

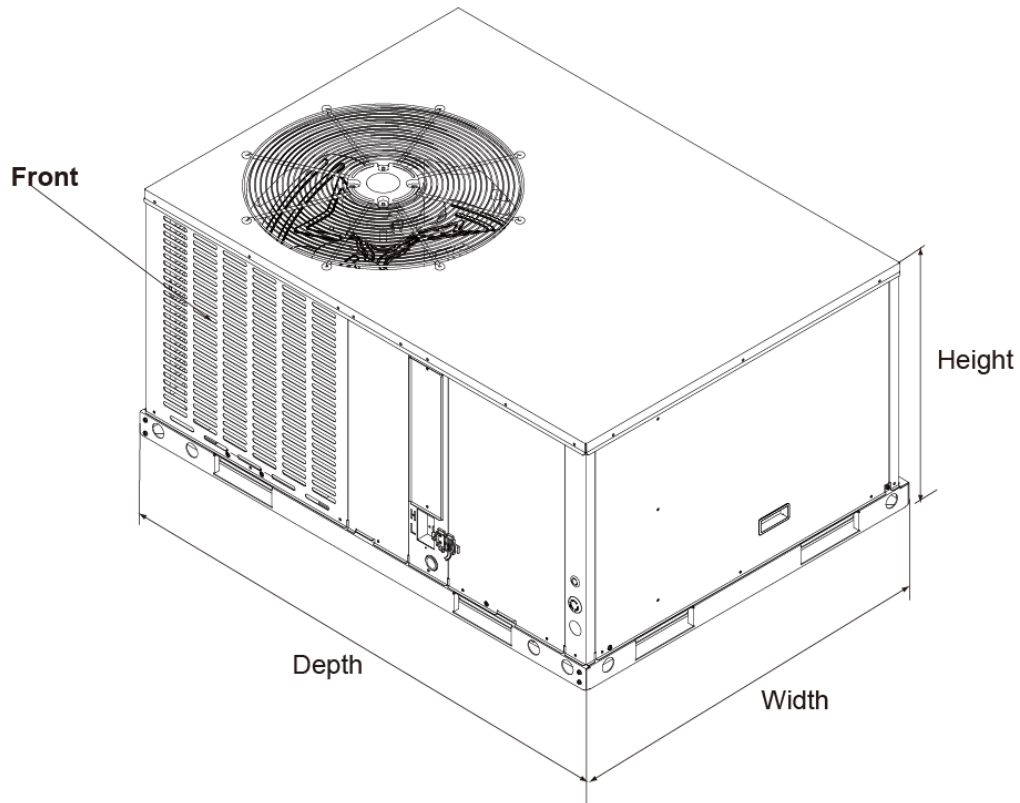
Submittal

TAG:

Condensing Unit

Up to 13.4 SEER2

Cooling capacity: 24 – 60 kBTU/h



	APH3042E100A
UNIT DIMENSION AND WEIGHTS	
Height (in.)	33-1/16
Width (in.)	58-1/2
Depth (in.)	42-1/16
Net Weight (lbs.)	463

Specifications

	APH3042E100A
NOMINAL CAPACITY	
Cooling (BTU/h)	42,000
Heating (BTU/h)	/
ELECTRICAL DATA	
Voltage / Phase (60 Hz)	208/230 / 1
Min. / Max. Voltage	187/253
MCA	24.2
MOP	35
COMPRESSOR	
Type	Scroll
Stage	Single
RLA	15.2
LRA	112.3
OUTDOOR COIL	
Type	Tube & Fin
Tube Size(O.D)	3/16
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	PSC
Capacitor(uF)	/
Horsepower (HP)	3/4
Full Load Amps (FLA)	2.9
Rated RPM	1050
REFRIGERATION SYSTEM	
Refrigerant Control	Orifice
Refrigerant Charge (lbs. - oz.)	6-10
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]
42	Low-Tap(1) (Factory)	SCFM	1545	1507	1463	1418	1366	1307	1239	1144	/
		Watts	487	479	469	458	447	433	418	400	/
		Amps	2.58	2.55	2.52	2.49	2.46	2.42	2.38	2.33	/
	Mid-Tap(2)	SCFM	/	/	/	/	1551	1488	1414	1318	1200
		Watts	/	/	/	/	728	712	693	672	644
		Amps	/	/	/	/	4.1	4.05	3.99	3.92	3.84
	High-Tap(3)	SCFM	/	/	/	/	/	/	1570	1499	1380
		Watts	/	/	/	/	/	/	812	787	759
		Amps	/	/	/	/	/	/	4.57	4.49	4.4
		Amps	/	/	/	4.76	4.7	4.63	4.57	4.49	4.4

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]
42	Low-Tap(1) (Factory)	SCFM	/	/	/	/	1554	1495	1429	1340	1230
		Watts	/	/	/	/	527	510	3046	465	432
		Amps	/	/	/	/	2.29	2.22	13.24	2.02	1.88
	Mid-Tap(2)	SCFM	/	/	/	/	/	/	/	1503	1384
		Watts	/	/	/	/	/	/	/	566	533
		Amps	/	/	/	/	/	/	/	2.46	2.32
	High-Tap(3)	SCFM	/	/	/	/	/	/	/	/	1548
		Watts	/	/	/	/	/	/	/	/	662
		Amps	/	/	/	/	/	/	/	/	2.88

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)

Large Cabinet: 42K, 48K, 60K

STATIC	STANDARD CFM (SCFM)							
	1500	1600	1700	1800	1900	2000	2100	2200
5kW	0.1	0.1	0.1	0.1	0.15	0.15	0.15	0.15
7.5kW	0.1	0.1	0.1	0.1	0.15	0.15	0.15	0.15
10kW	0.1	0.1	0.15	0.15	0.15	0.15	0.15	0.15
15kW	/	/	0.2	0.2	0.2	0.2	0.2	0.2
20kW	/	/	0.2	0.2	0.2	0.2	0.2	0.25

Electric Heat Kit Data

Capacity KBTU	Heater Circuit (without units)					
	Model	KW	Stages	Amps	MCA	Max Fuse Breaker Amps
42	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
	EHK-20G	15/20	2	72.3/83.4	91/105	100/110

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.

Midea Building Technologies Division

Add.: Midea Headquarters Building, 6 Midea Avenue, Shunde, Foshan, Guangdong, China

Postal code: 528311

mbt.midea.com / global.midea.com / tsp.midea.com

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

