

Fact sheet

Bosch Hydronic Air Handler



BOSCH

A more efficient comfort system with a virtually endless supply of domestic hot water.

The Bosch Hydronic Air Handler (AHU) pairs with Bosch Greentherm Gas Condensing Tankless water heaters as an alternative to a gas furnace with a ducted system, providing a more efficient heating system with a virtually endless supply of domestic hot water.

The new hydronic air handler connects seamlessly with the Greentherm tankless water heater. As the hot water circulates through the hydronic heating coil within the air handler, warm air is sent through the residential duct system. An integrated control board connects to the home's thermostat. When the thermostat calls for heat, the air handler will turn on the integrated pump for 30 seconds before turning on the fan. This allows the hot water to pre-heat the hydronic heating coil to eliminate the blast of cold air at the start of the heating cycle. When the thermostat calls for cooling the control board only activates the blower.

The integrated control board also includes a pump timer to prevent water stagnation in the heating loop.

Available in two models to suit a wide range of applications.



Hydronic Air Handler (AHU) Features and Benefits

- ▶ The Bosch Hydronic Air Handler is designed to work with the Bosch Greentherm water heater providing a complete solution for home heat and hot water
- ▶ The integrated control board logic, provides a 30 second delay to start and stop the blower and pump to provide optimum comfort and efficiency
- ▶ The integrated pump timer runs for 60 seconds every 6 hour to prevent water stagnation
- ▶ The Bosch Hydronic Air handler and water heater have a wide operating range, allowing the system to meet the heating needs of various homes
- ▶ 5 -year limited warranty, 1-year labor

Features

Control board



- ▶ 30 second delay to start and stop the blower and pump to provide optimum comfort and efficiency
- ▶ Automatic pump timer
- ▶ Connects to standard HVAC thermostats

Enhanced Comfort



- ▶ Warm air produced by the AHU is moister than warm air produced by gas furnaces.
- ▶ Variable fan speeds, water temperature and water flow rates allow unit to be configured for each application

Bosch Greentherm



- ▶ Energy factor to 0.95
- ▶ Active bypass for temperature stability
- ▶ Approved for ½" gas line
- ▶ Multiple venting options

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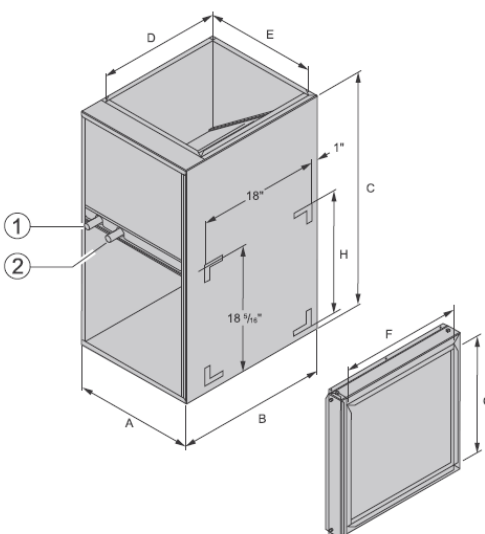
Models and Performance

AIR HANDLER UNIT 50*													
CFM SETTING	Water Heater GPM	120°F WH set point			130°F WH set point			140°F WH set point			160°F WH set point		
		BTU Output	Exiting Air Temp °F	Return Water Temp °F	BTU Output	Exiting Air Temp °F	Return Water Temp °F	BTU Output	Exiting Air Temp °F	Return Water Temp °F	BTU Output	Exiting Air Temp °F	Return Water Temp °F
LOW 600	1	17,200	96.5	85.6	21,900	103.8	86.2	25,600	109.5	88.8	33,100	121.1	93.8
	2	23,800	106.7	96.2	28,600	114.1	101.4	33,500	121.7	106.5	43,300	136.8	116.7
	3	25,800	109.8	102.8	31,000	117.8	109.3	36,300	126.0	115.8	46,800	142.2	128.8
MED 800	1	19,600	92.7	80.8	23,900	97.7	82.2	27,900	102.3	84.2	36,100	111.8	87.7
	2	28,000	102.4	92.0	33,800	109.1	96.2	39,500	115.7	100.5	51,100	129.1	108.9
	3	31,500	106.5	99.0	37,900	113.9	104.7	44,300	121.1	110.5	57,200	136.2	121.9
HIGH 1000	1	19,600	88.1	80.8	24,300	92.5	81.4	28,800	96.7	82.4	37,900	105.1	84.2
	2	31,200	98.9	88.8	37,500	104.7	92.5	43,900	110.6	96.1	56,800	122.6	103.2
	3	36,000	103.3	96.0	43,400	110.2	101.1	50,700	116.9	106.2	65,600	130.7	116.2

AIR HANDLER UNIT 70*													
CFM SETTING	Water Heater GPM	120°F WH set point			130°F WH set point			140°F WH set point			160°F WH set point		
		BTU Output	Exiting Air Temp °F	Return Water Temp °F	BTU Output	Exiting Air Temp °F	Return Water Temp °F	BTU Output	Exiting Air Temp °F	Return Water Temp °F	BTU Output	Exiting Air Temp °F	Return Water Temp °F
LOW 1000	2	30,300	98.1	89.7	38,500	105.6	91.5	42,800	109.6	97.2	55,300	121.2	104.7
	3	35,200	102.6	96.5	42,400	109.3	101.7	49,700	116.0	106.9	64,200	129.4	117.2
	4	37,900	105.1	101.0	45,600	112.2	107.2	53,300	119.4	113.3	68,900	133.8	125.5
MED 1200	2	32,600	95.2	87.4	41,400	101.9	88.6	46,000	105.5	94.0	59,500	115.9	100.5
	3	38,900	100.0	94.4	46,800	106.1	98.8	54,800	112.3	103.5	70,900	124.7	112.7
	4	42,500	102.8	98.7	51,100	109.4	104.4	59,800	116.1	110.1	77,300	129.6	121.3
HIGH 1600	2	35,700	90.7	84.3	45,300	96.2	84.7	50,300	99.1	89.7	65,000	107.6	95.0
	3	44,300	95.6	90.5	53,400	100.9	94.4	62,500	106.2	98.3	80,900	116.8	106.0
	4	49,700	98.8	95.1	59,900	104.7	100.0	70,100	110.6	104.9	90,700	122.5	114.6

Air Handler Dimensions.

	AHU50 7736503820	AHU70 7736503821
A	17"	21 1/4"
B	23"	23"
C	35 1/2"	34 3/4"
D	20"	20"
E	12"	16"
F	18"	18"
G	13"	17"
H	10"	16"
1	Water in via 1/2" copper pipe	
2	Water out via 1/2" copper pipe	



Shown with an optional A/C coil for a complete heating, cooling and hot water comfort system .

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73H993030 08-16

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