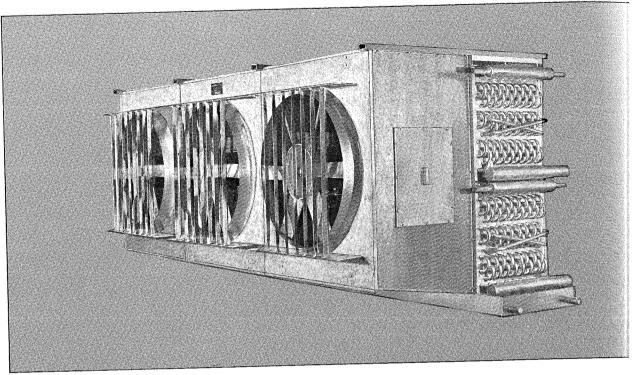
A freezer units

Axial Fans



COILS: Ammonia coils are fabricated with 3/4" O.D. x 0.045" wall thickness steel tubes, or 1.05" O.D. x 0.060" wall thickness steel tubes, or 3/4" schedule 40 pipes. (Where coils are listed as 1.05" tubing, coils with 3/4" pipe may be specified at no change in price.) Tubing is welded, flash removed, pressure tested at mill, ASTM Specification A-214. Fins are die-formed steel 0.015" thick, flat continuous plate type. All fins have die-formed collars around tubing for maximum heat transfer. Headers are round or rectangular tubing, or steel pipe. Tube sheets are die punched 12 or 14 gauge steel. All joints are acetylene welded and the coils are pressure tested with 300 lbs. air while submerged in water. The entire coil is hot dip galvanized after fabrication.

Freon coils have 34" O.D. seamless hard drawn copper tubes. Fins are continuous flat plate type of 0.016" thick aluminum, with extruded dieformed collars. Tubes are mechanically expanded into fin collars to assure a lasting bond with high heat transfer. Headers are copper. Return bends and header joints are brazed with an alloy of copper and phosphorus at approximately 1,300° F. with no flux. The alloy is exceptionally fluid, penetrates deeply into joints, and assures gas-tight connections even with severe temperature changes.

Units with steel coils may be used with either ammonia or freons, using flooded, recirculated, or TXV operation, as listed. On smaller units, capacities for flooded or recirculated operation are shown for copper and steel coils. Larger units list flooded, recirculated, and TXV ratings for steel coils and only TXV operation for copper coils. If copper coils are required for flooded or recirculated operation, please consult Rigidbilt for data and prices.

MOTORS: Motors are standard NEMA frame, open type, drip proof, of reputable manufacture. Speeds are either 1,750 or 1,140 R.P.M. to suit the fan. All motors are ball bearing, with either sealed lubrication or grease fittings, with grease selected for proper air temperatures. Lubrication should be checked periodically, as suggested by motor manufacturers. Only non-corrosive, mineral base grease should be used for motors and over-lubrication should be avoided.

When required, 2-speed motors, or totally enclosed motors, or motors with special current characteristics can be furnished.

Wiring for all motors should be adequate for the nominal cur horsepower listed plus about 40% to take care of overloa varying speeds, static pressures, and air temperatures. devices should properly be sized after units are running room temperatures.

FANS: Fans are cast aluminum, SS-304, or Semi-Aluminum, SS-304, or Sem

EXTERNAL STATIC PRESSURES: Fans and motors are deliver the rated CFM with light or medium frost on coil external static pressures, fans will deliver correspondingly n will draw somewhat lower amperage. Since large air volumair velocities are generally desirable in freezers, the aboment provides excellent overall performance of these unit

CABINET CONSTRUCTION: Cabinets are available wit galvanized steel or with all parts hot dip galvanized after Panels are 12 or 14 gauge steel with all edges flanged for

End panels are provided with large access doors for entrend to service the unit.

Bottom panels are pitched toward the rear to drain the en the drain pan.

The fan section is bolted to the coil section and the two τ rated if desired.

Heavy structural channels tie the coil section and fan sect and act as hangers for the assembled units.

