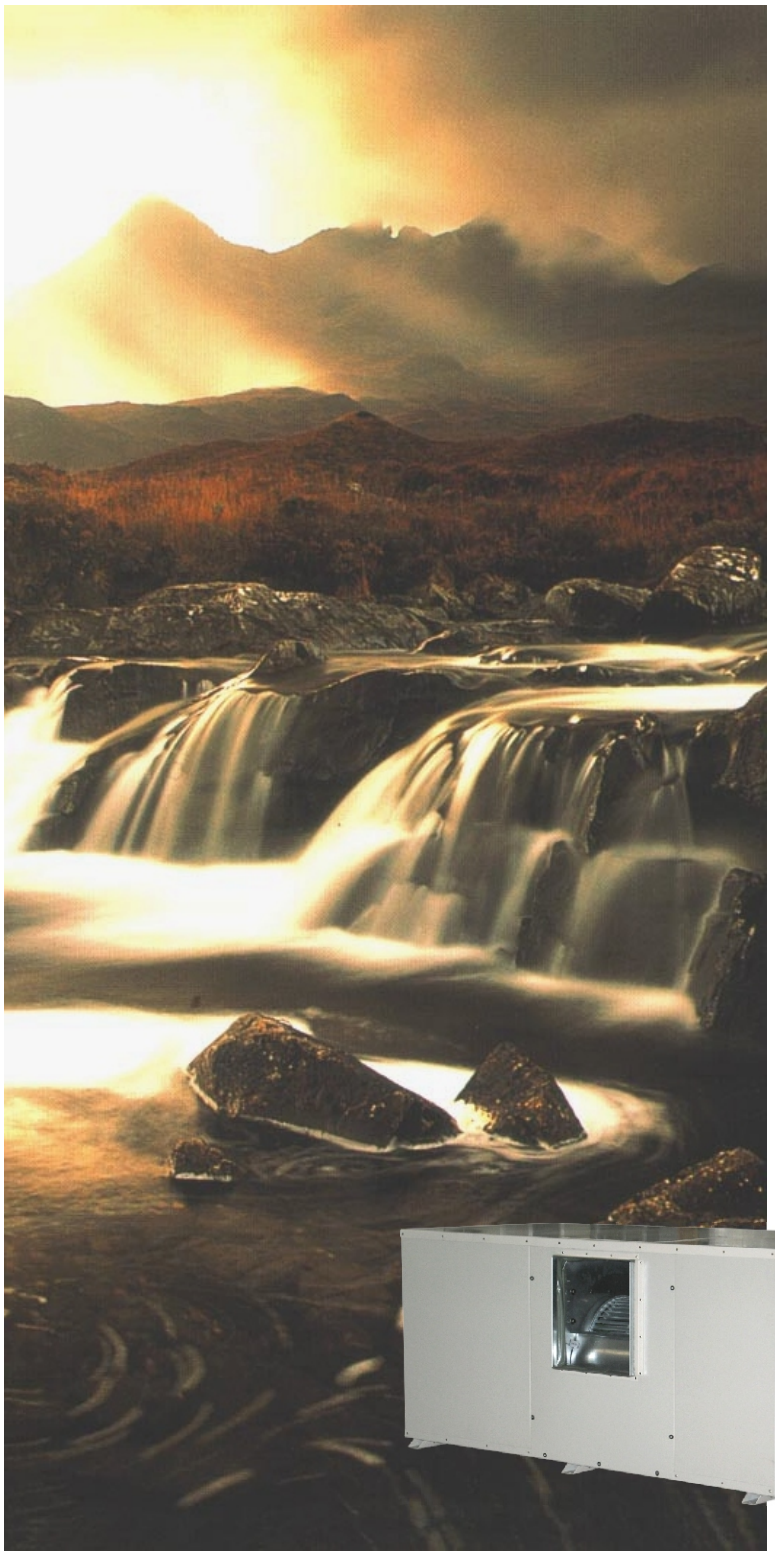
DUNHAM-BUSH®

FORM NO: MS0305F

*Products That Perform...By People Who Care*

# AIR - COOLED SPLIT SYSTEM

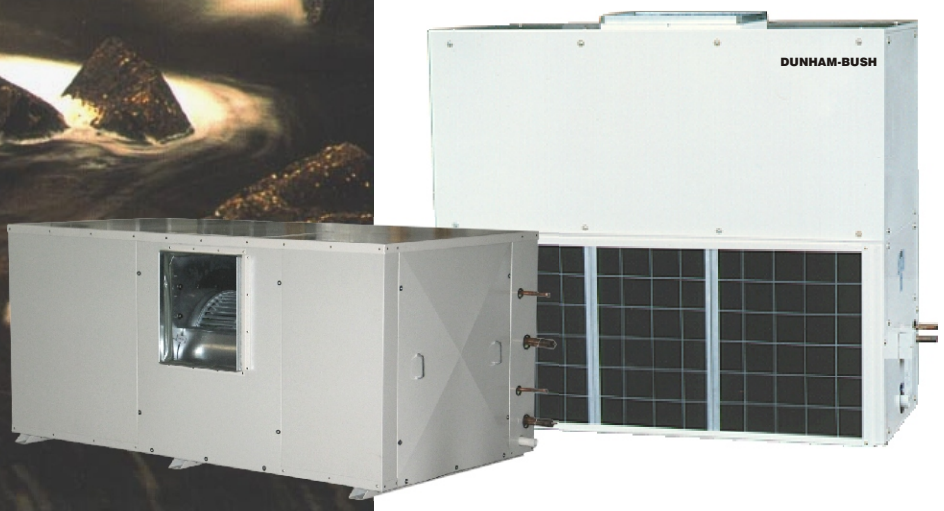
## AIR CONDITIONERS WITH SCROLL COMPRESSORS



## 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.

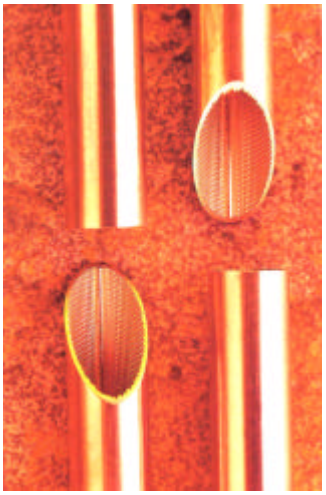
## Multiple Compressor

(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 provi ded 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 fibreglass 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 band 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.

