8-3/8	29-3/8	4	3/4	635
UTF*348	3	9,200	24 1/8	32	22-1/2	106-1/2	30	8-3/8	29-3/8	4	3/4	665
UTF*418	4	12,800	24 1/8	32-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	690
UTF*428	4	12,500	24 1/8	32-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	746
UTF*438	4	12,200	24 1/8	32-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	830
UTF*448	4	21,100	24 1/8	50-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	890
UTF*458	4	20,700	24 1/8	50-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	905
UTF*468	4	20,300	24 1/8	50-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	915
UTF*478	4	19,900	24 1/8	50-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	930
UTF*518	5	25,400	24 1/8	50-1/2	22-1/2	166-1/2	30	8-3/8	29-3/8	6	1-1/4	1,125
UTF*528	5	24,900	24 1/8	50-1/2	22-1/2	166-1/2	30	8-3/8	29-3/8	6	1-1/4	1,165
UTF*618	6	30,500	24 1/8	50-3/4	22-1/2	196-1/2	30	8-3/8	29-3/8	7	1-1/4	1,345
UTF*628	6	29,900	24 1/8	50-3/4	22-1/2	196-1/2	30	8-3/8	29-3/8	7	1-1/4	1,395
UTF*116	1	2,920	22 3/8	25-3/4	22-1/2	46-1/2	30	8-3/8	29-3/8	2	3/4	210
UTF*126	1	2,920	22 3/8	25-3/4	22-1/2	46-1/2	30	8-3/8	29-3/8	2	3/4	220
UTF*136	1	2,840	22 3/8	25-3/4	22-1/2	46-1/2	30	8-3/8	29-3/8	2	3/4	230
UTF*216	2	7,000	22 3/8	26	22-1/2	46-1/2	30	8-3/8	29-3/8	3	3/4	370
UTF*226	2	6,840	22 3/8	26	22-1/2	76-1/2	30	8-3/8	29-3/8	3	3/4	410
UTF*236	2	6,640	24 1/8	31-3/4	22-1/2	76-1/2	30	8-3/8	29-3/8	3	3/4	435
UTF*246	2	6,480	24 1/8	31-3/4	22-1/2	76-1/2	30	8-3/8	29-3/8	3	3/4	455
UTF*316	3	10,100	24 1/8	32	22-1/2	106-1/2	30	8-3/8	29-3/8	4	3/4	550
UTF*326	3	9,960	24 1/8	32	22-1/2	106-1/2	30	8-3/8	29-3/8	4	3/4	600
UTF*336	3	9,720	24 1/8	32	22-1/2	106-1/2	30	8-3/8	29-3/8	4	3/4	635
UTF*346	3	9,450	24 1/8	32	22-1/2	106-1/2	30	8-3/8	29-3/8	4	3/4	665
UTF*416	4	13,280	24 1/8	32-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	690
UTF*426	4	12,960	24 1/8	32-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	746
UTF*436	4	12,500	24 1/8	32-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	830
UTF*446	4	21,700	24 1/8	50-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	890
UTF*456	4	21,200	24 1/8	50-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	905
