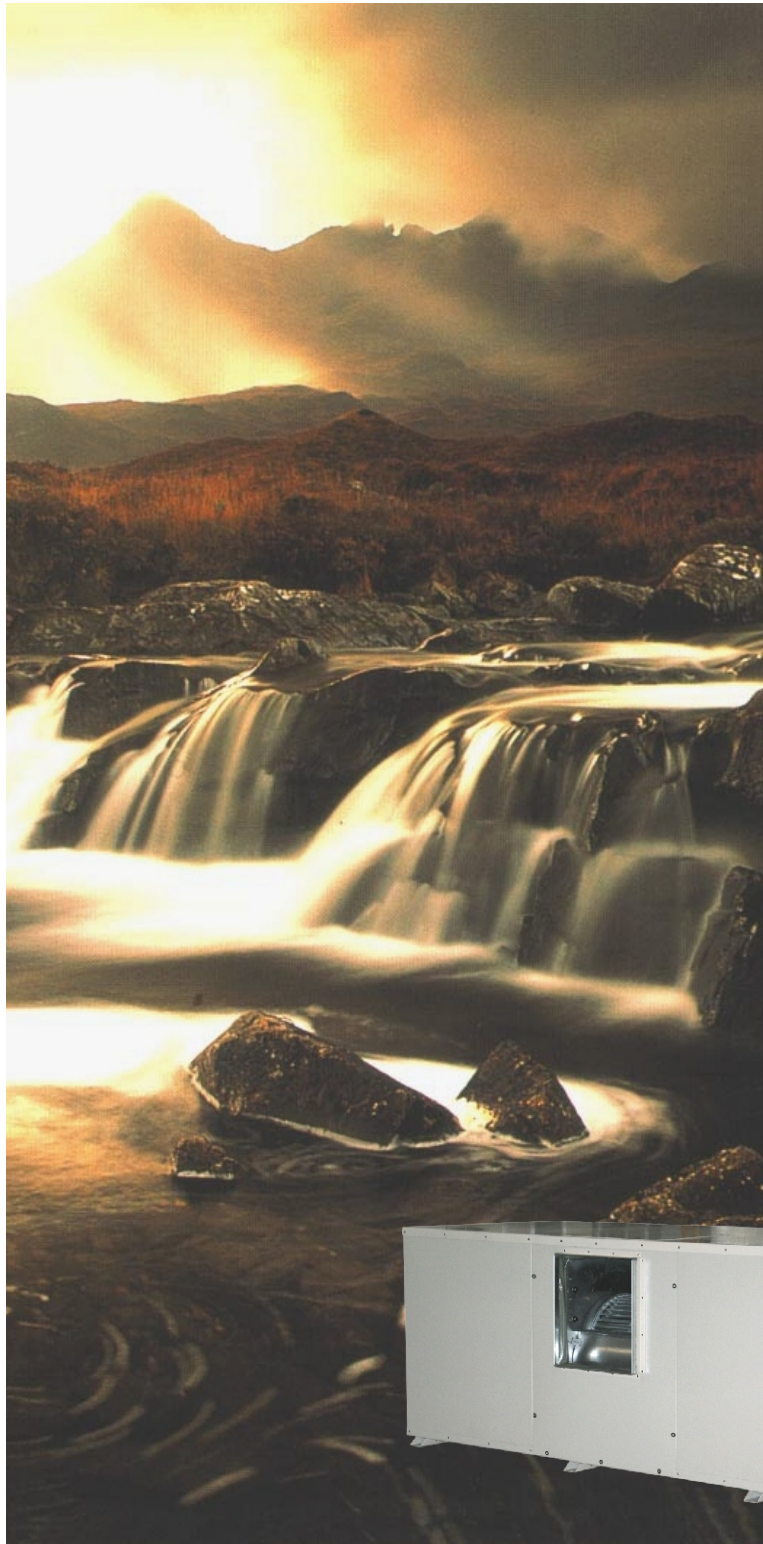


DUNHAM-BUSH®

FORM NO: MS0305F

Products That Perform...By People Who Care

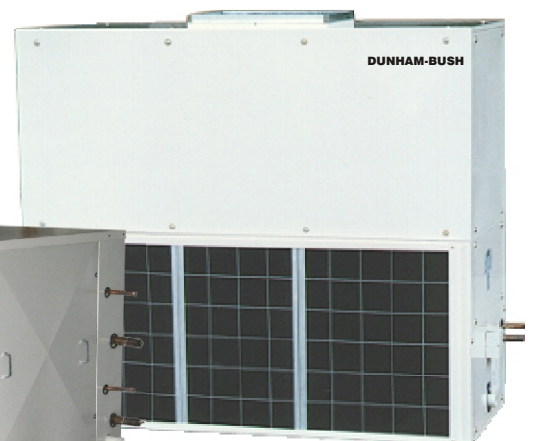
AIR - COOLED SPLIT SYSTEM **AIR CONDITIONERS WITH SCROLL COMPRESSORS**



50 Hz

COOLING CAPACITY-
60 MBH TO 1360 MBH

ACCS SERIES
HEB-D, EB-D SERIES
VEB-D SERIES
VEB-D-FB SERIES



AIR-COOLED CONDENSING UNITS

GENERAL DESCRIPTION

The ACCS series with new features is suitable for hotel, office, hospitals, schools, factory and supermarket applications. The low noise and compact series are completely leak tested, evacuated, dehydrated and charged with dry nitrogen to maintain system "dryness" prior to field piping connections.

Scroll Compressor(s)

Reliability

- * No contact scroll design that minimizes friction, increases volumetric efficiency and reduces vibration, thus longer service life.
- * Suction gas cooled motor.

Low Power Consumption:

- * High EER.
- * No crankcase heater required.



Tandem Compressor

(ACCS 960 to 1520)

For condensing units, each with 6 or 8 compressors, every two compressors is connected in tandem, to reduce refrigerant circuits to 3 or 4 and thus reduce the cost of labor and materials for field piping connection works.



Class F Insulation Condenser Fan Motor (ACCS 108 to 1520)

- * Extra safety margin and longer motor life even in extreme operating conditions.

- * IP 55 construction ensure extra motor protection
- * Low motor speed at 950 rpm ensures quiet condenser fan operation.

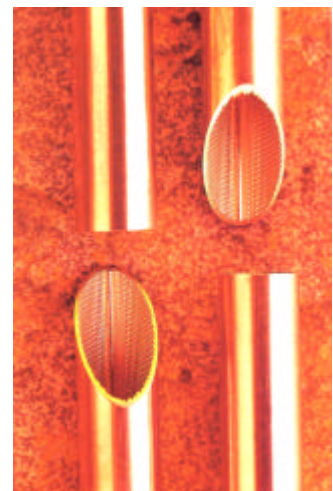
Multiple Compressor

(ACCS 220 to 1520)

- * By cycling off compressor(s) operation to match building load, no energy is being wasted when room load requires lesser cooling capacity.
- * No total shut down when servicing or repairing a faulty compressor.

Efficient Condenser Coil

- * Staggered row of 3/8"OD inner groove tubes with 25 to 30% more surface area guarantee better heat transfer.
- * Mechanically expanded into die-formed corrugated aluminum fins.
- * Integral subcooling circuit to maximize efficiency.
- * Leak and pressure tested to 450 psig.



Fully Leak Tested Refrigerant Circuit

- * Leak and pressure tested at 450 psig.
- * Pressure ports are provided on the discharge, liquid and suction line.
- * Evacuated, dehydrated and pressurized with dry nitrogen for storage and shipping purpose.

Safety Control

- * High-low pressure cutout to protect compressor from high discharge pressure and system leakage.

Casing

- * Constructed from heavy gauge galvanized steel.
- * Panels are painted powder coated paint for excellent finish, weatherability and corrosion resistance.

DUCTED EVAPORATOR BLOWER UNITS

GENERAL DESCRIPTION

The ducted evaporator-blower units; each consist of an evaporator coil, a centrifugal forward-curved blower fan complete with drive package and filters and enclosed in a single fiberglass insulated rigid steel cabinetry; are completely factory packaged to provide greater flexibility to the building owners, consultants, architects and installers. These flexibility includes;

- * A wide range of model sizes covering cooling capacities from 61 to 1360 MBH; and each model size also has a wide band of air-flow rates (cfms) covering a wide system of static pressure to meet almost any system demands.
- * Except for HEB 68D to HEB 95D which are specially designed for ducted, ceiling application, all other sizes allow flexibility for either horizontal air discharge or vertical air discharge ducted connections.
- * All units can be provided with left or right hand piping connections. Except for HEB 68D to HEB 95D, which are direct driven, all units can also be left or right hand motor location to ease installation at site. This must be specified at the time of order entry to factory.

Efficient Evaporator Coil

- * Independent thermal expansion valve with external equalizer for better refrigerant control and wider load condition.
- * Leak and pressure tested to 450 psig
- * Evacuated, dehydrated and charged with dry nitrogen.

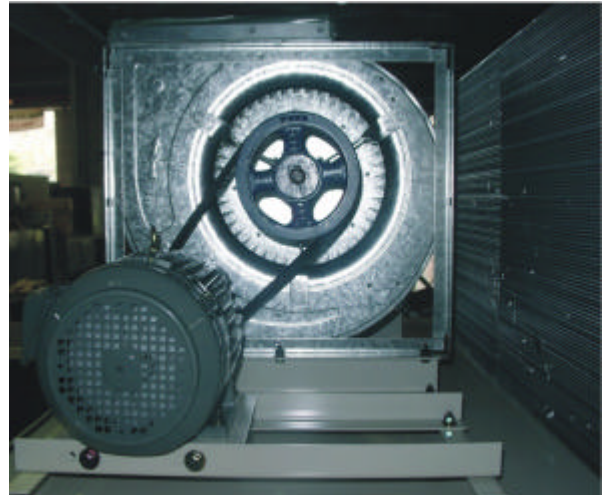
Drive Package and Blowers

(HEB 108D to EB 1520D, VEB 108D to VEB 250D)

- * Belt driven drive package offers flexibility on

various air flow rate and various static pressure applications.

