



HEC3 Series Chilled Water Cooling with Electric Heat Cased Horizontal Ceiling Mount 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.
 - Standard control transformer is 208/240 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 follows:
 - a. Electric heat with chilled water cooling, or
 - b. Hot water heat with chilled water cooling using the same coil (2 Pipe) and one of the following:
 - 1. Use a 2-pipe system for modulating heating or cooling.
 - 2. Use a 3-way valve to switch from hot water heating to chilled water cooling.
- Refer to the tables in the specification sheet or installation manual for more details.

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Description:

The HEC3 Series horizontal fan coil series is designed for horizontal mounting into a furred down ceiling. This space saving HEC3 series handles up to 1200 CFM of air movement. 20,469 to 36,279 BTU/H chilled water cooling, and up to 10 kW of electric heat. The HEC3 Series are dual rated for 208/240/1/60. These units are ETL listed.. Refer to the chilled water tables in the installation manual or the specification guide for more information.

Unit Information Table

Model No.	Nominal Chilled Water Cooling Capacity in BTU/H @ 80°F/67°F/45°F 3.0 GPM	KW	Blower Code	Voltage/ PH/ HZ	Thermostat Voltage/ PH / HZ	Max. External Duct Pressure (inwc)
HEC318	18,100	0-10	-1C80	208/240/1/60	24/1/60	0.3
HEC324	20,400	0-10	-1C80	208/240/1/60	24/1/60	0.3
HEC330	24,500	0-10	-1C81	208/240/1/60	24/1/60	0.3
HEC336	28,000	0-10	-1C81	208/240/1/60	24/1/60	0.3

Dimensional Data

Model Number	A	B	C	D	R	F	G
HEC318*AC	41	3.125	7.625	4	3	5.875	3.1875
HEC324*BC	47	2.125	6	3	2	4.75	2.125
HEC330*CC	53.5	3.50	8.5	4.25	3.25	6	3.5
HEC336*DC	60.5	3.50	12	4.25	3.25	6	3.5

Factory Installed Options

- Louvered access panel.
- Non-louvered access panel
- Heat Pump applications with electric heat require an electric heat lockout switch – 24V.

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, (2) 2/8" Chilled Water

Clearance to Combustibles

Electric Heat Table

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)
HEC118*AC	30.25 x 7.50
HEC124*BC	38.25 x 7.50
HEC130*CC	42.25 x 7.50
HEC136*DC	49.25 x 7.50

Rear Return Knock Out Opening

Model	Opening (in)
HEC118*AC	30.875 x 7.25
HEC124*BC	38.375 x 7.50
HEC130*CC	42.375 x 7.50
HEC136*DC	49.375 x 7.50

Unit Information			Electric Heat			
Model No.	Nom CFM	Nominal Cooling	kw	BTU/H	Total Amps	Fuse Size
HEC318	600	18,000	0	0	2	15
			3	10,236	13	20
			5	17,061	21	30
			6	20,473	25	35
			8	27,297	33	50
			10	34,121	42	60
HEC324	800	24,000	0	0	3	15
			3	10,236	13	20
			5	17,061	21	30
			6	20,473	25	35
			8	27,297	33	50
			10	34,121	42	60
HEC330	1,000	24,000	0	0	4	15
			3	10,236	13	20
			5	17,061	21	30
			6	20,473	25	35
			8	27,297	33	50
			10	34,121	42	60
HEC336	1,200	36,000	0	0	4	15
			3	10,236	13	20
			5	17,061	21	30
			6	20,473	25	35
			8	27,297	33	50
			10	34,121	42	60

Physical Dimensions

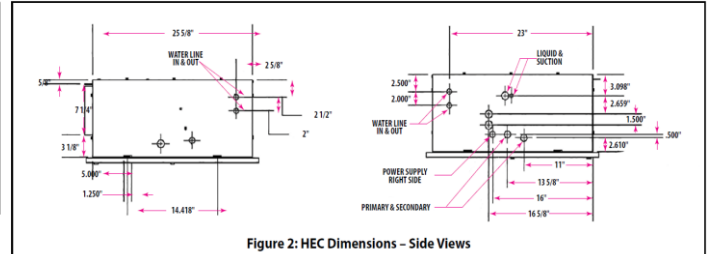


Figure 2: HEC Dimensions - Side Views

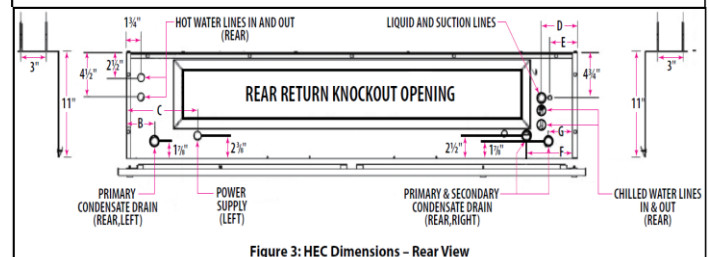


Figure 3: HEC Dimensions - Rear View

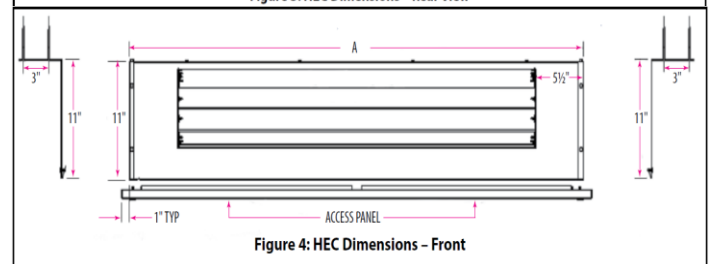


Figure 4: HEC Dimensions - Front

Louvered Ceiling Panels



Part No.	Overall frame Dimension	Type	SunTherm Horizontal Air Handler Models	Ship Wt.
CPL1	27.5 x 43	Louvered	SEHX-18, SEHX-19,	18
CPNL1	27.5 x 43	Non-Louvered	SEHX-24	18
CPL2	27.5 x 49	Louvered	SEHX-25, SEHX-30,	20
CPNL2	27.5 x 49	Non-Louvered	SEHX-31	20
CPL3	27.5 x 55.5	Louvered	SEHX-34, SEHX-35	21
CPNL3	27.5 x 55.5	Non-Louvered		21
CPL4	27.5 x 62.5	Louvered	SEHX-36, SEHX-37	22
CPNL4	27.5 x 62.5	Non-Louvered		22

