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Ecologix EC 66 air handler Submittal

FEATURES:

High efficiency ECM blower motor. Blower housing with forward curved zinc coated steel blower wheel. Casing is G90 galvanized steel suitable for use in wet environments. Cabinet is galvanized steel cabinet post painted with white powder coat finish for long life even in wet environments. Cycle timer built in for exercising pump every 24 hours. Test button on circuit board allows fast verification of cycle timer function. Heating, cooling and continuous fan speeds are all independently selectable using rotary switches on control board. System is compatible with all 24-volt heat/cool and heat pump thermostats. Push button connectors provided on board for thermostat wires. Lighted service area for high visibility in poorly lit locations. LED indicators are provided on all thermostat inputs and control outputs. LED status tables and trouble codes printed on circuit board for easy diagnostics. Robust on board surge suppression for protection from lightning strikes. Air handler mounts in any direction: up, down, horizontal discharge left or right. Heating coil comes complete with built in pump and check valve. Add-on cooling can be on return air or in the supply air plenum. All service access is through front panels. Compatible with standard duct systems or can be used in small diameter duct systems up to 1.5"w.c. Fits standard filter frame (sold separately).

Physical Properties

MODEL:	EC66
Dimensions (W x D x H) inches	23"x25"x32"
Supply Air Opening (WxD) inches	20"x20"
Return Air Opening (WxD) inches	18"x23"
Filter Rack Size (WxD) inches	16"x25"
Water inlet and outlet	¾"
Coil size (length x width x rows)	22x20-3R
Shipping weight – pounds	80
Power (V/Ph/Hz)	115/1/60
Total Unit FLA	6.3
Minimum Ampacity	7.7
Max over current (max fuse size) Amps	15
Motor Horsepower	1 /3
Blower Model	10x9

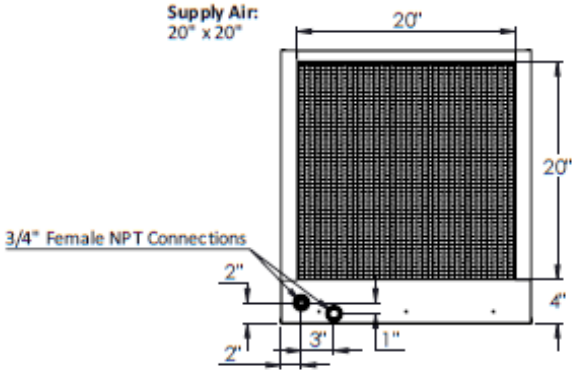
PERFORMANCE Specifications

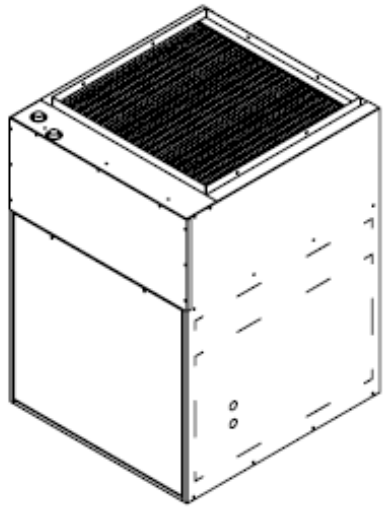
MODEL:	EC66
Heating Capacity (Btu/h) 100F water	25,400
Heating Capacity (Btu/h) 110F water	35,200
Heating Capacity (Btu/h) 120F water	45,300
Heating Capacity (Btu/h) 130F water	55,700
Heating Capacity (Btu/h) 140F water	66,100
Heating Capacity (Btu/h) 160F water	87,900
Heating Capacity (Btu/h) 180F water	110,900
Cooling Capacity – High (Tons)	3.5
Cooling Capacity – Medium (Tons)	3.0
Cooling Capacity – Low (Tons)	2.5
Continuous run speeds (5 total)	20%-100%
Heating Air flow speeds (5 Total)	20%-100%
Cooling air flow speeds (5 Total)	20%-100%
Circulator Pump Flow(GPM)	5.0
Maximum Heating Airflow (CFM)	1400
Max. Ext. Static Pressure (in.wc)	1.0

Heating capacities are based on 70F return air, high fan speed. For medium speed de-rate capacity by 20%. For lowest speed de-rate capacity by 40%. Air handler can deliver the programmed airflow at any static pressure below the maximum external static pressure. Allow 0.25 inches w.c. for external AC coil.

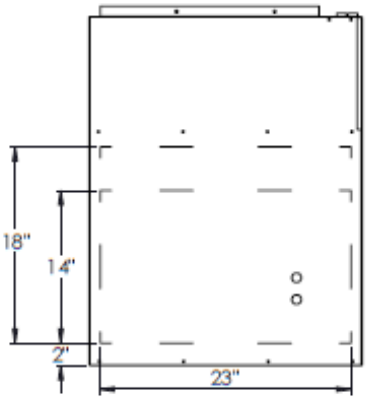
Project	
Address	
Date	

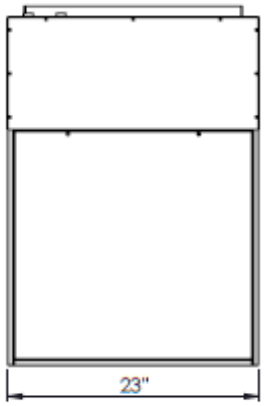
Supply Air:
20" x 20"

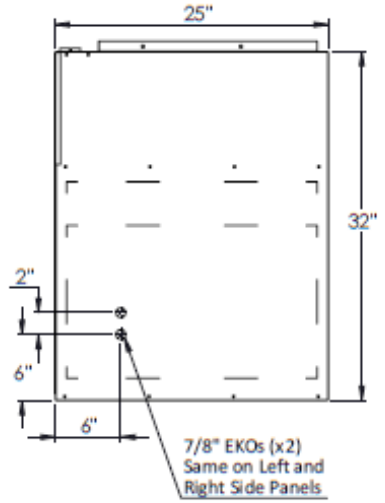




Return Air Markings on Right and Left Panles:
- 14"H x 23"D for 16" x 25" Filter Rack
- 18"H x 23"D for 20" x 25" Filter Rack







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DRAWING TITLE
EC46, ECR46 & EC66
RA, SA, and EKO Locations & Size

NOTE:
Use 14"x23" RA cut out for all applications with Ecologix CR1620 and CW1320 series coils
Use 18"x23" RA cut out for all applications with Ecologix CR2420 and CW2220 series coils

DRAWING NUMBER
EC46-1
REVISION
1

REV. 20180425