- * Single large diameter double inlet double width blowers (AMCA certified) reduce the noise level and eliminates the need for common transition and eliminates air unbalance.



Casing

- * Constructed of cold rolled electro galvanized steel sheet and insulated with 1/2" thick x 1 1/2 lb per cu.ft linacoustic fiberglass.
- * Aesthetically coated powder paint to provide excellent finish, weatherability and corrosion resistance.
- * Removable panels on the left and right hand side of the unit to provide access to critical parts and components.

Filters

Side loading 1" thick filters - from both sides-thus eliminates unnecessary duct opening at site.

OPTIONAL ACCESSORIES FEATURES

- * Factory wired starters
 - DOL for compressors and fan motors.
 - Auto-transformer for compressors.
- * Suction stop valve(s), discharge stop valve(s) and liquid stop valve(s).
- * Internal spring vibration isolators for blower fan and drive assembly in EB units.
- * Fan staging of multiple fans for head pressure control.
- * Thermostat.
- * Hydrophilic fins, copper or tinned coated copper fins for better corrosion resistance.
- * Axial fan for ducted air discharge.
- * Liquid line filter drier and sight glass.
- * Hot gas by pass for low load and low ambient conditions.
- * Decorative discharge plenum.
- * Hot water heating coils.
- * Electric heaters.
- * R407C refrigerant instead of R22.

MATCH SYSTEM COOLING

PERFORMANCE DATA

SINGLE COND. UNIT MODEL	EVAP. BLOWER MODEL	STD. CAPACITY MBH	AIR ON EVAP.		AIR TEMPERATURE ON CONDENSER COIL - °F											
			CFM	WB TEMP. °F	75			95			115			125		
					TOTAL MBH ¹	SENS MBH ²	KW ³	TOTAL MBH ¹	SENS MBH ²	KW ³	TOTAL MBH ¹	SENS MBH ²	KW ³	TOTAL MBH ¹	SENS MBH ²	KW ³
ACCS 68	HEB 68D	60.7	2000	72	68.2	36.9	4.2	64.4	35.1	4.5	60.7	31.8	4.7	57.5	30.2	4.9
				67	65.1	49.4	4.1	60.7	46.1	4.4	57.5	43.8	4.6	54.3	41.3	4.8
				62	59.3	53.4	3.9	55.6	55.6	4.3	52.4	47.2	4.5	49.1	49.1	4.7
				57	52.4	52.4	3.9	48.7	48.7	4.3	46.1	46.1	4.5	43.3	43.3	4.6
ACCS 81	HEB 81D	73.0	2400	72	81.8	44.3	5.1	77.2	42.0	5.5	72.8	38.0	5.8	69.1	36.3	6.0
				67	78.0	59.2	5.0	73.0	55.3	5.4	68.8	52.4	5.7	65.4	49.5	5.9
				62	71.1	64.0	4.8	66.6	60.0	5.3	62.8	56.5	5.5	59.1	59.1	5.8
				57	62.9	62.9	4.8	58.4	58.4	5.2	55.3	55.3	5.5	52.0	52.0	5.7
ACCS 95	HEB 95D	85.9	2600	72	96.6	52.9	5.9	91.0	49.9	6.3	85.9	47.1	6.6	76.2	41.9	6.8
				67	92.2	70.3	5.7	85.9	65.6	6.2	81.4	62.2	6.5	72.3	55.2	6.7
				62	84.1	75.7	5.7	78.8	70.9	6.1	74.3	66.9	6.4	65.8	65.7	6.6
				57	74.3	74.3	5.5	69.0	69.0	6.0	65.3	65.3	6.3	57.9	57.9	6.6
ACCS 108	VEB 108D HEB 108D	100.0	3500	72	112.4	61.6	6.9	106.0	58.0	7.3	100.0	54.8	7.7	88.7	48.8	8.0
				67	107.3	81.8	6.7	100.0	76.3	7.2	94.8	72.3	7.6	84.1	64.2	7.9
				62	97.9	97.9	6.6	91.7	91.7	7.1	86.4	86.4	7.5	76.6	76.4	7.8
				57	86.4	86.4	6.4	80.3	80.3	7.1	76.0	76.0	7.4	67.4	67.0	7.7
ACCS 125	VEB 125D HEB 125D	112.5	3500	72	125.5	69.1	7.5	119.3	65.0	8.0	111.6	61.3	8.4	99.4	54.5	8.7
				67	119.8	91.2	7.3	112.5	85.0	8.0	105.8	80.4	8.4	94.2	71.7	8.6
				62	109.2	98.3	7.2	103.1	92.8	7.8	96.5	86.9	8.2	86.3	86.3	8.4
				57	96.5	96.5	7.1	90.2	90.2	7.7	84.8	84.8	8.1	75.7	75.7	8.3
ACCS 145	VEB 145D HEB 145D	130.3	4000	72	145.4	71.6	8.5	138.2	67.4	9.1	129.3	63.5	9.6	115.1	56.5	9.9
				67	138.8	94.5	8.3	130.0	88.1	9.1	122.5	83.3	9.6	109.1	74.3	9.8
				62	126.5	113.2	8.2	119.4	106.0	8.9	111.8	100.0	9.3	99.9	89.4	9.6
				57	111.8	111.8	8.1	104.5	104.5	8.8	98.2	98.2	9.2	87.7	87.7	9.4
ACCS 160	VEB 160D HEB 160D	150.0	4600	72	169.0	99.0	10.3	159.3	93.3	11.0	150.2	87.8	11.5	136.7	80.9	12.0
				67	161.2	134.1	9.9	150.0	120.9	10.9	142.4	118.5	11.4	129.7	107.9	11.9
				62	147.2	132.5	9.8	137.8	124.0	10.7	129.9	116.9	11.1	118.3	118.3	11.7
				57	129.9	129.9	9.7	120.4	120.4	10.5	114.2	114.2	11.0	103.8	103.8	11.5
ACCS 190	VEB 190D HEB 190D	170.0	4800	72	191.4	94.6	11.7	180.3	98.4	12.5	170.0	92.9	13.1	155.4	82.9	13.5
				67	182.6	137.9	11.4	170.0	128.5	12.3	161.3	121.8	12.9	147.4	111.3	13.3
				62	166.5	149.9	11.2	155.9	140.3	12.1	147.2	132.5	12.7	134.6	134.6	13.1
				57	147.2	147.2	11.0	136.5	136.5	11.9	129.3	129.3	12.6	118.3	118.3	12.9
ACCS 220	VEB 220D EB 220D	200.0	5400	72	226.2	134.9	13.6	213.1	127.2	14.4	200.0	119.1	15.3	179.3	106.8	16.8
				67	212.1	180.0	13.5	200.0	169.7	14.3	187.8	159.3	15.3	168.3	142.7	16.7
				62	196.0	176.4	13.3	185.8	167.2	14.2	173.7	156.3	15.2	155.8	155.7	16.6
				57	177.8	177.8	13.2	167.7	167.7	14.1	157.6	157.6	15.0	135.1	135.1	16.5
ACCS 250	VEB 250D EB 250D	225.0	6400	72	251.0	136.0	15.2	236.6	128.1	16.2	223.2	120.8	16.9	200.9	108.7	17.6
				67	239.5	178.5	14.7	225.0	168.0	16.1	211.6	159.4	16.8	190.5	143.2	17.4
				62	218.5	196.7	14.5	204.6	184.1	15.7	193.0	173.7	16.5	174.0	172.5	17.1
				57	193.0	193.0	14.3	179.0	179.0	15.5	169.6	169.6	16.3	153.0	153.0	16.8
ACCS 290	EB 290D	260.0	7500	72	290.0	149.5	17.7	273.1	140.7	18.8	256.4	132.2	20.0	235.7	121.5	21.5
				67	271.9	191.7	17.6	260.0	180.8	18.6	240.9	169.7	19.9	221.3	156.0	21.4
				62	250.9	225.8	17.3	238.2	214.4	18.6	222.7	200.4	19.8	204.6	188.2	21.3
				57	227.9	227.9	17.2	215.0	215.0	18.4	202.1	202.1	19.6	177.6	177.6	21.1
ACCS 320	EB 320D	300.0	8000	72	339.4	173.8	20.6	319.8	163.8	21.9	300.0	153.8	23.2	268.9	137.8	25.0
				67	318.2	221.5	20.5	300.0	208.7	21.7	281.8	196.1	23.1	252.4	175.7	24.7
				62	294.0	264.6	20.1	278.7	250.8	21.5	251.4	226.3	23.0	233.6	210.9	24.5
				57	266.7	266.7	20.0	251.5	251.5	21.4	236.3	236.3	22.8	202.6	202.6	24.3
ACCS 380	EB 380D	350.0	9200	72	393.4	209.6	24.1	370.7	197.5	25.5	349.7	186.3	27.1	313.4	166.5	29.0
				67	375.2	276.2	23.9	350.0	257.4	25.4	331.4	244.1	27.0	297.2	218.4	28.8
				62	342.2	308.0	23.5	320.7	288.6	25.2	302.5	272.3	26.8	271.5	264.4	28.6
				57	302.5	302.5	23.3	280.4	280.4	25.0	265.7	265.7	26.6	238.6	238.6	28.4
ACCS 435	EB 435D	390.0	11500	72	436.8	211.4	27.4	413.4	200.9	29.1	390.0	182.4	30.9	358.6	171.4	33.0
				67	417.3	282.8	27.2	390.0	264.3	29.1	370.5	251.1	30.7	336.6	228.2	32.8
				62	382.2	340.9	26.7	358.8	317.2	28.7	335.4	301.3	30.6	311.5	276.2	32.6
				57	335.4	335.4	26.6	312.0	312.0	28.4	296.4	296.4	30.3	270.1	270.1	32.3

NOTES : 1.) RATINGS ARE GROSS CAPACITIES - FOR NET CAPACITIES , DEDUCT EVAPORATOR BLOWER MOTOR HEAT.
2.) AT 80 °F (26.6°C) AIR ON EVAPORATOR.
3.) COMPRESSOR KW INPUT.

