



HEU4 Series Chilled Water Cooling with Hot Water Heat Uncased Horizontal Ceiling Mount Air Handler

Standard Features

- High performance dual constant torque blower design.
- Hot Water heat models supply voltage is 115/1/60.
- Space saving ceiling mount design.
- Galvanized steel blower wheels and housings.
- Pre-wired for cooling, heating and heat pump operation.
- Hydronic control board with built-in water pump cycle timer that cycles the water pump every 6 hours for 60 seconds.
- Water pump is factory installed on these units.
- Freeze protection switch is installed on these units.
- Standard control transformer is 115 VAC primary/ 24 VAC secondary/ 40 VA.
- Secondary circuit of the transformer is grounded per UL60335-2-40 requirements.
- Meets ASHRAE standard 193 low leak requirements.
- Primary and secondary condensate pan drain connections.
- Easy access for service and maintenance.
- High efficiency copper tube and aluminum fin coils.
- Unit can be configured as hot water heat with chilled water cooling using one coil for hot water heat and a second coil for chilled water cooling, (4 Pipe), Refer to the tables in the specification sheet or installation manual for more details.

HEU4 Series Chilled Water Cooling with Hot Water Heat

Description:

Uncased Horizontal Ceiling Mount Air Handler

The HEU4 Series horizontal fan coil series is designed for horizontal mounting into a furred down ceiling. This space saving HEU4 series handles up to 1200 CFM of air movement. Chilled water cooling capacities from 20,469 to 36,279 BTU/H, depending on chilled water temperature and water pump GPM. Hot water heat capacity from 6,516 to 55,260 BTU/H, depending on entering water temperature and water pump GPM. Refer to the chilled water and Hot water tables in the installation manual or specification guides. The HEU4 Series are rated for 115/1/60. These units are ETL listed.

Unit Information Table

Model No.	Nominal Chilled Water Cooling Capacity in BTU/H @ 80°F/67°F/45°F (Total Heat)	No. of Rows	GPM	Blower Code	Indoor Motor HP	Voltage/ PH/ HZ	Water Pump Amps	Minimum Circuit Ampacity	Maximum Overcurrent Protection	CFM Range @ 0.2 ESP
HEU418*AA	20,469	2	3.8	N	0.33	115/1/60	0.52	2.69	15	485-857
HEU424*BA	22,891	2	4.4	O	0.33	115/1/60	0.52	2.74	15	486-854
HEU435*BA	40,174	3	7.8	R	0.5	115/1/60	0.52	5.2	15	834-1253
HEU430*CA	40,469	3	8.0	R	0.5	115/1/60	0.52	4.71	15	845-1261
HEU436*DA	46,642	3	9.8	R	0.5	115/1/60	0.52	4.48	15	837-1252

Dimensional Data

Model Number	Chilled Water Line	Hot Water Line	A	B	C
HEU418*AC	(2) 5/8	(2) 5/8	37	34.25	30
HEU424*BC	(2) 5/8	(2) 5/8	45	42.25	38
HEU430*CC	(2) 5/8	(2) 5/8	49	46.25	42
HEU436*DC	(2) 5/8	(2) 5/8	56	53.25	49

Hot Water Heat Table

Model No.	Heating Capacities						Heating GPM	Press Drop FT-WTR	Voltage VAC/PH/Hz
	130°F	140°F	150°F	160°F	170°F	180°F			
HEU418*AA	19,041	22,511	25,599	28,904	32,222	35,552	3.0	2.8	115/1/60
HEU424*BA	22,192	25,970	29,763	33,568	37,384	41,208	3.0	0.18	115/1/60
HEU430*BA	25,137	29,452	33,790	38,148	42,524	46,914	3.0	3.4	115/1/60
HEU436*CA	26,258	30,755	35,275	39,813	44,368	48,937	3.0	2.8	115/1/60
HEU430*DA	27,985	32,763	37,561	42,377	47,206	52,048	3.0	0.21	115/1/60

Factory Installed Options

- Louvered access panel.
- Non-louvered access panel

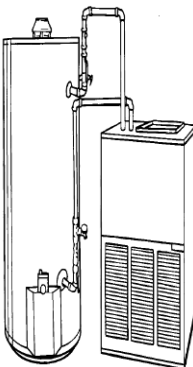
Field Installed Options

- Louvered or non-louvered ceiling access panels.