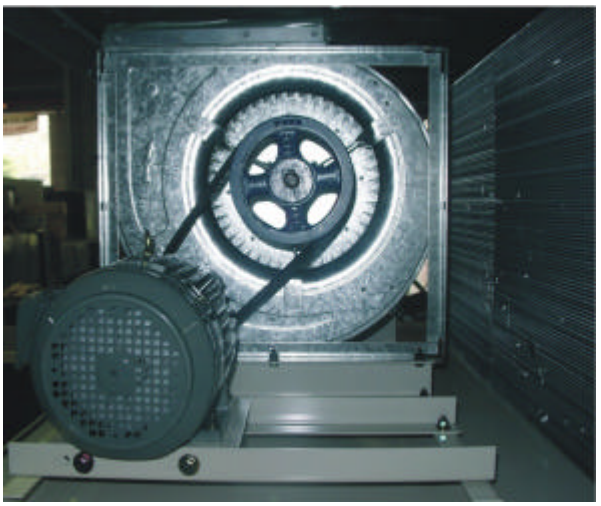
### Efficient Evaporator Coil

- 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 | 75 | | | 95 | | | 115 | | | 125 | | |
| | | | | TEMP. °F | 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** | | |
| **800** | | | | | | | | | | | 12x12 (Inches) |
| **900** | | | | | | | | | | | |
| **1000** | | | | | | | | | | | |
| **1100** | | | | | | | | | | | |
| **VEB/ HEB 125D** | | | | | | | | | | | |
| | **2900** | | **3200** | | **3500** | | **3800** | | **4100** | | |
| **800** | 0.63 | 1.16 | 0.59 | 1.33 | 0.51 | 1.53 | 0.40 | 1.75 | 0.28 | 1.98 | 12x12 (Inches) |
| **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** | | |
| **800** | 0.61 | 1.16 | 0.56 | 1.33 | 0.48 | 1.53 | 0.37 | 1.75 | 0.24 | 1.98 | 12x12 (Inches) |
| **900** | 0.87 | 1.40 | 0.84 | 1.61 | 0.79 | 1.82 | 0.72 | 2.06 | 0.62 | 2.32 | |
| **100** | 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** | | |
| **700** | 0.67 | 1.42 | 0.65 | 1.62 | 0.57 | 1.90 | 0.42 | 2.17 | 0.20 | 2.49 | 15x15 (Inches) |
| **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** | | |
| **700** | 0.66 | 1.52 | 0.61 | 1.76 | 0.49 | 2.03 | 0.31 | 2.33 | - | 2.65 | 15x15 (Inches) |
| **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** | | |
| **800** | 1.07 | 2.30 | 1.05 | 2.62 | 0.97 | 2.97 | 0.80 | 3.34 | 0.54 | 3.75 | 15x15 (Inches) |
| **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** | | |
| **800** | 0.88 | 3.14 | 0.64 | 3.52 | 0.36 | 3.96 | - | 4.41 | - | 4.86 | 15x15 (Inches) |
| **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** | | |
| **750** | 1.37 | 4.21 | 1.23 | 4.63 | 1.04 | 5.11 | 0.77 | 5.66 | 0.45 | 6.29 | 18x13 (Inches) |
| **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** | | |
| **750** | 1.21 | 4.63 | 1.02 | 5.11 | 0.74 | 5.66 | 0.42 | 6.29 | - | 6.91 | 18x13 (Inches) |
| **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** | | |
| **700** | 1.10 | 4.26 | 0.97 | 4.95 | 0.80 | 5.76 | 0.54 | 6.53 | 0.26 | 7.53 | 18x18 (Inches) |
| **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** | | |
| **700** | 1.09 | 5.58 | 0.97 | 6.35 | 0.82 | 7.12 | 0.67 | 7.98 | 0.47 | 8.86 | 450x450 (mm) |
| **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** | | |
| **600** | 0.86 | 5.26 | 0.79 | 5.89 | 0.68 | 6.51 | 0.57 | 7.20 | 0.45 | 7.93 | 500x500 (mm) |
| **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

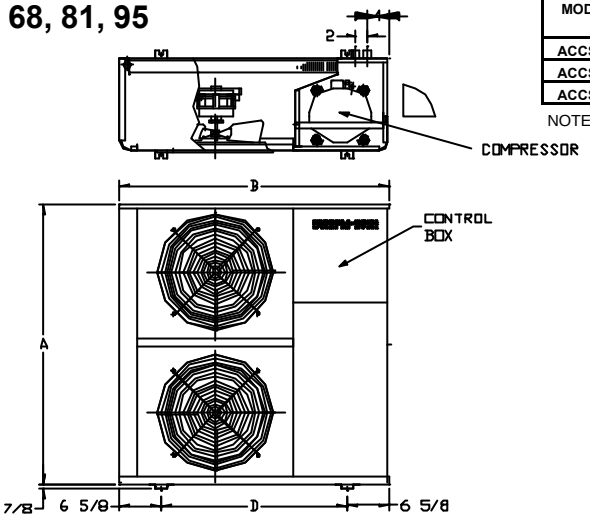
## Available External Static Pressure - IWG - For Accessories And Duct System Static Resistance (Allowance Made For Wet Coil And Filters)