MATCH SYSTEM COOLING

PERFORMANCE DATA

SINGLE COND. UNIT MODEL	EVAP. BLOWER MODEL	STD. CAPACITY MBH	AIR ON EVAP.		AIR TEMPERATURE ON CONDENSER COIL - °F											
			CFM	WB TEMP. °F	75			95			115			125		
					TOTAL MBH ¹	SENS MBH ²	KW ³	TOTAL MBH ¹	SENS MBH ²	KW ³	TOTAL MBH ¹	SENS MBH ²	KW ³	TOTAL MBH ¹	SENS MBH ²	KW ³
ACCS 480	EB 480D	435.0	12000	72	491.2	253.6	29.8	462.6	238.8	31.6	434.1	224.0	33.6	399.3	198.5	35.9
				67	460.3	380.0	29.6	435.0	306.0	31.4	407.9	287.5	33.4	374.7	264.2	35.6
				62	425.4	382.9	29.1	403.4	363.1	31.2	377.1	339.4	33.2	346.8	319.7	35.4
				57	386.0	386.0	28.9	363.9	363.9	30.9	341.8	341.8	33.0	300.8	300.8	35.1
ACCS 510	EB 510D	460.0	14000	72	520.6	267.1	31.7	490.3	251.6	33.7	460.1	236.1	35.8	418.5	214.8	38.6
				67	488.0	339.1	31.5	460.0	319.9	33.4	432.2	300.4	35.7	392.9	273.1	38.2
				62	450.8	405.7	31.0	427.6	384.8	33.1	399.7	359.7	35.4	363.5	327.6	37.9
				57	409.0	409.0	30.7	385.7	385.7	33.0	362.4	362.4	35.1	315.4	315.4	37.7
ACCS 570	EB 570D	510.0	15000	72	577.1	299.5	35.1	543.6	280.3	37.2	510.1	262.9	39.6	469.0	233.3	42.1
				67	541.1	445.4	34.8	510.0	358.7	37.0	479.2	337.0	39.4	440.4	309.7	41.9
				62	499.8	449.8	34.2	474.1	426.7	36.7	443.1	398.8	39.1	407.7	376.3	41.5
				57	453.4	453.4	34.0	427.6	427.6	36.4	401.8	401.8	38.8	353.7	353.7	41.2
ACCS 640	EB 640D	580.0	16000	72	656.4	335.2	39.7	618.2	315.8	42.1	580.1	296.4	44.8	536.8	274.2	47.7
				67	615.3	424.0	39.4	580.0	399.7	41.8	545.0	375.5	44.5	503.9	347.3	47.4
				62	568.4	511.6	38.8	539.1	485.2	41.5	504.1	453.7	44.3	466.4	419.8	47.1
				57	515.7	515.7	38.6	486.4	486.4	41.2	457.1	457.1	43.9	404.5	404.5	46.7
ACCS 700	EB 700D	640.0	17200	72	723.9	371.3	44.0	681.9	349.7	46.7	639.8	329.8	49.6	564.2	304.2	53.1
				67	678.7	471.7	43.7	640.0	444.9	46.3	600.8	417.9	49.4	527.0	386.0	52.7
				62	626.9	564.2	43.0	594.6	535.1	46.1	556.0	500.4	49.0	514.1	465.9	52.4
				57	568.7	568.7	42.7	536.4	536.4	45.7	504.1	504.1	48.7	423.1	423.1	52.0
ACCS 760	EB 760D	690.0	18000	72	781.1	400.7	47.5	735.8	377.3	50.4	690.4	355.9	53.6	608.8	328.3	57.4
				67	732.4	509.0	47.2	690.0	480.1	50.1	648.3	451.0	53.4	568.6	416.5	56.9
				62	676.5	608.9	46.4	641.7	577.5	49.7	599.9	539.9	53.0	554.8	502.8	56.6
				57	613.7	613.7	46.1	578.8	578.8	49.3	543.9	543.9	52.6	456.5	456.5	56.1
ACCS 800	EB 800D	740.0	19600	72	837.6	429.6	50.7	789.0	404.6	53.8	740.3	381.6	57.2	652.8	352.0	61.2
				67	785.3	545.8	50.4	740.0	514.7	53.4	695.2	483.6	56.9	609.7	446.6	60.7
				62	725.4	652.9	49.5	688.0	619.2	53.0	643.3	579.0	56.5	594.9	539.1	60.3
				57	658.0	658.0	49.2	620.7	620.7	52.6	583.4	583.4	56.1	489.5	489.5	59.8
ACCS 890	EB 890D	810.0	21000	72	906.9	468.6	55.2	854.4	441.1	58.6	801.7	414.0	62.3	741.9	387.5	66.5
				67	850.2	574.2	54.9	810.0	565.5	58.2	753.1	531.2	62.0	696.4	491.3	66.1
				62	785.5	707.0	54.0	745.0	670.5	57.8	696.4	626.8	61.6	644.4	594.9	65.5
				57	712.6	712.6	53.5	672.2	672.2	57.3	631.8	631.8	61.1	559.1	559.1	61.9
ACCS 960	EB 960D	880.0	23000	72	995.8	514.5	60.2	938.1	484.4	63.9	880.3	454.6	67.9	814.6	425.5	72.5
				67	933.6	630.4	59.8	880.0	621.0	63.5	826.9	583.3	67.7	764.7	539.5	72.0
				62	862.5	776.3	58.9	818.1	736.3	63.0	764.7	688.2	67.2	707.6	653.2	71.5
				57	782.5	782.5	58.4	738.0	738.0	62.5	693.5	693.5	66.6	614.1	614.1	67.5
ACCS 1020	EB 1020D	930.0	25800	72	1049.7	542.3	63.8	988.9	510.6	67.7	928.0	479.2	71.9	858.7	448.6	76.8
				67	984.1	664.6	63.3	930.0	654.6	67.2	871.7	614.8	71.6	806.1	568.7	76.3
				62	909.2	818.3	62.3	862.4	776.2	66.7	806.1	725.5	71.1	745.9	688.5	75.7
				57	824.8	824.8	61.8	778.0	778.0	66.2	731.2	731.2	70.6	647.1	647.1	71.5
ACCS 1140	EB 1140D	1020.0	26400	72	1153.8	596.1	70.2	1086.9	561.2	74.5	1019.9	526.7	79.1	943.8	493.0	84.5
				67	1081.7	730.4	69.7	1020.0	719.4	74.0	958.1	675.8	78.8	886.0	625.0	83.9
				62	999.3	899.4	68.6	947.8	853.0	73.4	886.0	797.4	78.2	819.8	756.8	83.3
				57	906.6	906.6	68.0	855.1	855.1	72.8	803.6	803.6	77.6	711.3	711.3	78.7
ACCS 1340	EB 1340D	1220.0	32000	72	1362.8	704.1	83.6	1283.8	662.9	88.8	1204.7	622.1	94.3	1114.8	582.3	100.7
				67	1277.6	862.7	83.0	1220.0	849.8	88.2	1131.6	798.2	93.9	1046.5	738.2	100.0
				62	1180.3	1062.3	81.7	1119.5	1007.6	87.5	1046.5	941.9	93.2	968.4	893.9	99.2
				57	1070.8	1070.8	81.0	1010.0	1010.0	86.8	949.2	949.2	92.5	840.1	840.1	93.7
ACCS 1520	EB 1520D	1360.0	36000	72	1541.5	796.4	93.6	1452.2	749.8	99.3	1362.7	703.7	105.5	1261.0	658.7	112.6
				67	1445.2	975.9	92.9	1360.0	961.2	98.7	1280.0	902.9	105.1	1183.7	835.0	111.9
				62	1335.1	1201.6	91.5	1266.3	1139.7	97.9	1183.7	1065.3	104.3	1095.4	1011.1	111.0
				57	1211.3	1211.3	90.7	1142.5	1142.5	97.1	1073.7	1073.7	103.5	950.3	950.3	104.9

NOTES : 1.) RATINGS ARE GROSS CAPACITIES - FOR NET CAPACITIES, DEDUCT EVAPORATOR BLOWER MOTOR HEAT.
 2.) AT 80 °F (26.6°C) AIR ON EVAPORATOR.
 3.) COMPRESSOR KW INPUT.

