



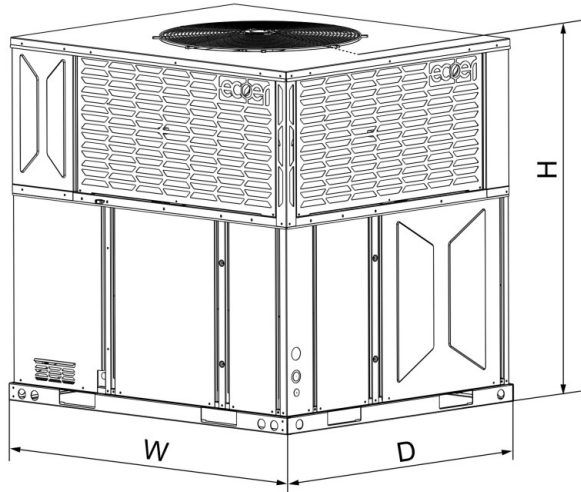
TAG:

SUBMITTAL

5 Ton Fully Modulating Inverter Drive System

RTi Series

Product Specifications



MODEL	ERDA19H-60ABA
Voltage-Phase-Hz	208/230-1-60
Minimum Circuit Ampacity	38.5
Max. Over-current Protection	50
COMPRESSOR	Variable rotary
RLA	24.0
LRA	58.1
Drive Method	Inverter
Noise-cancelling Jacket	Factory installed
Crankcase Heater	Internal heating
Refrigerant Pre-charged Amount	9 lb 11 oz
OUTDOOR FAN	Propeller
Condenser Fan Motor Type	Brushless DC Motor
Horse Power (HP)	1/3
FLA	2.5
Motor Speed RPM	1050
CFM @ 0 in. W.G	3700
OUTDOOR COIL TYPE	Copper tube with hydrophilic aluminum fins
Coil Number	2
Rows	3
Tube Outside Diameter (in.)	0.276
INDOOR FAN TYPE	Centrifugal
Blower Diameter-Width (in.)	11x11
Fan Motor Type	ECM
Horse Power (HP)	1
FLA	7.8
Motor Speed RPM	1050
CFM @ 0.5 in. W.G	1700
INDOOR COIL TYPE	Copper Tube With Hydrophilic Aluminum Fins
Coil Number	1
Rows	4
Tube Outside Diameter (in.)	9/32
Drain Connection Size (in.)	3/4 NPT
Roof Curb Size (in.)	42-3/16 X 46-1/16

Model	Dimensions (in.)		
	H	W	D
60	50-19/32	51-19/32	44-7/8

Product Specifications (Continued)

