

Matching Coils
 Refrigerant Coils
 RPM-E/RCM-50, 70,100
 Chilled Water Coils
 WCM-50, 70, 100
 Hot Water Coils
 HWC-50, 70, 100
 Electrical Coils
 ESH-650 (5-15 kW)
 ESH-750 (5-18 kW)
 ESH-1100 (10-23 kW)

HE-B Series Specifications

Builders Series Fan Coil w/ VFD



	HE-B-50/51	HE-B-70/71	HE-B-100/101
Hot Water Heating⁽¹⁾	2 Ton Airflow (7.0 kW)	3 Ton Airflow (10.6 kW)	5 Ton Airflow (17.6 kW)
Coil Type	6 Row/10 FPI	6 Row/10 FPI	6 Row/10 FPI
Max. BTUH @ 190°F E.W.T. (kW @ 88°C)	59,400 (17.4 kW)	89,200 (26.1 kW)	134,000 (39.3 kW)
Max. BTUH @ 180°F E.W.T. (kW @ 82°C)	54,500 (16.0 kW)	81,800 (24.0 kW)	122,900 (36.0 kW)
Max. BTUH @ 170°F E.W.T. (kW @ 77°C)	49,600 (14.5 kW)	74,400 (21.8 kW)	111,800 (32.8 kW)
Max. BTUH @ 160°F E.W.T. (kW @ 71°C)	44,600 (13.1 kW)	67,100 (19.7 kW)	100,700 (29.5 kW)
Max. BTUH @ 150°F E.W.T. (kW @ 66°C)	39,700 (11.6 kW)	59,700 (17.5 kW)	89,700 (26.3 kW)
Max. BTUH @ 140°F E.W.T. (kW @ 60°C)	34,700 (10.2 kW)	51,800 (15.2 kW)	78,400 (23.0 kW)
Max. BTUH @ 130°F E.W.T. (kW @ 54°C)	29,700 (8.7 kW)	44,700 (13.1 kW)	67,100 (19.7 kW)
Max. BTUH @ 120°F E.W.T. (kW @ 49°C)	24,800 (7.3 kW)	37,400 (11.0 kW)	56,200 (16.5 kW)
Max. BTUH @ 110°F E.W.T. (kW @ 43°C)	20,100 (5.9 kW)	30,300 (8.9 kW)	45,500 (13.3 kW)
GPM Flow Ratings (L/s Flow Ratings)	5 (0.32 L/s)	7 (0.44 L/s)	10 (0.63 L/s)
Pressure Drop in Ft. H ₂ O (Drop in KPa)	3 (8.96 KPa)	6.5 (19.4 KPa)	6.8 (20.3 KPa)
Chilled Water Cooling⁽¹⁾	WCM-50	WCM-70	WCM-100
Coil Type	6 Row/10 FPI	6 Row/10 FPI	6 Row/10 FPI
WCM Modules in Cooling Mode	Total	Sensible	Total
Max. BTUH @ 48°F E.W.T. (kW @ 8.9°C)	19,300 (5.7 kW)	13,700 (4.0 kW)	27,000 (7.9 kW)
Max. BTUH @ 46°F E.W.T. (kW @ 7.8°C)	20,900 (6.1 kW)	14,200 (4.2 kW)	29,400 (8.6 kW)
Max. BTUH @ 44°F E.W.T. (kW @ 6.7°C)	22,600 (6.6 kW)	14,900 (4.4 kW)	31,800 (9.3 kW)
Max. BTUH @ 42°F E.W.T. (kW @ 5.6°C)	24,200 (7.1 kW)	15,700 (4.6 kW)	34,000 (10.0 kW)
Max. BTUH @ 40°F E.W.T. (kW @ 4.4°C)	25,800 (7.6 kW)	16,300 (4.8 kW)	36,400 (10.7 kW)
WCM Modules in Heating Mode	Total	Total	Total
Max. BTUH @ 150°F E.W.T. (kW @ 66°C)	39,700 (11.6 kW)	59,700 (17.5 kW)	89,700 (26.3 kW)
Max. BTUH @ 140°F E.W.T. (kW @ 60°C)	34,700 (10.2 kW)	51,800 (15.2 kW)	78,400 (23.0 kW)
Max. BTUH @ 130°F E.W.T. (kW @ 54°C)	29,700 (8.7 kW)	44,700 (13.1 kW)	67,100 (19.7 kW)
Max. BTUH @ 120°F E.W.T. (kW @ 49°C)	24,800 (7.3 kW)	37,400 (11.0 kW)	56,200 (16.5 kW)
Max. BTUH @ 110°F E.W.T. (kW @ 43°C)	20,100 (5.9 kW)	30,300 (8.9 kW)	45,500 (13.3 kW)
GPM Flow Ratings (L/s Flow Ratings)	5 (0.32 L/s)	7 (0.44 L/s)	10 (0.63 L/s)
Pressure Drop in Ft. H ₂ O (Drop in KPa)	3 (8.97 KPa)	6.5 (19.4 KPa)	6.8 (20.3 KPa)
Refrigerant Cooling⁽¹⁾	RPM-E/RCM-50	RPM-E/RCM-70	RPM-E/RCM-100
RPM-E/RCM Modules BTUH Refrigerant TX Cooling	1.5 - 2.0 Tons (5.3-7.0 kWh)	2.5 - 3.0 Tons (8.8-10.6 kWh)	3.5 - 5.0 Tons (12.3-17.6 kWh)
Electrical Heating	HV-650 ESH	HV-750 ESH	HV-1100 ESH
Kilowatt Range (240v)	5 - 15 kW	5 - 18 kW	10 - 23 kW
Fan Coil Specifications	HE-B-50/51	HE-B-70/71	HE-B-100/101
Max Rated CFM @ 1.2" E.S.P. (L/s @ 298 Pa)	500 (236 L/s)	750 (354 L/s)	1250 (590 L/s)
Voltage	115/230/1/50/60 F.L.A. 8 amp	115/230/1/50/60 F.L.A. 8 amp	115/230/1/50/60 F.L.A. 8 amp
Nominal Operating Amperage	4 Amps	6 Amps	8 Amps
Integral Surge and Fuse System	Yes	Yes	Yes
Horse Power/Watts	3/4hp - 310W	3/4hp - 530W	3/4hp - 720W
Motor RPM	Variable	Variable	Variable
Supply Air Size	8" round (203mm)	8" round (203mm)	10" round (254mm)
Supply Maximum Length ⁽²⁾	70' (21.3m)	80' (24.4m)	100' (30.5m)
Return Size Needed	12" (120 in ²) (305mm/774cm ²)	12" (120 in ²) (305mm/774cm ²)	14" (168 in ²) (356mm/1084cm ²)
Minimum Outlets ⁽³⁾	12 (2") 6 (HE)	20 (2") 10 (HE)	28 (2") 14 (HE)
Maximum Outlets	24 (2") 12 (HE)	32 (2") 16 (HE)	52 (2") 26 (HE)
Shipping Weight (no coil)	85 lbs (38.6 Kg)	97 lbs (44 Kg)	111 lbs (50.3 Kg)
Fan Coil Size	Length Width Height	Length Width Height	Length Width Height
	32 5/16" (821mm) 14 1/2" (368mm) 18 1/4" (464mm)	32 5/16" (821mm) 19 1/2" (495mm) 18 1/4" (464mm)	32 5/16" (821mm) 25 1/2" (648mm) 18 1/4" (464mm)

⁽¹⁾ Heating specs are rated at 68°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 eight 2" outlets per ton of cooling needed. (HE Duct = Minimum four 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