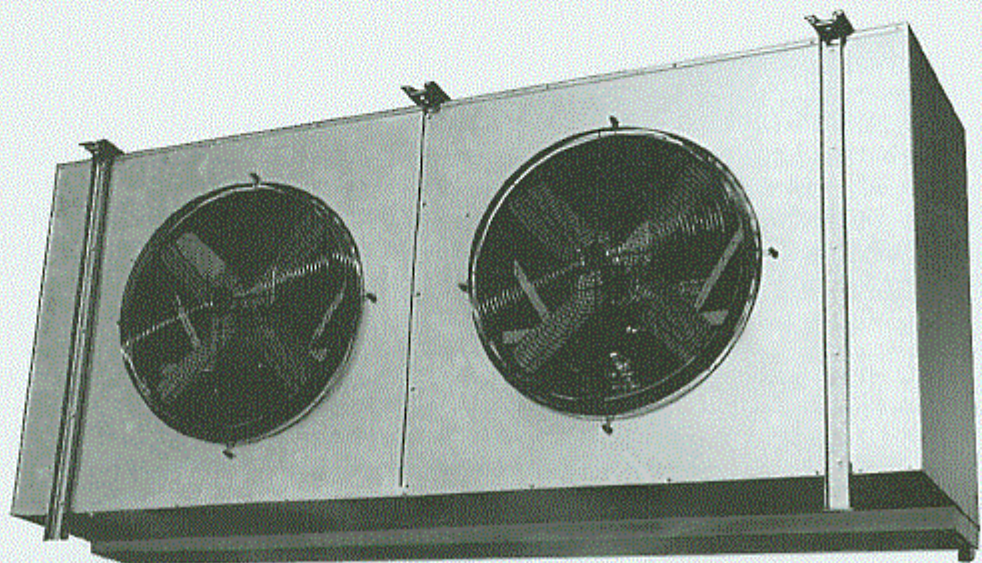


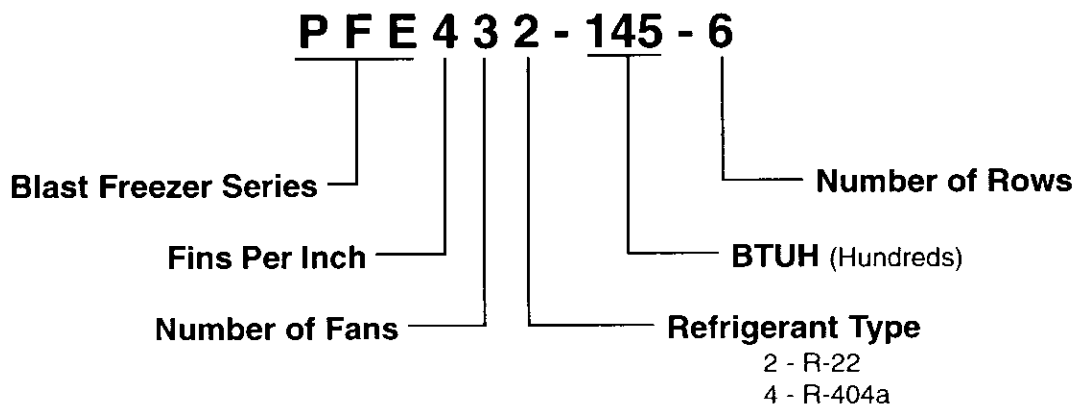
CENTURY
REFRIGERATION

PFE Series

Blaster Freezer - Unit Coolers



NOMENCLATURE



STANDARD CONSTRUCTION

Century Refrigeration PFE Unit Coolers for blast freezer and wet cooler applications are designed to meet the rigors of the industrial refrigeration market. Our selection of fans, motor horsepower, coil circuiting, and blade configuration provides a wide range of unit coolers to meet your specific project needs.