UTF*466	4	20,800	24 1/8	50-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	915
UTF*476	4	20,400	24 1/8	50-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	930
UTF*516	5	26,000	24 1/8	50-1/2	22-1/2	166-1/2	30	8-3/8	29-3/8	6	1-1/4	1,125
UTF*526	5	25,500	24 1/8	50-1/2	22-1/2	166-1/2	30	8-3/8	29-3/8	6	1-1/4	1,165
UTF*616	6	31,200	24 1/8	50-3/4	22-1/2	196-1/2	30	8-3/8	29-3/8	7	1-1/4	1,345
UTF*626	6	30,600	24 1/8	50-3/4	22-1/2	196-1/2	30	8-3/8	29-3/8	7	1-1/4	1,395
UTF*114	1	3,750	22 3/8	25-3/4	22-1/2	46-1/2	30	8-3/8	29-3/8	2	3/4	210
UTF*124	1	3,750	22 3/8	25-3/4	22-1/2	46-1/2	30	8-3/8	29-3/8	2	3/4	220
UTF*134	1	3,650	22 3/8	25-3/4	22-1/2	46-1/2	30	8-3/8	29-3/8	2	3/4	230
UTF*214	2	7,700	22 3/8	26	22-1/2	76-1/2	30	8-3/8	29-3/8	3	3/4	370
UTF*224	2	7,500	22 3/8	26	22-1/2	76-1/2	30	8-3/8	29-3/8	3	3/4	410
UTF*234	2	8,500	22 3/8	31-3/4	22-1/2	76-1/2	30	8-3/8	29-3/8	3	3/4	435
UTF*244	2	8,300	22 3/8	31-3/4	22-1/2	76-1/2	30	8-3/8	29-3/8	3	3/4	455
UTF*314	3	13,100	22 3/8	32	22-1/2	106-1/2	30	8-3/8	29-3/8	4	3/4	550
UTF*324	3	12,750	22 3/8	32	22-1/2	106-1/2	30	8-3/8	29-3/8	4	3/4	600
UTF*334	3	12,450	24 1/8	32	22-1/2	106-1/2	30	8-3/8	29-3/8	4	3/4	635
UTF*344	3	12,100	24 1/8	32	22-1/2	106-1/2	30	8-3/8	29-3/8	4	3/4	665
UTF*414	4	17,000	24 1/8	32-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	690
UTF*424	4	16,600	24 1/8	32-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	746
UTF*434	4	16,400	24 1/8	32-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	830
UTF*444	4	22,000	24 1/8	50-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	890
UTF*454	4	21,600	24 1/8	50-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	905
UTF*464	4	21,300	24 1/8	50-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	915
UTF*474	4	20,800	24 1/8	50-1/4	22-1/2	136-1/2	30	8-3/8	29-3/8	5	1-1/4	930
UTF*514	5	26,600	24 1/8	50-1/2	22-1/2	166-1/2	30	8-3/8	29-3/8	6	1-1/4	1,125
UTF*524	5	26,250	24 1/8	50-1/2	22-1/2	166-1/2	30	8-3/8	29-3/8	6	1-1/4	1,165
UTF*614	6	31,900	24 1/8	50-3/4	22-1/2	196-1/2	30	8-3/8	29-3/8	7	1-1/4	1,345
UTF*624	6	32,400	24 1/8	50-3/4	22-1/2	196-1/2	30	8-3/8	29-3/8	7	1-1/4	1,395

