

HSS AIR HANDLER

BY B&D MFG., INC.



Up Flow / Down Flow / Horizontal Configurations

Plug & Play Heat Strip Options 3KW 5KW 10KW 15KW

Pair with Any of the Following Hydronic Applications

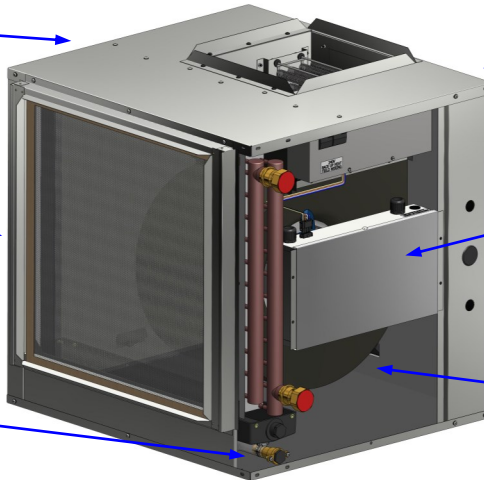
- Water-to-Water geothermal heat pump applications.
- Air-to-Water heat pump applications
- Boiler applications
- Utilize with tank less water heaters for Space Heating applications
- Utilize with High-Efficiency hot water tanks for Space Heating applications
- Commercial Chiller applications

HSS Air Handler Features & Benefits

Built with Heavy Gauge White Steel
Durable ArmorGuard™ Baked on Finish

Uses Standard Air Filter
Easy Access & Removable from Both Sides

Polyethylene Drain Pan
Primary & Secondary Connections



Optional Heat Strip Enclosure
No Heat Strip Offered on Horizontal Units

B&D Designed Controls
Wiring Decal Provided with All Units

Multi-Speed ECM Motor
Smooth & Quiet Running Blower

- ETL Listed / CSA Certified
- Fully insulated compact cabinet design
- Low temperature design starting at 105° up to 180° E.W.T. for Heating and 40° to 50° E.W.T. for Cooling
- Built in 24V Isolation relay to eliminate voltage feedback
- Factory programmed motors that are field adjustable to fine tune your desired CFM
- Programmable, 30 Seconds to 35 minute time-delay on Blower Start-up to delay hot or cold start up
- Programmable, 30 Seconds to 35 minute time-delay for Strip Heat activation.
- 3 Year Warranty on all Components

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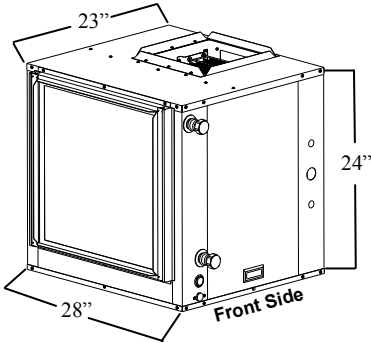


Air Handler Specifications

Unit Specs.	1 Ton Unit	2 Ton Unit	3 Ton Unit	4 Ton Unit	5 Ton unit
Fan Coil Size (Excludes Flanges)	23"W x 24"H x 28"D	23"W x 24"H x 28"D	28"W x 30"H x 31"D	28"W x 30"H x 31"D	28"W x 30"H x 31"D
Largest KW	3 KW	5 KW	10 KW	15 KW	15 KW
Air Filter Size	18" x 22" x 1"	18" x 22" x 1"	25" x 25" x 1"	25" x 25" x 1"	25" x 25" x 1"
Supply Air Size	12" x 12" (1" Flange)	12" x 12" (1" Flange)	14" x 14" (1" Flange)	14" x 14" (1" Flange)	14" x 14" (1" Flange)
Return Air Size	17" x 21" (1" Flange)	17" x 21" (1" Flange)	24" x 24" (1" Flange)	24" x 24" (1" Flange)	24" x 24" (1" Flange)
Swivel Connections Inlet / Outlet	1" FPT	1" FPT	1" FPT	1-1/4" FPT	1-1/4" FPT
Primary & Secondary Drain	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT
Unit Weight (lbs.)	100	105	136	146	165

Electrical Information

Electrical Specs.	1 Ton Unit	2 Ton Unit	3 Ton Unit	4 Ton Unit	5 Ton unit
Blower Motor HP	1/3 HP	1/3 HP	1/2 HP	1/2 HP	1 HP
Amps	2.6	2.6	4.6	4.6	7
Voltage	208V / 240V	208V / 240V	208V / 240V	208V / 240V	208V / 240V
MCA (Minimum Circuit Ampacity)	3.25	3.25	5.75	5.75	5.75
MOP (Maximum Overcurrent Protection)	15	15	15	15	15
Min C.F.M Rated @ 0.5 E.S.P	270	600	1000	1400	1800
Max C.F.M Rated @ 0.5 E.S.P	440	950	1350	1750	2150

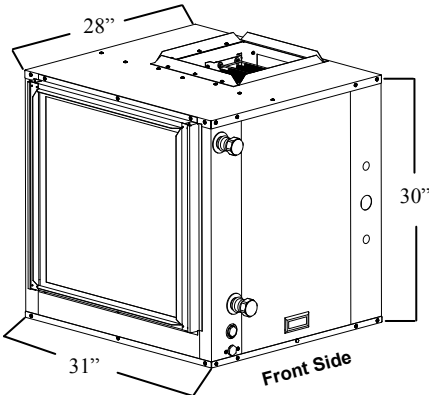


1-2 Ton Left Side Return / Up Flow Configuration Shown

Heating Data

Heating/Hr & Entering Water Temperatures	1 Ton Unit (CFM 500) (4 GPM)	2 Ton Unit (CFM 950) (6 GPM)	3 Ton Unit (CFM 1350) (8 GPM)	4 Ton Unit (CFM 1750) (10 GPM)	5 Ton unit (CFM 2150) (12 GPM)
MB/H Heating @ 180° E.W.T	48.1	95.1	134.7	172.5	209.5
MB/H Heating @ 155° E.W.T	37	73.2	103.6	132.7	161.1
MB/H Heating @ 130° E.W.T	26	51.3	72.7	93.1	113
MB/H Heating @ 115° E.W.T	18.1	36.6	52.4	68.7	82.7
MB/H Heating @ 110° E.W.T	16.1	32.5	46.5	60.8	73.9
MB/H Heating @ 105° E.W.T	14	28.3	40.7	53.1	64.4

Note: Heating Capacities are Based on 0% Glycol



3-5 Ton Left Side Return / Up Flow Configuration Shown

Cooling Data

Cooling/Hr & Entering Water Temperatures	1 Ton Unit (CFM 500) (4 GPM)	2 Ton Unit (CFM 950) (6 GPM)	3 Ton Unit (CFM 1350) (8 GPM)	4 Ton Unit (CFM 1750) (10 GPM)	5 Ton unit (CFM 2150) (12 GPM)
MB/H Cooling @ 50° E.W.T	10.1	20.5	30	39.2	47.5
MB/H Cooling @ 45° E.W.T	12.8	25.8	37.7	48.9	59.4
MB/H Cooling @ 40° E.W.T	15.6	31.4	45.7	59.2	72

Note: Cooling Capacities are Based on 0% Glycol

Emergency Heat Strip Data

Unit Specs.	1 Ton Unit	2 Ton Unit	3 Ton Unit	4 Ton Unit	5 Ton unit
Max KW	3 KW	5 KW	10 KW	15 KW	15 KW
Amps	12.5	20.8	41.7	62.5	62.5
MCA	15.63	26	52.125	78.125	78.125
MOP	20	30	60	80	80

Note: Backup Heat Not Available On Horizontal Flow Units