



Ultra-Thin Hydronic Fan Coil Submittal Sheet

Job Name:	Location:
Engineer:	Wholesaler:
Model Number:	Mechanical Contractor:
BTU/Hr Capacity Heating:	Notes:
BTU/Hr Capacity Cooling:	

Clean Design

- Compared with other traditional fan coils, the Ultra-Thin Hydronic Fan Coil is thinner, quieter, and more aesthetically pleasing
- With its neutral design and modular color palette, the Fan Coil is inviting wherever it is placed in the room
- Metal and Glass Faced Models are available; White and Black Models also available - Contact HTP for model availability

Super Quiet Operation

- Innovative new fan blade design produces less noise, resulting in quieter rooms
- Brushless fan motors allow the Fan Coil to operate at high speeds with less noise
- Fan speeds can operate at three speeds - Low, Medium, and High

High Efficiency

- With its large heat exchanger surface area, the Ultra-Thin Hydronic Fan Coil transfers more heat immediately than a radiator
- Requires an operating temperature of only 122°F, 58 degrees cooler than 180°F water temperatures required by most radiators
- Lower operating temperatures mean the fan coil uses less energy and saves money

Quick Heating

- A radiator only heats the air around it, slowly heating a room by conduction
- The Ultra-Thin Hydronic Fan Coil uses a fan blower to distribute heated air twice as far in the same amount of time as standard radiators
- High quality cross flow fans deliver large air volume
- The Fan Coil heats rooms faster and with 30% less energy consumption

Efficient Cooling

- When paired with a chiller, the Fan Coil provides cooled, dehumidified air

Clean Air

- The Fan Coil features an easy-to-clean active carbon filter to trap impurities and refresh the air

Precise Control

- The advanced thermostat control panel allows the Fan Coil to automatically adjust heat distribution according to the current room condition
- The simple thermostat control display makes operating the unit easy
- Remote control options available for added convenience

Space Saving Design

- The standard fan coil cabinet is 9.8" thick
- With its efficient design, the Ultra-Thin Hydronic Fan Coil cabinet is just over 5" thick - leaving more space in the room

Installation Flexibility

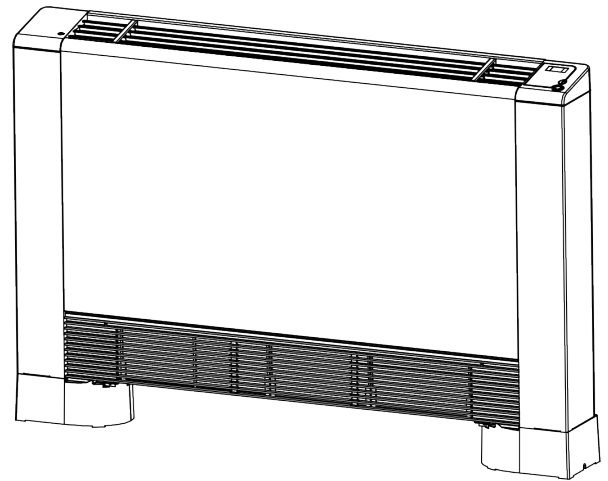
- The Fan Coil can be installed in various ways, such as floor, wall, ceiling, and concealed installation, reducing installation costs
- The Fan Coil is equipped with a 110V line cord for easy installation

Reliable

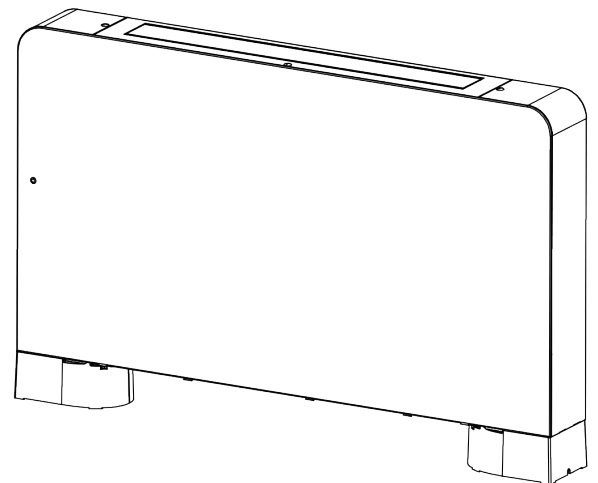
- Three-way motorized valves increase the Fan Coil's stability and greatly reduce energy consumption
- Anti-corrosion copper pipes and aluminum fin heat exchangers ensure higher efficiency and longer Fan Coil service life

Description of Operation

- The Ultra-Thin Hydronic Fan Coil uses water to provide heated air in the winter and cooled, dehumidified air in the summer
- Incoming air is drawn up through the fan coil and either heated or cooled (depending on the installation) over the water pipes before being directed out of the top



Metal Face Fan Coil Model



Glass Face Fan Coil Model

NOTE: HTP reserves the right to make product changes or updates without notice and will not be held liable for typographical errors in literature.