Connections		
GPM Range	ODS SWT	MPT Size
.5 - 2.8	5/8	1/2
2.9 - 6.0	7/8	3/4
6.1 - 10	1-1/8	1
10.1 - 15	1-3/8	1-1/4
15.1 - 20	1-5/8	1-1/2
20.1 - 36	2-1/8	2
36.1 - 75	2-5/8	2-1/2
> 75.1	3-1/8	3



1) FLUID CONNECTIONS ARE ON THE AIR INLET SIDE (REAR) OF THE UNIT.
2) HANGER SLOTS ARE 1/2 X 1-1/4

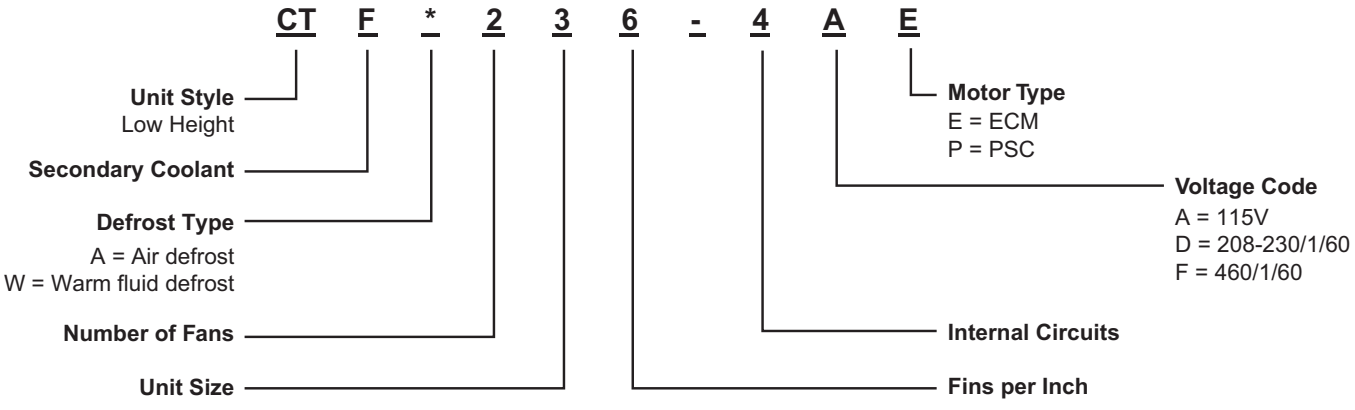
GLYCOL UNIT COOLERS

TWO-WAY DISCHARGE - Electrical Data

Model Number	EC Motors				PSC Motors				Warm Fluid Def. Heater Amps [1]				Watts
	115V		230V		115V		230V		115V 1 PH	208/230V		460V 1 PH	
	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts		1 PH	3 PH		
CTF*318	1.2	105	0.6	105	1.1	153	N/A	N/A	N/A	9.0	N/A	4.5	2,070
CTF*328	1.2	105	0.6	105	1.1	153	N/A	N/A	N/A	9.0	N/A	4.5	2,070
CTF*338	1.2	105	0.6	105	1.1	153	N/A	N/A	N/A	9.0	N/A	4.5	2,070
CTF*418	1.6	140	0.8	140	1.4	204	N/A	N/A	N/A	13.0	N/A	6.5	2,990
CTF*428	1.6	140	0.8	140	1.4	204	N/A	N/A	N/A	13.0	N/A	6.5	2,990
CTF*438	1.6	140	0.8	140	1.4	204	N/A	N/A	N/A	13.0	N/A	6.5	2,990
CTF*518	2.0	175	1.0	175	1.8	255	N/A	N/A	N/A	17.0	N/A	8.5	3,910
CTF*448	1.6	140	0.8	140	1.4	204	N/A	N/A	N/A	17.0	N/A	8.5	3,910
CTF*528	2.0	175	1.0	175	1.8	255	N/A	N/A	N/A	17.0	N/A	8.5	3,910
CTF*618	2.4	210	1.2	210	2.2	306	N/A	N/A	N/A	17.0	N/A	8.2	3,910
