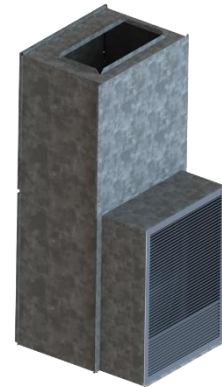


## ECE series Vertical Through Wall Units HYBRID Heat Pump

### Heat Pump Heating and AC with supplemental Hydronic Heat

- System runs as electric heat pump heating in mild weather and switches to hydronic (fossil fuel) heating for cold weather operation. Economic balance point for switch over can be field adjusted.
- Insulated for sound attenuation
- Installed and serviced from the indoors
- 208 / 230V single phase
- G90 Galvanized for long rust-free life
- AC has Axial EC variable speed fan motor with field adjustable speed settings.
- Indoor fan is 5 speed EC motor with independent rotary dial speed controls for Heating, Cooling and Continuous Fan speeds.
- Wall sleeve available in 3 sizes to allow for wall thickness
- Indoor section is shallow construction to minimize protrusion into



AC section

#### Available Options

OPTION	FEATURES
Wall Sleeve	24 wide x 32" tall wall sleeve. Comes in following depths 10", 14", 18". Custom depths are available for large orders. Can be ordered as knock down or factory assembled
Architectural Louver	Powder coated aluminum louver (Silk Grey). Custom colors available
Sleeve Adaptor	Wall sleeve adaptor to existing wall sleeves. Consult factory for shop drawings prior to ordering
Overflow control	Factory installed stainless steel overflow float with hermetically sealed reed switch for extremely long trouble-free life. Shuts down unit and produces an audible alarm to warn homeowner before flooding incident can occur
Condensate pump	Internal condensate pump factory installed and wired. Alarms and shuts down unit if pump fails. For replacement sites where local condensate drain is not readily available. Can pump 20ft vertically and 100ft horizontally
Custom Heating Coil	Consult factory for alternate heating coil to one shown in table.
Zone valve	Specify zone valve in place of pump for systems with external pumps.
MERV 13 Filter	Complete filtration of indoor air through MERV 13 filter. Consult Factory
Outdoor air vent	Fresh air vent with motorized or fixed damper. Consult Factory

## Physical Properties

MODEL:	ECE09-H33	ECE12-H33	ECE18-H33	ECE24-H40	ECE30-H40
Cabinet Width(inches)	25"	25"	25"	25"	25"
Cabinet Height (inches)	60"	60"	60"	60"	60"
Cabinet Depth (inches)	19"	19"	19"	19"	19"
Supply Air (WxD) inches	12"x20"	12"x20"	12"x20"	12"x20"	12"x20"
Return Air (WxD) inches (Side)	12"x20"	12"x20"	12"x20"	12"x20"	12"x20"
Return Air (WxD) inches (Front)	14"x23"	14"x23"	14"x23"	14"x23"	14"x23"
Filter Rack Size (WxD) inches	16"x25"	16"x25"	16"x25"	16"x25"	16"x25"
Water inlet and outlet	½"	½"	½"	½"	½"
Coil size (length x width - rows)	13x20-2R	13x20-2R	13x20-2R	13x20-3R	13x20-3R
Shipping weight – pounds	160	168	180	188	190
Power (Volts/Phase/Hz)	230/1/60	230/1/60	230/1/60	230/1/60	230/1/60
Minimum Ampacity	7	8	11	24	29
Max over current (fuse size) Amps	15	15	20	30	40

## PERFORMANCE Specifications

MODEL:	ECE09-H33	ECE12-H33	ECE18-H33	ECE24-H40	ECE30-H40
Heating Capacity (Btu/h) 100F	14,000	14,000	14,000	17,000	17,000
Heating Capacity (Btu/h) 110F	18,600	18,600	18,600	22,700	22,700
Heating Capacity (Btu/h) 120F	23,200	23,200	23,200	28,200	28,200
Heating Capacity (Btu/h) 130F	27,900	27,900	27,900	33,800	33,800
Heating Capacity (Btu/h) 140F	33,000	33,000	33,000	39,800	39,800
Heating Capacity (Btu/h) 160F	42,900	42,900	42,900	51,800	51,800
Heating Capacity (Btu/h) 180F	52,700	52,700	52,700	63,500	63,500
Cooling Capacity – (Btu/h)	9,100	11,800	18,300	23,400	29,500
Continuous run speeds - cfm	240-400	240-400	240-400	240-400	240-400
Heating Air flow speeds - cfm	480	480	640	640	640
Cooling air flow speeds – cfm	320	480	640	800	800
Circulator Pump Flow(GPM)	2.8	2.8	2.8	3.5	3.5
Maximum Airflow (CFM)	640	640	640	800	800
Max. Ext. Static Pressure (in.wc)	1.0	1.0	1.0	1.0	1.0

1. Heating capacities are based on 70F return air, Med high fan speed. For medium low speed de-rate capacity by 20%. For low-speed de-rate capacity by 40%
2. Air handler can deliver the programmed airflow at any static pressure below the maximum external static pressure.
3. Fan speeds are torque limited to 30%,40% 60% 80% 100% which approximates air flows of 800, 640,480, 320, 240 cfm.
4. All fan speeds are recommended settings. Use temperature rise of temperature drop measurements as described in the installation instructions for setting fan speeds do not rely on this table. This is for initial setting and calculation purposes only.