On water defrost units, a galvanized steel water distrib mounted above the coil to defrost the finned section, r and headers. Both the return bend end and header end with covers to prevent splash off the ends.

MODEL	COIL		BASIC RATING		HP	SHIP	LINEAL	COIL	WATER DEFROST	HORIZONTAL SURGE DRUMS			
AND DESCRIPTION	ROWS	FINS	FL-REC	TXV	PER FAN	WEIGHT LBS.	FT. Tubing	VOL. CU. FT.	GPM @ 10 P.S.I.	10° & HIGHER	-40° TO 10°	APPROX. TONS	
	4	4 3	7,450 6,600	6,480 5,830	1	1700 1570	533	1.5	13	12 x 36	14 x 48	9.5	
AF 160	6	4	10,300 9,210	8,960 8,010	1	2130 1930	800	2.2	20	14 x 48	16 x 48	13.2	
 Two 30" Fans 3/4" O.D. Steel or 	8	4	13,130 11,600	11,430 10,100	11/2	2550 2280	1066	2.9	27	16 x 36	18 x 48	16.5	
Copper Coils	10	4 3	14,590 13,130	12,700 11,420	2	3000 2650	1333	3.5	34	16 x 48	18 x 48	18.5	

MODEL AND DESCRIPTION	COIL		BASIC RATING		HP	SHIP	LINEAL	COIL	WATER DEFROST	HORIZONTAL SURGE DRUMS			
	ROWS	FINS	FL-REC	TXV	PER FAN	WEIGHT LBS.	FT. TUBING	VOL. CU. FT.	GPM @ 10 P.S.I.	10° & HIGHER	-40° TO 10°	APPROX. TONS	
	4	4 3	9,930 8,775	8,640 7,640	2	2160 1980	702	1.8	16	14 x 48	16 x 36	12.5	
AF 210	6	4 3	13,670 12,270	11,880 10,670	2	2700 2430	1053	2.8	24	16 x 48	18 x 48	17.0	
■ Two 30" Fans ■ 34" O.D. Steel or	8	4 3	17,190 15,170	14,970 13,190	3	3260 2900	1408	3.7	32	16 x 60	18 x 60	21.5	
Copper Coils	10	4	19,120 17,140	16,630 14,910	3	3800 3350	1755	4.7	40	18 x 60	20 x 60	24.0	

MODEL AND DESCRIPTION	COIL		. BASIC RATING		HP	SHIP	LINEAL	COIL	WATER DEFROST	HORIZONTAL SURGE DRUMS		
	ROWS	FINS	FL-REC	TXV	PER FAN	WEIGHT LBS.	FT. Tubing	VOL. Cu. Ft.	GPM @ 10 P.S.I.	10°& HIGHER	-40° TO 10°	APPROX. Tons
	4	4 3	11,175 9,900	9,720 8,745	1	2420 2210	800	2.1	20	14 x 48	16 x 48	14.3
AF 240 • 24,000 CFM	6	4 3	15,450 13,815	13,440 12,015	1	3040 2730	1200	3.2	30	16 x 48	18 x 48	19.5
Three 30" Fans 34" O.D. Steel or	8	4 3	19,695 17,400	17,145 15,150	11/2	3540 3130	1600	4.3	40	18 x 48	20 x 60	24.5
Copper Coils	10	4 3	21,885 19,695	19,050 17,130	2	4310 3790	2000	5.3	50	18 x 60	20 x 60	27.8