PFE unit cooler cabinets are designed with corrosion resistant G-90 mill galvanized sheet metal. Cabinet structure is designed for ceiling or stacked floor mounting. Drain pans are insulated aluminum with factory supplied drain connection.

Century PFE Unit Coolers provide optimum air throw with our 28" heavy duty, efficient airfoil cast aluminum fan blades. Draw-thru configuration provides enhanced air throw for freezer applications. Static requirements are efficiently addressed with the airfoil cast aluminum blade configuration, and fan icing is kept to a minimum due to the draw-thru design.

Industrial duty three phase, permanently lubricated fan motors with ball bearings are provided in either 1 1/2 horsepower or 3 horsepower selections to meet the most demanding static requirements. 1 1/2 horsepower, 1140 RPM motors and 3 horsepower, 1750 RPM motors are

open drip proof as standard. TEAO motors are available as an option if desired. Motors are inherently protected, thus reducing the need for additional control panel space for motor overloads.

PFE unit coolers are supplied with high efficiency, custom circuited heat transfer coils. Coils are manufactured with copper tubes and aluminum fins. Six (6) row, eight (8) row, and ten (10) row coils are available for various application requirements. Five (5) fin per inch coils are available for blast chilling applications and four (4) fin per inch coils are available for blast freezing applications. Forty-eight (48) models are available with various combinations of fins, rows, motors, and fan blades to meet a multitude of project requirements.

Defrosting of the coils may be accomplished by electric defrost, air defrost, or 3 pipe hot gas defrost. The electric defrost is accomplished by chromate heaters designed specifically for the application. Heater location facilitates rapid defrost with less down time and quicker recovery. Air defrost may be used on blast chiller applications with less than 16 hours of run time per day and five (5) fin per inch coils. Hot gas defrost may be used on chiller freezer applications and is supplied with hot gas defrost drain pan.

OPTIONS

- TEAO Fan Motors
- Time Clock
- Fan Delay Control
- Floor Mounting
- Special Fin Materials
- Multiple Circuits
- Check Valves
- Solenoid Valves
- Extended Throw Nozzles

CAPACITY DATA

**3 HP 1,750 RPM Fans
Dry Surface**

Model		0" External Static			.25" External Static			.5" External Static		
		CFM	BTUH @ -20 SST	Face Velocity	CFM	BTUH @ -20 SST	Face Velocity	CFM	BTUH @ -20 SST	Face Velocity
1 Fan	PFE 410-52-6	11,510	51,580	792	10,660	49,350	734	9,650	46,490	664
	PFE 410-60-8	10,840	59,630	746	9,970	56,590	685	8,980	53,170	618
	PFE 410-67-10	10,360	67,370	713	9,480	63,590	652	8,520	59,350	586
	PFE 510-57-6	11,280	56,860	776	10,440	54,630	719	9,410	51,500	647
	PFE 510-66-8	10,550	65,580	726	9,680	62,300	666	8,720	58,380	600
	PFE 510-72-10	10,030	71,820	690	9,200	68,100	633	8,240	63,460	567
2 Fan	PFE 420-103-6	23,030	103,150	792	21,320	98,710	734	19,290	92,980	664
	PFE 420-119-8	21,680	119,250	746	19,940	113,180	685	17,960	106,340	618
	PFE 420-135-10	20,710	134,740	713	18,950	127,170	652	17,040	118,710	586
	PFE 520-114-6	22,570	113,720	776	20,880	109,250	719	18,820	102,990	647
	PFE 520-131-8	21,100	131,150	726	19,360	124,610	666	17,430	116,760	600
	PFE 520-144-10	20,060	143,640	690	18,390	136,200	633	16,490	126,930	567
3 Fan	PFE 430-145-6	33,450	144,140	863	30,810	137,810	795	27,700	129,620	715
	PFE 430-166-8	30,980	166,300	800	28,430	157,340	734	25,450	146,990	657
	PFE 430-187-10	29,430	187,330	759	26,830	176,270	692	24,120	164,520	623
	PFE 530-158-6	32,670	157,570	843	30,000	151,400	774	26,940	143,050	695
	PFE 530-182-8	30,090	181,730	776	27,480	172,480	709	24,610	161,380	635
	PFE 530-198-10	28,330	198,210	731	25,800	187,380	666	22,480	177,960	600
4 Fan	PFE 440-192-6	44,600	192,190	863	41,080	183,750	795	36,930	172,830	715
	PFE 440-222-8	41,310	221,740	800	37,910	209,800	734	33,930	195,990	657
	PFE 440-250-10	39,240	249,770	759	35,770	235,030	692	32,160	219,360	623
	PFE 540-210-6	43,560	210,100	843	40,000	201,860	774	35,920	190,730	695
	PFE 540-242-8	40,120	242,310	776	36,640	229,980	709	32,816	215,170	635
	PFE 540-264-10	37,770	264,280	731	34,400	249,840	665	31,000	234,050	600

