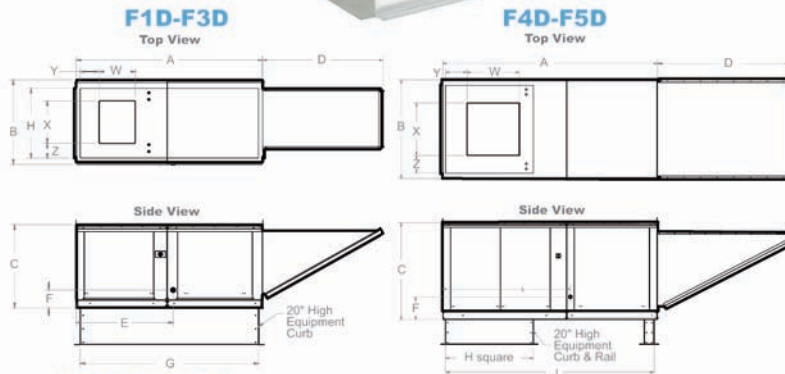


Modular Roof Mount and Inline FD Series

Direct Fired Heated Make-Up Air



Measurements

Unit Dimensions						
MODEL	A	B	C	D	E	F
F1-D	74 7/16	27 3/8	29 3/4	44 5/16	34 13/16	7 13/16
F2-D	82 7/16	37 3/8	36 3/4	53 11/16	42 13/16	7 13/16
F3-D	87 7/16	41 3/8	43 3/8	51 5/8	47 13/16	9 1/2
F4-D	118 1/2	48 7/16	51 7/16	75	66 5/16	13 9/16
F5-D	128 1/2	59 3/16	58 7/16	75	76 7/16	13 13/16

Measurements

MODEL	Blower				Curb & Rail			
	W	X	Y	Z	G	H	J	
F1-D	11 3/8	13 1/8	5 5/8	4 15/16	71	21	n/a	
F2-D	15 7/8	18 5/8	8 3/8	6 15/16	79	31	n/a	
F3-D	18 7/8	21 7/8	10 3/8	6 11/16	84	35	n/a	
F4-D	24 7/8	24 7/8	10 11/16	8 9/16	-	42	115 3/16	
F5-D	31 3/8	31 3/8	12 15/16	10 11/16	-	52 3/4	125 3/16	

Unit Information				
MODEL	Filter Size	Burner Size	Pipe Size	Weight (lbs)
F1-D	(3) 16 x 20	250 or 500	3/4"	350
F2-D	(3) 20 x 25	500 or 750	1"	550
F3-D	(6) 16 x 20	1000	1"	650
F4-D	(10) 16 x 20	1500	1 1/4"	1100
F5-D	(8) 20 x 25	2500	1 1/2"	1350

Direct Gas-Fired Heater, ETL Listed, for use in tempering make-up air. Unit meets ANSI Z83.4a-2001/CSA3.7a-2001 safety standards and is designed for natural or propane gas applications. The heaters are rated for indoor/outdoor installations in commercial occupancies. A unique feature is the self-adjusting burner profile plates allowing 2-speed and variable-air-volume applications. The plates ensure proper air velocity and pressure drop across the burner for clean combustion. Spring-loaded profile plates react to the momentum of the fresh air stream, therefore, no motors or actuators are needed to drive them, nor do they need to be manually set to a specific position.

Features & Benefits

- G90 galvanized construction
- Easy access doors
- Lifting points
- Redundant gas valves
- Pre-wired, pre-piped controls
- Horizontal or down discharge
- Vibration isolation
- High efficiency motors
- Adjustable drive sheaves
- Fully insulated casing
- Stainless steel burner
- 120 volt control transformer with single point electrical connection
- Intermittent spark pilot with timed safety lockout
- Electronic flame modulation
- High temperature limit switch
- Airflow proving switch
- Economizer inlet thermostat
- Motor starter
- Vibration isolation
- High efficiency motors
- Adjustable drive sheaves
- Disconnect switch
- Burner observation port

Options

- Propane fuel application
- Room override thermostat
- Clogged filter switch
- Motorized intake damper
- Remote control panel including Summer/Winter switch and operating lights
- Freeze stat with bypass timer
- Hi/Low gas pressure switches
- Room modulating thermostat
- High gas pressure regulator
- Convenience outlet
- DX cooling coils
- Cooling Interlock
- Evaporative cooler intake
- V-Bank filter intake
- Sloped filter intake
- Auxiliary starters
- Inlet gas pressure gauge
- Indoor hanging cradle
- VAV packages
- Roof curbs