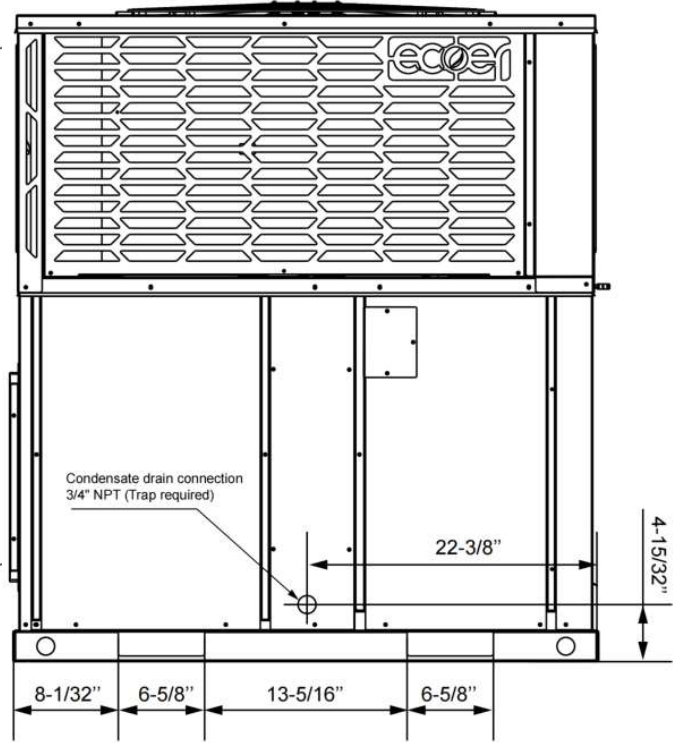
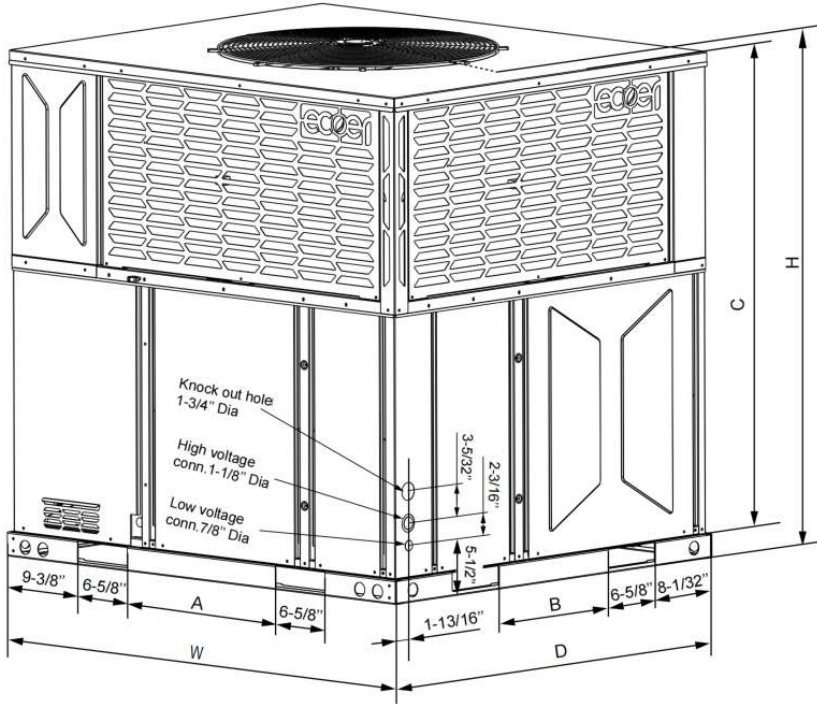
FAN SPEED	Sound pressure level (dB)
Max.	75
Rating	74
Min.	65
Expansion Device	EEV
Refrigerant	R-454B
Factory Supplied Refrigerant Charge	9 lbs. 11 oz
Dimensions (W X H X D)	51-19/32 × 50-19/32 × 44-7/8
Packing Dimensions (W X H X D)	52-3/8 × 51-19/32 × 45-11/16
Net Weight (lbs)	606
Shipping Weight (lbs)	640

Airflow motor speed mode setting (SW1-1)				Variable airflow mode (Default)			2-stage airflow mode		Max available Static Pressure (in wc)	Remark	
Model	Airflow setting	Airflow Dip-Switch			Max Airflow (CFM)	/ (CFM)	Min Airflow (CFM)	High Airflow (CFM)			Low Airflow (CFM)
		SW2-1	SW2-2	SW2-3	W1/W2*	G*	/	Y2/W1/W2**	Y1/G**		
ERDA19 H-60ABA	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	

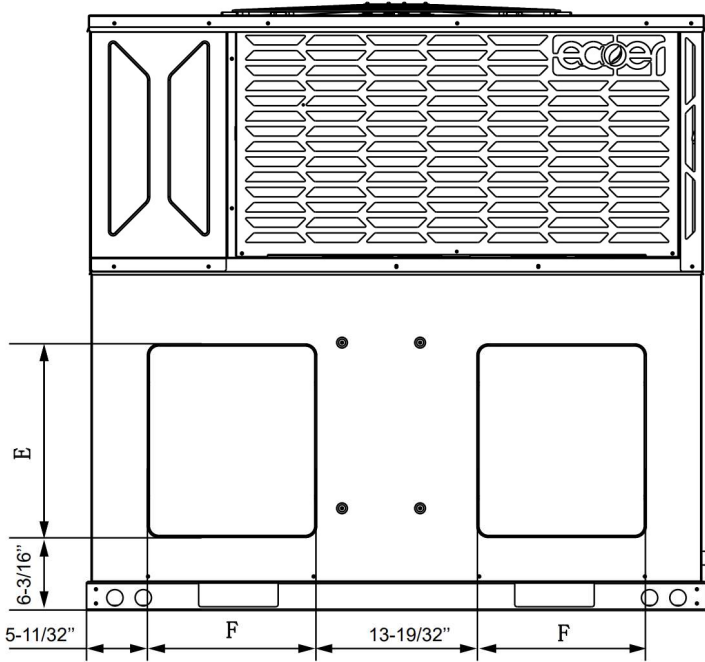
*In Variable airflow mode, when the heat pump is operational, the airflow will adjust automatically. When the auxiliary heat (W1/W2) is activated, the system will run at maximum airflow. However, when only the blower is operating (G), the airflow will be fixed.