| RPM | CFM | | | | | | | | | | FAN |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | SP | BHP | SP | BHP | SP | BHP | SP | BHP | SP | BHP | MODEL |
| **EB 510D** | | | | | | | | | | | |
| | **12400** | | **13200** | | **14000** | | **14800** | | **15600** | | |
| **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 | 500x500 |
| **800** | 1.88 | 10.64 | 1.79 | 11.61 | 1.69 | 12.59 | 1.59 | 13.75 | 1.47 | 14.86 | (mm) |
| **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** | | |
| **600** | 0.68 | 6.51 | 0.54 | 7.38 | 0.37 | 8.33 | 0.18 | 9.31 | - | 10.37 | 500x500 |
| **700** | 1.27 | 8.22 | 1.15 | 9.25 | 1.00 | 10.36 | 0.85 | 11.51 | 0.66 | 12.75 | (mm) |
| **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** | | |
| **600** | 1.22 | 8.49 | 1.13 | 9.42 | 1.01 | 10.34 | 0.90 | 11.29 | 0.79 | 12.38 | 560x560 |
| **650** | 1.56 | 9.71 | 1.48 | 10.64 | 1.38 | 11.67 | 1.28 | 12.75 | 1.17 | 13.89 | (mm) |
| **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** | | |
| **650** | 1.49 | 10.84 | 1.37 | 11.88 | 1.27 | 12.99 | 1.13 | 14.04 | 1.00 | 15.31 | 560x560 |
| **700** | 1.86 | 12.30 | 1.77 | 13.38 | 1.67 | 14.60 | 1.54 | 15.74 | 1.43 | 17.16 | (mm) |
| **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** | | |
| **650** | 1.33 | 11.67 | 1.22 | 12.75 | 1.10 | 13.89 | 0.95 | 15.12 | 0.80 | 16.31 | 560x560 |
| **700** | 1.71 | 13.14 | 1.60 | 14.31 | 1.50 | 15.47 | 1.36 | 16.84 | 1.22 | 18.22 | (mm) |
| **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** | | |
| **600** | 1.82 | 12.29 | 1.76 | 13.68 | 1.63 | 15.32 | 1.43 | 17.19 | 1.13 | 19.20 | 630x630 |
| **650** | 2.19 | 14.25 | 2.17 | 15.71 | 2.10 | 17.38 | 1.97 | 19.30 | 1.77 | 21.42 | (mm) |
| **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** | | |
| **600** | 1.67 | 14.66 | 1.49 | 16.39 | 1.23 | 18.36 | 0.87 | 20.52 | 0.43 | 22.88 | 630x630 |
| **650** | 2.11 | 16.69 | 2.00 | 18.44 | 1.82 | 20.60 | 1.57 | 22.91 | 1.19 | 25.31 | (mm) |
| **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** | | |
| **600** | 1.59 | 15.82 | 1.36 | 17.70 | 1.05 | 19.81 | 0.62 | 22.11 | 0.12 | 24.38 | 630x630 |
| **650** | 2.08 | 17.95 | 1.93 | 19.89 | 1.71 | 22.08 | 1.38 | 24.47 | 0.95 | 27.06 | (mm) |
| **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** | | |
| **550** | 1.87 | 17.70 | 1.80 | 19.30 | 1.71 | 21.10 | 1.55 | 22.99 | 1.34 | 25.10 | 710x710 |
| **600** | 2.32 | 20.53 | 2.28 | 22.24 | 2.23 | 24.09 | 2.14 | 26.19 | 2.01 | 28.32 | (mm) |
| **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** | | |
| **500** | 1.34 | 15.58 | 1.19 | 17.29 | 0.98 | 19.14 | 0.69 | 21.08 | 0.35 | 23.22 | 710x710 |
| **550** | 1.81 | 18.15 | 1.72 | 19.92 | 1.59 | 21.82 | 1.40 | 23.89 | 1.14 | 26.19 | (mm) |
| **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** | | |
| **450** | 1.73 | 20.50 | 1.65 | 22.74 | 1.52 | 24.97 | 1.34 | 27.50 | 1.12 | 22.98 | 800x800 |
| **500** | 2.24 | 24.52 | 2.21 | 26.89 | 2.14 | 29.39 | 2.04 | 32.08 | 1.90 | 34.83 | (mm) |
| **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** | | |
| **450** | 1.42 | 26.08 | 1.28 | 28.16 | 1.09 | 22.98 | 0.88 | 32.29 | 0.63 | 34.64 | 800x800 |
| **500** | 2.08 | 30.76 | 1.99 | 32.82 | 1.87 | 34.83 | 1.68 | 37.27 | 1.54 | 39.57 | (mm) |
| **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

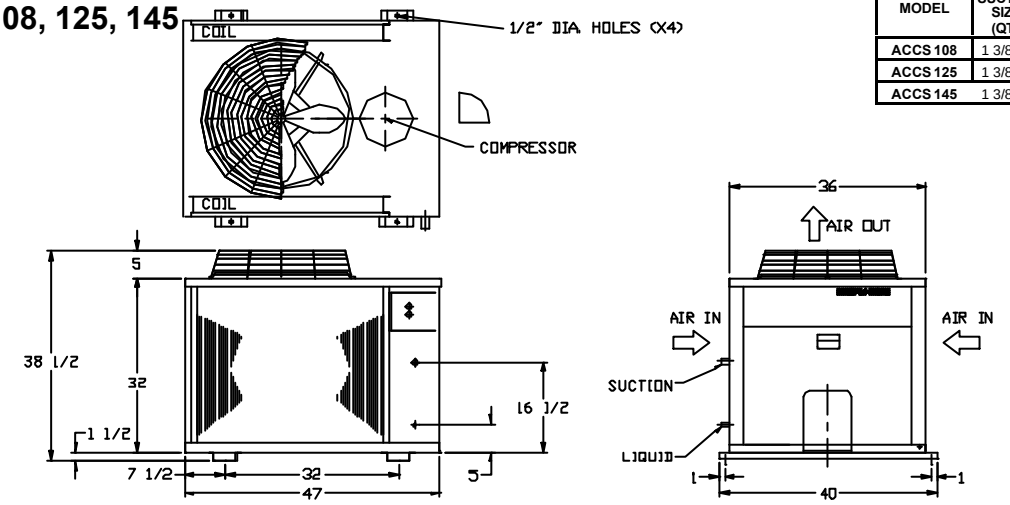
### ACCS 68, 81, 95




| 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) |

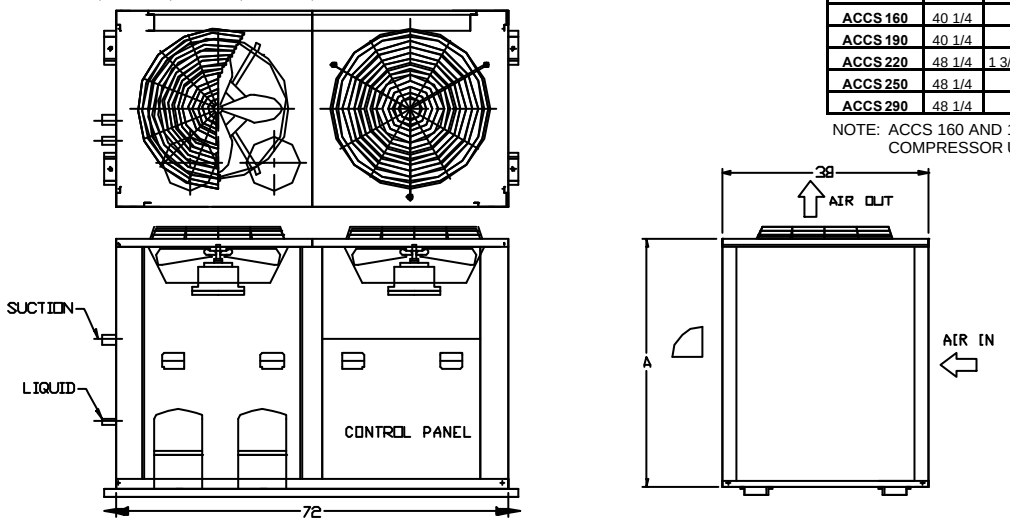
NOTE: ACCS 68 IS WITH SERVICE VALVE.

