



High Efficiency Heating, Cooling and Indoor Air Quality Systems

HE-P Series Air Handler

10 Ton Air Handler with Backward Curved Fan

Manufactured by
Energy Saving
PRODUCTS LTD



HE-P-240
(Up to 10 Tons)



Variable Speed
Backward Curved Fan

- Up to 50% Less Energy Consumption
- Highest Capacity SDHV Air Handler
- Lowest operating DB in the Industry
- Zoning Packages also available - up to 4 Zones with Dampers and Zone Control installed at the Factory
- Builders Series Available for Large Projects (HE-P-241)



HE-P Zoning Unit

www.hi-velocity.com

Matching Coils
Refrigerant Coils
RBM/RPM-E/RCM-100 (x2)
Chilled Water Coils
WM-1750
Hot Water Coils
HWC-1750
Electrical Coils
ESH/VESH-2500



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Hi-Velocity 10 Ton Air Handler



HE-P-240/241

Hot Water Heating		10 Ton Airflow (35.2 kW) ⁽²⁾		
Coil Type		6 Row/12 FPI		
Max. BTUH @ 190°F E.W.T. (kW @ 88°C)		234,100 (68.6 kW)		
Max. BTUH @ 180°F E.W.T. (kW @ 82°C)		214,300 (62.8 kW)		
Max. BTUH @ 170°F E.W.T. (kW @ 77°C)		194,500 (57.0 kW)		
Max. BTUH @ 160°F E.W.T. (kW @ 71°C)		174,700 (51.2 kW)		
Max. BTUH @ 150°F E.W.T. (kW @ 66°C)		155,000 (45.4 kW)		
Max. BTUH @ 140°F E.W.T. (kW @ 60°C)		135,300 (39.7 kW)		
Max. BTUH @ 130°F E.W.T. (kW @ 54°C)		115,600 (33.9 kW)		
Max. BTUH @ 120°F E.W.T. (kW @ 49°C)		96,000 (28.1 kW)		
Max. BTUH @ 110°F E.W.T. (kW @ 43°C)		76,600 (22.4 kW)		
GPM Flow Ratings (L/s Flow Ratings)		11 (0.69 L/s)		
Pressure Drop in Ft. H ₂ O (Drop in KPa)		5.5 (16.4 KPa)		
Chilled Water Cooling		1 WM-1750 Coil ⁽²⁾		2 WM-1750 Coils ⁽²⁾
Coil Type		6 Row/12 FPI		
WBM/WCM Modules in Cooling Mode	Total	Sensible	Total	Sensible
Max. BTUH @ 48°F E.W.T. (kW @ 8.9°C)	64,400 (18.9 kW)	54,000 (15.8 kW)	93,900 (27.5 kW)	67,600 (19.8 kW)
Max. BTUH @ 46°F E.W.T. (kW @ 7.8°C)	69,600 (20.4 kW)	56,300 (16.5 kW)	102,200 (30.0 kW)	71,100 (20.8 kW)
Max. BTUH @ 44°F E.W.T. (kW @ 6.7°C)	74,900 (22.0 kW)	58,500 (17.1 kW)	110,400 (32.4 kW)	74,600 (21.9 kW)
Max. BTUH @ 42°F E.W.T. (kW @ 5.6°C)	80,100 (23.5 kW)	60,700 (17.8 kW)	118,400 (34.7 kW)	78,100 (22.9 kW)
Max. BTUH @ 40°F E.W.T. (kW @ 4.4°C)	85,300 (25.0 kW)	62,900 (18.4 kW)	126,300 (37.0 kW)	81,600 (23.9 kW)
WBM/WCM Modules in Heating Mode	Total			
Max. BTUH @ 150°F E.W.T. (kW @ 66°C)	155,000 (45.4 kW)			
Max. BTUH @ 140°F E.W.T. (kW @ 60°C)	135,300 (39.7 kW)			
Max. BTUH @ 130°F E.W.T. (kW @ 54°C)	115,600 (33.9 kW)			
Max. BTUH @ 120°F E.W.T. (kW @ 49°C)	96,000 (28.1 kW)			
Max. BTUH @ 110°F E.W.T. (kW @ 43°C)	76,600 (22.4 kW)			
GPM Flow Ratings (L/s Flow Ratings)	10 (0.63 L/s)			
Pressure Drop in Ft. H ₂ O (Drop in KPa)	6.8 (20.3 KPa)			
Refrigerant Cooling		RBM/RPM-E/RCM ⁽²⁾		
RBM/RPM-E/RCM Modules BTUH Refrigerant TX Cooling		5 Ton Coils (x2)		
Electrical Heating		ESH/VESH-2500		
Kilowatt Range (240v)		10 - 25 kW		
Specifications		HE-P-240/241		
Max Rated CFM @ 1.2" E.S.P. (L/s @ 298 Pa)		2500 CFM (1180 L/s)		
Voltage		230/1/50/60 F.L.A. 8 amp		
Nominal Operating Amperage		6 Amps		
Integral Surge and Fuse System		Yes		
Watts		1325W		
Motor RPM		Variable		
Supply Air Size		2 x 10" Round (254mm)		
Supply Maximum Length ⁽³⁾		130' (39.6m)		
Return Size Needed		18" (270 in ²) (457mm/1742 cm ²)		
Minimum Outlets ⁽⁴⁾		28 (HE) 56 (2")		
Maximum Outlets		60 (HE) 120 (2")		
Shipping Weight (no coil)		107 lbs (48.5 kg)		
Air Handler Dimensions (L x W x H) (Add 2 1/2 inches to height for collars)		26 3/4" x 24 1/4" x 38 3/4" (679mm x 616mm x 984mm)		

⁽¹⁾ Heating specs are rated at 70°F E.A.T., Cooling specs are rated at 80°F/67°F dB/wB

⁽²⁾ Maximum length is from the unit to the supply run end cap. More than one run per unit is allowable.

⁽³⁾ Minimum of **four HE outlets per ton** of cooling needed. (2" Duct = Minimum **eight 2" outlets per ton**)

BTUH - British Thermal Units per Hour
E.W.T. - Entering Water Temperature
GPM - US Gallons per Minute
L/s - Litres per Second
CFM - Cubic Feet per Minute

F.L.A. - Full-Load Amperage
RPM - Revolutions per Minute
E.S.P. - External Static Pressure
E.A.T. - Entering Air Temperature
dB/wB - Dry Bulb/Wet Bulb