



SCWE Series Chilled Water Cooling with Electric Heat Uncased 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 slab AC 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.

SCWE Series Chilled Water Cooling with Electric Heat

Description:

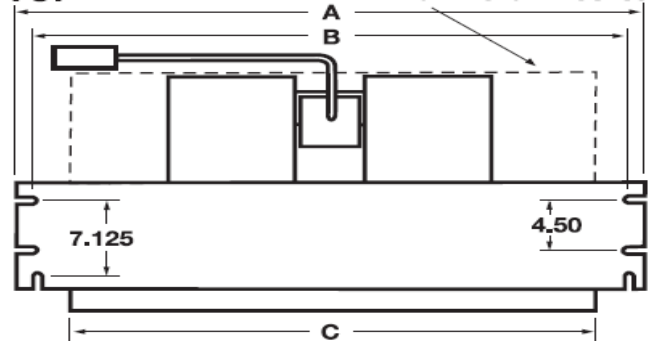
Uncased Horizontal Ceiling Mount Air Handler

The SCWE Series horizontal fan coil series is designed for horizontal mounting into a furred down ceiling. This space saving SCWE series handles up to 1150 CFM of air movement. 14,700 to 48,500 BTU/H chilled water cooling, and up to 10 kW of electric heat. The SCWE 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)
SCWE - 18	18,100	0-10	-1C80	208/240/1/60	24/1/60	0.3
SCWE - 19	21,500	0-10	-1C80	208/240/1/60	24/1/60	0.3
SCWE - 24	20,400	0-10	-1C80	208/240/1/60	24/1/60	0.3
SCWE - 25	24,700	0-10	-1C81	208/240/1/60	24/1/60	0.3
SCWE - 30	24,500	0-10	-1C81	208/240/1/60	24/1/60	0.3
SCWE - 31	29,600	0-10	-1C81	208/240/1/60	24/1/60	0.3
SCWE - 34	22,900	0-10	-1C81	208/240/1/60	24/1/60	0.3
SCWE - 35	31,900	0-10	-1C81	208/240/1/60	24/1/60	0.3
SCWE - 36	28,000	0-10	-1C81	208/240/1/60	24/1/60	0.3
SCWE - 37	33,400	0-10	-1C81	208/240/1/60	24/1/60	0.3

Physical Dimensions



Dimensional Data

Model Number	Liquid Line	Suction line	Evap. Rows	A	B	C	Ship Wt.
SCWE - 18	3/4	3/4	4	37	34.25	30	60
SCWE - 19	3/4	3/4	5	37	34.25	30	65
SCWE - 24	3/4	3/4	4	37	34.25	30	60
SCWE - 25	3/4	3/4	5	37	34.25	30	65
SCWE 30	3/4	3/4	4	45	42.25	38	70
SCWE - 31	3/4	3/4	5	45	42.25	38	75
SCWE - 34	3/4	3/4	4	49	46.25	42	74
SCWE - 35	3/4	3/4	5	49	46.25	42	80
SCWE - 36	3/4	3/4	4	56	53.25	49	85
SCWE - 37	3/4	3/4	5	56	53.25	49	90

Factory Installed Options

- Louvered access panel.
- Non-louvered access panel
- Thermostatic expansion valves are suitable for both AC and Heat Pump applications.
- Heat Pump applications with electric heat require an electric heat lockout switch – 24V.

Field Installed Options

- Louvered or non-louvered ceiling access panels.

Clearance to Combustibles

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

Electric Heat Table

Model No.	Nom CFM	Nominal Cooling	kw	BTU/H	Total Amps	Fuse Size
SCWE - 18/19	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
SCWE - 24	800	24,000	10	34,121	42	60
			0	0	3	15
			3	10,236	13	20
			5	17,061	21	30
			6	20,473	25	35
SCWE - 25/30/31	1,000	24,000	8	27,297	33	50
			10	34,121	42	60
			0	0	4	15
			3	10,236	13	20
			5	17,061	21	30
SCWE - 34/35	1,100	35,000	6	20,473	25	35
			8	27,297	33	50
			10	34,121	42	60
			0	0	4	15
			3	10,236	13	20
SCWE - 36/37	1,200	36,000	5	17,061	21	30
			6	20,473	25	35
			8	27,297	33	50
			10	34,121	42	60
			0	0	4	15

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

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)
18/24	30 x 7.25
30	38 x 7.25
34/35	42 x 7.25
36/37	49 x 7.25