### 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.

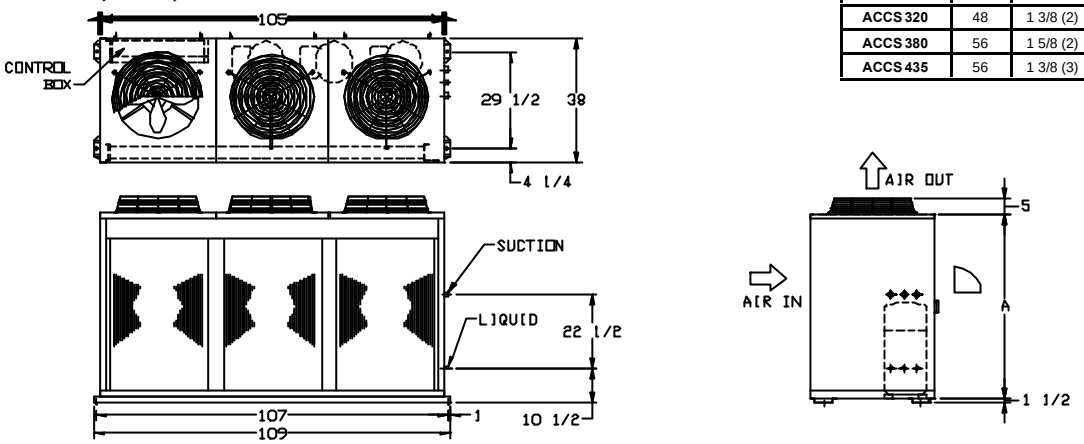
NOTE : ALL DIMENSIONS ARE IN INCHES.

