

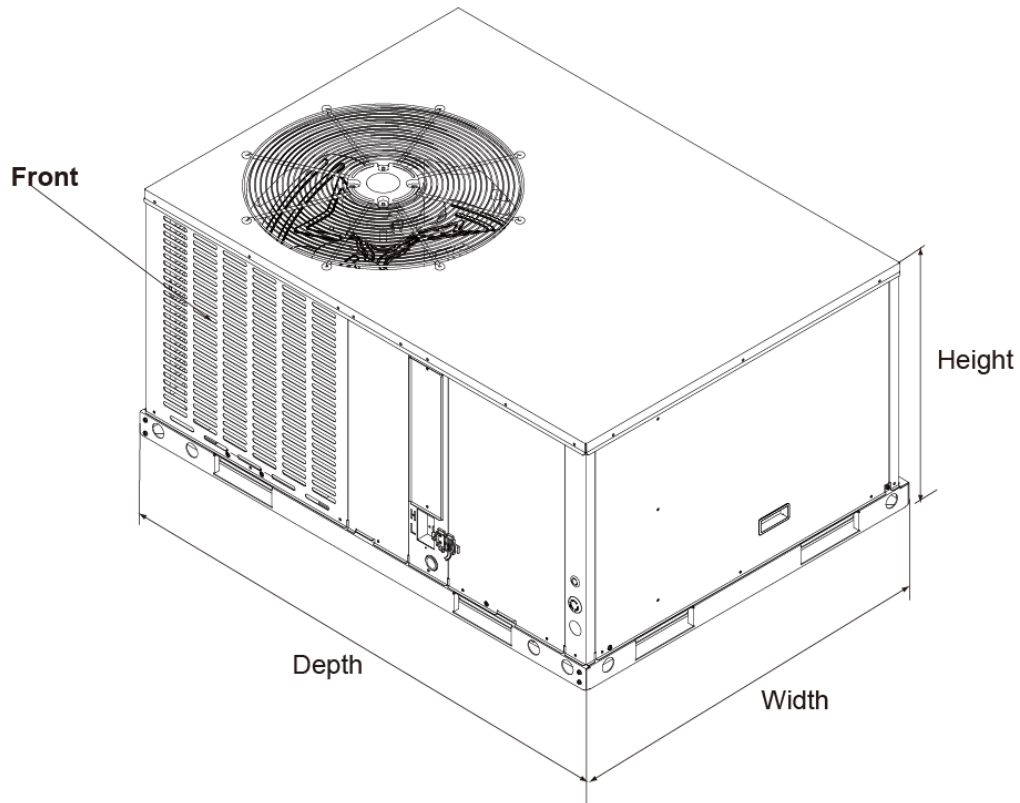
Submittal

TAG:

Condensing Unit

Up to 13.4 SEER2

Cooling capacity: 24 – 60 kBTU/h



| APH3024E100A | |
|----------------------------|----------|
| UNIT DIMENSION AND WEIGHTS | |
| Height (in.) | 24-13/16 |
| Width (in.) | 52 |
| Depth (in.) | 37-1/4 |
| Net Weight (lbs.) | 326 |

Specifications

| | APH3024E100A |
|---------------------------------|--------------|
| NOMINAL CAPACITY | |
| Cooling (BTU/h) | 24,000 |
| Heating (BTU/h) | / |
| ELECTRICAL DATA | |
| Voltage / Phase (60 Hz) | 208/230 / 1 |
| Min. / Max. Voltage | 187/253 |
| MCA | 15 |
| MOP | 20 |
| COMPRESSOR | |
| Type | Rotary |
| Stage | Single |
| RLA | 9.2 |
| LRA | 43.0 |
| OUTDOOR COIL | |
| Type | Tube & Fin |
| Tube Size(O.D) | 9/32 |
| OUTDOOR FAN MOTOR | |
| Motor Type | ECM |
| Capacitor(uF) | / |
| Horsepower (HP) | 1/4 |
| Full Load Amps (FLA) | 1.0 |
| Rated RPM | 800 |
| INDOOR COIL | |
| Type | Tube & Fin |
| Tube Size(O.D) | 9/32 |
| INDOOR BLOWER MOTOR | |
| Motor Type | PSC |
| Capacitor(uF) | 12 |
| Horsepower (HP) | 1/4 |
| Full Load Amps (FLA) | 2.5 |
| Rated RPM | 1050 |
| REFRIGERATION SYSTEM | |
| Refrigerant Control | Orifice |
| Refrigerant Charge (lbs. - oz.) | 5-13 |
| OPERATION RANGE | |
| Cooling(°F) | 55-115 |
| Heating(°F) | 5-86 |
| SOUND POWER (DB) | 80 |