BLOWER PERFORMANCE

Available External Static Pressure - IWG - For Accessories And Duct System Static Resistance (Allowance Made For Wet Coil And Filters)

RPM	CFM										FAN
	SP	BHP	SP	BHP	SP	BHP	SP	BHP	SP	BHP	MODEL
VEB/ HEB 108D											
	2900		3200		3500		3800		4100		12x12 (Inches)
800											
900											
1000											
1100											
VEB/ HEB 125D											
	2900		3200		3500		3800		4100		12x12 (Inches)
800	0.63	1.16	0.59	1.33	0.51	1.53	0.40	1.75	0.28	1.98	
900	0.89	1.40	0.87	1.61	0.82	1.82	0.75	2.06	0.66	2.32	
1000	1.16	1.67	1.15	1.91	1.12	2.14	1.08	2.40	1.02	2.70	
1100	1.44	1.96	1.45	2.24	1.44	2.52	1.41	2.78	1.38	3.12	
VEB/ HEB 145D											
	2900		3200		3500		3800		4100		12x12 (Inches)
800	0.61	1.16	0.56	1.33	0.48	1.53	0.37	1.75	0.24	1.98	
900	0.87	1.40	0.84	1.61	0.79	1.82	0.72	2.06	0.62	2.32	
1000	1.14	1.67	1.12	1.91	1.09	2.14	1.05	2.40	0.98	2.70	
1100	1.42	1.96	1.42	2.24	1.41	2.52	1.38	2.78	1.34	3.12	
VEB/ HEB 160D											
	3800		4200		4600		5000		5400		15x15 (Inches)
700	0.67	1.42	0.65	1.62	0.57	1.90	0.42	2.17	0.20	2.49	
800	0.94	1.77	0.95	2.03	0.93	2.30	0.88	2.62	0.78	2.97	
900	1.25	2.20	1.26	2.49	1.25	2.77	1.25	3.10	1.23	3.47	
1000	1.60	2.69	1.60	3.01	1.60	3.34	1.60	3.67	1.61	4.10	
VEB/ HEB 190D											
	4000		4400		4800		5200		5600		15x15 (Inches)
700	0.66	1.52	0.61	1.76	0.49	2.03	0.31	2.33	-	2.65	
800	0.95	1.90	0.94	2.16	0.90	2.46	0.83	2.80	0.69	3.14	
900	1.26	2.35	1.25	2.63	1.25	2.93	1.24	3.29	1.17	3.68	
1000	1.60	2.85	1.60	3.18	1.60	3.51	1.60	3.88	1.59	4.33	
VEB/ EB 220D											
	4600		5000		5400		5800		6200		15x15 (Inches)
800	1.07	2.30	1.05	2.62	0.97	2.97	0.80	3.34	0.54	3.75	
900	1.39	2.77	1.42	3.10	1.42	3.47	1.36	3.89	1.24	4.34	
1000	1.74	3.34	1.77	3.67	1.80	4.10	1.80	4.53	1.77	5.03	
1100	2.12	3.99	2.15	4.39	2.18	4.79	2.21	5.27	2.23	5.80	
VEB/ EB 250D											
	5600		6000		6400		6800		7200		15x15 (Inches)
800	0.88	3.14	0.64	3.52	0.36	3.96	-	4.41	-	4.86	
900	1.36	3.70	1.26	4.13	1.11	4.60	0.85	5.10	0.53	5.63	
1000	1.78	4.34	1.75	4.74	1.70	5.31	1.57	5.85	1.38	6.46	
1100	2.16	5.02	2.19	5.53	2.19	6.08	2.15	6.67	2.08	7.33	
EB 290D											
	6500		7000		7500		8000		8500		18x13 (Inches)
750	1.37	4.21	1.23	4.63	1.04	5.11	0.77	5.66	0.45	6.29	
800	1.68	4.68	1.57	5.16	1.41	5.64	1.20	6.19	0.93	6.83	
900	2.27	5.68	2.22	6.29	2.13	6.90	2.01	7.51	1.83	8.12	
1000	2.86	6.74	2.86	7.45	2.84	8.20	2.76	8.96	2.64	9.71	
EB 320D											
	7000		7500		8000		8500		9000		18x13 (Inches)
750	1.21	4.63	1.02	5.11	0.74	5.66	0.42	6.29	-	6.91	
800	1.55	5.16	1.39	5.64	1.17	6.19	0.90	6.83	0.57	7.54	
900	2.20	6.29	2.11	6.90	1.98	7.51	1.80	8.12	1.56	8.83	
1000	2.84	7.45	2.82	8.20	2.73	8.96	2.61	9.71	2.46	10.48	
EB 380D											
	7600		8400		9200		10000		10800		18x18 (Inches)
700	1.10	4.26	0.97	4.95	0.80	5.76	0.54	6.53	0.26	7.53	
800	1.60	5.16	1.55	6.00	1.43	6.93	1.25	7.90	1.02	8.94	
900	2.11	6.35	2.10	7.24	2.04	8.25	1.92	9.37	1.76	10.55	
1000	2.63	7.70	2.66	8.67	2.64	9.73	2.58	10.95	-	-	
EB 435D											
	9100		9900		10700		11500		12300		450x450 (mm)
700	1.09	5.58	0.97	6.35	0.82	7.12	0.67	7.98	0.47	8.86	
800	1.66	6.88	1.57	7.70	1.45	8.68	1.32	9.70	1.13	10.73	
900	2.25	8.38	2.20	9.39	2.11	10.45	2.01	11.56	1.85	12.70	
1000	2.87	10.16	2.85	11.14	2.79	12.43	2.36	12.56	2.22	13.88	
EB 480D											
	10400		11200		12000		12800		13600		500x500 (mm)
600	0.86	5.26	0.79	5.89	0.68	6.51	0.57	7.20	0.45	7.93	
700	1.42	6.75	1.36	7.43	1.28	8.25	1.18	9.07	1.07	9.87	
800	2.03	8.49	1.99	9.31	1.92	10.19	1.84	11.08	1.74	12.11	
900	2.67	10.55	2.66	11.48	2.62	12.51	2.56	13.52	2.47	14.65	

BLOWER PERFORMANCE

Available External Static Pressure - IWG - For Accessories And Duct System Static Resistance (Allowance Made For Wet Coil And Filters)

RPM	CFM										FAN MODEL
	SP	BHP	SP	BHP	SP	BHP	SP	BHP	SP	BHP	
EB 510D											
	12400		13200		14000		14800		15600		500x500 (mm)
600	0.63	6.82	0.51	7.56	0.37	8.33	0.23	9.13	0.05	9.92	
700	1.23	8.59	1.13	9.47	1.00	10.36	0.88	11.22	0.75	12.24	
800	1.88	10.64	1.79	11.61	1.69	12.59	1.59	13.75	1.47	14.86	
900	2.58	12.99	2.52	14.07	2.43	15.28	2.35	16.48	2.22	17.66	
EB 570D											
	12000		13000		14000		15000		16000		500x500 (mm)
600	0.68	6.51	0.54	7.38	0.37	8.33	0.18	9.31	-	10.37	
700	1.27	8.22	1.15	9.25	1.00	10.36	0.85	11.51	0.66	12.75	
800	1.91	10.18	1.82	11.35	1.69	12.59	1.55	13.99	1.39	15.45	
850	2.27	11.30	2.18	12.61	2.06	13.93	1.92	15.24	1.77	16.87	
EB 640D											
	14000		15000		16000		17000		18000		560x560 (mm)
600	1.22	8.49	1.13	9.42	1.01	10.34	0.90	11.29	0.79	12.38	
650	1.56	9.71	1.48	10.64	1.38	11.67	1.28	12.75	1.17	13.89	
700	1.91	11.01	1.86	12.06	1.76	13.14	1.66	14.31	1.57	15.47	
750	2.30	12.40	2.24	13.60	2.17	14.73	2.07	15.97	2.00	17.33	
EB 700D											
	15200		16200		17200		18200		19200		560x560 (mm)
650	1.49	10.84	1.37	11.88	1.27	12.99	1.13	14.04	1.00	15.31	
700	1.86	12.30	1.77	13.38	1.67	14.60	1.54	15.74	1.43	17.16	
750	2.24	13.81	2.16	14.99	2.07	16.21	1.96	17.58	1.86	18.96	
800	2.65	15.40	2.57	16.74	2.50	18.04	2.41	19.54	2.30	20.95	
EB 760D											
	16000		17000		18000		19000		20000		560x560 (mm)
650	1.33	11.67	1.22	12.75	1.10	13.89	0.95	15.12	0.80	16.31	
700	1.71	13.14	1.60	14.31	1.50	15.47	1.36	16.84	1.22	18.22	
750	2.12	14.73	2.01	15.97	1.93	17.33	1.78	18.64	1.65	20.21	
800	2.52	16.50	2.43	17.69	2.34	19.17	2.24	20.65	2.11	22.32	
EB 800D											
	16600		18100		19600		21100		22600		630x630 (mm)
600	1.82	12.29	1.76	13.68	1.63	15.32	1.43	17.19	1.13	19.20	
650	2.19	14.25	2.17	15.71	2.10	17.38	1.97	19.30	1.77	21.42	
700	2.56	16.31	2.58	18.04	2.55	19.79	2.46	21.64	2.34	23.88	
750	2.96	18.49	2.99	20.49	2.99	22.45	2.96	24.51	2.87	26.66	
EB 890D											
	19000		20500		22000		23500		25000		630x630 (mm)
600	1.67	14.66	1.49	16.39	1.23	18.36	0.87	20.52	0.43	22.88	
650	2.11	16.69	2.00	18.44	1.82	20.60	1.57	22.91	1.19	25.31	
700	2.53	18.96	2.48	20.90	2.36	23.01	2.18	25.42	1.92	28.01	
750	2.96	21.66	2.94	23.53	2.88	25.73	2.77	28.27	2.57	30.89	
EB 960D											
	20000		21500		23000		24500		26000		630x630 (mm)
600	1.59	15.82	1.36	17.70	1.05	19.81	0.62	22.11	0.12	24.38	
650	2.08	17.95	1.93	19.89	1.71	22.08	1.38	24.47	0.95	27.06	
700	2.54	20.28	2.45	22.27	2.30	24.55	2.06	27.05	1.75	29.73	
750	2.99	22.88	2.94	25.00	2.86	27.38	2.69	29.91	2.47	32.75	
EB 1020D											
	22800		24300		25800		27300		28800		710x710 (mm)
550	1.87	17.70	1.80	19.30	1.71	21.10	1.55	22.99	1.34	25.10	
600	2.32	20.53	2.28	22.24	2.23	24.09	2.14	26.19	2.01	28.32	
650	2.77	23.72	2.75	25.58	2.74	27.59	2.69	29.75	2.61	32.02	
700	3.24	27.01	3.24	29.28	3.24	31.34	3.23	33.80	3.18	36.13	
EB 1140D											
	23200		24800		26400		28000		29600		710x710 (mm)
500	1.34	15.58	1.19	17.29	0.98	19.14	0.69	21.08	0.35	23.22	
550	1.81	18.15	1.72	19.92	1.59	21.82	1.40	23.89	1.14	26.19	
600	2.26	21.00	2.22	22.93	2.15	24.94	2.02	27.13	1.85	29.65	
650	2.72	24.18	2.70	26.29	2.66	28.38	2.59	30.71	2.48	33.35	
EB 1340D											
	28000		30000		32000		34000		36000		800x800 (mm)
450	1.73	20.50	1.65	22.74	1.52	24.97	1.34	27.50	1.12	22.98	
500	2.24	24.52	2.21	26.89	2.14	29.39	2.04	32.08	1.90	34.83	
550	2.76	28.83	2.77	31.65	2.74	34.36	2.69	37.16	2.60	40.46	
600	3.30	33.86	3.33	36.82	3.33	39.80	3.32	43.06	3.28	46.52	
EB 1520D											
	33000		34500		36000		37500		39000		800x800 (mm)
450	1.42	26.08	1.28	28.16	1.09	22.98	0.88	32.29	0.63	34.64	
500	2.08	30.76	1.99	32.82	1.87	34.83	1.68	37.27	1.54	39.57	
550	2.70	35.83	2.66	37.93	2.57	40.46	2.48	42.84	2.36	45.36	
600	3.31	41.50	3.30	43.91	3.25	46.52	3.21	48.96	-	-	