# DIMENSIONAL DATA

## Air Cooled Condensing Units

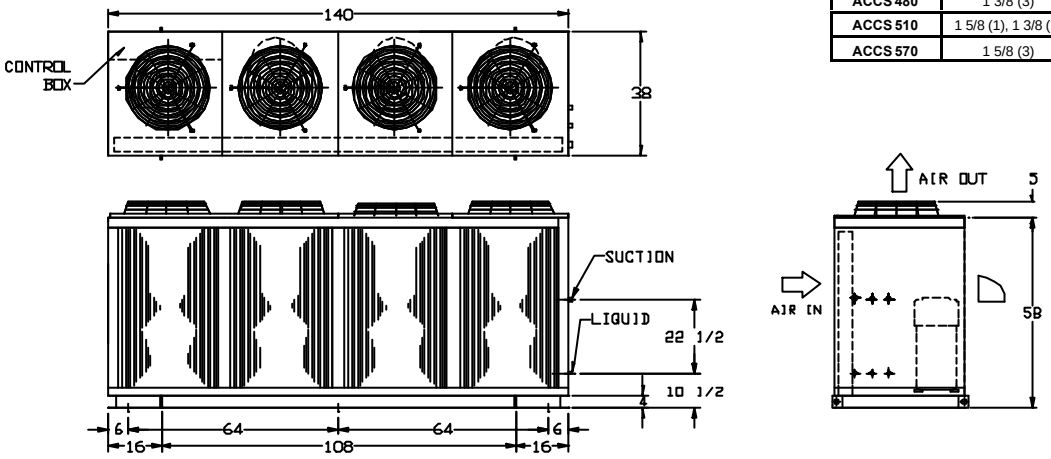
### ACCS 320, 380, 435

| 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) |



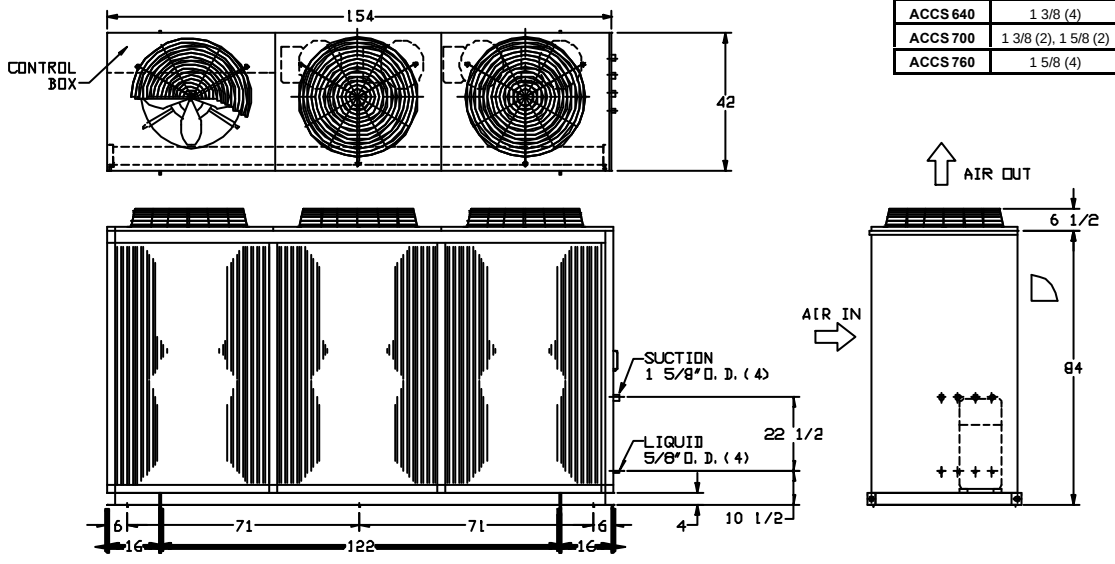

### ACCS 480, 510, 570

| 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) |



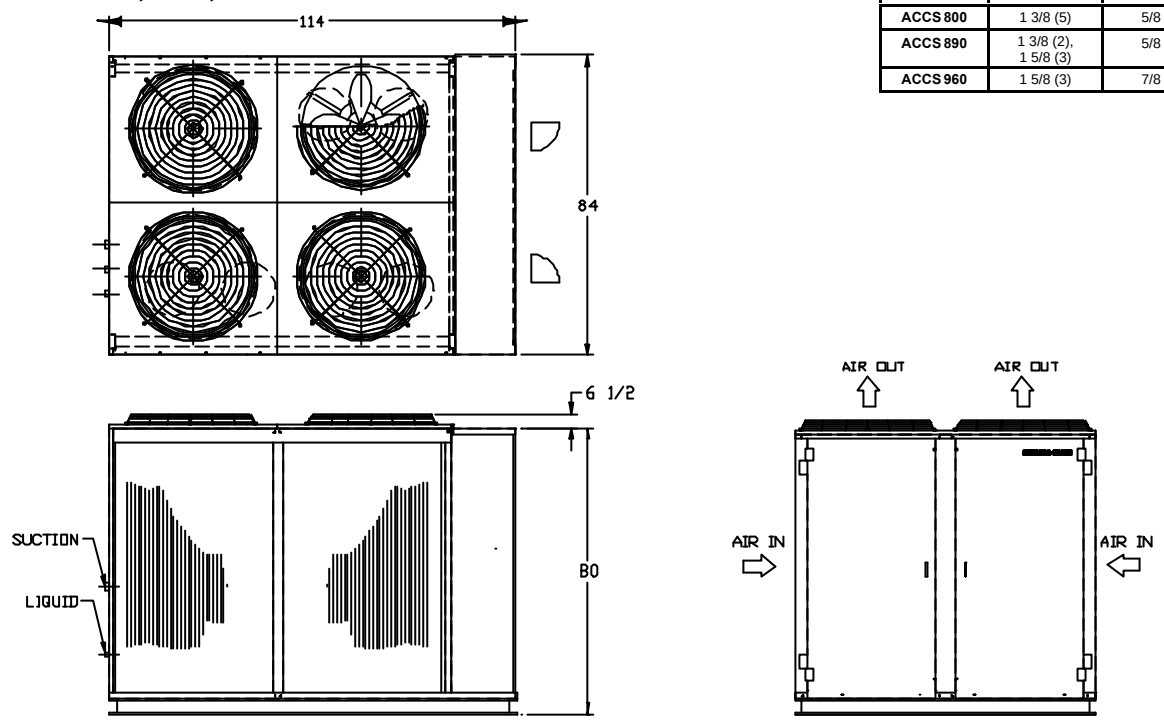

NOTE : ALL DIMENSIONS ARE IN INCHES.

# DIMENSIONAL DATA

## Air Cooled Condensing Units

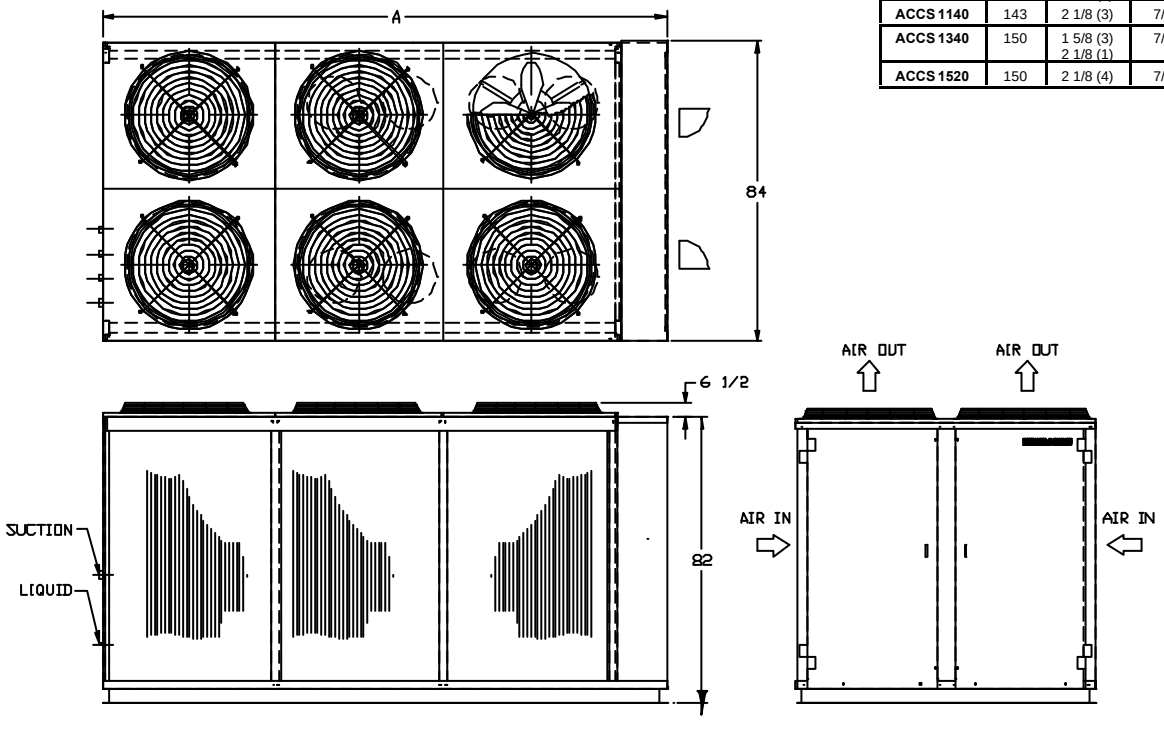
### ACCS 800, 890, 960

| MODEL | SUCTION SIZE (QTY) | LIQUID SIZE (QTY) |
|---|---|---|
| ACCS 800 | 1 3/8 (5) | 5/8 (5) |
| ACCS 890 | 1 3/8 (2), 1 5/8 (3) | 5/8 (5) |
| ACCS 960 | 1 5/8 (3) | 7/8 (3) |




### ACCS 1020, 1140, 1340, 1520

| MODEL | A | SUCTION SIZE (QTY) | LIQUID SIZE (QTY) |
|---|---|---|---|
| ACCS 1020 | 143 | 1 5/8 (2) 2 1/8 (1) | 7/8 (3) |
| ACCS 1140 | 143 | 2 1/8 (3) | 7/8 (3) |
| ACCS 1340 | 150 | 1 5/8 (3) 2 1/8 (1) | 7/8 (4) |
| ACCS 1520 | 150 | 2 1/8 (4) | 7/8 (4) |

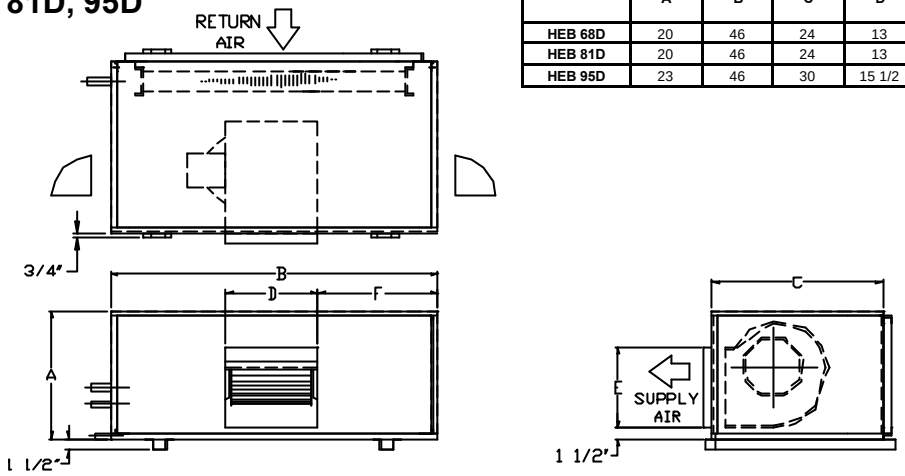



NOTE: ALL DIMENSIONS ARE IN INCHES.