MODEL	COIL		BASIC RATING		HP PER	SHIP	LINEAL	COIL VOL.	WATER DEFROST	HORIZONTAL SURGE DRUMS		
AND DESCRIPTION	ROWS	FINS	FL-REC	TXV	FAN	WEIGHT LBS.	FT. Tubing	CU. FT.	GPM @ 10 P.S.I.	10° & HIGHER	-40° TO 10°	APPROX. TONS
	4	4 3	11,700 10,350	10,170 9,000	3	2200 2030	828	2.2	20	14 x 48	16 x 48	15.0
AF 250 • 25,000 CFM	6	4 3	16,160 14,460	14,060 12,570	3	2720 2470	1242	3.3	30	16 x 48	18 x 48	20.0
■ Two 30" Fans ■ 34" O.D. Steel or	8	4	20,600 18,180	17,910 15,820	3	3260 2930	1656	4.4	40	18 x 48	20 x 60	25.0
Copper Coils	10	4	22,900 20,600	19,920 17,910	3	3780 3360	2070	5.4	50	18 x 60	20 x 60	28.8
AF 251	4	4 3	14,600 12,900		3	2690 2450	828	4.5	30	18 x 48	18 x 60	18.5
■ 25,000 CFM ■ Two 30" Fans	6	4 3	19,900 17,900		3	3460 3080	1242	6.8	45	20 x 48	20 x 72	25.0
■ 1.05" O.D. Steel Coils	8	4 3	24,500 22,300		3	4210 3700	1656	9.1	60	20 x 72	20 x 72	30.6

MODEL	CO	COIL		RATING	НР	SHIP	LINEAL	COIL	WATER	HORIZONTAL SURGE DRUMS			
AND DESCRIPTION	ROWS	FINS	FL-REC	TXV	PER FAN	WEIGHT LBS.	FT. Tubing	VOL. Cu. Ft.	GPM @ 10 P.S.I.	10°& HIGHER	-40° TO 10°	APPROX. TONS	
A F 040	4	4 3	14,400 12,780	12,550 11,100	3	3110 2850	1013	2.7	20	16 x 48	18 x 48	18.0	
AF 310 • 31,000 CFM	6	4	19,920 17,850	17,330 15,540	3	3585 3195	1520	4.0	30	18 x 48	20 x 48	25.0	
■ Two 36" Fans ■ 3⁄4" O.D. Steel or	8	4	25,400 22,450	22,100 19,530	5	4425 3905	2026	5.2	40	18 x 60	20 x 48	32.0	
Copper Coils	10	4 3	28,300 25,400	24,600 22,100	5	5210 4560	2533	6.7	50	20 x 60	20 x 60	36.0	
AF 311	4	4 3	18,000 15,900		3	3520 3130	1013	5.5	30	18 x 48	20 x 60	22.5	
■ 31,000 CFM ■ Two 36″ Fans	6	4 3	24,600 22,100		5	4720 4130	1520	8.3	45	20 x 60	20 x 72	31.0	
■ 1.05" O.D. Steel Coils	8	4 3	30,200 27,600		5	5870 5080	2026	11.3	60	20 x 72	24 x 60	38.0	

MODEL AND	COIL		BASIC RATING		HP PER	SHIP WEIGHT	LINEAL FT.	COIL VOL.	WATER Defrost	HORIZONTAL SURGE DRUMS			
	ROWS	FINS	FL-REC	TXV	FAN	LBS.	TUBING	CU. FT.	GPM @ 10 P.S.J.	10°& HIGHER	-40° TO 10°	APPROX. Tons	
A = 0.50	4	4 3	16,270 14,400	14,150 12,500	3	3080 2780	1152	3.0	24				
AF 350 • 35,000 CFM	6	4 3	22,450 20,150		4.4	36	FOR FLOODED OPERATION USE AF 351						
■ Two 36" Fans ■ ¾" O.D. Steel or	8	4 3	28,700 25,300	24,970 22,000	5	4940 4350	2304	5.9	48				
Copper Coils	10	4 3	31,850 28,700	27,700 24,970	5	5770 5030	2880	7.3	60	1			
AF 351	4	4 3	20,300 18,000		3	3900 3460	1152	6.1	36	18 x 60	20 x 72	25.0	
■ 35,000 CFM ■ Two 36" Fans	6	4 3	27,700 24,900		5	5250 4590	1728	9.4	54	20 x 72	20 x 72	35.0	
■ 1.05" O.D. Steel Coils	8	4 3	34,100 31,200		5	6560 5680	2304	13.0	72	24 x 48	24 x 72	42.5	

