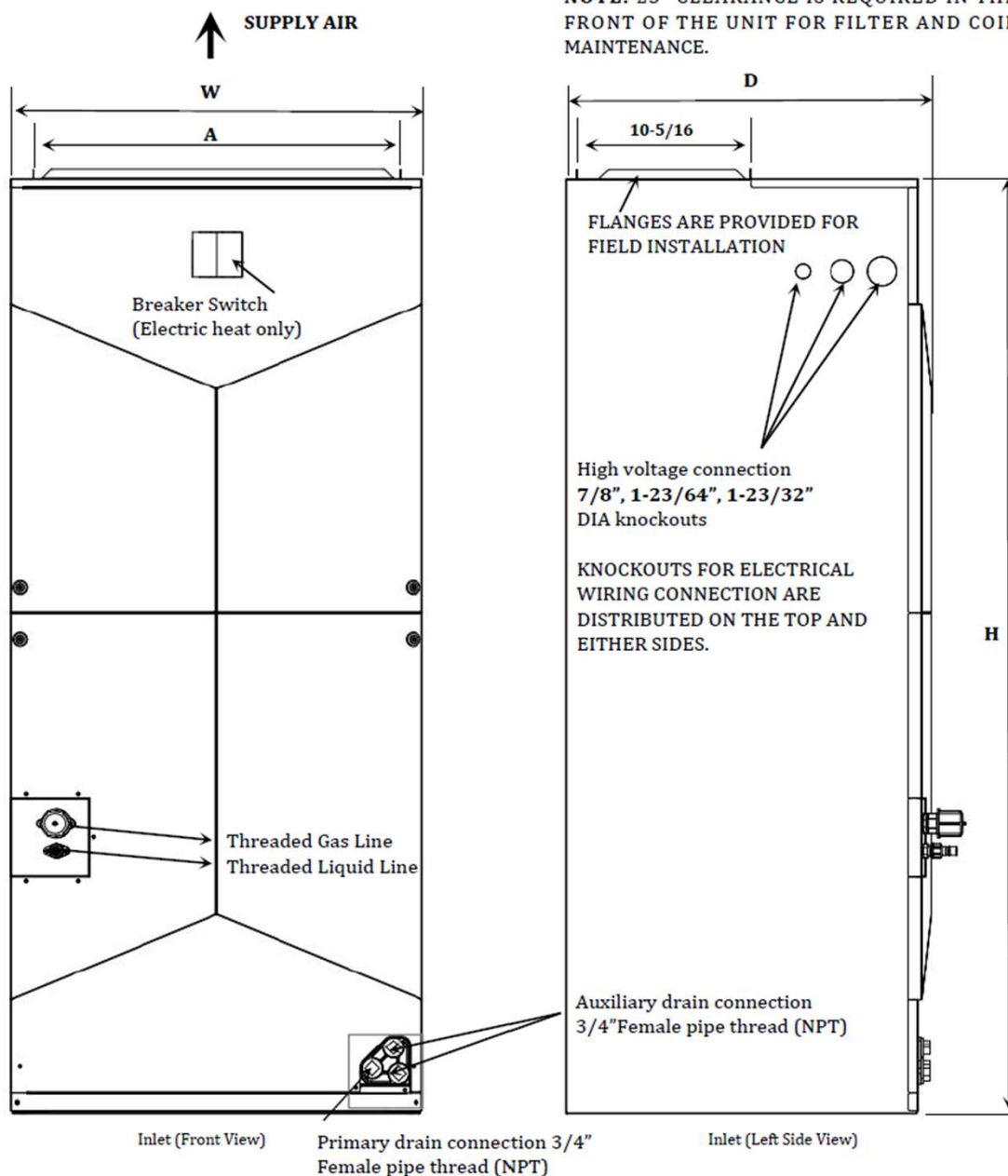




Multi-position Air Handler EAHDEN-36ABA

TAG:

SUBMITTAL



| Model | Dimensions (in.) | | | | | |
|---------|------------------|----------|----|--------|------------------------|---------------------|
| | H | W | D | A | Liquid Line Connection | Gas Line Connection |
| 24 / 36 | 47-1/2 | 21 | 22 | 19-1/4 | 3/8 | 3/4 |
| 48 / 60 | 56-1/2 | 24-11/16 | 22 | 22-3/4 | 3/8 | 7/8 |

Product Specifications

| | |
|------------------------------------|---|
| MODEL | EAHDEN-36ABA |
| Voltage-Phase-Hz | Standard 208/230-1-60, optional 115V-1-60 |
| Minimum Circuit Amps. ¹ | 5.4A |
| Minimum Circuit Amps. ² | 8.0A |
| INDOOR COIL TYPE | Copper Tube With Hydrophilic Aluminum Fins |
| Rows | 4 |
| Tube Size | 9/32 |
| Refrigerant Control | EEV |
| Drain Connection Size (in.) | 3/4 NPT |
| Duct Connections | See Outline Drawing |
| INDOOR FAN TYPE | Centrifugal |
| Blower Diameter-Width (in.) | 9-4/5" |
| Fan Motor Type | ECM |
| CFM vs. in. W.G | See Fan Performance Table |
| Fan Motor HP | 1/2 |
| FLA ¹ | 4.3A |
| FLA ² | 6.4A |
| Filter Size (in.) | 20*18 |
| Filter Equipped From Factory | NO |
| Refrigerant | R-454B ³ |
| Ref. Pipe Connections | Brazed or ZoomLock |
| Liquid Pipe Size (in. O.D.) | 3/8 |
| Gas Pipe Size (in. O.D.) | 3/4 |
| Dimensions (inch) (W X H X D) | 21"x47-1/2"x23-3/10" |
| Net Weight (LBS) | 141 |
| Shipping Weight (LBS) | 172 |

REMARKS:

1. Reference data when the power supply is standard 208/230V1-60.
2. Reference data when the power supply is standard 115V-1-60.
3. Compatible with R410A refrigerants.

Electric Heat Data

| Heater Kit Model | Nominal Power | Power | | HEATER AMPS | | MIN.CIRCUIT AMPS | | MAX. FUSE OR BREAKER (HACR) AMPS | |
|---------------------|------------------|---------|---------|-------------|-----------|------------------|-------|-------------------------------------|-------|
| | 240 | 230 | 208 | 230 | 208 | 230 | 208 | 230 | 208 |
| EHK05B | 5 | 4.6 | 3.8 | 20 | 18.1 | 25 | 23 | 30 | 25 |
| EHK08B | 7.5 | 6.9 | 5.6 | 30 | 27.1 | 38 | 34 | 40 | 35 |
| EHK10B | 10 | 9.2 | 7.5 | 40 | 36.2 | 50 | 46 | 60 | 50 |
| EHK15B | 10+5 | 9.3+4.6 | 7.5+3.8 | 40+20 | 36.2+18.1 | 50+25 | 46+23 | 46+30 | 50+25 |
| EHK20B | 10+10 | 9.2+9.2 | 7.5+7.5 | 40+40 | 36.2+36.2 | 50+50 | 46+46 | 60+60 | 50+50 |

Product Specifications (Continued)

| FAN SPEED | Sound pressure level (dB) |
|-------------|------------------------------|
| High | 63 |
| Medium High | 61 |
| Low | 58 |

Mechanical Specifications

Airflow Performance

Airflow performance data is based on cooling performance with a coil and no filter in place. Check the Performance table for appropriate unit size selection. External static pressure should stay within the minimum and maximum limits shown in the table below in order to ensure proper airflow.

