



Multi-Speed High Efficiency Hydronic Air Handler

ecosmart uses revolutionary, (patent-pending) proprietary technology to bring you high-efficiency hydronic air handlers *like you've never seen!* Loaded with features for unmatched comfort and ease of installation.



MULTI-SPEED MODELS - ES50LVS and ES90LVS

- Operates as a single stage or multi-stage unit
- Independently set up heating and cooling CFM
- Multi-speed ECM motor
- Built-in dehumidification feature
- Operates a standard pump or a variable speed pump with 0-10V input
- Domestic water priority option
- Simplified installations with game changing proprietary microcontrollers
- Soft-ramping fan technology – quiet operation in all modes of operation
- Exceptional ratings at modest flow rates of 2-5 GPM
- Front or rear water connections
- Lined with acoustic insulation
- All EcoSmart air handlers match well with boilers, water heaters, or any other hot water source
- All units are suitable for multi position installations



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Board Specifications

Heat CFM SW1 & 2
(4 Selections)

Cool CFM SW3 & 4
(4 Selections)

5-Speed ECM Fan

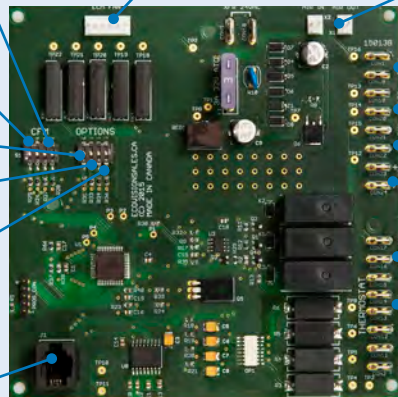
Supply and Return
Air Temperature Sensors

Options SW1
Low CFM Constant
Fan Circulation

Options SW2
Multi-stage Operation
Single-stage operation

Options SW3
Dehumidification in
Cooling Mode

Diagnostic Tool Connection



Flow Switch Domestic Water
Priority Mode

Energize Boiler Dry Contact

Switched 24V for Accessories

Variable Speed Pump Control
(0-10V Output)

Standard Pump Relay
(24V Output)

Thermostat Connections
Equipped for 2 Stage Cooling

Specifications

Model	ES50LVS	ES90LVS
Heating Performance Data @ 70°F Entering Air Temperature		
Max. BTUH @ EWT 120°F	27,620	40,790
Max. BTUH @ EWT 140°F	38,890	57,400
Max. BTUH @ EWT 160°F	50,220	74,090
Max. BTUH @ EWT 180°F	61,590	90,830
Piping Connections Copper (inches)	1/2	3/4
Flow Ratings GPM	4	5
CFM @ 0.5" E.S.P.	800	1200
DX Cooling tons	1 - 2	1.5 - 3
Cabinet Size W x D x H (inches)	14 x 21 x 29	21 x 21 x 29
Supply Air Opening W x D (inches)	12 x 17.8	18.8 x 17.8
Return Air Opening W x H (inches)	18 1/4 x 14 1/4	18 1/4 x 14 1/4
Unit Weight (lbs.)	85	95



rear piping knockouts