MODEL	COIL		BASIC RATING		HP PER	SHIP WEIGHT	LINEAL FT.	GOIL VOL.	WATER DEFROST	HORIZONTAL SURGE DRUMS			
AND DESCRIPTION	ROWS	FINS	FL-REC TXV		FAN	LBS:	TUBING	CU. FT.	GPM @ 10 P.S.I.	10°& HIGHER	-40° TO 10°	APPROX.	
	4	4 3	19,000 16,800	16,500 14,600	5	3880 3530	1344	3.6	24				
AF 410 • 41,000 CFM	6	4 3	25,800 23,200	22,500 20,200	5	4930 4410	2016	5.5	36	FOR FLOODED		RATION	
■ Two 42" Fans ■ ¾" O.D. Steel or	8	4 3	31,600 28,800	27,500 25,000	5	6030 5340	2688	7.2	48	USE AF 411			
Copper Coils	10	4 3	35,700 33,100	31,300 28,800	5	7020 6160	3350	9.0	60				
AF 411	4	4 3	23,300 20,900		5	4850 4330	1344	7.3	36	20 x 60	24 x 48	29.5	
■ 41,000 CFM ■ Two 42" Fans	6	4 3	31,800 29,000		5	6350 5580	2016	11.1	54	24 x 60	24 x 60	40.0	
1.05" O.D. Steel Coils	8	4 3	39,400 36,200		5	7880 6850	2688	14.6	72	24 x 60	24 x 72	49.5	

MODEL	Co	COIL		BASIC RATING		SHIP WEIGHT	LINEAL FT	COIL VOL.	WATER DEFROST	HORIZONTAL SURGE DRUMS			
AND DESCRIPTION	ROWS	FINS	FL-REC	TXV	PER FAN	LBS.	TUBING	CU. FT.	GPM @ 10 P.S.I.	10°& HIGHER	-40° TO 10°	APPROX. TONS	
AF 470	6	4 3	30,000 27,100	26,100 23,400	3	5980 5380	2352	6.0	36				
47,000 CFMThree 36" Fans	8	4	36,700 33,400	31,850 29,000	5	7300 6500	3136	8.1	48	FOR FLOODED OPERA USE AF 471	RATION		
■ ¾" O.D. Steel or Copper Coils	10	4 3	41,800 38,700	36,200 33,500	5	8600 7600	3920	9.1	60	1			
AF 471	4	4 3	27,500 24,400		3	5860 5260	1568	8.5	36	20 x 60	20 x 72	34.5	
■ 47,000 CFM ■ Three 36" Fans	6	4 3	37,600 33,800		5	7780 6900	2352	12.9	54	24 x 48	24 x 72	47.0	
■ 1.05" O.D. Steel Coils	8	4 3	46,400 42,200		5	9550 8340	3136	17.3	72	24 x 72	24 x 96	58.0	

MODEL AND	COIL		BASIC RATING		HP PER	SHIP WEIGHT	LINEAL FT.	COIL VOL	WATER DEFROST	HORIZONTAL SURGE DRUMS		
DESCRIPTION	ROWS	FINS	FL-REC	TXV	FAN	LBS.	TUBING	CU. FT.	GPM @ 10 P.S.I.	10°& HIGHER	-40° TO 10°	APPROX.
AF 540 • 54,000 CFM • Three 36" Fans	6	4 3	34,400 30,800	30,000 26,800	5	6550 5900	2688	6.8	36			
	8	4 3	42,000 38,200	36,600 33,200	5	8130 7230	3584	9.0	48	FOR FLO	RATION	
34" O.D. Steel or Copper Coils	10	4 3	47,700 44,200	41,600 38,500	5	9580 8380	4480	11.5	60			
AF 541	4	4 3	31,500 27,900		5	6500 5850	1792	9.8	36	24 x 48	24 x 84	38.5
■ 54,000 CFM ■ Three 36" Fans	6	4 3	43,000 38,600		5	8680 7640	2688	14.5	54	24 x 60	24 x 84	52.5
1.05" O.D. Steel Coils	8	4	53,000 48,200		71/2	10,680 9380	3584	18.6	72	24 x 84	Two 24 x 60	64.0