

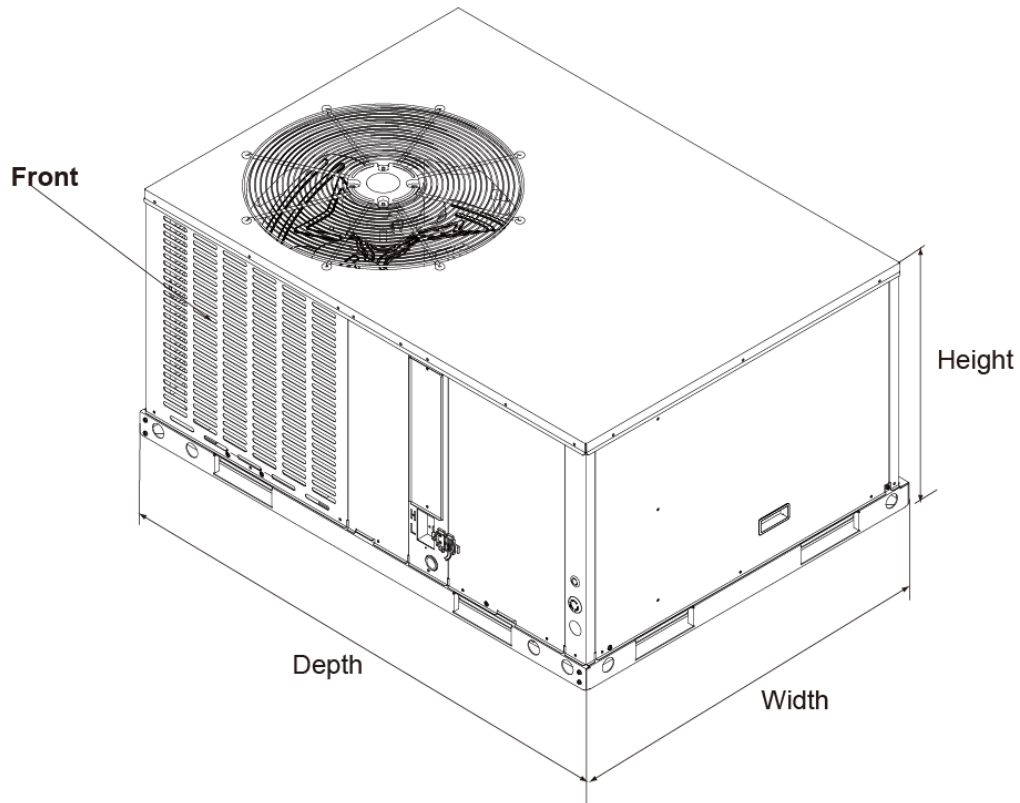
Submittal

TAG:

Condensing Unit

Up to 13.4 SEER2

Cooling capacity: 24 – 60 kBTU/h



APH3030E100A	
UNIT DIMENSION AND WEIGHTS	
Height (in.)	24-13/16
Width (in.)	52
Depth (in.)	37-1/4
Net Weight (lbs.)	346

Specifications

	APH3030E100A
NOMINAL CAPACITY	
Cooling (BTU/h)	30,000
Heating (BTU/h)	/
ELECTRICAL DATA	
Voltage / Phase (60 Hz)	208/230 / 1
Min. / Max. Voltage	187/253
MCA	18
MOP	25
COMPRESSOR	
Type	Rotary
Stage	Single
RLA	10.2
LRA	58.0
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)	2.0
Rated RPM	980
INDOOR COIL	
Type	Tube & Fin
Tube Size(O.D)	9/32
INDOOR BLOWER MOTOR	
Motor Type	ECM
Capacitor(uF)	/
Horsepower (HP)	1/2
Full Load Amps (FLA)	3.2
Rated RPM	1050
REFRIGERATION SYSTEM	
Refrigerant Control	Orifice
Refrigerant Charge (lbs. - oz.)	5-12
OPERATION RANGE	
Cooling(°F)	55-115
Heating(°F)	5-86
SOUND POWER (DB)	81

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]
30	Low-Tap(1)	SCFM	956	908	860	815	771	/	/	/	/
		Watts	1.2	1.27	1.35	1.44	1.52	/	/	/	/
		Amps	114	122	131	141	151	/	/	/	/
	Mid-Tap(2)	SCFM	1082	1039	996	958	917	881	831	780	/
		Watts	1.54	1.63	1.73	1.82	1.92	2.01	2.12	2.21	/
		Amps	153	164	175	186	119	209	221	231	/
	High-Tap(3) (Factory)	SCFM	/	/	/	1102	1066	1031	998	964	916
		Watts	/	/	/	2.34	2.46	2.56	2.66	2.76	2.88
		Amps	/	/	/	248	261	274	286	297	312

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]
30	Low-Tap(1)	SCFM	956	908	860	815	771	/	/	/	/
		Watts	1.2	1.27	1.35	1.44	1.52	/	/	/	/
		Amps	114	122	131	141	151	/	/	/	/
	Mid-Tap(2)	SCFM	1082	1039	996	958	917	881	831	780	/
		Watts	1.54	1.63	1.73	1.82	1.92	2.01	2.12	2.21	/
		Amps	153	164	175	186	119	209	221	231	/
	High-Tap(3) (Factory)	SCFM	/	/	/	1102	1066	1031	998	964	916
		Watts	/	/	/	2.34	2.46	2.56	2.66	2.76	2.88
		Amps	/	/	/	248	261	274	286	297	312

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
30	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
	EHK-15G	11.3/15	2	54.2/62.5	68/79	70/80

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.