DIMENSIONAL DATA

Air Cooled Condensing Units

ACCS 68, 81, 95

MODEL	A	B	C	D	E	SUCTION SIZE (QTY)	LIQUID SIZE (QTY)
ACCS 68	46 1/2	42 11/16	14 3/8	29 7/16	15 3/4	7/8 (1)	3/8 (1)
ACCS 81	48 1/2	44 3/8	19 5/16	35 1/4	20 7/8	7/8 (1)	1/2 (1)
ACCS 95	48 1/2	44 3/8	19 5/16	35 1/4	20 7/8	1 1/8 (1)	1/2 (1)

NOTE: ACCS 68 IS WITH SERVICE VALVE.

ACCS 108, 125, 145

MODEL	SUCTION SIZE (QTY)	LIQUID SIZE (QTY)
ACCS 108	1 3/8 (1)	1/2 (1)
ACCS 125	1 3/8 (1)	1/2 (1)
ACCS 145	1 3/8 (1)	5/8 (1)

ACCS 160, 190, 220, 250, 290

MODEL	A	SUCTION SIZE (QTY)	LIQUID SIZE (QTY)
ACCS 160	40 1/4	1 3/8 (1)	5/8 (1)
ACCS 190	40 1/4	1 5/8 (1)	5/8 (1)
ACCS 220	48 1/4	1 3/8 (1), 1 1/8 (1)	1/2 (2)
ACCS 250	48 1/4	1 3/8 (2)	1/2 (2)
ACCS 290	48 1/4	1 3/8 (2)	5/8 (2)

NOTE: ACCS 160 AND 190 ARE SINGLE COMPRESSOR UNIT.

NOTE : ALL DIMENSIONS ARE IN INCHES.

DIMENSIONAL DATA

Air Cooled Condensing Units

ACCS 320, 380, 435

MODEL	A	SUCTION SIZE (QTY)	LIQUID SIZE (QTY)
ACCS 320	48	1 3/8 (2)	5/8 (2)
ACCS 380	56	1 5/8 (2)	5/8 (2)
ACCS 435	56	1 3/8 (3)	5/8 (3)

ACCS 480, 510, 570

MODEL	SUCTION SIZE (QTY)	LIQUID SIZE (QTY)
ACCS 480	1 3/8 (3)	5/8 (3)
ACCS 510	1 5/8 (1), 1 3/8 (2)	5/8 (3)
ACCS 570	1 5/8 (3)	5/8 (3)

ACCS 640, 700, 760

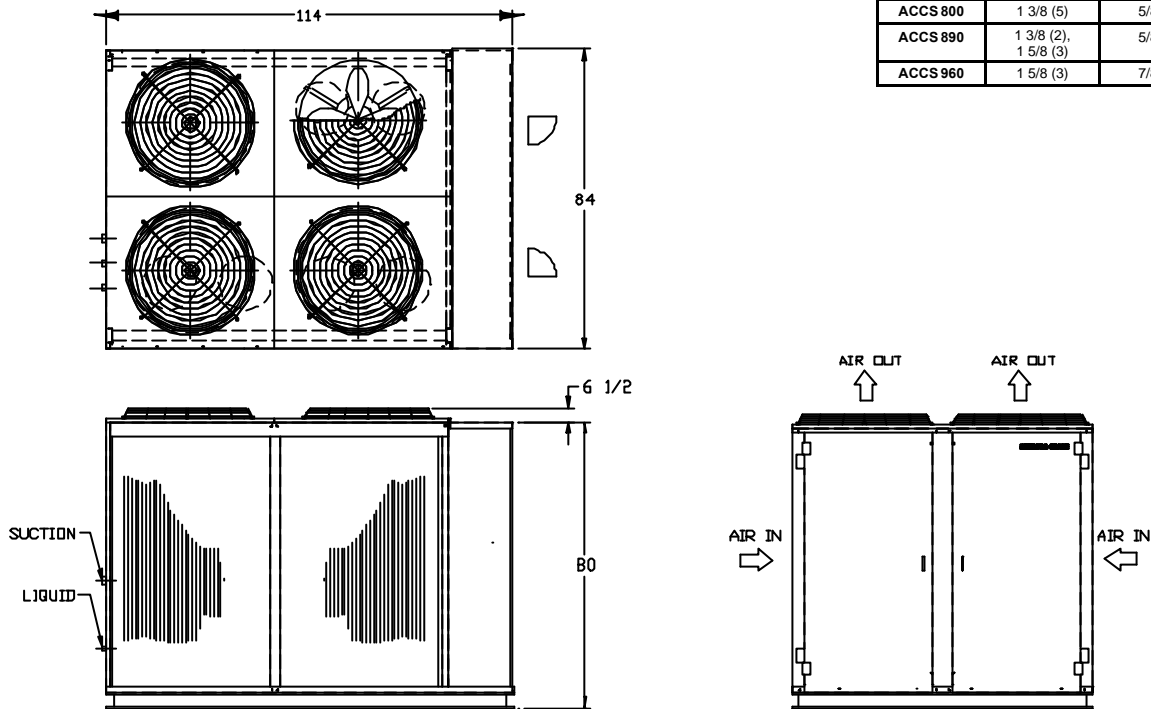
MODEL	SUCTION SIZE (QTY)	LIQUID SIZE (QTY)
ACCS 640	1 3/8 (4)	5/8 (4)
ACCS 700	1 3/8 (2), 1 5/8 (2)	5/8 (4)
ACCS 760	1 5/8 (4)	5/8 (4)

NOTE : ALL DIMENSIONS ARE IN INCHES.

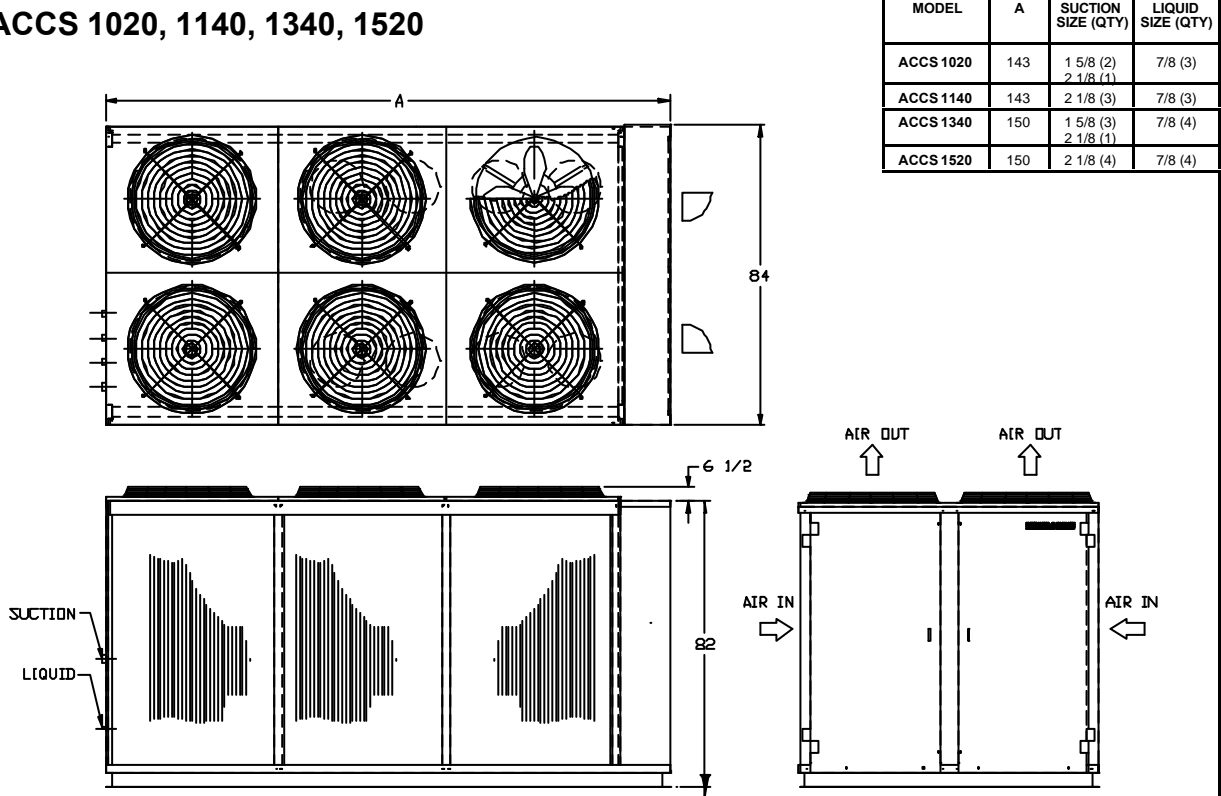
DIMENSIONAL DATA

Air Cooled Condensing Units

ACCS 800, 890, 960



ACCS 1020, 1140, 1340, 1520



NOTE: ALL DIMENSIONS ARE IN INCHES.