CAPACITY DATA

**1 1/2 HP 1,140 RPM Fans
Dry Surface**

Model		0" External Static			.25" External Static		
		CFM	BTUH @ -20 SST	Face Velocity	CFM	BTUH @ -20 SST	Face Velocity
1 Fan	PFE 410-45-6	9,250	45,310	637	7,720	40,940	531
	PFE 410-53-8	8,780	53,250	604	7,230	47,340	497
	PFE 410-59-10	8,380	58,740	577	6,890	51,580	474
	PFE 510-49-6	9,110	49,460	627	7,560	44,960	520
	PFE 510-57-8	8,560	57,480	589	7,060	50,690	486
	PFE 510-62-10	8,140	62,210	559	6,720	54,290	463
2 Fan	PFE 420-91-6	18,510	90,610	637	15,440	81,880	531
	PFE 420-107-8	17,550	106,510	604	14,460	94,680	498
	PFE 420-117-10	16,760	117,480	577	13,790	103,160	474
	PFE 520-99-6	18,210	98,910	627	15,120	89,920	520
	PFE 520-115-8	17,130	114,970	589	14,120	101,380	486
	PFE 520-124-10	16,270	124,420	560	13,450	108,580	463
3 Fan	PFE 430-128-6	27,020	127,660	697	22,190	113,900	573
	PFE 430-148-8	25,140	147,970	649	20,680	131,810	534
	PFE 430-163-10	23,800	163,260	614	19,660	143,920	507
	PFE 530-140-6	26,330	140,060	679	21,690	124,470	560
	PFE 530-160-8	24,410	159,880	629	20,000	140,680	516
	PFE 530-173-10	23,300	172,860	594	18,980	150,820	490
4 Fan	PFE 440-170-6	36,020	170,220	697	29,580	151,870	573
	PFE 440-197-8	33,520	197,290	649	27,570	175,750	534
	PFE 440-218-10	31,730	217,680	614	26,210	191,900	507
	PFE 540-187-6	35,110	186,750	679	28,920	165,960	560
	PFE 540-213-8	32,540	213,170	630	26,670	187,570	516
	PFE 540-230-10	30,670	230,480	594	25,300	201,090	490