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

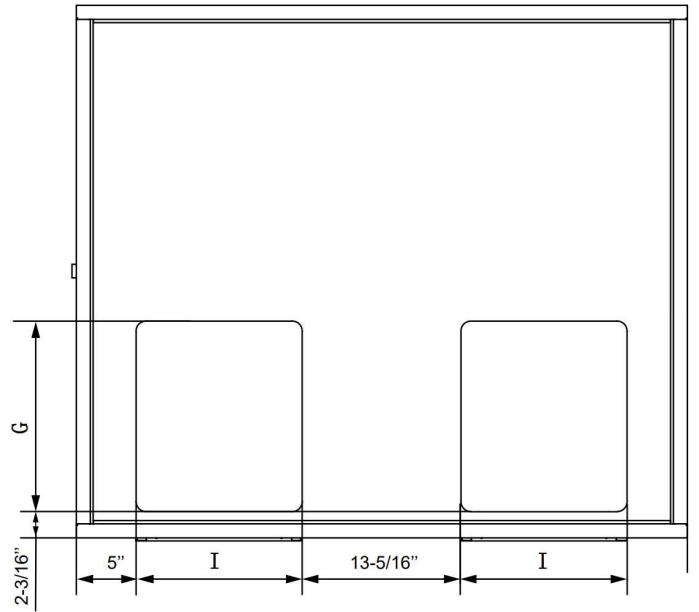
OPTIONAL HEATER CIRCUIT(without units)									
HEATER KIT MODEL	NOMINAL POWER(kW)	POWER(kW)		HEATER AMPS		MIN. CIRCUIT AMPS		MAX FUSE OR BREAKER (HACR' AMPS)	
		240 V	230 V	208V	230 V	208V	230 V	208V	230 V
EHK-05J	5	4.6	3.8	20.8	18.1	27	23	30	25
EHK-08J	7.5	6.9	5.6	31.3	27.1	40	34	40	35
EHK-10J	10	9.2	7.5	41.7	36.2	53	46	60	50
EHK-15J	15	9.2+4.6	7.5+3.8	41.7+20.8	36.2+18.1	53+27	46+23	60+30	50+25
EHK-20J	20	9.2+9.2	7.5+7.5	41.7+41.7	36.2+36.2	53+53	46+46	60+60	50+50