DIMENSIONAL DATA

Evaporator Units

HEB 68D, 81D, 95D

MODEL	A	B	C	D	E	F
HEB 68D	20	46	24	13	11 3/8	16 1/2
HEB 81D	20	46	24	13	11 3/8	16 1/2
HEB 95D	23	46	30	15 1/2	13 1/2	15 1/4

HEB 108D, 125D, 145D, 160D, 190D, 220D

MODEL	A	B	C	D	E	F
HEB 108D	27	50	33	15 1/2	13 1/2	21 1/4
HEB 125D	27	50	33	15 1/2	13 1/2	21 1/4
HEB 145D	27	50	33	15 1/2	13 1/2	21 1/4
HEB 160D	29	58	40	18 1/2	16	24 3/8
HEB 190D	29	58	40	18 1/2	16	24 3/8
HEB 220D	29	78	40	18 1/2	16	30

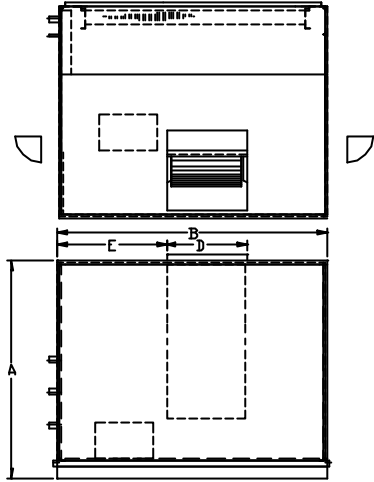
EB 250D, 290D, 320D, 380D, 435D

MODEL	A	B	C	D	E	F
EB 250D	29	78	40	18 1/2	16	30
EB 290D	38	84	45	17	19	33 1/2
EB 320D	38	84	45	17	19	33 1/2
EB 380D	48	84	45	22	19	37
EB 435D	48	84	45	22 1/2	22 1/2	37

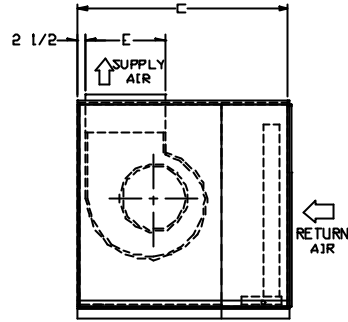
NOTES : 1.) ALL DIMENSIONS ARE IN INCHES.
 2.) UNITS SHOWN ARE RIGHT HAND PIPING CONNECTION.

DIMENSIONAL DATA

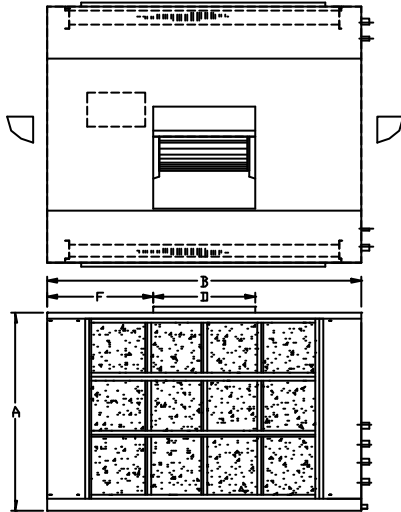
EB 480D, 510D, 570D, 640D, 700D, 760D



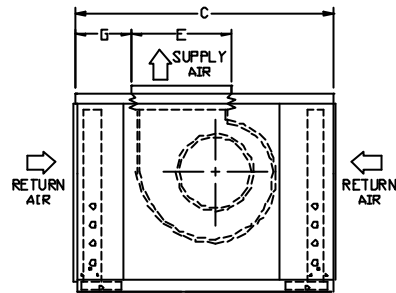
MODEL	A	B	C	D	E	F
EB 480D	68	84	66	25	25	34
EB 510D	68	84	66	25	25	34
EB 570D	68	84	66	25	25	34
EB 640D	78	84	66	28	28	34
EB 700D	78	84	66	28	28	34
EB 760D	78	84	66	28	28	34



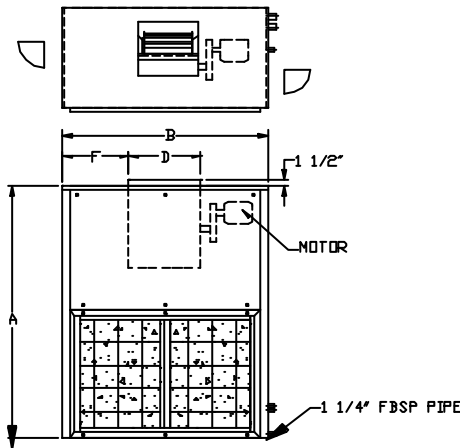
EB 800D, 890D, 960D, 1020D, 1140D, 1340D, 1520D



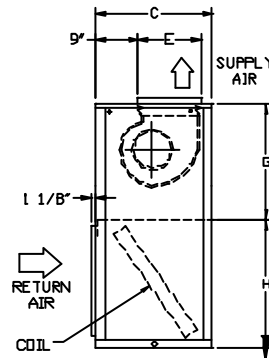
MODEL	A	B	C	D	E	F	G
EB 800D	62	98	80	31 1/2	31 1/2	39	17
EB 890D	62	98	80	31 1/2	31 1/2	39	17
EB 960D	62	98	80	31 1/2	31 1/2	39	17
EB 1020D	62	98	80	35 1/2	35 1/2	39	14
EB 1140D	62	98	80	35 1/2	35 1/2	39	14
EB 1340D	70	118	86	40	40	39	14
EB 1520D	70	118	86	40	40	39	14



VEB 108D, 125D, 145D, 160D, 190D, 220D, 250D



Model	A	B	C	D	E	F	G	H
VEB 108D	51 1/2	52	25	15 1/2	13 1/2	17 1/4	25 3/4	25 3/4
VEB 125D	51 1/2	52	25	15 1/2	13 1/2	17 1/4	25 3/4	25 3/4
VEB 145D	51 1/2	52	25	15 1/2	13 1/2	17 1/4	25 3/4	25 3/4
VEB 160D	57 1/2	58 1/2	28	18 5/8	16	15	28 3/4	28 3/4
VEB 190D	57 1/2	58 1/2	28	18 5/8	16	15	28 3/4	28 3/4
VEB 220D	57 1/2	68	28	15 1/2	16	26	28 3/4	28 3/4
VEB 250D	57 1/2	68	28	18 1/2	16	24 3/4	28 3/4	28 3/4



NOTES : 1.) ALL DIMENSIONS ARE IN INCHES.
2.) UNITS SHOWN ARE RIGHT HAND PIPING CONNECTION.

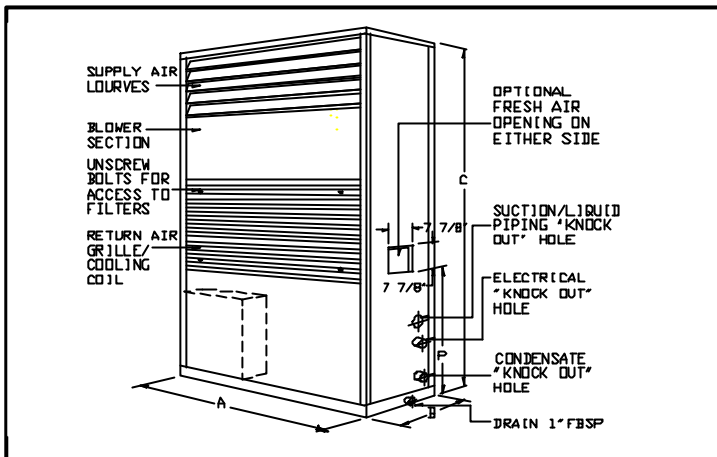
DIMENSIONAL DATA

Free Blow Type Evaporator Blower Unit

VEB 68D-FB, 81D-FB, 95D-FB, 108D-FB, 125D-FB, 145D-FB, 160D-FB, 190D-FB, 220D-FB

- For Access To Internal Components**
- 1.) Unscrew bolts at return air grille, remove grille and access to filters and coil.
 - 2.) Unscrew bolts for blower section panel push panel up and remove panel for access to blower and drive assembly.
 - 3.) Unscrew bolts for bottom panel, push panel up and access to compressor(s), condenser(s) and controls.

Model	A	B	*C	P
VEB 68D-FB	48	22	79	29
VEB 81D-FB	48	22	79	29
VEB 95D-FB	48	22	79	29
VEB 108D-FB	56	24	81	29
VEB 125D-FB	61	24	81	29
VEB 145D-FB	61	24	81	29
VEB 160D-FB	61	28	86	29
VEB 190D-FB	72	28	86	33
VEB 220D-FB	72	28	86	33



* Add 10" to the units height if autotransformer are required.