CTF*316	1.2	105	0.6	105	1.1	153	N/A	N/A	N/A	9.0	N/A	4.5	2,070
CTF*326	1.2	105	0.6	105	1.1	153	N/A	N/A	N/A	9.0	N/A	4.5	2,070
CTF*336	1.2	105	0.6	105	1.1	153	N/A	N/A	N/A	9.0	N/A	4.5	2,070
CTF*416	1.6	140	0.8	140	1.4	204	N/A	N/A	N/A	13.0	N/A	6.5	2,990
CTF*426	1.6	140	0.8	140	1.4	204	N/A	N/A	N/A	13.0	N/A	6.5	2,990
CTF*436	1.6	140	0.8	140	1.4	204	N/A	N/A	N/A	13.0	N/A	6.5	2,990
CTF*516	2.0	175	1.0	175	1.8	255	N/A	N/A	N/A	17.0	N/A	8.5	3,910
CTF*446	1.6	140	0.8	140	1.4	204	N/A	N/A	N/A	17.0	N/A	8.5	3,910
CTF*526	2.0	175	1.0	175	1.8	255	N/A	N/A	N/A	17.0	N/A	8.5	3,910
CTF*616	2.4	210	1.2	210	2.2	306	N/A	N/A	N/A	17.0	N/A	8.2	3,910
CTF*314	1.2	105	0.6	105	1.1	153	N/A	N/A	N/A	9.0	N/A	4.5	2,070
CTF*324	1.2	105	0.6	105	1.1	153	N/A	N/A	N/A	9.0	N/A	4.5	2,070
CTF*334	1.2	105	0.6	105	1.1	153	N/A	N/A	N/A	9.0	N/A	4.5	2,070
CTF*414	1.6	140	0.8	140	1.4	204	N/A	N/A	N/A	13.0	N/A	6.5	2,990
CTF*424	1.6	140	0.8	140	1.4	204	N/A	N/A	N/A	13.0	N/A	6.5	2,990
CTF*434	1.6	140	0.8	140	1.4	204	N/A	N/A	N/A	13.0	N/A	6.5	2,990
CTF*514	2.0	175	1.0	175	1.8	255	N/A	N/A	N/A	17.0	N/A	8.5	3,910
CTF*444	1.6	140	0.8	140	1.4	204	N/A	N/A	N/A	17.0	N/A	8.5	3,910
CTF*524	2.0	175	1.0	175	1.8	255	N/A	N/A	N/A	17.0	N/A	8.5	3,910
CTF*414	2.4	210	1.2	210	2.2	306	N/A	N/A	N/A	17.0	N/A	8.2	3,910