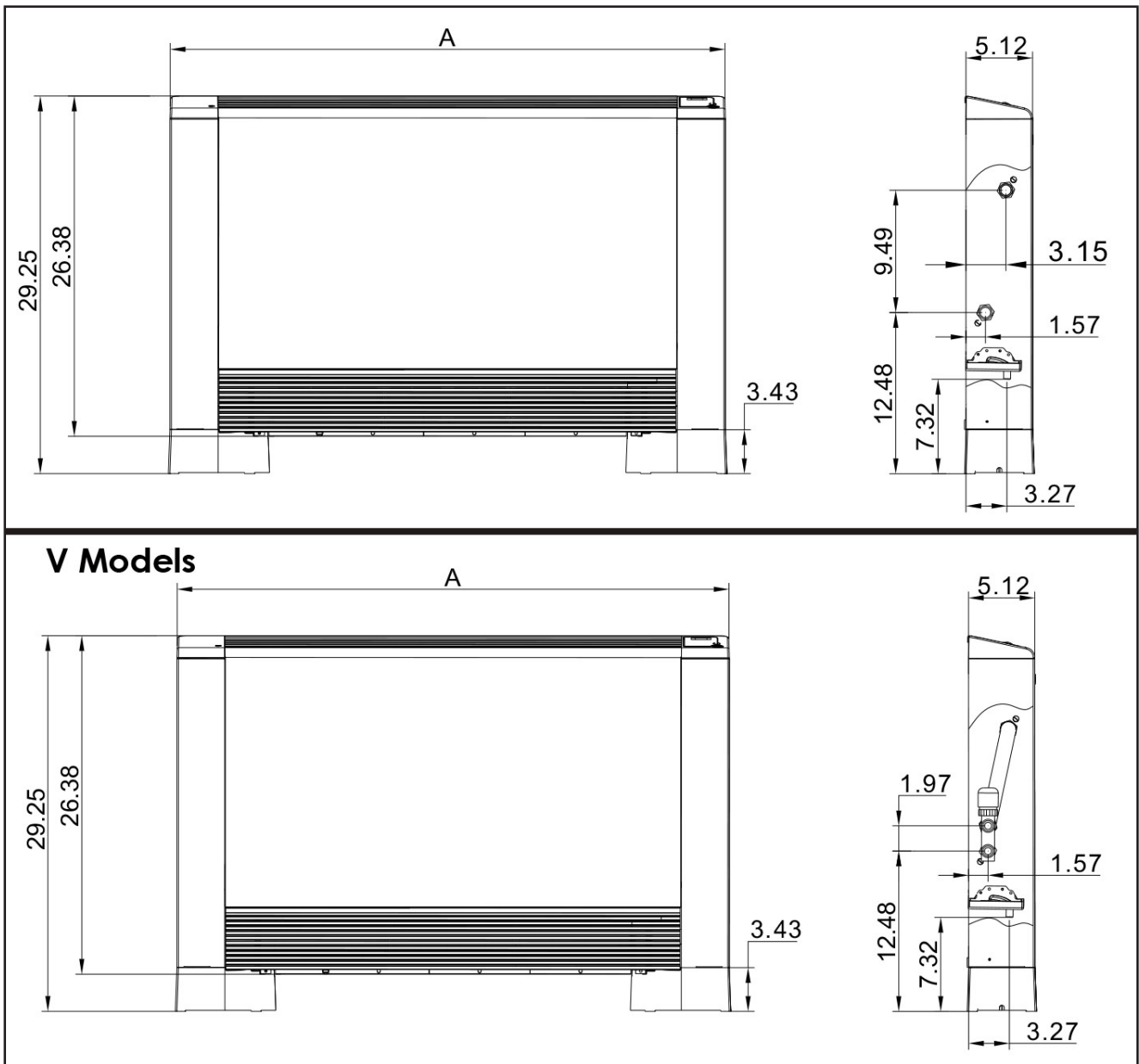


Figure 1 - Overall Metal Face Fan Coil Model Dimensions

Model	VFC-9P**	VFC-14P**	VFC-20P**	VFC-25P**	VFC-32P**
Dimension A (Inches)	27.56	35.43	43.31	51.18	59.06

