

Indoor Air Handlers



Model VFCD Direct Drive and VFC Belt Drive

Vertical fan coils provide a low-cost method of air conditioning and/or heating for applications requiring a small footprint. These units utilize a steel double-wall cabinet construction with hinged motor access.

Performance

Capacities range from 300 to 4,000 cfm and up to 1.5 in. wg (VFCD) or 3.3 in. wg (VFC).

Best Available Program
10 Days

104

Best Available based on size and accessories.

Standard Construction	VFCD	VFC
Double-wall construction	■	■
Side access panel - hinged, removable	■	■
Internal isolation		■
Stainless steel drain pan	■	■
Easy slide-out motor and scroll	■	
Options and Accessories	VFCD	VFC
Internal spring isolation		■
Coils - hot water, chilled water, direct expansion and steam	■	■
Prefilters - vertical, 2- or 4-inch, pleated or aluminum, 30 or 65% efficiencies	■	■

Dimensions for VFCD, VFC

Model Size	A		B	C	Inlet		Outlet			
	VFCD	VFC			D	E	F		G	
							VFCD	VFC	VFCD	VFC
600	40	44	24	24	18	22	5.50	6.75	5.50	4.00
800	40	44	24	24	18	22	7.25	6.75	5.50	6.50
1300		44	24	28	18	22	18.00	8.50	5.63	8.00
1600		44	30	28	22	22	18.00	9.00	5.63	9.00
2000		52	34	28	29	23	26.00	10.00	5.63	9.00
2400		52	34	28	29	23	26.00	10.00	5.63	10.25
3000		52	50	32	45	22	32.88	12.75	10.38	12.00

All dimensions are in inches.



Increased rigidity
Formed access panels



Excellent IAQ
Double-wall construction



Less noise, less vibration
Internal spring isolation (VFC)

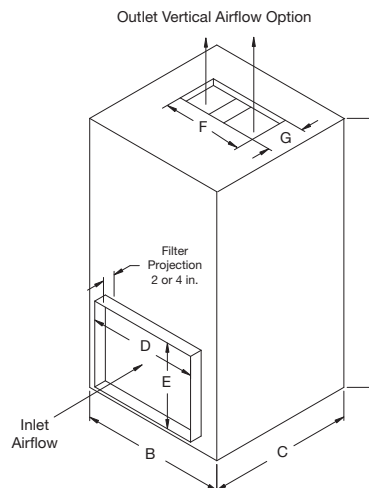


Quality ensures longevity
Stainless steel drain pan

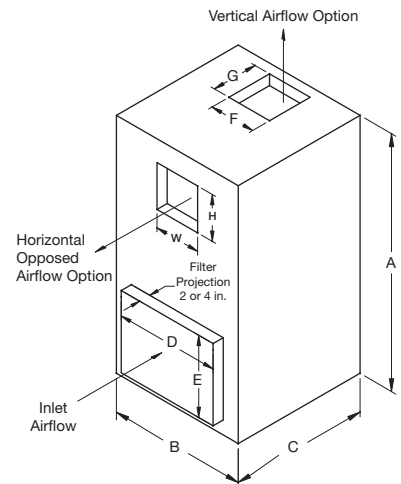


Easy slide-out motor and scroll (VFCD)