Airflow Data

Duct Application (208V)

| Model Number | Motor Speed | | SCFM | | | | | | | | |
|--------------|-------------------------|-------|---|----------|----------|----------|----------|----------|----------|----------|----------|
| | | | External Static Pressure-Inches W.C.[kPa] | | | | | | | | |
| | | | 0[0] | 0.1[.02] | 0.2[.05] | 0.3[.07] | 0.4[.10] | 0.5[.12] | 0.6[.15] | 0.7[.17] | 0.8[.20] |
| 24 | Low-Tap(1) | SCFM | 787 | 744 | 691 | 643 | / | / | / | / | / |
| | | Watts | 187 | 185 | 182 | 152 | / | / | / | / | / |
| | | Amps | 0.98 | 0.77 | 0.75 | 0.73 | / | / | / | / | / |
| | Mid-Tap(2) (Factory) | SCFM | / | / | / | 882 | 828 | 751 | 698 | / | / |
| | | Watts | / | / | / | 269 | 262 | 253 | 246 | / | / |
| | | Amps | / | / | / | 1.37 | 1.34 | 1.31 | 1.27 | / | / |
| | High-Tap(3) | SCFM | / | / | / | / | / | 964 | 896 | 759 | 621 |
| | | Watts | / | / | / | / | / | 360 | 330 | 307 | 276 |
| | | Amps | / | / | / | / | / | 1.78 | 1.71 | 1.64 | 1.57 |

Duct Application (230V)

| Model Number | Motor Speed | | SCFM | | | | | | | | |
|--------------|-------------------------|-------|---|----------|----------|----------|----------|----------|----------|----------|----------|
| | | | External Static Pressure-Inches W.C.[kPa] | | | | | | | | |
| | | | 0[0] | 0.1[.02] | 0.2[.05] | 0.3[.07] | 0.4[.10] | 0.5[.12] | 0.6[.15] | 0.7[.17] | 0.8[.20] |
| 24 | Low-Tap(1) | SCFM | 885 | 841 | 795 | 743 | / | / | / | / | / |
| | | Watts | 227 | 224 | 221 | 216 | / | / | / | / | / |
| | | Amps | 2.07 | 2.07 | 2.06 | 2.05 | / | / | / | / | / |
| | Mid-Tap(2) (Factory) | SCFM | / | / | / | 988 | 957 | 882 | 767 | / | / |
| | | Watts | / | / | / | 339 | 323 | 307 | 291 | / | / |
| | | Amps | / | / | / | 2.31 | 2.28 | 2.26 | 2.24 | / | / |
| | High-Tap(3) | SCFM | / | / | / | / | / | 996 | 967 | 928 | 896 |
| | | Watts | / | / | / | / | / | 412 | 392 | 379 | 361 |
| | | Amps | / | / | / | / | / | 2.65 | 2.57 | 2.52 | 2.46 |

The above airflow data for reference only.

* In any situation, the airflow of the unit should be in the range of 80% to 130% of 400CFM/Ton.

- The air distribution system has the greatest effect on airflow. The duct system is totally controlled by the contractor. For this reason, the contractor should use only industry-recognized procedures.
- Heat pump systems require a specified airflow. Each ton of cooling requires between 300 and 450 cubic feet of air per minute (CFM), or 400 CFM nominally.
- Duct design and construction should be carefully done. System performance can be lowered dramatically due to poor duct design.
- 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. If they are too small for their intended airflow, they become noisy. If they are not located properly, they cause drafts. Return air grilles must be properly sized to carry air back to the blower. If they are too small, they also cause noise.
- 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.
- An air velocity meter or airflow hood can give a reading of system CFM.
- During installation, installer should select the air speed according to the actual setting static pressure.

Electric Heat Pressure Drop Tables (IN.W.C)

Small Cabinet: 24K, 30K, 36K

| STATIC | STANDARD CFM (SCFM) | | | | | |
|--------|---------------------|------|------|------|------|------|
| | 900 | 1000 | 1100 | 1200 | 1300 | 1400 |
| 5kW | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 |
| 7.5kW | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 |
| 10kW | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 |
| 15kW | / | / | 0.1 | 0.1 | 0.1 | 0.1 |

Electric Heat Kit Data

| Capacity KBTU | Heater Circuit (without units) | | | | | |
|------------------|--------------------------------|---------|--------|-----------|-------|-----------------------|
| | Model | KW | Stages | Amps | MCA | Max Fuse Breaker Amps |
| 24 | EHK-05G | 3.8/5 | 1 | 18.1/20.8 | 23/26 | 25/30 |
| | EHK-08G | 5.6/7.5 | 1 | 27.1/31.3 | 34/40 | 35/40 |
| | EHK-10G | 7.5/10 | 1 | 36.1/41.7 | 46/53 | 50/60 |

Features

- Quiet horizontal discharge.
- Power-painted galvanized steel cabinet.
- Electric heat kit available as a field-installed option: 5/8/10/15/20kW.
- High-efficiency compressors operate smoothly, quietly, consistently.
- Internal safeguards protect compressor against high and low pressure, coil temperature.
- Copper tube/aluminum fin coil.
- High efficiency ECM blower motor (not all models).
- AHRI Certified and ETL listed.

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Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.

