AHU™
AIR HANDLER

AHU 800 AHU 1200
AHU1600 AHU 2000 LV

EXTREMELY QUIET OPERATION

NEW SIZES AVAILABLE

5 YEAR HEATING COIL WARRANTY

5 YEAR PARTS WARRANTY

MADE IN NORTH AMERICA

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IBC®

Quiet Efficient Technology

With our unique industry leading design and extremely quiet fan operation, the AHU will change the way you think about air handlers. Air distribution completely covers the heating coil for better heat transfer and energy efficiency. Say goodbye to the large, loud, and inefficient air handlers of the past and say hello to the IBC AHU.

INNOVATION

Interior

1. Hot Water Coil
2. Supply Water Temperature Sensor
3. Return Water Temperature Sensor
4. Transformer
5. Control Board
6. Temperature Sensor
7. Fan and Motor Assembly

Easy Installation

The AHU air handling appliance is designed for ducted heating and cooling. The appliance provides up to four mounting options for flexibility and ease of installation. Return air duct connections can be connected left, right, and bottom to suit the appliance's mounting position.

Quiet, Energy Efficient Heating

The AHU Air Handler pairs perfectly with any hot water heat source to allow for warm air heating throughout the building. With six position mounting and return air openings on the left, right, and bottom of the unit, the AHU has the flexibility to accommodate a wide range of application requirements.

HIGH EFFICIENCY

- High efficiency motor with variable speed (ECM) centrifugal fan
- High efficiency fin tube coil

EASY TO INSTALL & SERVICE

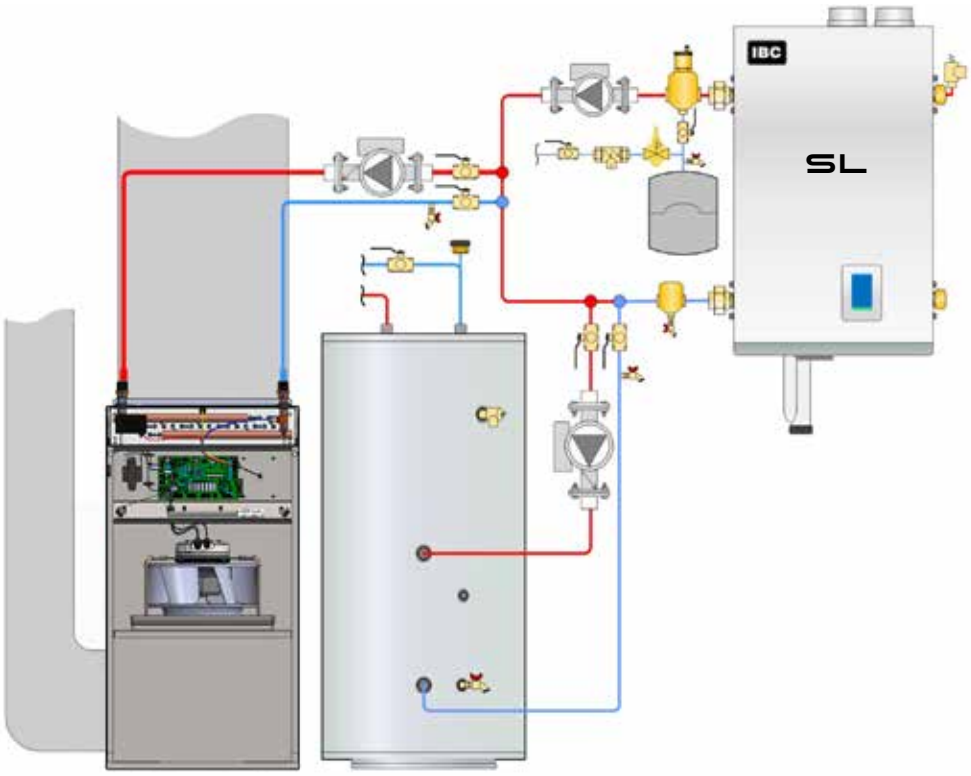
- Slide out fan assembly
- Multi-position configurations
- Industry standard duct sizes – supply air opening compatible with cased and uncased A/C and heat pump coils
- Compact design for those awkward spaces; the ability to orient horizontally or vertically
- Flexible electrical connection knock-outs on left and right sides