CAPACITY DATA

**1 1/2 HP 1,140 RPM Fans
Wet Surface**

Model		0" External Static			.25" External Static		
		CFM	BTUH @ 25 SST	Face Velocity	CFM	BTUH @ 25 SST	Face Velocity
1 Fan	PFE 410-56-6	8,930	56,110	615	7,400	50,430	509
	PFE 410-65-8	8,380	65,440	577	6,890	58,050	474
	PFE 410-72-10	7,930	71,570	546	6,550	62,950	451
	PFE 510-61-6	8,690	60,930	598	7,170	55,150	494
	PFE 510-70-8	8,040	69,710	553	6,610	61,250	455
	PFE 510-75-10	7,610	74,970	524	6,270	65,200	431
2 Fan	PFE 420-112-6	17,870	112,220	615	14,790	100,860	509
	PFE 420-131-8	16,760	130,890	577	13,790	116,090	474
	PFE 420-143-10	15,860	143,150	546	13,110	125,890	451
	PFE 520-122-6	17,390	121,850	598	14,350	110,300	494
	PFE 520-139-8	16,070	139,420	553	13,220	122,490	455
	PFE 520-150-10	15,230	149,950	524	12,540	130,400	431
3 Fan	PFE 430-157-6	25,820	156,670	666	21,190	140,170	546
	PFE 430-181-8	23,800	181,140	614	19,490	160,530	503
	PFE 430-198-10	22,350	197,910	577	18,470	174,320	477
	PFE 530-169-6	24,850	168,980	641	20,510	152,830	529
	PFE 530-193-8	22,680	192,800	585	18,810	170,610	485
	PFE 530-207-10	21,350	207,210	551	17,800	181,900	459
4 Fan	PFE 440-209-6	34,430	208,890	666	28,250	186,900	547
	PFE 440-242-8	31,730	241,510	614	25,980	214,040	503
	PFE 440-264-10	29,800	263,890	577	24,630	232,430	477
	PFE 540-225-6	33,140	225,310	641	27,350	203,770	529
	PFE 540-257-8	30,240	257,070	585	25,080	227,480	485
	PFE 540-276-10	28,470	276,270	551	23,730	242,540	459