PHYSICAL DATA

Air Cooled Condensing Units

MODEL	COMPRESSOR					CONDENSER COIL		CONDENSER FAN				MAX. R-22 CHARGE	APPROX. OPERATING WEIGHT (LBS)
	QTY	POWER SUPPLY	MRA EA	LRA EA	NRA EA	FACE AREA SQ. FT	ROWS/ FPI	QTY.	MTR. HP EA	MTR. FLA EA	BLADE DIA. (INCH)	QTY. x LBS PER COMP.	
ACCS 68	1	400-3-50Hz	1x14.0	1x74.0	1x7.8	10.5	2/14	2	1/12	0.5	18.0	1X10	390
ACCS 81	1	400-3-50Hz	1x17.0	1x101	1x9.7	12.0	2/14	2	1/5	1.3	18.0	1X10	396
ACCS 95	1	400-3-50Hz	1x23.0	1x95	1x11.2	12.0	2/16	2	1/5	1.3	18.0	1X16	400
ACCS 108	1	400-3-50Hz	1x24.0	1x114	1x12.5	15.3	2/14	1	5/8	1.83	26.0	1X16	450
ACCS 125	1	400-3-50Hz	1x26.9	1x125	1x14.4	15.3	2/16	1	5/8	1.9	26.0	1X16	480
ACCS 145	1	400-3-50Hz	1x27.5	1x125	1x18.2	15.3	3/14	1	5/8	1.9	26.0	1X16	500
ACCS 160	1	400-3-50Hz	1x34.0	1x167	1x18.4	17.2	2/16	2	5/8	1.83	26.0	1X23.8	780
ACCS 190	1	400-3-50Hz	1x37.0	1x198	1x22.7	17.2	3/12	2	5/8	1.83	26.0	1x25.3	840
ACCS 220	2	400-3-50Hz	2x24.0	2x114	2x12.5	20.7	3/12	2	5/8	1.83	26.0	2x16.0	900
ACCS 250	2	400-3-50Hz	2x26.9	2x125	2x14.4	20.7	3/16	2	5/8	1.83	26.0	2x17.6	930
ACCS 290	2	400-3-50Hz	2x27.5	2x125	2x18.2	20.7	4/14	2	5/8	1.83	26.0	2x16.0	990
ACCS 320	2	400-3-50Hz	2x34.0	2x167	2x18.4	32.0	3/16	3	5/8	1.83	26.0	2x23.8	1450
ACCS 380	2	400-3-50Hz	2x37.0	2x198	2x22.7	37.3	3/16	3	5/8	1.83	26.0	2x25.3	1600
ACCS 435	3	400-3-50Hz	3x27.5	3x125	3x18.2	37.3	4/16	3	5/8	1.83	26.0	3x16.0	1800
ACCS 480	3	400-3-50Hz	3x34.0	3x167	3x18.4	48.8	3/14	4	5/8	1.83	26.0	3x22	2493
ACCS 510	3	400-3-50Hz	2x34.0, 1x37.0	2x167, 1x198	2x18.4, 1x22.7	48.8	3/16	4	5/8	1.83	26.0	3X22	2587
ACCS 570	3	400-3-50Hz	3x37.0	3x198	3x22.7	48.8	4/14	4	5/8	1.83	26.0	3x22	2680
ACCS 640	4	400-3-50Hz	4x34.0	4x167	4x18.4	66.0	4/16	3	1 1/2	3.2	31.5	4x22	3333
ACCS 700	4	400-3-50Hz	2x34.0, 2x37.0	2x167, 2x198	2x18.4, 2x22.7	68.0	4/16	3	1 1/2	3.2	31.5	4X22	3373
ACCS 760	4	400-3-50Hz	4x37.0	4x198	4x22.7	72.0	4/16	3	1 1/2	3.2	31.5	4x22	3456
ACCS 800	5	400-3-50Hz	5x34.0	5x167	5x18.4	94.0	3/16	4	1 1/2	3.2	31.5	5x22	4671
ACCS 890	5	400-3-50Hz	2x34.0, 3x37.0	2x167, 3x198	2x18.4, 3x22.7	94.0	4/14	4	1 1/2	3.2	31.5	2x23.8, 3x25.3	4700
ACCS 960	6	400-3-50Hz	6x37.0	6x198	6x22.7	94.0	4/16	4	1 1/2	3.2	31.5	6x22	4843
ACCS 1020	6	400-3-50Hz	4x34.0, 2x37.0	4x167, 2x198	4x18.4, 2x22.7	123.0	3/16	6	1 1/2	3.2	31.5	6X22	5900
ACCS 1140	6	400-3-50Hz	6x37.0	6x198	6x22.7	123.0	4/14	6	1 1/2	3.2	31.5	6x22	6028
ACCS 1340	8	400-3-50Hz	6x34.0, 2x37.0	6x167, 2x198	6x18.4, 2x22.7	129.0	4/16	6	1 1/2	3.2	31.5	8x22	6700
ACCS 1520	8	400-3-50Hz	8x37.0	8x198	8x22.7	129.0	4/16	6	1 1/2	3.2	31.5	8x22	6819

Notes: 1.) Condenser fan motors for ACCS 108 to 1520 are for 400V-3-50Hz electrical supply.

Condenser fan motors for ACCS 68 to 95 are for 230V-1-50Hz electrical supply.

- 2.) Minimum - Maximum voltage is 360V-440V.
- 3.) MRA - Maximum must trip amp.
- 4.) LRA - Locked rotor amp.
- 5.) NRA - Nominal running amp.
- 6.) FLA - Full load amp.

PHYSICAL DATA

Evaporator Blower Units

MODEL	BLOWER SECTION						EVAPORATOR		FILTERS		APPROX. OPERATING WEIGHT LBS	SUCTION CONNECTION		LIQUID CONNECTION	
	BLOWER		MTR.			FAN CFM	COIL		QTY.	SIZE (INCH.)		QTY.	SIZE	QTY.	SIZE
	QTY.	DIA. x WIDTH	MAX HP	FLA EACH	LRA EACH	MIN-MAX CFM	ROWS DEEP	FACE AREA (SQ.FT)							
HEB 68D	1	10x10 (inch.)	0.75	5.6	-	1350 - 2700	3	4.5	2	16x20x1	260	1	7/8	1	3/8
HEB 81D	1	10x10 (inch.)	1.0	6.5	-	1350 - 2700	3	4.5	2	16x20x1	275	1	7/8	1	1/2
HEB 95D	1	12x12 (inch.)	1.0	6.0	-	1500 - 3000	3	5.0	2	20x20x1	340	1	1 1/8	1	1/2
VEB/ HEB 108D	1	12x12 (inch.)	4.0	6.4	43.9	2170 - 4330	3	7.2	1 1	20x25x1 25x25x1	360	1	1 1/8	1	1/2
VEB/ HEB 125D	1	12x12 (inch.)	4.0	6.4	43.9	2170 - 4330	3	7.2	1 1	20x25x1 25x25x1	380	1	1 3/8	1	1/2
VEB/ HEB 145D	1	12x12 (inch.)	4.0	6.4	43.9	2170 - 4330	4	7.2	1 1	20x25x1 25x25x1	400	1	1 3/8	1	5/8
VEB/ HEB 160D	1	15x15 (inch.)	5.5	8.3	59.4	2800 - 5600	3	9.3	2	25x25x1	470	1	1 3/8	1	5/8
VEB/ HEB 190D	1	15x15 (inch.)	5.5	8.3	59.4	2800 - 5600	3	9.3	2	25x25x1	500	1	1 5/8	1	5/8
VEB/ HEB 220D	1	15x15 (inch.)	10.0	14.9	109	3960 - 7930	3	13.0	1 2	20x25x1 25x25x1	500	1 1	1 1/8 1 3/8	2	1/2
VEB/EB 250D	1	15x15 (inch.)	10.0	14.9	109	3900 - 7790	3	13.0	1 2	20x25x1 25x25x1	680	2	1 3/8	2	1/2
EB 290D	1	18x13 (inch.)	15.0	21.5	153	5250 - 10500	3	17.5	3 3	16x25x1 20x25x1	900	2	1 3/8	2	5/8
EB 320D	1	18x13 (inch.)	15.0	21.5	153	5250 - 10500	4	17.5	3 3	16x25x1 20x25x1	920	2	1 5/8	2	5/8
EB 380D	1	18x18 (inch.)	15.0	21.5	153	6750 - 13500	3	22.5	3 3	20x25x1 25x25x1	1100	2	1 5/8	2	5/8
EB 435D	1	450x450 (mm.)	15.0	21.5	153	6750 - 13500	3	22.5	3 3	20x25x1 25x25x1	1150	3	1 3/8	3	5/8
EB 480D	1	500x500 (mm.)	20.0	29.2	210	9000 - 18000	3	30.0	9	20x25x1	1450	3	1 3/8	3	5/8
EB 510D	1	500x500 (mm.)	20.0	29.2	210	9000 - 18000	3	30.0	9	20x25x1	1520	2 1	1 3/8 1 5/8	3	5/8
EB 570D	1	500x500 (mm.)	20.0	29.2	210	9000 - 18000	3	30.0	9	20x25x1	1600	3	1 5/8	3	5/8
EB 640D	1	560x560 (mm.)	30.0	41.2	289	10500 - 21000	3	35.0	3 6	20x25x1 25x25x1	1820	4	1 3/8	4	5/8
EB 700D	1	560x560 (mm.)	30.0	41.2	289	10500 - 21000	4	35.0	3 6	20x25x1 25x25x1	1860	2 2	1 3/8 1 5/8	4	5/8
EB 760D	1	560x560 (mm.)	30.0	41.2	289	10500 - 21000	4	35.0	3 6	20x25x1 25x25x1	1900	4	1 5/8	4	5/8
EB 800D	1	630x630 (mm.)	40.0	55.6	395	14625 - 29250	3	48.8	4 4 4 4	16x20x1 16x25x1 20x25x1 25x25x1	2100	5	1 3/8	5	5/8
EB 890D	1	630x630 (mm.)	40.0	55.6	395	14625 - 29250	3	48.8	8 8	16x25x1 25x25x1	2180	3 2	1 5/8 1 3/8	5	5/8
EB 960D	1	630x630 (mm.)	40.0	55.6	395	16250 - 32500	3	54.2	8 8	16x25x1 25x25x1	2250	3	1 5/8	3	7/8
EB 1020D	1	710x710 (mm.)	40.0	55.6	395	16250 - 32500	3	54.2	8 8	16x25x1 25x25x1	2340	2 1	1 5/8 2 1/8	3	7/8
EB 1140D	1	710x710 (mm.)	40.0	55.6	395	16250 - 32500	4	54.2	8 8	16x25x1 25x25x1	2400	3	2 1/8	3	7/8
EB 1340D	1	800x800 (mm.)	50.0	67.4	489	23480 - 46950	3	78.3	24	20x25x1	3500	3 1	1 5/8 2 1/8	4	7/8
EB 1520D	1	800x800 (mm.)	50.0	67.4	489	23480 - 46950	4	78.3	24	20x25x1	3750	4	2 1/8	4	7/8

