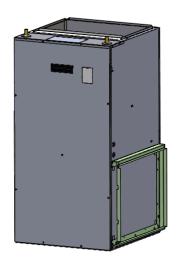
## Rinnai

DIMENSIONS

14.38 (365)

Measurements: in. (mm)



- 18.5 (470) -

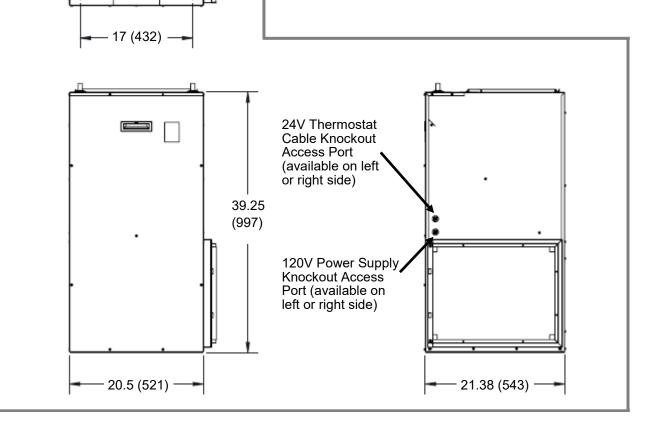
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## HYDRONIC AIR HANDLER SPECIFICATION CAH050E, CAH050CE

- Model with External Circulation Pump Included: CAH050CE
- Model without External Circulation Pump Included: CAH050E

Works with the Following Rinnai Products:	<ul> <li>Rinnai Tankless Water Heaters:</li> <li>SENSEI™ SE+ Series (RU Condensing Models)</li> </ul>				
	Tankless water heaters must have a minimum input rate of 160,000 Btu/hr.				
	Rinnai Boilers:				
	<ul> <li>I-Series (Condensing) Combi Models The output of the boiler must exceed the capacity of the air handler in use (the boiler Btu/hr rating must be greater than the air handler Btu/hr rating).</li> </ul>				
Configurations	<ul> <li>Vertical: Upflow with bottom, back, or side (left or right side) return</li> </ul>				
	<ul> <li>Horizontal: Upflow with bottom, back, or side (left or right side) return</li> </ul>				
Accessory	Domestic Priority Switch (Part #: REU-OPU3)				





TECHNIC	AL SPE	CIFICATIC	NS							
Model					CAH050E		CAH050CE			
Appliance	Appliance Type			Hydronic Air Handler (without circulation pump) Hydronic Air Handler (with external circulation pump)					ller n pump)	
Installation	Туре			Indoor						
Suitable for Potable Water Systems				Yes						
Configurations				Multi-position						
Circulation Pump Included				No Yes						
Product Weight - lbs (kg) approximate				100 (45.5), Shipped: 120 (54.5) 105 (47.6), Shipped: 125 (56.7)						
Construction				Cabinet: 22 Gauge powder coated steel Inner panels: 22 Gauge galvanized steel Insulation: 1/2 in. inside blower compartment and door						
Nominal CFM (Cubic Feet/Minute)				1600 up to 0.7 in. W.C., 1200 up to 1.2 in. W.C.						
Nominal Output Btu/hr at 140°F <sup>1</sup>				50,000						
Nominal Cooling Capacity				1-4 Tons						
Rated Voltage				120 V, 60 Hz, 1 Ph Motor: - 9.6A FLA, Pump 3A max 15A MOA, 20A MOP						
Blower Motor Type				ECM fully variable						
Coil Material				Copper Coil, Aluminum Fins						
		epower (HP	')	3/4						
Water Con			,	1/2 in. Sweat						
Control Board				<ul> <li>Factory Installed</li> <li>Thermostat connections</li> <li>5-second time delay for blower activation for heating</li> <li>Pump timer circulates water for one minute every 24 hours to prevent stagnation of water in the system (default)</li> </ul>						
		ncy Rating	(TPF)	0.88 with RU160i tankless water heater						
Certificatio	ons			CSA 22.2 No 236, UL-1995, NSF 372 (Hydronic coil)						
Refer to the tables in sections 3.8.4 and 3.8.5 of the Canadian Air Handler Installation and Operation Manual for specific BTU output.										
Rinnai produ	uctsared	continually b	peing update	ed and improved	d; therefore, spe	ecifications are sul	oject to change	without prior noti	ce.	
WATERH	EATING	GAPACIT	Y							
Engine		Entering Water		75% 100% Maximum Equivalent Pi				uivalent Piping Di	ng Distance (ft)	
Engine	Temperature (°F)		(800CFM)	(1200 CFM)	(1600 CFM)	Flow (GPM)	Sensei	I-Serie	es	
Sensei		120	26,600	34,700	41,400	2	200	200		
I-Series		120	28,500	38,400	44,600	3	150	150		
Sensei		140	37,500	49,100	57,400					
<b>I-Series</b>		140	39,100	54,900	64,100					
Sensei		100	47,600	61,600	72,400					
I-Series		160	52,000	67,500	81,700 V	Vith 20 ft or less e	ith 20 ft or less equivalent piping			
				Heat Fan Ratio (Air Flow)						
	-	ter Flow Rate F) (GPM)	50%	Temperature	1	Temperature	100%	Temperature	Coil Pressure	
Temperate			(800CFM)				(1600 CFM)	Differential (°F)	Drop (PSI)	
		2	23,100	27	27,700	21	35,400	21	1.42	
120		3	26,000	30	33,600	26	40,300	23	2.36	
		4	28,000	32	37,500	29	43,900	25	4.38	
140		2	33,700	39	42,000	32	47,500	28	1.41	
		3	37,300	43	48,300	37	56,500	33	2.34	
		4	38,400	44	54,000	42	62,700	36	4.38	
100		2	43,100	50	54,800	42	62,600	36	1.41	
			10,100	50	01,000	12	70,100	40	0.04	

Values shown in following tables may vary depending on the static pressure of the duct system.

56

59

48,000

51,200

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4

160

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62,100

66,200

73,100

80,000

42

46

48

51

2.34

4.38