Left side view



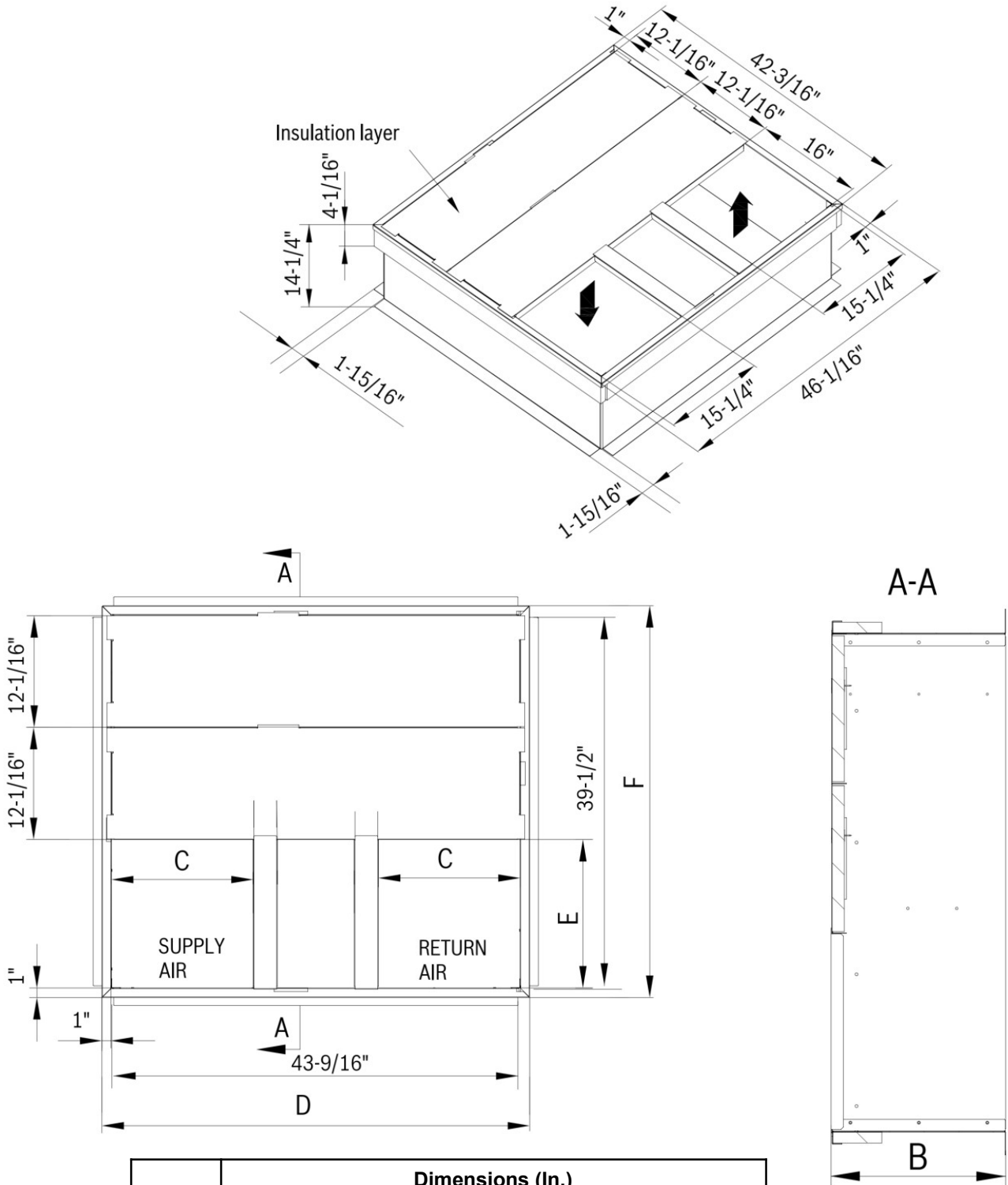
Back view



Bottom view

Model	Dimensions (In.)									
	H	W	D	A	B	C	E	F	G	I
60	50-19/32	51-19/32	44-7/8	19-11/16	15-1/2	47-11/64	15-27/32	13-13/16	16-3/32	14-3/32

Ecoer recommended 5T roof curb dimensions are shown below:



Curb	Dimensions (In.)				
	B	C	D	E	F
5T	14-1/4	15-1/4	46-1/16	16	42-3/16

NOTES:

1. Roof curb must be set up for unit being installed.
2. Seal strip must be applied, as required, to unit being installed.
4. Attach ductwork to curb (flanges of duct rest on curb).
5. Recommended insulated panels: 1 in. (25.4 mm) thick fiberglass 1 lb. density.

Mechanical Specifications

Communication Method

Compatible with most 24Vac thermostats.

General

This unit is designed to operate at outdoor ambient temperatures as high as 125°F (and as low as 20°F) in cooling mode, and as low as -22°F in heating mode. Cooling/Heating capacities are matched with AHRI certified. Additionally, this unit has received ETL certification, further attesting to its quality and safety standards.

Casing

Unit casing is constructed of heavy gauge, Galvanized steel and painted with a weather resistant powder paint on all grilles, panels.

Rotary Compressor

Flexible capacity output from 35%-110%.

Compressor is equipped with Noise-cancelling Jacket.

Condenser Coil

The outdoor coil provides low airflow resistance and efficient heat transfer.

The coil is protected on all four sides by grille panels.

Installation

2-way design allows for horizontal and downflow installations. Field installed heater kits 5, 7.5, 10, 15, 20kW.