Field Connections

3/4" Male Drain – Primary
 3/4" Male Drain – Secondary
 9/16" Thermostat Cable

Hot Water Heat configuration with a Hot Water Tank



Clearance to Combustibles

Top (in)	Back (in)	Sides (in)	Supply Duct (in)
0	0	0	0

Air Filter Sizes

Model	Filters
HCPL-1	(2) 16x16x1
HCPL-2	(2) 16x20x1
HCPL-3	(2) 16x25x1
HCPL-4	(2) 16x25x1

Discharge Opening

Model	Opening (in)
HEU418*AC	30.25 x 7.50
HEU424*BC	38.25 x 7.50
HEU430*CC	42.25 x 7.50
HEU436*DC	49.25 x 7.50

Physical Dimensions

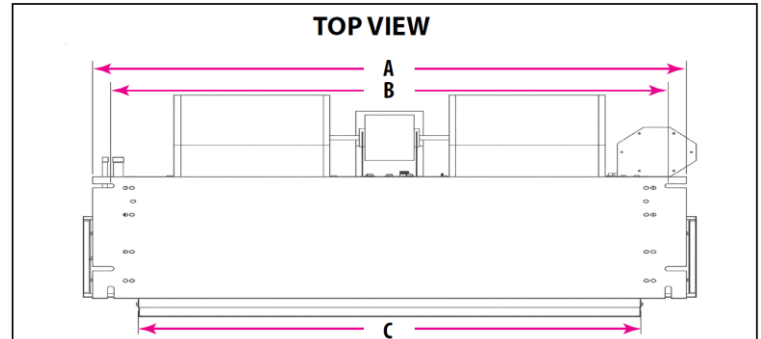


Figure 7: HEU Dimensions - Top View

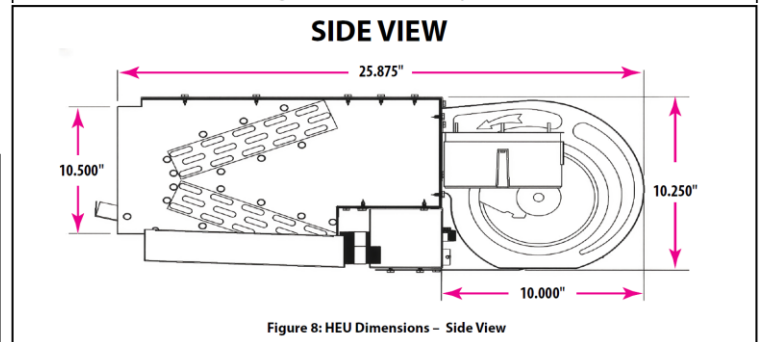


Figure 8: HEU Dimensions - Side View

Louvered Ceiling Panels



Louvered Ceiling Panel Information

Part No.	Overall frame Dimension	Type	SunTherm Horizontal Fan Coil Models
HCPL-1	27.5 x 43	Louvered	HEU118*AC
HCPL-2	27.5 x 49	Louvered	HEU124*BC
HCPL-3	27.5 x 55.5	Louvered	HEU130*CC
HCPL-4	27.5 x 62.5	Louvered	HEU136*DC
CPNL-1	27.5 x 43	Non-Louvered	HEU118*AC
CPNL-2	27.5 x 49	Non-Louvered	HEU124*BC
CPNL-3	27.5 x 55.5	Non-Louvered	HEU130*CC
CPNL-4	27.5 x 62.5	Non-Louvered	HEU136*DC