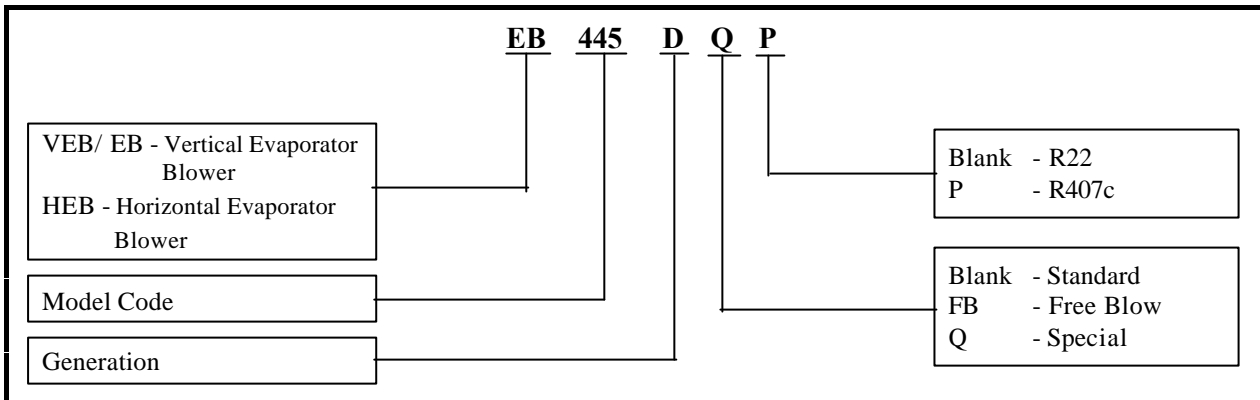
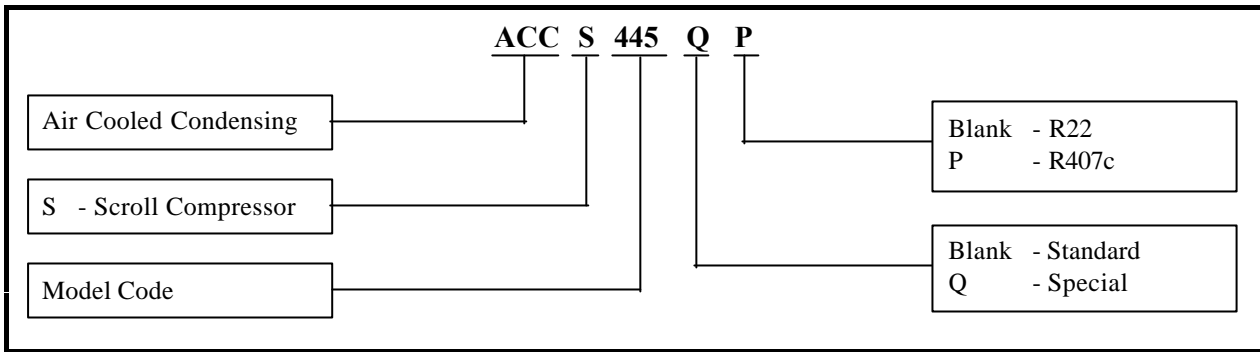
Note: Power supply for HEB 68D to 95D is 230-1-50hz.

Evaporator Free Blower Units

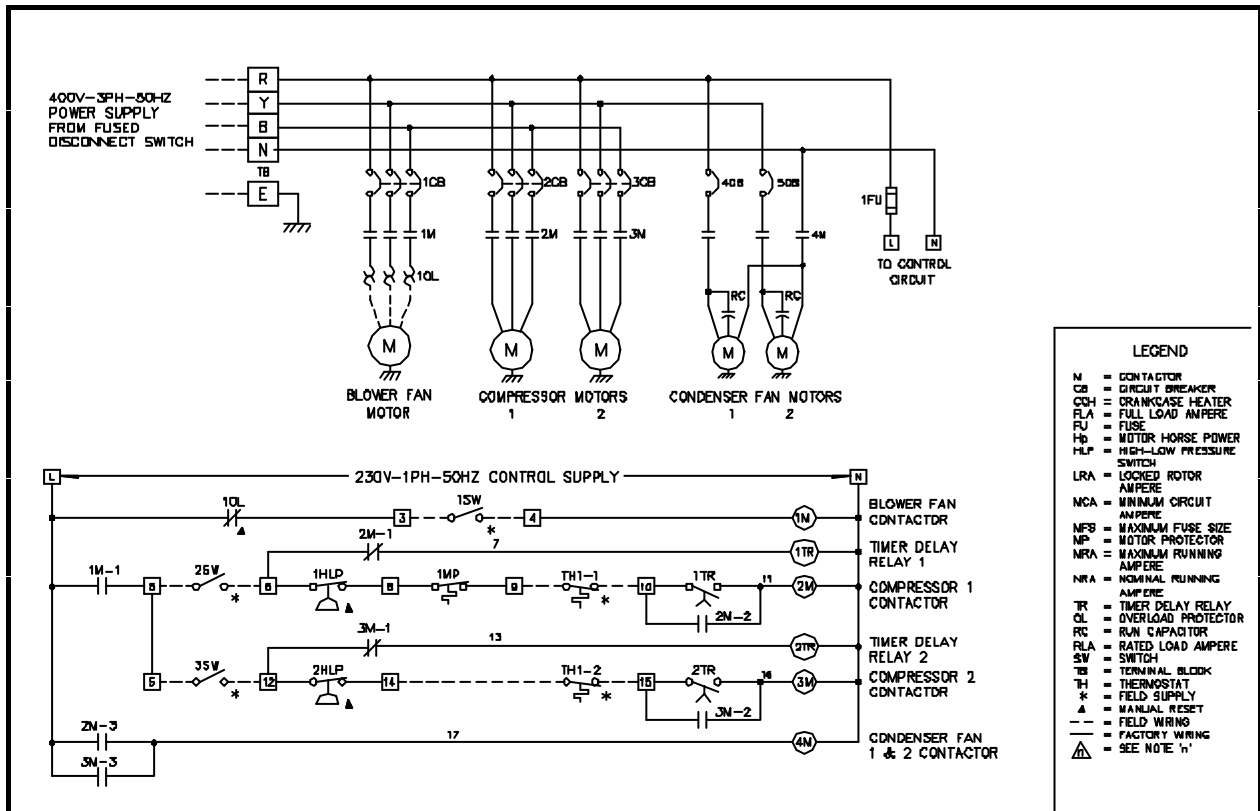
MODEL	BLOWER SECTION				EVAPORATOR		FILTERS		SUCTION CONNECTION		LIQUID CONNECTION	
	BLOWER		MTR.	FAN CFM	COIL		QTY.	SIZE (INCH.)	QTY.	SIZE	QTY.	SIZE
	QTY.	DIA. X WIDTH (INCH)	HP	CFM	ROWS DEEP	NOM FACE AREA (SQ.FT)						
VEB 68D-FB	1	10-9	1/2	2000	3	5.4	2	20 7/8 x 18 1/8 x 1/2	1	7/8	1	3/8
VEB 81D-FB	2	9-7	1/3	2400	3	7.0	2	20 7/8 x 18 1/8 x 1/2	1	7/8	1	1/2
VEB 95D-FB	2	9-7	1/3	2600	4	7.0	2	20 7/8 x 18 1/8 x 1/2	1	1 1/8	1	1/2
VEB 108D-FB	2	10-8	1 1/2	3200	4	7.0	2	20 7/8 x 18 1/8 x 1/2	1	1 1/8	1	1/2
VEB 125D-FB	2	10-10	1 1/2	3500	3	9.9	2	27 3/4 x 18 1/8 x 1/2	1	1 3/8	1	1/2
VEB 145D-FB	2	10-10	1 1/2	4000	3	9.9	2	27 3/4 x 18 1/8 x 1/2	1	1 3/8	1	5/8
VEB 160D-FB	2	10-10	2	4600	4	9.9	2	27 3/4 x 18 1/8 x 1/2	1	1 3/8	1	5/8
VEB 190D-FB	2	12-12	2	4800	3	13.1	2	32 5/8 x 18 1/8 x 1/2	1	1 5/8	1	5/8
VEB 220D-FB	2	12-12	2	5400	4	13.1	2	32 5/8 x 18 1/8 x 1/2	1 1	11/8 1 3/8	2	1/2

Note: Power supply for VEB 68D-FB to 95D-FB is 230-1-50hz.

NOMENCLATURE



TYPICAL WIRING SCHEMATIC



LIMITS AND CORRECTION FACTORS

LIMITATION (AIR TEMPERATURE °F)

		DB	WB
INDOOR	MAX.	95	72
	MIN.	66	57
OUTDOOR	MAX.	125	-
	MIN.	66	-

CORRECTION FACTORS

To correct for variation in air flow, use this multiplier.

AIR FLOW VARIATION	TOTAL CAPACITY	SENSIBLE CAPACITY
0.8	0.960	0.900
0.9	0.980	0.950
1.0	1.000	1.000
1.1	1.015	1.045
1.2	1.025	1.090

To correct for altitude, use this multiplier.

ALTITUDE ABOVE SEA LEVEL - FT	COOLING CAPACITY
0	1.00
2000	0.98
3000	0.97
4000	0.96
5000	0.95
6000	0.93
7000	0.92

To correct sensible capacity for varying dry bulb.

DRY BULB	WET BULB			
	57	62	67	72
75	0.84	0.81	0.78	0.74
80	1.00	1.00	1.00	1.00
85	1.16	1.18	1.21	1.26

NOTE: IF THE CAPACITY AFTER MULTIPLYING THE SENSIBLE WITH THE CORRECTION FACTOR EXCEED THE TOTAL CAPACITY, THEN THE SENSIBLE MUST BE EQUAL TO THE TOTAL.

MANUFACTURER RESERVES THE RIGHT TO CHANGE SPECIFICATION OR DESIGN AT ANY TIME WITHOUT PRIOR NOTICE.