# DIMENSIONAL DATA

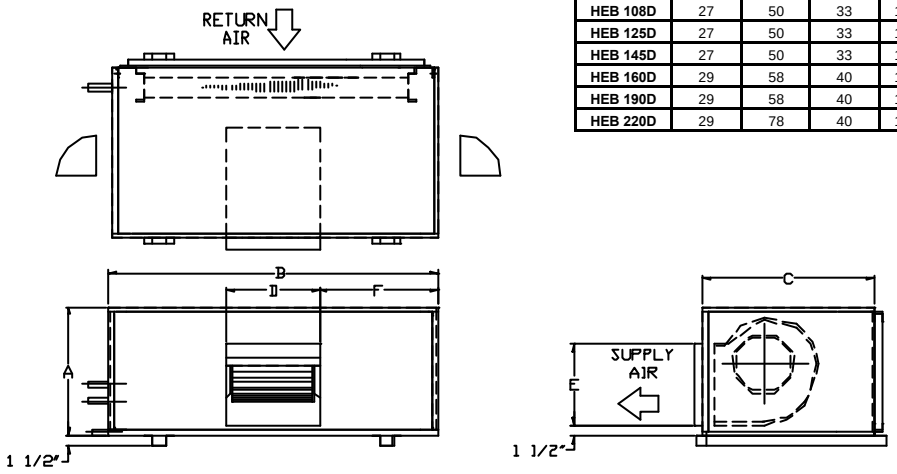
## Evaporator Units

### HEB 68D, 81D, 95D



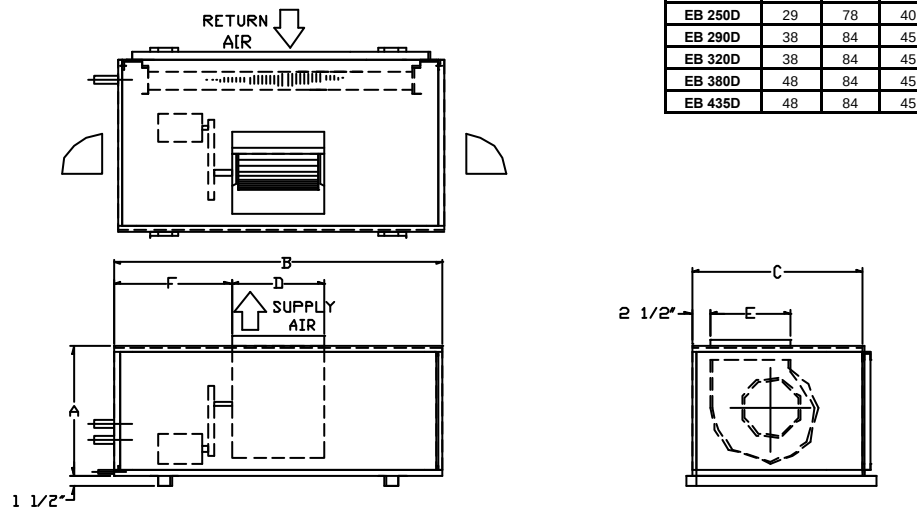

| MODEL | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| HEB 68D | 20 | 46 | 24 | 13 | 11 3/8 | 16 1/2 |
| HEB 81D | 20 | 46 | 24 | 13 | 11 3/8 | 16 1/2 |
| HEB 95D | 23 | 46 | 30 | 15 1/2 | 13 1/2 | 15 1/4 |

### 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



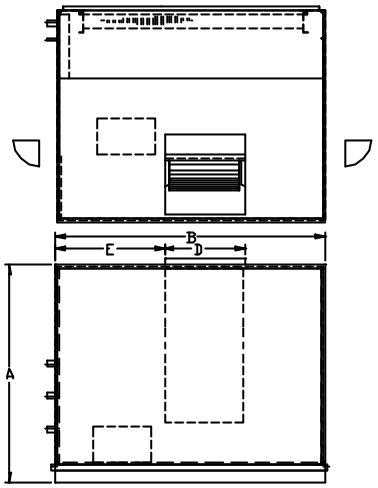

| MODEL | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| EB 250D | 29 | 78 | 40 | 18 1/2 | 16 | 30 |
| EB 290D | 38 | 84 | 45 | 17 | 19 | 33 1/2 |
| EB 320D | 38 | 84 | 45 | 17 | 19 | 33 1/2 |
| EB 380D | 48 | 84 | 45 | 22 | 19 | 37 |
| EB 435D | 48 | 84 | 45 | 22 1/2 | 22 1/2 | 37 |

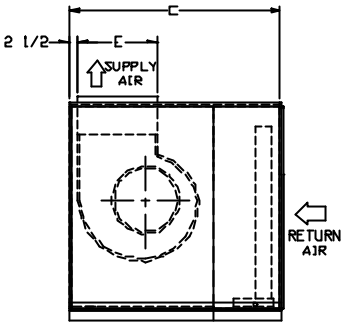
NOTES. : 1.) ALL DIMENSIONS ARE IN INCHES.
2.) UNITS SHOWN ARE RIGHT HAND PIPING CONNECTION.

# DIMENSIONAL DATA

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

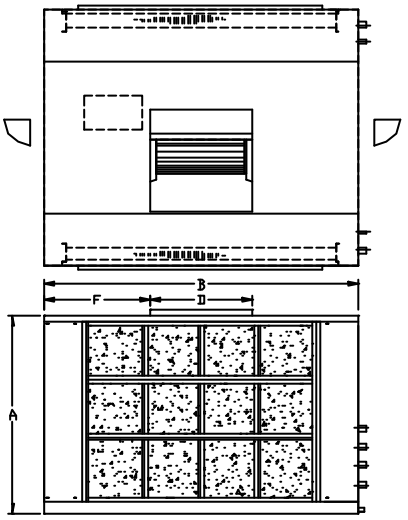
| MODEL | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| EB 480D | 68 | 84 | 66 | 25 | 25 | 34 |
| EB 510D | 68 | 84 | 66 | 25 | 25 | 34 |
| EB 570D | 68 | 84 | 66 | 25 | 25 | 34 |
| EB 640D | 78 | 84 | 66 | 28 | 28 | 34 |
| EB 700D | 78 | 84 | 66 | 28 | 28 | 34 |
| EB 760D | 78 | 84 | 66 |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