VFCD



VFC



Performance for VFCD, VFC

Model Size (Nominal CFM)	600	800	1300	1600	2000	2400	3000
Fan/Motor Data							
RPM Range VFCD	960 - 1600	900 - 1500	870 - 1450	966 - 1610	660 - 1100	870 - 1450	660 - 1100
RPM Range VFC	1100 - 3500	1100 - 3500	800 - 2350	750 - 2000	725 - 2150	650 - 1900	500 - 1650
HP Range VFCD, VFC	.25 - 2	.25 - 2	.25 - 2	.25 - 2	.25 - 3	.25 - 3	.25 - 3
Maximum BHP - VFCD	3.8	3.8	7.8	9	7.8	5.6	7.1
Maximum BHP - VFC	2.1	2.1	2.1	2.1	3.15	3.15	3.15
CFM Range - VFCD	250 - 770	250 - 950	700 - 1640	900 - 1640	900 - 2400	1300 - 3000	1300 - 4000
CFM Range - VFC	300 - 800	500 - 1300	800 - 1600	1300 - 2000	1300 - 2600	1300 - 3200	1300 - 4000
Filter Data							
Quantity - Size (in.)	1 - 20 x 24	1 - 20 x 24	1 - 20 x 24	1 - 24 x 24	2 - 16 x 25	2 - 16 x 25	2 - 24 x 24
Area - ft ²	2.7	2.7	2.7	3.6	4.7	4.7	6.7
Velocity - ft/min.	222	296	481	444	426	511	448
Coil Data							
Area - ft ²	2.7	2.7	2.7	3.6	4.7	4.7	6.7
Width - in.	22.5	22.5	22.5	22.5	24/25	24/25	22.5
Length - in.	17	17	17	23	27	27	43
Velocity - ft/min.	222	296	481	444	426	511	448



LFC



MSCF

Model LFC and MSCF

Model LFC and MSCF provide a low-cost method of air conditioning and/or heating a building or specific space. These units come standard with a low-profile, double-wall constructed cabinet designed to fit in tight ceiling spaces. They utilize two types of forward-curved wheels providing a wide performance range and quiet operation.

Performance

Capacities range from 360 to 5,300 cfm and up to 4.5 in. wg.

Best Available Program

10 Days

Best Available based on size and accessories.



Easy installation
Modular construction (MSCF only)



Quick, easy maintenance filter module



Quality ensures longevity
Stainless steel drain pan



Less noise, less vibration
Internal spring isolation



Excellent IAQ
Double-wall construction

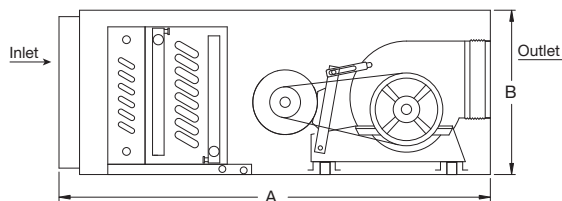


Increased rigidity
Formed access panels



Mix air evenly
Mixing box module

Standard Construction	
Low-profile - as short as 11 inches (LFC)	
Modular construction (MSCF)	
Double-wall construction	
Two access panels per module	
Internal isolation	
Stainless steel drain pan	
Module Selection	
Pre and/or post access plenums (MSCF only)	Prefilter (LFC, MSCF)
Heating coils - hot water and steam	Postfilters (MSCF only)
Cooling coils - chilled water and DX	Mixing box
Reheat coils	
Options & Accessories	
Wheel - backward-inclined (MSCF only)	
Internal spring isolation	
Coils - hot water, chilled water, direct expansion and steam	
Prefilter - vertical or sloped, 2- or 4-inch, pleated or aluminum, 30, 65 or 95% efficiencies	
Mixing box - with or without dampers, with or without filters, inlet configuration any two of top, end, bottom, right or left	

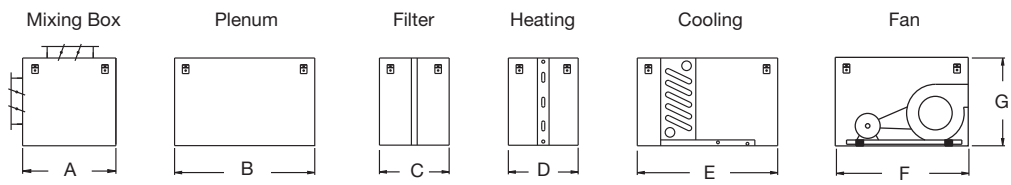


Dimensions for LFC

Model Size	A			B	Width	Inlet		Outlet	
	Without Filter	w/ 2 in. Filter	w/ 4 in. Filter			Height	Width	Height	Width
15	40	42	44	11.0	38	9.0	36	4.00	6.75
20	40	42	44	14.0	38	12.0	36	6.50	6.75
25	40	42	44	16.0	38	14.0	36	8.00	8.50
30	45	47	49	18.5	38	16.5	36	9.00	9.00
45	45	47	49	18.5	50	16.5	48	9.00	10.00
50	48	50	52	21.0	50	19.0	48	10.25	10.00
65	52	54	56	26.0	50	24.0	48	12.00	12.75
85	52	54	56	26.0	62	24.0	60	12.00	15.00

All dimensions are in inches.