Table 1 - Metal Face Fan Coil Dimensions - ** "WV" Denotes White Models with Valve; "B" Denotes Black Models without Valve

Model		VFC-9P**	VFC-14P**	VFC-20P**	VFC-25P**	VFC-32P**
Heating Capacity (1)	W	2550	3950	5750	7200	9400
	BTU/hr	8700	13500	19600	24600	32000
Water Flow Rate (1)	Gallons / Min	0.97	1.50	2.16	2.73	3.56
Pressure Drop (1)	psig	1.54	1.77	3.80	3.99	4.09
Heating Capacity (2)	W	1350	2500	3350	4300	5200
	BTU/hr	4600	8500	11400	14600	17800
Water Flow Rate (2)	Gallons / Min	1.01	1.89	2.55	3.26	3.92
Pressure Drop (2)	psig	1.57	1.90	3.99	4.05	4.13
Cooling Capacity (3)	W	1000	1900	2500	3500	4350
	BTU/hr	3400	6500	8500	12000	14800
Water Flow Rate (3)	Gallons / Min	0.75	1.45	1.89	2.64	3.30
Pressure Drop (3)	psig	1.61	1.93	4.02	4.10	4.44
Air Volume	CFM	94	188	270	340	381
Noise (4)	dB (A)	30	32	37	39	41
Power Supply	/	110 - 220V ~ /60 Hz				
Power Input	W	12	16	20	24	30
Water In / Out	NPT	3/4"				
Drain	inch	0.63				
Shipping Weight (est.)	lb	38	47	53	62	69

Table 2 - Metal Face Fan Coil Technical Specifications (5) - ** "WV" Denotes White Models with Valve; "B" Denotes Black Models without Valve

Test Conditions

- (1) Heating test conditions based on input water temperature of 158°F, difference in temperature of 50°F, and entering air temperature of 68°F DB.
- (2) Heating test conditions based on input water temperature of 122°F, difference in temperature of 41°F, and entering air temperature of 68°F DB.
- (3) Cooling test conditions based on input water temperature of 44.6°F, difference in temperature of 41°F, and entering air temperature of 66.2 / 80.6°F DB.
- (4) Noise level is measured in the standard anechoic chamber <17dB(A).
- (5) Above data is subject to change without notification.

Working Conditions

Heating: Ambient temperature of 41 - 84.2°F, Inlet Water temperature of 95 - 158°F
Cooling: Ambient temperature of 48.2 - 95°F, Inlet Water temperature of 41 - 68°F