* = A for air defrost, W for warm fluid defrost. 1. Warm fluid defrost models have electric drain pan heaters.

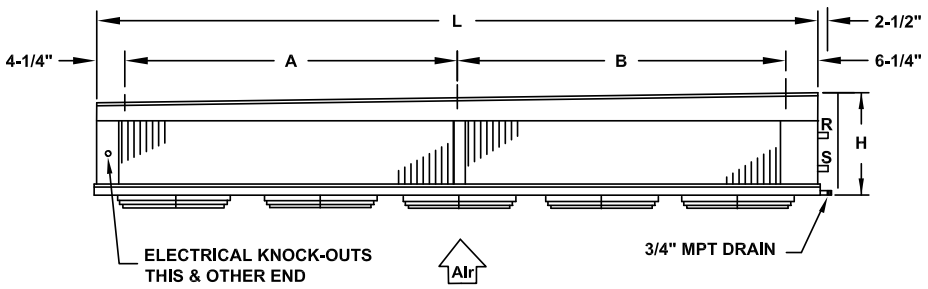
MODEL NUMBER NOMENCLATURE

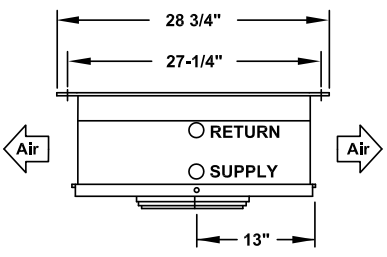


TWO-WAY DISCHARGE - Specifications

Models	Fan Data		Dimensions (in)				SHIP WT. (LBS)
	Qty	CFM	L	H	A	B	
CTF*318	3	1,460	58-1/2	9	24	24	95
CTF*328	3	1,310	58-1/2	9	24	24	100
CTF*338	3	1,200	58-1/2	9	24	24	105
CTF*418	4	2,120	82-1/2	9-3/4	36	36	125
CTF*428	4	1,920	82-1/2	9-3/4	36	36	130
CTF*438	4	1,760	82-1/2	9-3/4	36	36	135
CTF*518	5	2,320	106-1/2	9-3/4	48	48	150
CTF*448	4	1,820	106-1/2	11-1/4	48	48	155
CTF*528	5	2,650	106-1/2	11-1/4	48	48	165
CTF*618	6	2,970	106-1/2	11-1/4	48	48	185
CTF*316	3	1,530	58-1/2	9	24	24	95
CTF*326	3	1,380	58-1/2	9	24	24	100
CTF*336	3	1,270	58-1/2	9	24	24	105
CTF*416	4	2,210	82-1/2	9-3/4	36	36	125
CTF*426	4	2,020	82-1/2	9-3/4	36	36	130
CTF*436	4	1,860	82-1/2	9-3/4	36	36	135
CTF*516	5	2,440	106-1/2	9-3/4	48	48	150
CTF*446	4	1,870	106-1/2	11-1/4	48	48	155
CTF*526	5	2,760	106-1/2	11-1/4	48	48	165
CTF*616	6	3,100	106-1/2	11-1/4	48	48	185
CTF*314	3	1,600	58-1/2	9	24	24	90
CTF*324	3	1,470	58-1/2	9	24	24	120
CTF*334	3	1,360	58-1/2	9	24	24	95
CTF*414	4	2,310	82-1/2	9-3/4	36	36	100
CTF*424	4	2,130	82-1/2	9-3/4	36	36	125
CTF*434	4	1,980	82-1/2	9-3/4	36	36	130
CTF*514	5	2,580	106-1/2	9-3/4	48	48	145
CTF*444	4	1,930	106-1/2	11-1/4	48	48	160
CTF*524	5	2,870	106-1/2	11-1/4	48	48	150
CTF*414	6	3,270	106-1/2	11-1/4	48	48	180

Connections		
GPM Range	ODS SWT	MPT Size
.5 - 2.8	5/8	1/2
2.9 - 6.0	7/8	3/4
6.1 - 10	1-1/8	1
10.1 - 15	1-3/8	1-1/4
15.1 - 20	1-5/8	1-1/2
20.1 - 36	2-1/8	2
36.1 - 75	2-5/8	2-1/2
> 75.1	3-1/8	3





