



HEC2 Series DX Cooling with Hot Water Heat

Cased Horizontal Ceiling Mounted Air Handler

Standard Features

- High performance dual constant torque blower design.
- Electric heat models supply voltage is 208/240/1/60.
- High efficiency AC “A” coil design.
- 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 UL60335-2-40; A2L RDS requirements with R-32 or R-454B TXV's
- Refrigerant leak detection and mitigation system
- 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.

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Description:

The HEC2 Series horizontal fan coil series is designed for horizontal mounting into a furred down ceiling. This space saving HEC2 series handles up to 1200 CFM of air movement, up to 3 tons of cooling, and up to 6,516 to 55,260 BTU/H hot water capacity. For cooling requirements, these units are designed to match with most brands of AC condensing units. The HEC2 Series are rated for 115/1/60. These units are ETL listed.

Unit Information Table

Model No.	Nominal Cooling Tons	Blower Code	Indoor Motor HP	Voltage/ PH/ HZ	Water Pump Amps	Minimum Circuit Ampacity	Maximum Overcurrent Protection	CFM Range @ 0.2 ESP
HEC218*AA	1.5 - 2.0	N	0.33	115/1/60	0.52	2.69	15	485-857
HEC224*BA	1.5 - 2.5	O	0.33	115/1/60	0.52	2.74	15	486-854
HEC230*BA	1.5 - 2.5	R	0.5	115/1/60	0.52	5.2	15	834-1253
HEC236*CA	1.5 - 3.0	R	0.5	115/1/60	0.52	4.71	15	845-1261
HEC230*DA	1.5 - 3.0	R	0.5	115/1/60	0.52	4.48	15	837-1252

Dimensional Data

Model Number	A	B	C	D	R	F	G
HEC218*AC	41	3.125	7.625	4	3	5.875	3.1875
HEC224*BC	47	2.125	6	3	2	4.75	2.125
HEC230*CC	53.5	3.50	8.5	4.25	3.25	6	3.5
HEC236*DC	60.5	3.50	12	4.25	3.25	6	3.5

Hot Water Data

Model No.	Heating Capacities						Heating g GPM	Press Drop FT.	Voltage VAC/PH/
	130°F	140°F	150°F	160°F	170°F	180°F			
HEC218*AA	19,041	22,511	25,599	28,904	32,222	35,552	3.0	2.8	115/1/60
HEC224*BA	22,192	25,970	29,763	33,568	37,384	41,208	3.0	0.18	115/1/60
HEC230*BA	25,137	29,452	33,790	38,148	42,524	46,914	3.0	3.4	115/1/60
HEC236*CA	26,258	30,755	35,275	39,813	44,368	48,937	3.0	2.8	115/1/60
HEC230*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
- Thermostatic expansion valve. Expansion valves are suitable for both AC and Heat Pump applications.

Field Installed Options

- Louvered or non-louvered ceiling access panels.

Field Connections

3/4" Male Drain Connection – Primary
 3/4" Male Drain Connection – Secondary
 9/16" Thermostat Cable Connection
 3/8" Liquid Line
 3/4" Suction line

Air Filter Sizes

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

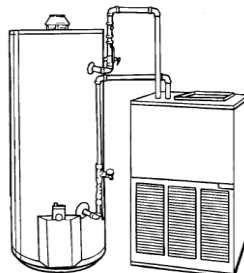
Discharge Opening

Model	Opening (in)
HEC218*AC	30.25 x 7.50
HEC224*BC	38.25 x 7.50
HEC230*CC	42.25 x 7.50
HEC236*DC	49 x 7.50

Rear Return Knock Out Opening

Model	Opening (in)
HEC218*AC	30.875 x 7.25
HEC224*BC	38.375 x 7.50
HEC230*CC	42.375 x 7.50
HEC236*DC	49.375 x 7.50

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

Physical Dimensions

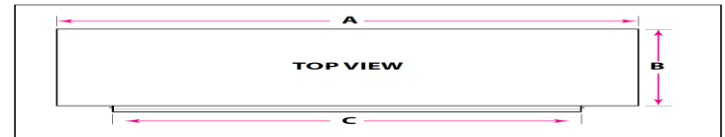


Figure 1: HEC Dimensions - Top View

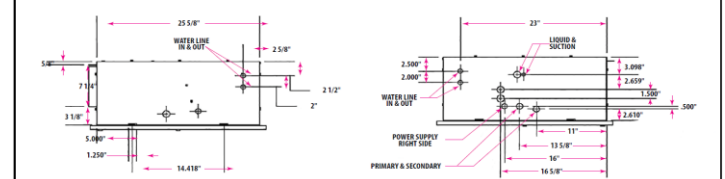


Figure 2: HEC Dimensions - Side Views

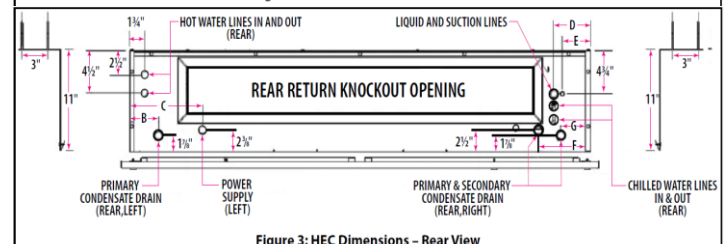


Figure 3: HEC Dimensions - Rear View

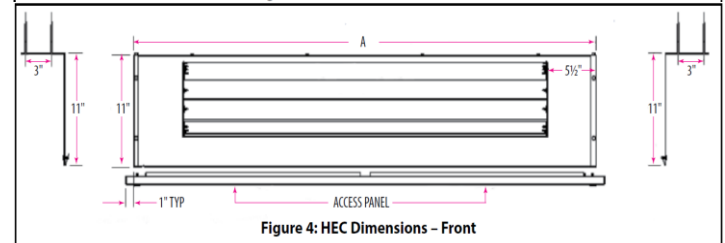
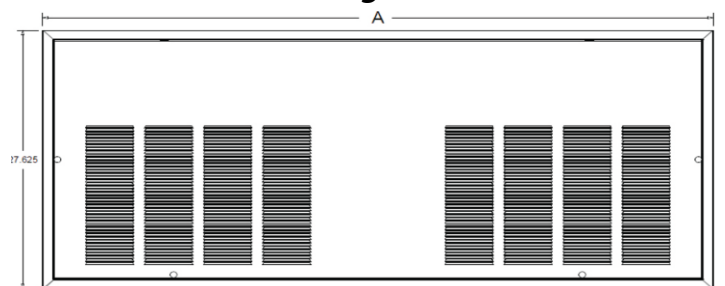


Figure 4: HEC Dimensions - Front

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