BUILT-IN FEATURES

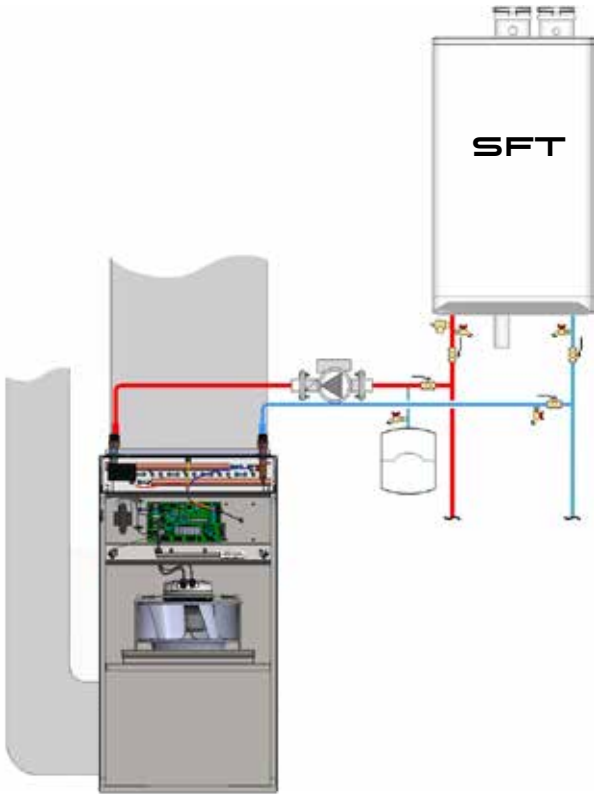
- Quiet operation
- Single stage or 2-stage heating and cooling
- Control for external pump (5A - 120V)
- Standard thermostat capable
- WiFi connection for programming with the IBC Connect mobile app
- Included - sensors for supply air, return air, supply water, return water, humidifier, dehumidifier, and frost protection
- Integrated air handling appliance
- Heat pump capable
- Maximum return air temperature 122°F (50°C)
- Lead-free coil for pairing with a tankless water heater

AHU - AIR HANDLER

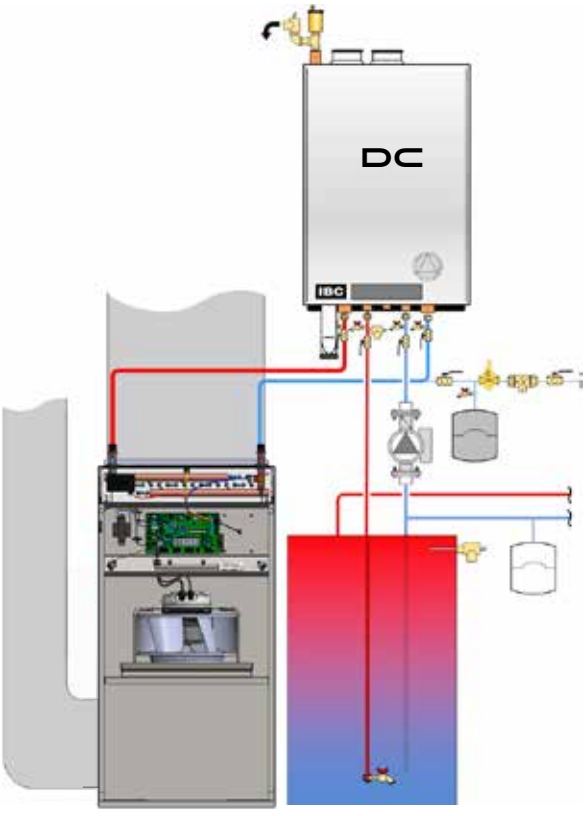
Application Drawings



SL Series boiler serving AHU for heating and indirect tank for DHW



Superflow SFT Tankless boiler serving AHU for heating and on-demand DHW



DC Combi unit serving AHU for heating and storage tank for DHW

AHU - AIR HANDLER

Heating Capacity

AHU 800 - HEATING CAPACITY (Entering Dry Bulb Temp 70°F) at 800 CFM					
Entering Water Temp.	3 GPM	4 GPM	5 GPM	6 GPM	7 GPM
185°F (85°C)	62.2 MBH	64.1 MBH	68.9 MBH	70.1 MBH	71.0 MBH
180°F (82°C)	59.4 MBH	61.3 MBH	65.8 MBH	67.0 MBH	67.9 MBH
170°F (77°C)	53.9 MBH	55.7 MBH	59.5 MBH	60.8 MBH	61.7 MBH
160°F (71°C)	48.4 MBH	50.1 MBH	53.3 MBH	54.6 MBH	55.5 MBH
150°F (66°C)	42.8 MBH	44.4 MBH	47.0 MBH	48.4 MBH	49.2 MBH
140°F (60°C)	37.3 MBH	38.8 MBH	40.7 MBH	42.3 MBH	43.0 MBH
130°F (54°C)	31.8 MBH	33.2 MBH	34.5 MBH	36.1 MBH	36.8 MBH
120°F (49°C)	26.2 MBH	27.5 MBH	28.2 MBH	29.9 MBH	30.5 MBH
110°F (43°C)	20.7 MBH	21.9 MBH	21.9 MBH	23.7 MBH	24.3 MBH