Dimensions for MSCF

Model Size	A		B		C		D		E	F	G	Unit Width	Inlet		Outlet	
	Without Filter	With Filter	12 in.	24 in.	Vertical	Sloped	Hot Water 1 & 2 Row	Hot Water and Steam 4 Row					Height	Width	Height	Width
15	11.0	24.5	12.75	24.5	12.75	24.5	12.75	15.5	24.5	25	11.0	38	9.0	36	4.0	6.75
20	14.0	24.5	12.75	24.5	12.75	24.5	12.75	15.5	24.5	25	14.0	38	12.0	36	6.50	6.75
25	16.0	27.0	12.75	24.5	12.75	27.0	12.75	15.5	24.5	29	16.0	38	14.0	36	8.0	8.50
30	18.5	31.0	12.75	24.5	12.75	31.0	12.75	15.5	24.5	32	18.5	38	16.5	36	9.0	9.00
45	18.5	32.0	12.75	24.5	12.75	32.0	12.75	15.5	24.5	32	18.5	50	16.5	48	9.0	10.00
50	21.0	32.0	12.75	24.5	12.75	32.0	12.75	15.5	24.5	38	21.0	50	19.0	48	10.0	10.25
65	26.0	38.0	12.75	24.5	12.75	38.0	12.75	15.5	24.5	42	26.0	50	24.0	48	12.0	12.75
85	26.0	38.0	12.75	24.5	12.75	38.0	12.75	15.5	24.5	42	26.0	62	24.0	60	12.0	15.00

All dimensions are in inches. For complete dimensional information, see CAPS submittal drawings.

Performance for LFC, MSCF

Unit Size	15	20	25	30	45	50	65	85
Nominal CFM	800	1100	1350	1600	2250	2600	3350	4300
Fan/Motor Data								
RPM Range	1100 - 3500	1100 - 3500	800 - 3050	750 - 2500	725 - 2400	650 - 2200	500 - 2000	500 - 2200
HP Range	.25 - 2	.25 - 2	.25 - 3	.25 - 3	.25 - 3	.25 - 5	.25 - 7.5	.25 - 10
Max. BHP	2.1	2.1	2.1	3.15	3.15	5.25	7.875	10.5
CFM Range	300 - 800	600 - 1100	900 - 1800	1200 - 2400	1500 - 2900	1800 - 3600	2400 - 4200	3000 - 5800
Vertical Filter Data								
Quantity - Size (in.)	2 - 9 x 18	1 - 12 x 12 1 - 12 x 24	2 - 14 x 18	1 - 16 x 16 1 - 16 x 20	2 - 16 x 24	2 - 18 x 24	2 - 24 x 24	1 - 12 x 24 2 - 24 x 24
Area - ft ²	1.8	2.5	3.0	3.4	4.8	5.4	7.2	8.9
Velocity - ft/min.	444	440	450	471	469	481	465	483
^Sloped Filter Data								
Quantity - Size (in.)	1 - 12 x 12 1 - 12 x 24	1 - 16 x 16 1 - 16 x 20	2 - 16 x 20	1 - 12 x 24 1 - 24 x 24	2 - 24 x 24	2 - 24x24	4 - 24x24	2 - 12 x 24 4 - 24 x 24
Area - ft ²	2.5	3.4	3.8	5.3	7.2	7.2	14.4	17.8
Velocity - ft/min.	320	324	355	302	313	361	233	242
Coil Data								
Area - ft ²	1.6	2.2	2.7	3.2	4.5	5.2	6.7	8.6
Width - in.	7.50	10.00	12.50	15.00	15.00	17.50	22.50	22.50
Length - in.	31.00	31.00	31.00	31.00	43.00	43.00	43.00	55.00
Velocity- ft/min.	500	500	500	500	500	500	500	500

^Available for MSCF unit only. For complete performance information see CAPS.