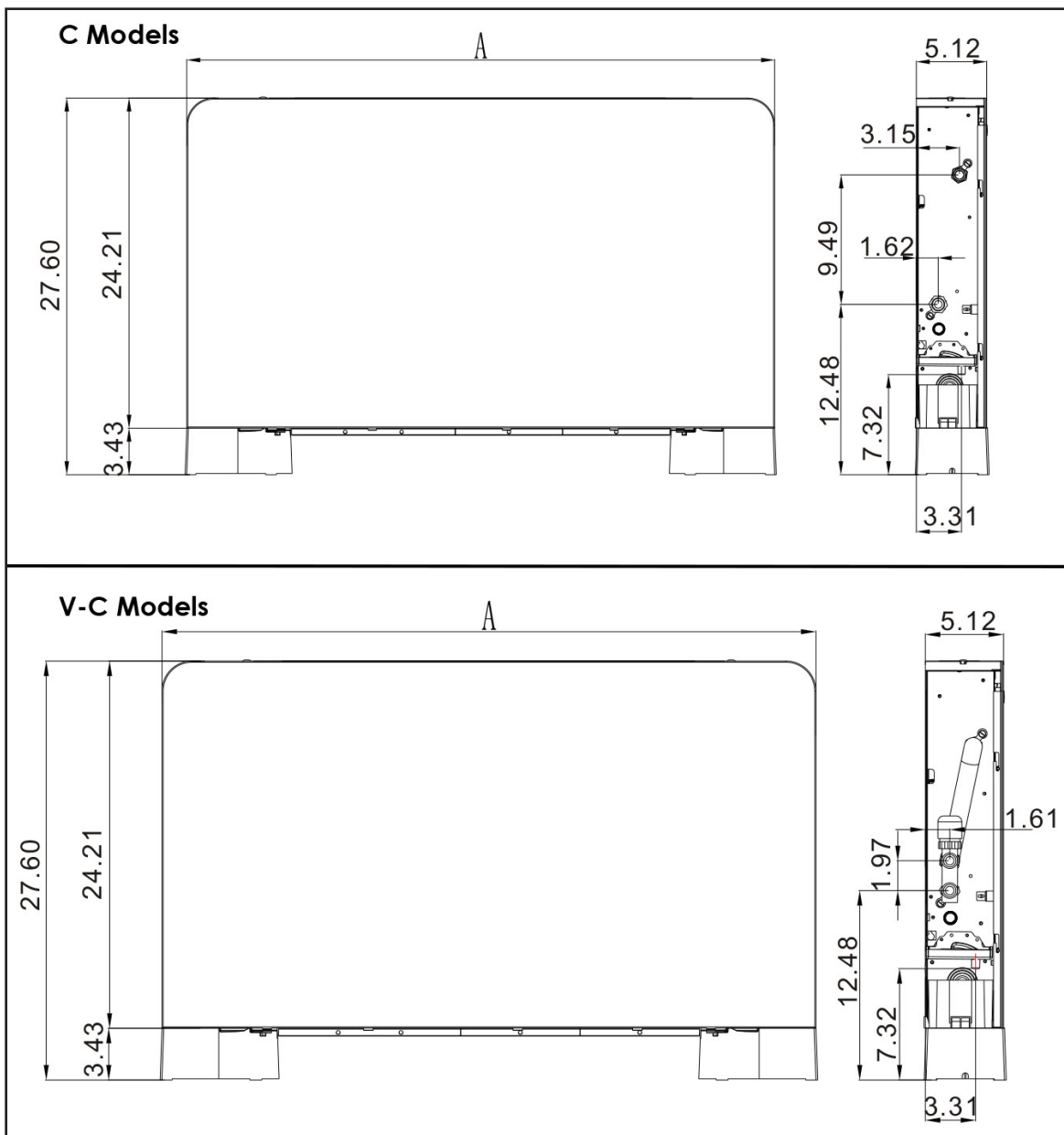


Figure 2 - Glass Face Fan Coil Model Overall Product Dimensions*

Model	VFC-9G**	VFC-14G**	VFC-20G**	VFC-25G**	VFC-32G**
Dimension A (Inches)	27.36	35.24	43.11	50.99	58.86

Table 3 - Glass Face Fan Coil *Dimensions apply to both VFC-*GB and VFC-*GWV Models - ** "WV" Denotes White Models with Valve; "B" Denotes Black Models without Valve

Model		VFC-9G**	VFC-14G**	VFC-20G**	VFC-25G**	VFC-32G**
Heating Capacity (1)	W	2550	3950	5750	7200	9400
	BTU/hr	8700	16500	19600	24600	32000
Water Flow Rate (1)	Gallons / Min	0.97	1.50	2.16	2.73	3.56
Pressure Drop (1)	psig	1.54	1.77	3.80	3.99	4.09
Heating Capacity (2)	W	1350	2500	3350	4300	5200
	BTU/hr	4600	8500	11400	14600	17800
Water Flow Rate (2)	Gallons / Min	1.01	1.89	2.55	3.26	3.92
Pressure Drop (2)	psig	1.57	1.90	3.99	4.05	4.13
Cooling Capacity (3)	W	1000	1900	2500	3500	4350
	BTU/hr	3400	6500	8500	12000	14800
Water Flow Rate (3)	Gallons / Min	0.75	1.45	1.89	2.64	3.30
Pressure Drop (3)	psig	1.61	1.93	4.02	4.10	4.44
Air Volume	CFM	94	188	270	340	381
Noise (4)	dB (A)	30	32	37	39	41
Power Supply	/	110 - 220V ~ /60 Hz				
Power Input	W	12	16	20	24	30
Water In / Out	NPT	3/4"				
Drain	inch	0.63				
Shipping Weight (est.)	lb	45	53	60	69	80

Table 4 - Glass Face Fan Coil Technical Specifications (5) - ** "WV" Denotes White Models with Valve; "B" Denotes Black Models without Valve

Test Conditions

- (1) Heating test conditions based on input water temperature of 158°F, difference in temperature of 50°F, and entering air temperature of 68°F DB.
- (2) Heating test conditions based on input water temperature of 122°F, difference in temperature of 41°F, and entering air temperature of 68°F DB.
- (3) Cooling test conditions based on input water temperature of 44.6°F, difference in temperature of 41°F, and entering air temperature of 66.2 / 80.6°F DB.
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