Heating Capacity rating at 800 scfm (standard cubic feet/minute) - AHU 800

AHU 1200 - HEATING CAPACITY (Entering Dry Bulb Temp 70°F) at 1200 CFM					
Entering Water Temp.	3 GPM	4 GPM	5 GPM	6 GPM	7 GPM
185°F (85°C)	63.7 MBH	67.7 MBH	70.6 MBH	71.7 MBH	73.0 MBH
180°F (82°C)	60.9 MBH	64.7 MBH	67.5 MBH	68.6 MBH	69.8 MBH
170°F (77°C)	55.3 MBH	58.8 MBH	61.4 MBH	62.4 MBH	63.5 MBH
160°F (71°C)	49.7 MBH	52.9 MBH	55.2 MBH	56.2 MBH	57.2 MBH
150°F (66°C)	44.4 MBH	46.9 MBH	49.1 MBH	50.0 MBH	50.8 MBH
140°F (60°C)	38.4 MBH	41.0 MBH	42.9 MBH	43.8 MBH	44.5 MBH
130°F (54°C)	32.8 MBH	35.0 MBH	36.8 MBH	37.6 MBH	38.2 MBH
120°F (49°C)	27.2 MBH	29.1 MBH	30.6 MBH	31.4 MBH	31.8 MBH
110°F (43°C)	21.6 MBH	23.2 MBH	24.5 MBH	25.2 MBH	25.5 MBH

Heating Capacity rating at 1200 scfm (standard cubic feet/minute) - AHU 1200

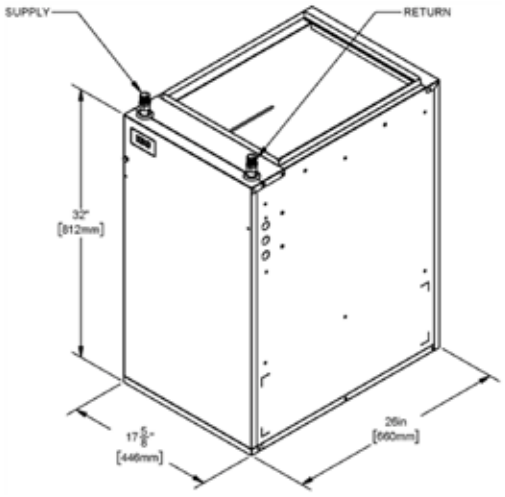
AHU 1600 - HEATING CAPACITY (Entering Dry Bulb Temp 70°F) at 1600 CFM					
Entering Water Temp.	3 GPM	4 GPM	5 GPM	6 GPM	7 GPM
185°F (85°C)	65.4 MBH	69.5 MBH	74.6 MBH	76.8 MBH	77.7 MBH
180°F (82°C)	62.6 MBH	66.5 MBH	71.3 MBH	73.4 MBH	74.4 MBH
170°F (77°C)	57.0 MBH	60.5 MBH	64.8 MBH	66.7 MBH	67.7 MBH
160°F (71°C)	51.4 MBH	54.6 MBH	58.4 MBH	60.1 MBH	61.0 MBH
150°F (66°C)	45.8 MBH	48.6 MBH	51.9 MBH	53.4 MBH	54.2 MBH
140°F (60°C)	40.1 MBH	42.6 MBH	45.4 MBH	46.7 MBH	47.5 MBH
130°F (54°C)	34.5 MBH	36.6 MBH	38.9 MBH	40.0 MBH	40.8 MBH
120°F (49°C)	28.9 MBH	30.6 MBH	32.4 MBH	33.3 MBH	34.1 MBH
110°F (43°C)	23.3 MBH	24.7 MBH	25.9 MBH	26.6 MBH	27.4 MBH

Heating Capacity rating at 1600 scfm (standard cubic feet/minute) - AHU 1600

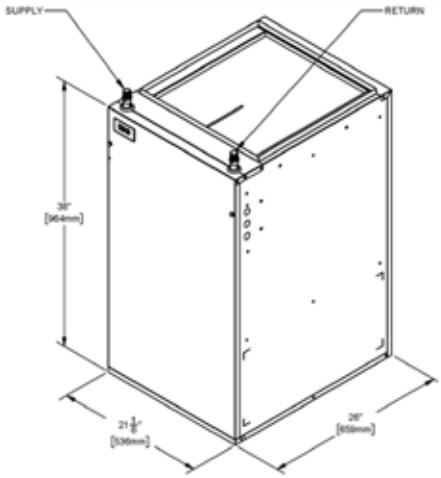
AHU 2000 LV - HEATING CAPACITY (Entering Dry Bulb Temp 70°F) at 2000 CFM					
Entering Water Temp.	3 GPM	4 GPM	5 GPM	6 GPM	7 GPM
185°F (85°C)	74.1 MBH	80.1 MBH	84.7 MBH	87.4 MBH	89.2 MBH
180°F (82°C)	71.0 MBH	76.6 MBH	81.0 MBH	83.6 MBH	85.3 MBH
170°F (77°C)	64.7 MBH	69.8 MBH	73.7 MBH	76.1 MBH	77.6 MBH
160°F (71°C)	58.5 MBH	63.0 MBH	66.3 MBH	68.6 MBH	69.9 MBH
150°F (66°C)	52.2 MBH	56.2 MBH	58.9 MBH	61.0 MBH	62.2 MBH
140°F (60°C)	45.9 MBH	49.4 MBH	51.6 MBH	53.5 MBH	54.4 MBH
130°F (54°C)	39.6 MBH	42.6 MBH	44.2 MBH	45.9 MBH	46.7 MBH
120°F (49°C)	33.4 MBH	35.8 MBH	36.8 MBH	38.4 MBH	39.0 MBH
110°F (43°C)	27.1 MBH	29.0 MBH	30.8 MBH	30.8 MBH	31.3 MBH