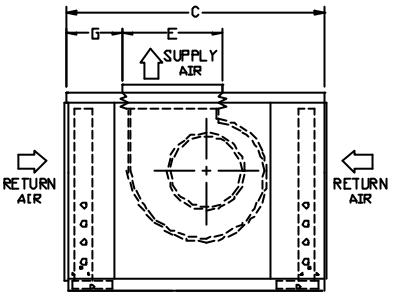



## EB 800D, 890D, 960D, 1020D, 1140D, 1340D, 1520D

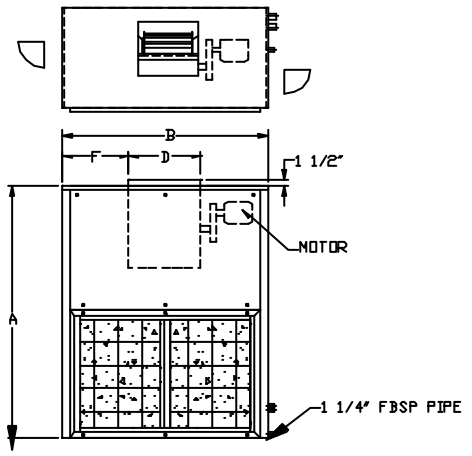
| MODEL | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| EB 800D | 62 | 98 | 80 | 31 1/2 | 31 1/2 | 39 | 17 |
| EB 890D | 62 | 98 | 80 | 31 1/2 | 31 1/2 | 39 | 17 |
| EB 960D | 62 | 98 | 80 | 31 1/2 | 31 1/2 | 39 | 17 |
| EB 1020D | 62 | 98 | 80 | 35 1/2 | 35 1/2 | 39 | 14 |
| EB 1140D | 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 |

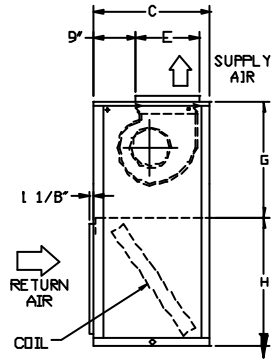



## VEB 108D, 125D, 145D, 160D, 190D, 220D, 250D

| 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

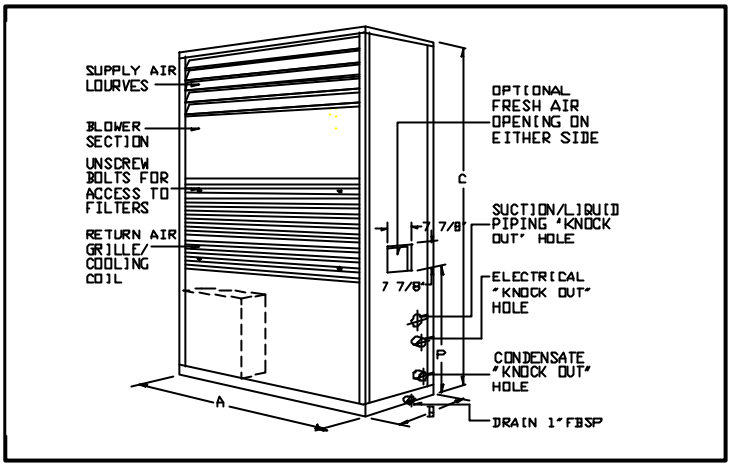
### VEB 68D-FB, 81D-FB, 95D-FB, 108D-FB, 125D-FB, 145D-FB, 160D-FB, 190D-FB, 220D-FB

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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. | (LBS) |
| 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 COIL | | FILTERS | | APPROX. OPERATING | SUCTION CONNECTION | | LIQUID CONNECTION | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BLOWER | | MTR. | | | FAN CFM | | | | | | | | | |
| | QTY. | DIA. x WIDTH | MAX HP | FLA EACH | LRA EACH | MIN-MAX CFM | ROWS DEEP | FACE AREA (SQ.FT) | QTY. | SIZE (INCH.) | WEIGHT LBS | QTY | SIZE | QTY | SIZE |
| **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<br>1 | 20x25x1<br>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<br>1 | 20x25x1<br>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<br>1 | 20x25x1<br>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<br>2 | 20x25x1<br>25x25x1 | 500 | 1<br>1 | 1 1/8<br>1 3/8 | 2 | 1/2 |
| **VEB/EB 250D** | 1 | 15x15 (inch.) | 10.0 | 14.9 | 109 | 3900 - 7790 | 3 | 13.0 | 1<br>2 | 20x25x1<br>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<br>3 | 16x25x1<br>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<br>3 | 16x25x1<br>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<br>3 | 20x25x1<br>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<br>3 | 20x25x1<br>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<br>1 | 1 3/8<br>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<br>6 | 20x25x1<br>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<br>6 | 20x25x1<br>25x25x1 | 1860 | 2<br>2 | 1 3/8<br>1 5/8 | 4 | 5/8 |
| **EB 760D** | 1 | 560x560 (mm.) | 30.0 | 41.2 | 289 | 10500 - 21000 | 4 | 35.0 | 3<br>6 | 20x25x1<br>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<br>4<br>4<br>4 | 16x20x1<br>16x25x1<br>20x25x1<br>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<br>8 | 16x25x1<br>25x25x1 | 2180 | 3<br>2 | 1 5/8<br>1 3/8 | 5 | 5/8 |
| **EB 960D** | 1 | 630x630 (mm.) | 40.0 | 55.6 | 395 | 16250 - 32500 | 3 | 54.2 | 8<br>8 | 16x25x1<br>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<br>8 | 16x25x1<br>25x25x1 | 2340 | 2<br>1 | 1 5/8<br>2 1/8 | 3 | 7/8 |
| **EB 1140D** | 1 | 710x710 (mm.) | 40.0 | 55.6 | 395 | 16250 - 32500 | 4 | 54.2 | 8<br>8 | 16x25x1<br>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<br>1 | 1 5/8<br>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 |

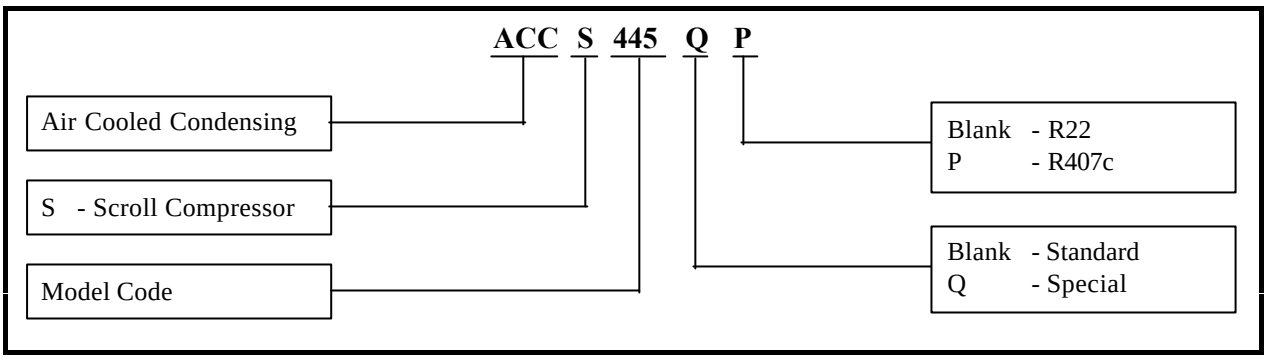
Note: Power supply for HEB 68D to 95D is 230-1-50hz.