| Airflow motor speed mode setting (SW1-1) | | | | | Variable airflow mode (Default) | | | 2-stage airflow mode | | | |
|--|-----------------|--------------------|-------|-------|---------------------------------|---------|-------------------|----------------------|-------------------|---------------------------------------|---------|
| Model | Airflow setting | Airflow Dip-Switch | | | Max Airflow (CFM) | / (CFM) | Min Airflow (CFM) | High Airflow (CFM) | Low Airflow (CFM) | Max available Static Pressure (in wc) | Remark |
| | | SW2-1 | SW2-2 | SW2-3 | W1/W2* | G* | / | Y2/W1/W2** | Y1/G** | | |
| 24K | Airflow 1 | 1 | 0 | 0 | 700 | 574 | 400 | 700 | 574 | 1.2 | |
| | Airflow 2 | 1 | 0 | 1 | 760 | 623 | 400 | 760 | 623 | 1.2 | |
| | Airflow 3 | 1 | 1 | 0 | 830 | 681 | 400 | 830 | 681 | 1.2 | Default |
| | Airflow 4 | 1 | 1 | 1 | 880 | 722 | 400 | 880 | 722 | 1.2 | |
| 36K | Airflow 1 | 0 | 0 | 0 | 1050 | 735 | 420 | 1050 | 735 | 1.2 | |
| | Airflow 2 | 0 | 0 | 1 | 1120 | 784 | 448 | 1120 | 784 | 1.2 | |
| | Airflow 3 | 0 | 1 | 0 | 1200 | 840 | 480 | 1200 | 840 | 1.2 | Default |
| | Airflow 4 | 0 | 1 | 1 | 1250 | 875 | 500 | 1250 | 875 | 1.2 | |
| 48K | Airflow 1 | 1 | 0 | 0 | 1450 | 1015 | 600 | 1450 | 1015 | 1.2 | |
| | Airflow 2 | 1 | 0 | 1 | 1500 | 1050 | 600 | 1500 | 1050 | 1.2 | |
| | Airflow 3 | 1 | 1 | 0 | 1550 | 1085 | 620 | 1550 | 1085 | 1.2 | Default |
| | Airflow 4 | 1 | 1 | 1 | 1600 | 1120 | 640 | 1600 | 1120 | 1.2 | |
| 60K | Airflow 1 | 0 | 0 | 0 | 1650 | 1155 | 660 | 1650 | 1155 | 1.2 | |
| | Airflow 2 | 0 | 0 | 1 | 1700 | 1190 | 680 | 1700 | 1190 | 1.2 | |
| | Airflow 3 | 0 | 1 | 0 | 1750 | 1225 | 700 | 1750 | 1225 | 1.2 | Default |
| | Airflow 4 | 0 | 1 | 1 | 1800 | 1260 | 720 | 1800 | 1260 | 1.2 | |

*In Variable airflow mode, when the heat pump is operational, the airflow will adjust automatically. When the auxiliary heat (W1/W2) is activated, the system will run at maximum airflow. However, when only the blower is operating (G), the airflow will remain constant.

**In 2-stage airflow mode, the airflow will adjust according to the settings of the stages.

Notes: The airflow performance is based upon cooling performance at 230V with no electric heater and no filter. In 115V, 208V, 230V has the same airflow performance, because it has a constant airflow motor, which maintains its constant airflow output within the range of use, of course, when the maximum load of the motor may decline.

The air distribution system has the greatest effect on airflow. For this reason, the contractor should use only industry-recognized procedures to finish ductwork.

Heat pump systems require a specified airflow. Each ton of cooling requires between 300 and 450 cubic feet per minute (CFM). Duct design and construction should be carefully done. System performance can be lowered dramatically through bad planning or workmanship. Air supply diffusers must be selected and located carefully. They must be sized and positioned to deliver treated air along the perimeter of the space. Return air grilles must be properly sized to carry air back to the blower as well. Failure to follow these may cause abnormal noise and drafts.

The installers should balance the air distribution system to ensure proper quiet airflow to all rooms in the home. This ensures a comfortable living space.

