

Model ECCH320 - Air Handler

DESCRIPTION and DETAILS:

- ECCH320 is a self-contained fully ducted air handler.
The air handler coil capacity is selected and designed to match the existing direct fired air handler when the unit is supplied with 150F or less water temperature from a closed loop boiler system (supplied separately).
- High efficiency ECM backward curved motorized fans designed to deliver 9000 cfm at 0.5" w.c. and can operate with external static pressure up to 1.5" w.c.
- Units shall be ducted to the curing chamber by others. Opening sizes for inlet and outlet connections shall be provided by Engineer prior to construction.
- Allen Bradley electronic control (refer to Control Submittal for details) manages the humidity and heating. Electrical box for housing the main control is internal to air handler. MUI screen is provided separately for remote mounting
- Access to the unit for servicing is from the three access doors on the front face of the unit. The return air access door has a keyed access latch so the unit can be secured to avoid unwanted access if desired. The hinged door with single latch allows for easy access to filters for periodic maintenance and changing.
- Access panels for high pressure zones (after the fan assembly) are fastened by machine screws to provide a tight seal and minimize air loss. Access to these areas should only be required for service and component replacements.
- Galvanized steel outer cabinet in G90 grade for long life even in occasionally damp environments. All interior surfaces are stainless steel for long life at high humidity / wetted conditions.
- C channel base is supplied to rigidly tie the three sections of the air handler together, mount the air handler off the floor and provide the elevation needed to connect and trap the drains for each of the three sections.
- Anchoring of unit to floor is not required, but it can be fastened to the floor or pad by bolting through the C-channel frame beneath the unit.
- Unit is shipped completely assembled and is designed for fast disassembly then reassembly inside the mechanical room. This will allow the air handler to fit through a 28" door frame, avoiding expensive rigging or disassembly of the building structure to fit the unit in place.



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- The supply and return air sensors and the main control located inside the air handler are described in the Allen Bradley control submittal.
- The disconnect shown on the P&ID is not integral to the unit and is not provided with the unit. The electrical code requires a separate disconnect to be provided by the electrician. The location shown for the disconnect on the P&ID is a suggestion only and should be located by the electrician to suit local codes.
- A recommended spare parts list will be included in final instructions shipped with the units.
- Ratings provided for cold system start up performance and warm temperature loaded operation performance. Performance calculations for other loading scenarios and fan speeds can be prepared upon request.

PROPERTIES

MODEL:	ECCH320
Dimensions (WxDxH) – inches	88 x 73 x 75
Shipping weight – pounds	1280
Maximum Airflow – cfm @ 0.4”w.c.	12,000
Maximum Airflow – cfm @ 1.0”w.c.	9,000
Maximum heat (Btu/hr) at 150F	380,000
Inlet Air conditions (°F)	60 to +110
Inlet Air Connections – inches (HxW)	36”x48”
FILTER frames provided (9 total) ins	20x20 x1
Outlet Air Connection – inches	36”x36”
Power (V/Ph/Hz) (TBD by owner)	240/3/60
MCA (minimum circuit ampacity)	12
MOCP (max fuse size) Amps	20
HACR (max breaker size) Amps	20
Sound level, (dBA @ 2m, unducted)	75
Boiler water temperature range (°F)	130 to 180
Maximum pump flow (gpm)	35

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