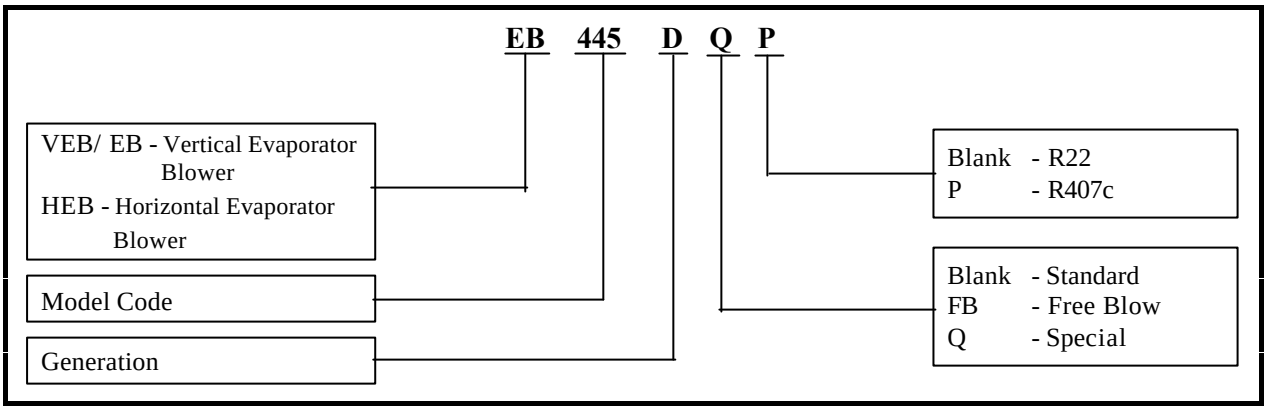
## Evaporator Free Blower Units

| MODEL | BLOWER SECTION | | | | EVAPORATOR COIL | | FILTERS | | SUCTION CONNECTION | | LIQUID CONNECTION | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BLOWER | | MTR. | FAN CFM | | | | | | | | |
| | QTY. | DIA. X WIDTH (INCH) | HP | CFM | ROWS DEEP | NOM FACE AREA (SQ.FT) | QTY. | SIZE (INCH.) | QTY | SIZE | QTY | SIZE |
| **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<br>1 | 11/8<br>1 3/8 | 2 | 1/2 |

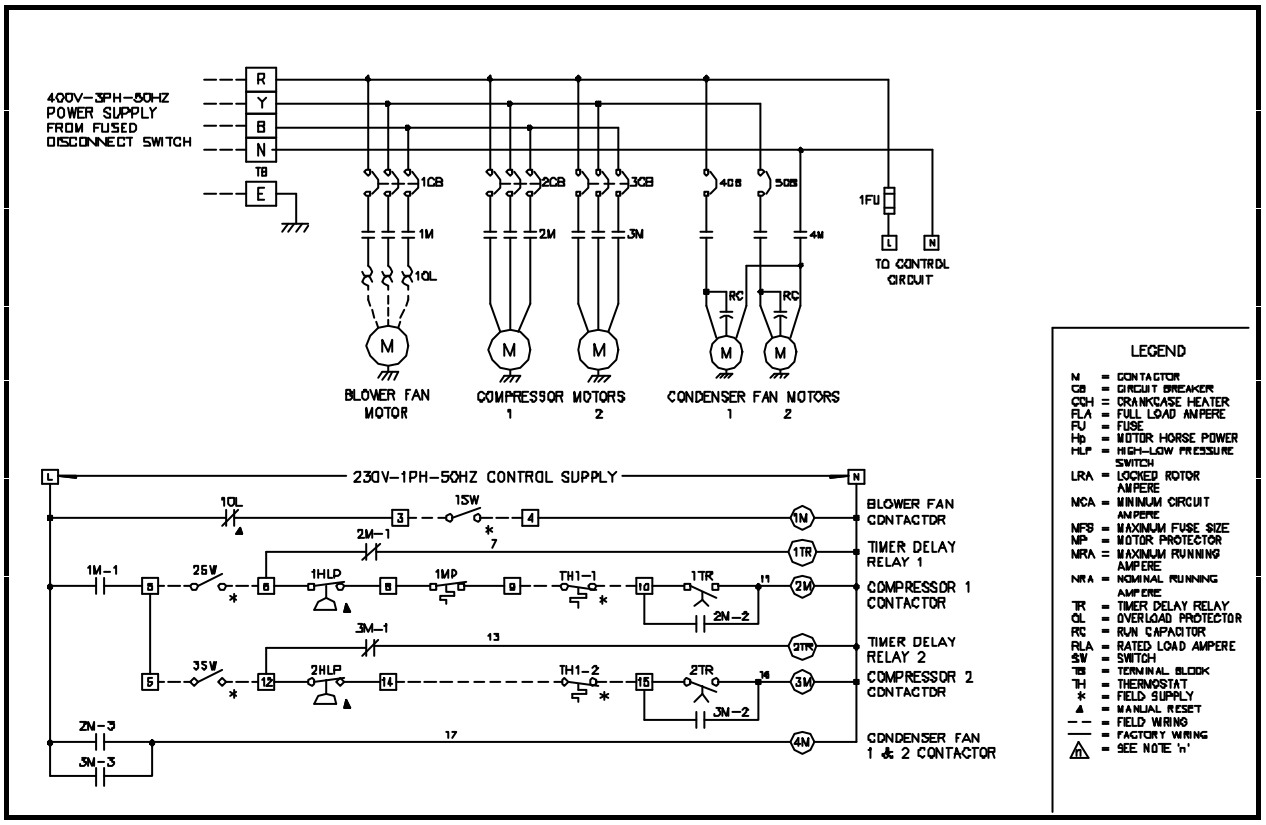
Note: Power supply for VEB 68D-FB to 95D-FB is 230-1-50hz.

# 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.**

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