

AHU™

AIR HANDLER

HEATING & COOLING

AHU 1200 HC
AHU 2000 HC



All-In-One Hydronic Comfort - No Refrigerants Indoors - No Certification Required

When paired with IBC's HPX air-to-water heat pump, the AHU HC Air Handler is a compact, **all-in-one solution** that delivers hydronic **heating and cooling**—eliminating the need for separate furnaces and AC coils. It provides efficient, refrigerant-free indoor comfort without requiring refrigerant certification. Designed for easy installation, the dedicated upflow design reduces labor costs and expands access to more trades. It's compatible with DX refrigeration systems for traditional setups and integrates smoothly into existing ductwork—ideal for retrofits and new builds. Radiant heating upgrades are also supported.



- **Heating & Cooling In One:** Compact hydronic system replaces furnace, AC coil, and condenser. Operates in heating & cooling, heating only, or cooling only modes.
- **Refrigerant-Free Indoors:** Keeps all refrigerants outside the home for safer, cleaner indoor air.
- **No Certification Needed:** Installs easily without requiring an EPA 608 certification, saving time and cost.
- **Optimized for IBC HPX Heat Pumps:** Seamlessly integrates with IBC's air-to-water heat pump for efficient, all-season comfort.
- **Quiet, Efficient Operation:** Offers low-noise performance and high energy efficiency for a better home experience.

THE SMART CHOICE FOR
HEATING & COOLING

IBC®

AHU HC - AIR HANDLER

Technical Information



SPECIFICATIONS	AHU 1200 HC	AHU 2000 HC
Airflow Capacity @ 0.5" Static Pressure	1200 CFM	2000 CFM
Heating Output at 180°F @ 5GPM (82°C @ 19 LPM)	77,600 Btu/hr	102,300 Btu/hr
Heating Output at 120°F @ 5GPM (49°C @ 19 LPM)	34,400 Btu/hr	45,500 Btu/hr
Heating Output at 45°F @ 5GPM (7°C @ 19 LPM)	36,500 Btu/hr	36,200 Btu/hr
Max. Water Flow	8 GPM (30 LPM)	10 GPM (38 LPM)
Head Loss on Coil (@ Max. Flow)	7.7 ft.	10.8 ft.
Max. Water Temperature	180°F (82.2°C)	180°F (82.2°C)
Min. Water Temperature	41°F (5°C)	41°F (5°C)
Max. Return Air Temperature	122°F (50°C)	122°F (50°C)
Min. Return Air Temperature (w/ Glycol)	-13°F (-25°C)	-13°F (-25°C)
Water Pipe Connections	3/4" MPT	3/4" MPT
Total External Static Pressure	Low (default)	0.50" W.C.
	Medium	1.0" W.C.
	High	1.5" W.C.
Min. Operating Water Pressure	8 psi (55 kPa)	8 psi (55 kPa)
Max. Operating Water Pressure	150 psi (1 MPa)	150 psi (1 MPa)
Width	18" (45.7 cm)	18" (45.7 cm)
Depth	29" (73.7 cm)	29" (73.7 cm)
Height	48" (121.9 cm)	56" (142.2 cm)
Supply Air Opening Width	16 1/8" (121.9 cm)	19 5/8" (49.9 cm)
Supply Air Opening Depth	19 5/8" (49.9 cm)	19 5/8" (49.9 cm)
Side Return Air Opening Height	11" (27.9 cm)	11" (27.9 cm)
Side Return Air Opening Width	23 3/8" (59.4 cm)	23" (58.4 cm)
External Pump Supply (120 Volts)	4.4 A	4.4 A
Recommended Circuit Breaker Rating	15 A	15 A
Voltage	120 V	120 V
Boxed Weight	145 lb (66 kg)	175 lb (79 kg)
Max. Altitude (above sea level)	12,000 ft. (3,660 m)	12,000 ft. (3,660 m)
Certification for Low Lead NSF 372	Yes	Yes

Entering Water Temp.	COOLING CAPACITY				
	3 GPM (MBH)	4 GPM (MBH)	5 GPM (MBH)	6 GPM (MBH)	7 GPM (MBH)

AHU 1200 HC - Entering Dry Bulb Temperature 80°F @ 1200 CFM

45°F (7°C)	21.5	25.0	25.9	26.9	29.0
50°F (10°C)	17.5	19.5	20.7	22.5	23.2
55°F (13°C)	14.9	16.8	18.7	19.3	20.1

AHU 1200 HC - Entering Dry Bulb Temperature 70°F @ 2000 CFM

45°F (7°C)	29.5	32.1	34.4	34.7	35.8
50°F (10°C)	25.4	27.5	29.4	30.8	30.9
55°F (13°C)	22.7	24.1	25.4	26.9	26.9

Entering Water Temp.	HEATING CAPACITY				
	3 GPM (MBH)	4 GPM (MBH)	5 GPM (MBH)	6 GPM (MBH)	7 GPM (MBH)

AHU 1200 HC - Entering Dry Bulb Temperature 70°F @ 1200 CFM

180°F (82°C)	67.3	75.4	77.7	82.1	84.7
170°F (77°C)	60.6	67.5	70.3	74.7	77.2
160°F (71°C)	53.9	60.3	63.3	68.2	69.3
150°F (66°C)	47.7	53.3	55.8	60.3	61.2
140°F (60°C)	41.0	46.9	49.5	53.0	53.3
130°F (54°C)	35.2	40.8	42.0	45.4	45.5
120°F (49°C)	28.9	33.9	34.4	36.4	37.8
110°F (43°C)	22.8	28.0	28.2	30.1	30.8

AHU 1200 HC - Entering Dry Bulb Temperature 70°F @ 2000 CFM

180°F (82°C)	85.5	95.5	102.3	106.7	110.8
170°F (77°C)	77.3	86.9	94.6	97.1	101.5
160°F (71°C)	66.8	79.2	83.5	87.4	90.2
150°F (66°C)	60.5	70.6	74.8	76.6	80.2
140°F (60°C)	52.8	60.9	64.5	67.2	70.0
130°F (54°C)	43.2	52.0	57.1	57.9	58.7
120°F (49°C)	37.2	43.6	45.5	47.1	48.7
110°F (43°C)	29.0	33.5	36.6	36.6	38.2

AHU-HC COIL HEAT LOSS - 180°F (82°C)

	3 GPM	4 GPM	5 GPM	6 GPM	7 GPM	8 GPM	9 GPM	10 GPM
AHU 1200 HC Pressure Drop	1.2 ft.	2.1 ft.	3.2 ft.	4.5 ft.	6.0 ft.	7.7 ft.	--	--
AHU 2000 HC Pressure Drop	1 ft.	1.8 ft.	2.8 ft.	4 ft.	5.4 ft.	7 ft.	8.8 ft.	10.8 ft.



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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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