Heating Capacity rating at 1200 scfm (standard cubic feet/minute) - AHU 2000

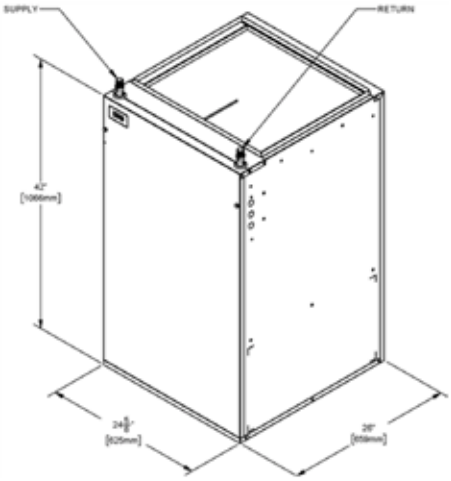
Dimensions



AHU 800 Front / Right*



AHU 1200 Front / Right*



AHU 1600 & 2000 Front / Right*

**See AHU Installation & Operating Manual for full dimension measurements.*

AHU - AIR HANDLER

Technical Information

SPECIFICATIONS	AHU 800	AHU 1200	AHU 1600	AHU 2000 LV
Max. Water Temperature	195°F (90°C)	195°F (90°C)	195°F (90°C)	195°F (90°C)
Min. Water Temperature	41°F (5°C)	41°F (5°C)	41°F (5°C)	41°F (5°C)
Coil Performance at 180°F, 5 GPM (BTU/Hr)	65, 800 BTU/Hr	67,500 BTU/Hr	71,300 BTU/Hr	81,000 BTU/Hr
Water Pipe Connections (inches)	3/4 MPT	3/4 MPT	3/4 MPT	3/4 MPT
External Static Pressure (WC) low/med/high	0.5/1.0/1.5	0.5/1.0/1.5	0.5/1.0/1.5	0.5
Min. Operating Water Pressure	8 PSI / 55 kPa	8 PSI / 55 kPa	8 PSI / 55 kPa	8 PSI / 55 kPa
Max. Operating Water Pressure	150 PSI / 1 MPa	150 PSI / 1 MPa	150 PSI / 1 MPa	150 PSI / 1 MPa
Max. Water Flow	7 gpm / 26.5 LPM	7 gpm / 26.5 LPM	7 gpm / 26.5 LPM	7 gpm / 26.5 LPM
Width (inches)	17.5	21	24.6	24.6
Depth (inches)	26	26	26	26
Height (inches)	32	38	42	42
Supply Air Opening Width (inches)	16	19.6	23	23
Supply Air Opening Depth (inches)	19.6	19.6	19.6	19.6
Side Return Air Opening Height (inches)	7	10.5	13	13
Side Return Air Opening Depth (inches)	23	23	23	23
Bottom Return Air Opening Width (inches)	13	10.5	14	14
Bottom Return Air Opening Depth (inches)	23	23	23	23
Voltage	120 V	120 V	120 V	120 V
Max. Overcurrent Protective Device (Circuit Breaker)	15 A	15 A	15 A	15 A
Fan Motor Rated Input Current (120 V)	2.7 A	2.7 A	2.6 A	2.6 A
Relay Contact Rating - External Pump (120 V)	4.4 A	4.4 A	4.4 A	4.4 A
Approved Installation Altitude (Above Sea Level)	0-12,000'	0-12,000'	0-12,000'	0-12,000'
Max. Return Air Temperature	122°F (50°C)	122°F (50°C)	122°F (50°C)	122°F (50°C)
Certification for Low Lead NSF 372	Yes	Yes	Yes	Yes
Weight (Boxed)	98 lb	111 lb	130 lb	130 lb

All information contained in this brochure is subject to change without notice.
Due to clerical error, regulation change or product development please confirm all information with IBC.

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