

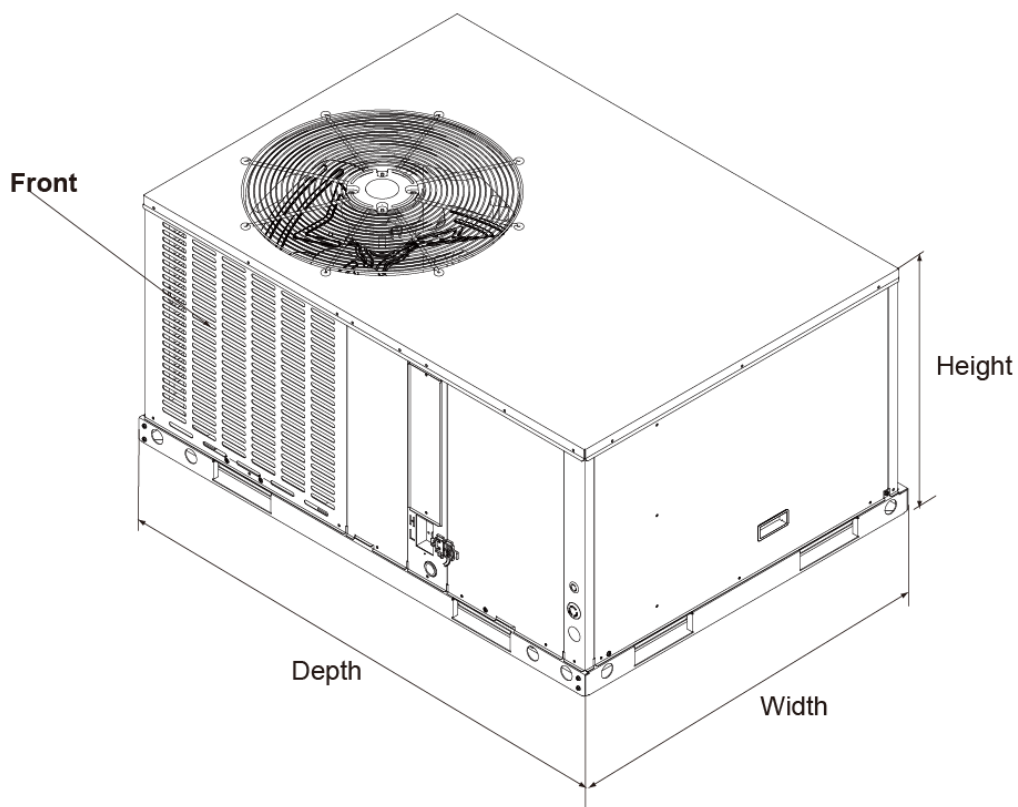
Submittal

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.)	38-1/4
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 fil coil.
- High efficiency ECM blower motor (not all models).
- AHRI Certified and ETL listed.

Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document. Tuttokool has a policy of continuous product and product data improvement and it reserves the right to change design and specification without notice.