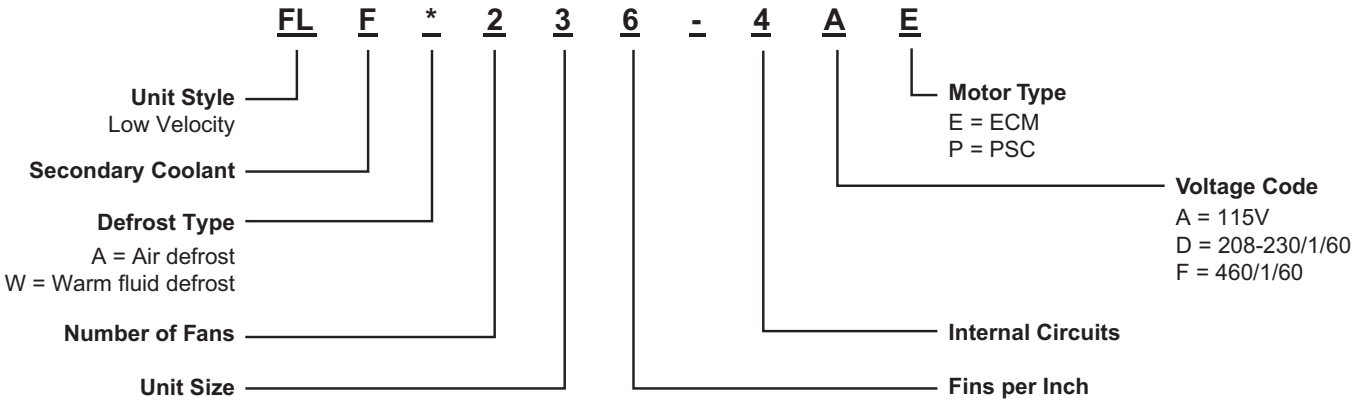
GLYCOL UNIT COOLERS

LOW VELOCITY - Electrical Data

Model Number	EC Motors			PSC Motors				Warm Fluid Def. Heater Amps 1			
	115V	230V/1	EC	115V	230V/1	460V/1	PSC	115V 1		208/230V /1	
	Amps	Amps	Watts	Amps	Amps	Amps	Watts	1 PH	Watts	1 PH	Watts
FLF*116	0.6	0.3	35	0.4	0.3	0.2	50	2.2	250	2.0	225
FLF*216	1.2	0.6	70	0.8	0.6	0.3	100	2.2	250	2.0	225
FLF*226	1.2	0.6	70	0.8	0.6	0.3	100	2.2	250	2.0	225
FLF*316	1.8	0.9	105	1.2	0.9	0.5	150	5.2	600	4.7	540
FLF*326	1.8	0.9	105	1.2	0.9	0.5	150	5.2	600	4.7	540
FLF*416	2.4	1.2	140	1.6	1.2	0.6	200	5.2	600	4.7	540
FLF*426	2.4	1.2	140	1.6	1.2	0.6	200	5.2	600	4.7	540
FLF*516	3.0	1.5	175	2.0	1.5	0.8	250	8.7	1,000	7.8	900
FLF*616	3.6	1.8	210	2.4	1.8	0.9	300	10.9	1,250	7.8	900

* = A for air defrost, W for warm fluid defrost.
1. Warm fluid defrost models have electric drain pan heaters.

MODEL NUMBER NOMENCLATURE

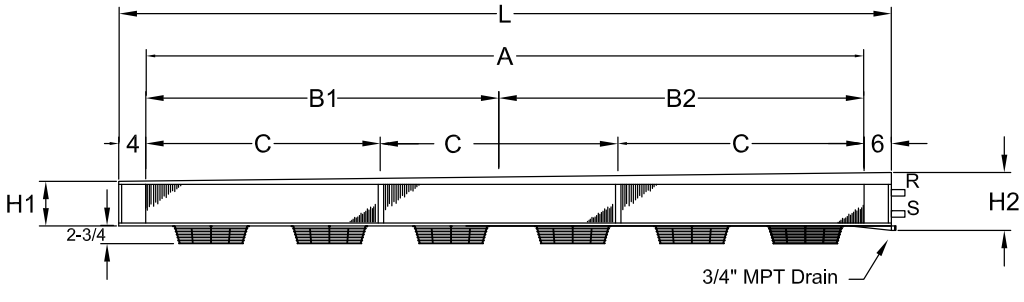


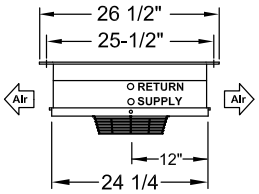
GLYCOL UNIT COOLERS

LOW VELOCITY - Specifications

Model Number	Fan Data		Dimension in Inches							Unit Weight (Lbs)
	QTY	CFM	H1	H2	Mounting Hole Centers				L	
					A	B1	B2	C		
FLF*116	1	580	6-1/2	8	38	—	—	—	48	50
FLF*216	2	800	6-1/2	8-1/4	57	—	—	—	67	75
FLF*226	2	1,110	6-1/2	8-1/4	57	—	—	—	67	75
FLF*316	3	1,720	9	11-1/4	—	38	37	—	85	100
FLF*326	3	1,720	10-1/4	12-1/2	—	38	37	—	85	110
FLF*416	4	2,330	11-1/2	13-3/4	—	38	37	—	85	120
FLF*426	4	2,290	11-1/2	13-3/4	—	38	37	—	85	130
FLF*516	5	2,860	11-1/2	13-3/4	—	43	43	—	96	150
FLF*616	6	3,420	11-1/2	13-3/4	—	—	—	36-5/8	120	180

Connections		
GPM Range	ODS SWT	MPT Size
.5 - 2.8	5/8	1/2
2.9 - 6.0	7/8	3/4
6.1 - 10	1-1/8	1
10.1 - 15	1-3/8	1-1/4
15.1 - 20	1-5/8	1-1/2
20.1 - 36	2-1/8	2
36.1 - 75	2-5/8	2-1/2
> 75.1	3-1/8	3





GLYCOL UNIT COOLERS

Due to continuing product development, specifications are subject to change without notice.