ELECTRICAL DATA

3 HP 1,750 RPM Fan Motors											
Model	Motor Data		Defrost Heater Data			Connection Sizes			Approx. Refrigerant Charge R-22	Shipping Weight	
	Amps 230/60/3	Amps 460/60/3	Watts	Amps 230/60/3	Amps 460/60/3	Distributor ODS	Suction ODS	Hot Gas ODS			
1 Fan Motor	PFE 410-52-6	8.6	4.3	12,452	31.8	16.3	1 3/8	1 5/8	1 1/8	33 lbs.	504 lbs.
	PFE 410-60-8	8.6	4.3	15,652	39.7	20.4	1 3/8	2 1/8	1 1/8	45 lbs.	553 lbs.
	PFE 410-67-10	8.6	4.3	18,852	47.5	24.1	1 3/8	2 1/8	1 1/8	56 lbs.	602 lbs.
	PFE 510-57-6	8.6	4.3	12,452	31.8	16.3	1 3/8	1 5/8	1 1/8	33 lbs.	515 lbs.
	PFE 510-66-8	8.6	4.3	15,652	39.7	20.4	1 3/8	2 1/8	1 1/8	45 lbs.	568 lbs.
	PFE 510-72-10	8.6	4.3	18,852	47.5	24.1	1 3/8	2 1/8	1 1/8	56 lbs.	621 lbs.
2 Fan Motors	PFE 420-103-6	17.2	8.6	25,186	(2) 33.0	33.0	(2) 1 1/8	(2) 1 5/8	1 3/8	67 lbs.	873 lbs.
	PFE 420-119-8	17.2	8.6	31,742	(2) 41.2	41.2	(2) 1 3/8	(2) 2 1/8	1 3/8	89 lbs.	971 lbs.
	PFE 420-135-10	17.2	8.6	38,298	(3) 37.0	(2) 24.7	(2) 1 3/8	(2) 2 1/8	1 3/8	112 lbs.	1,069 lbs.
	PFE 520-114-6	17.2	8.6	25,186	(2) 33.0	33.0	(2) 1 1/8	(2) 1 5/8	1 3/8	67 lbs.	899 lbs.
	PFE 520-131-8	17.2	8.6	31,742	(2) 41.2	41.2	(2) 1 3/8	(2) 2 1/8	1 3/8	89 lbs.	1,005 lbs.
	PFE 520-144-10	17.2	8.6	38,298	(3) 37.0	(2) 24.7	(2) 1 3/8	(2) 2 1/8	1 3/8	112 lbs.	1,111 lbs.
3 Fan Motors	PFE 430-145-6	25.8	12.9	32,300	(2) 42.4	42.4	(2) 1 3/8	(2) 2 1/8	1 5/8	89 lbs.	1,180 lbs.
	PFE 430-166-8	25.8	12.9	40,700	(3) 37.1	(2) 31.6	(2) 1 3/8	(2) 2 1/8	1 5/8	120 lbs.	1,311 lbs.
	PFE 430-187-10	25.8	12.9	49,100	(3) 42.4	(2) 31.6	(2) 1 3/8	(2) 2 1/8	1 5/8	149 lbs.	1,442 lbs.
	PFE 530-158-6	25.8	12.9	32,300	(2) 42.4	42.4	(2) 1 3/8	(2) 2 1/8	1 5/8	89 lbs.	1,186 lbs.
	PFE 530-182-8	25.8	12.9	40,700	(3) 37.1	(2) 31.6	(2) 1 3/8	(2) 2 1/8	1 5/8	120 lbs.	1,327 lbs.
	PFE 530-198-10	25.8	12.9	49,100	(3) 42.4	(2) 31.6	(2) 1 3/8	(2) 2 1/8	1 5/8	149 lbs.	1,468 lbs.
4 Fan Motors	PFE 440-192-6	34.4	17.2	36,676	(2) 47.9	47.9	(2) 1 3/8	(2) 2 1/8	1 5/8	120 lbs.	1,710 lbs.
	PFE 440-222-8	34.4	17.2	46,076	(3) 42.5	(2) 35.4	(2) 1 3/8	(2) 2 1/8	1 5/8	160 lbs.	1,885 lbs.
	PFE 440-250-10	34.4	17.2	55,476	(4) 35.4	(2) 39.0	(2) 1 3/8	(2) 2 5/8	1 5/8	200 lbs.	2,060 lbs.
	PFE 540-210-6	34.4	17.2	36,676	(2) 47.9	47.9	(2) 1 3/8	(2) 2 1/8	1 5/8	120 lbs.	1,719 lbs.
	PFE 540-242-8	34.4	17.2	46,076	(3) 42.5	(2) 35.4	(2) 1 3/8	(2) 2 1/8	1 5/8	160 lbs.	1,907 lbs.
	PFE 540-264-10	34.4	17.2	55,476	(4) 35.4	(2) 39.0	(2) 1 3/8	(2) 2 5/8	1 5/8	200 lbs.	2,095 lbs.

ELECTRICAL DATA

1 1/2 HP 1,140 RPM Fan Motors											
Model	Motor Data		Defrost Heater Data			Connection Sizes			Approx. Refrigerant Charge R-22	Shipping Weight	
	Amps 230/60/3	Amps 460/60/3	Watts	Amps 230/60/3	Amps 460/60/3	Distributor ODS	Suction ODS	Hot Gas ODS			
1 Fan Motor	PFE 410-45,56-6	5.0	2.5	12,452	31.8	16.3	1 3/8	1 5/8	1 1/8	33 lbs.	509 lbs.
	PFE 410-53,65-8	5.0	2.5	15,652	39.7	20.4	1 3/8	2 1/8	1 1/8	45 lbs.	558 lbs.
	PFE 410-59,72-10	5.0	2.5	18,852	47.5	24.1	1 3/8	2 1/8	1 1/8	56 lbs.	607 lbs.
	PFE 510-49,61-6	5.0	2.5	12,452	31.8	16.3	1 3/8	1 5/8	1 1/8	33 lbs.	520 lbs.
	PFE 510-57,70-8	5.0	2.5	15,652	39.7	20.4	1 3/8	2 1/8	1 1/8	45 lbs.	573 lbs.
	PFE 510-62,75-10	5.0	2.5	18,852	47.5	24.1	1 3/8	2 1/8	1 1/8	56 lbs.	626 lbs.
2 Fan Motors	PFE 420-91,112-6	10.0	5.0	25,186	(2) 33.0	33.0	(2) 1 1/8	(2) 1 5/8	1 3/8	67 lbs.	883 lbs.
	PFE 420-107,131-8	10.0	5.0	31,742	(2) 41.2	41.2	(2) 1 3/8	(2) 2 1/8	1 3/8	89 lbs.	981 lbs.
	PFE 420-117,143-10	10.0	5.0	38,298	(3) 37.0	(2) 24.7	(2) 1 3/8	(2) 2 1/8	1 3/8	112 lbs.	1,079 lbs.
	PFE 520-99,122-6	10.0	5.0	25,186	(2) 33.0	33.0	(2) 1 1/8	(2) 1 5/8	1 3/8	67 lbs.	909 lbs.
	PFE 520-115,139-8	10.0	5.0	31,742	(2) 41.2	41.2	(2) 1 3/8	(2) 2 1/8	1 3/8	89 lbs.	1,015 lbs.
	PFE 520-124,150-10	10.0	5.0	38,298	(3) 37.0	(2) 24.7	(2) 1 3/8	(2) 2 1/8	1 3/8	112 lbs.	1,121 lbs.
3 Fan Motors	PFE 430-128,157-6	15.0	7.5	32,300	(2) 42.4	42.4	(2) 1 3/8	(2) 2 1/8	1 5/8	89 lbs.	1,195 lbs.
	PFE 430-148,181-8	15.0	7.5	40,700	(3) 37.1	(2) 31.6	(2) 1 3/8	(2) 2 1/8	1 5/8	120 lbs.	1,326 lbs.
	PFE 430-163,198-10	15.0	7.5	49,100	(3) 42.4	(2) 31.6	(2) 1 3/8	(2) 2 1/8	1 5/8	149 lbs.	1,457 lbs.
	PFE 530-140,169-6	15.0	7.5	32,300	(2) 42.4	42.4	(2) 1 3/8	(2) 2 1/8	1 5/8	89 lbs.	1,201 lbs.
	PFE 530-160,193-8	15.0	7.5	40,700	(3) 37.1	(2) 31.6	(2) 1 3/8	(2) 2 1/8	1 5/8	120 lbs.	1,342 lbs.
	PFE 530-173,207-10	15.0	7.5	49,100	(3) 42.4	(2) 31.6	(2) 1 3/8	(2) 2 1/8	1 5/8	149 lbs.	1,483 lbs.
4 Fan Motors	PFE 440-170,209-6	20.0	10.0	36,676	(2) 47.9	47.9	(2) 1 3/8	(2) 2 1/8	1 5/8	120 lbs.	1,730 lbs.
	PFE 440-197,242-8	20.0	10.0	46,076	(3) 42.5	(2) 35.4	(2) 1 3/8	(2) 2 1/8	1 5/8	160 lbs.	1,905 lbs.
	PFE 440-218,264-10	20.0	10.0	55,476	(4) 35.4	(2) 39.0	(2) 1 3/8	(2) 2 5/8	1 5/8	200 lbs.	2,080 lbs.
	PFE 540-187,225-6	20.0	10.0	36,676	(2) 47.9	47.9	(2) 1 3/8	(2) 2 1/8	1 5/8	120 lbs.	1,739 lbs.
	PFE 540-213,257-8	20.0	10.0	46,076	(3) 42.5	(2) 35.4	(2) 1 3/8	(2) 2 1/8	1 5/8	160 lbs.	1,927 lbs.
	PFE 540-230,276-10	20.0	10.0	55,476	(4) 35.4	(2) 39.0	(2) 1 3/8	(2) 2 5/8	1 5/8	200 lbs.	2,115 lbs.