Certifications

ETL Listed and Certified to ANSI Z83.4a-2001/CSA 3.7a-2001

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

Performance		Static Pressure in Inches W.G.								
MODEL	CFM	0.00 RPM/BHP	0.25 RPM/BHP	0.50 RPM/BHP	0.75 RPM/BHP	1.00 RPM/BHP	1.25 RPM/BHP	1.50 RPM/BHP	1.75 RPM/BHP	2.00 RPM/BHP
F1-D	1000	366 / 0.06	628 / 0.14	826 / 0.25	998 / 0.38	1140 / 0.51	1259 / 0.64	1362 / 0.77	1451 / 0.88	1531 / 0.99
F1-D	1250	457 / 0.11	686 / 0.22	857 / 0.33	1014 / 0.47	1157 / 0.63	1286 / 0.80	1398 / 0.96	1501 / 1.13	1590 / 1.28
F1-D	1500	548 / 0.19	752 / 0.32	906 / 0.45	1045 / 0.60	1176 / 0.76	1300 / 0.94	1415 / 1.13	1523 / 1.34	1620 / 1.53
F1-D	1750	639 / 0.31	821 / 0.45	965 / 0.60	1091 / 0.76	1209 / 0.93	1323 / 1.12	1432 / 1.32	1536 / 1.54	1636 / 1.77
F1-D	2000	730 / 0.46	892 / 0.62	1030 / 0.79	1147 / 0.97	1255 / 1.15	1359 / 1.34	1459 / 1.55	1558 / 1.78	
F1-D	2250	821 / 0.65	966 / 0.83	1098 / 1.03	1210 / 1.22	1310 / 1.42	1406 / 1.62	1499 / 1.84		
F1-D	2500	913 / 0.90	1042 / 1.08	1168 / 1.31	1275 / 1.52	1371 / 1.74	1462 / 1.96			
F1-D	2750	1004 / 1.20	1120 / 1.39	1239 / 1.64	1343 / 1.88					
F1-D	3000	1095 / 1.55	1200 / 1.76							
F2-D	2500	405 / 0.31	571 / 0.53	704 / 0.81	811 / 1.11	903 / 1.41	985 / 1.71	1060 / 2.02	1128 / 2.33	1190 / 2.64
F2-D	3000	486 / 0.54	624 / 0.76	753 / 1.10	856 / 1.44	946 / 1.80	1027 / 2.15	1101 / 2.52	1170 / 2.88	1233 / 3.25
F2-D	3500	566 / 0.85	682 / 1.09	804 / 1.46	905 / 1.85	992 / 2.26	1071 / 2.67	1144 / 3.08	1211 / 3.50	1275 / 3.93
F2-D	4000	647 / 1.27	744 / 1.51	856 / 1.91	955 / 2.35	1040 / 2.80	1118 / 3.27	1188 / 3.73	1255 / 4.20	1317 / 4.68
F2-D	4500	728 / 1.81	811 / 2.06	912 / 2.46	1006 / 2.95	1090 / 3.45	1166 / 3.96	1236 / 4.48	1300 / 5.00	
F2-D	5000	809 / 2.48	881 / 2.74	970 / 3.15	1060 / 3.66	1142 / 4.20	1216 / 4.77			
F2-D	5500	890 / 3.30	954 / 3.57	1032 / 3.98	1116 / 4.50					
F2-D	6000	971 / 4.28	1028 / 4.56	1098 / 4.98						
F3-D	3500	320 / 0.40	440 / 0.56	550 / 0.87	645 / 1.21	729 / 1.58	806 / 1.97	874 / 2.37	937 / 2.77	994 / 3.18
F3-D	4000	345 / 0.50	470 / 0.74	572 / 1.07	662 / 1.44	743 / 1.85	818 / 2.27	886 / 2.71	950 / 3.15	1008 / 3.61
F3-D	4500	388 / 0.71	502 / 0.96	598 / 1.32	682 / 1.72	760 / 2.15	832 / 2.60	898 / 3.06	962 / 3.56	1021 / 4.06
F3-D	5000	431 / 0.98	535 / 1.24	626 / 1.62	706 / 2.04	779 / 2.49	848 / 2.97	913 / 3.47	975 / 4.00	1033 / 4.53
F3-D	5500	474 / 1.30	569 / 1.57	656 / 1.97	732 / 2.42	802 / 2.90	868 / 3.40	930 / 3.93	989 / 4.48	
F3-D	6000	517 / 1.69	605 / 1.97	686 / 2.39	759 / 2.86	826 / 3.36	889 / 3.89	949 / 4.45		
F3-D	6500	560 / 2.15	641 / 2.43	719 / 2.87	789 / 3.36	853 / 3.89	913 / 4.45			
F3-D	7000	604 / 2.68	678 / 2.97	752 / 3.42	819 / 3.94	881 / 4.49				
F3-D	7500	647 / 3.30	716 / 3.59	786 / 4.05	850 / 4.59					
F3-D	8000	690 / 4.00	755 / 4.30	820 / 4.77						
F4-D	7000	350 / 1.05	408 / 1.32	473 / 1.75	539 / 2.22	602 / 2.71	663 / 3.22	719 / 3.75	772 / 4.30	821 / 4.85
F4-D	8000	376 / 1.31	448 / 1.83	506 / 2.31	563 / 2.81	620 / 3.35	676 / 3.92	730 / 4.50	781 / 5.10	830 / 5.70
F4-D	9000	423 / 1.87	490 / 2.46	542 / 2.99	593 / 3.55	644 / 4.13	695 / 4.73	745 / 5.36	793 / 6.01	840 / 6.68
F4-D	10000	470 / 2.56	533 / 3.23	581 / 3.83	627 / 4.43	673 / 5.05	718 / 5.70	764 / 6.38	809 / 7.07	854 / 7.78
F4-D	11000	517 / 3.40	576 / 4.16	621 / 4.82	663 / 5.48	705 / 6.15	747 / 6.84	788 / 7.55	830 / 8.29	871 / 9.05
F4-D	12000	564 / 4.42	620 / 5.26	663 / 5.99	702 / 6.70	740 / 7.42	778 / 8.16	816 / 8.92	854 / 9.70	
F4-D	13000	611 / 5.62	664 / 6.55	705 / 7.34	742 / 8.12	777 / 8.89	813 / 9.68			
F5-D	10000	260 / 1.21	375 / 2.25	456 / 3.16	524 / 4.10	587 / 5.09	644 / 6.12	696 / 7.18	744 / 8.25	788 / 9.32
F5-D	11000	286 / 1.61	395 / 2.78	473 / 3.79	538 / 4.79	598 / 5.85	654 / 6.95	706 / 8.09	754 / 9.26	799 / 10.43
F5-D	12000	312 / 2.09	414 / 3.39	490 / 4.50	554 / 5.59	612 / 6.71	665 / 7.88	716 / 9.09	764 / 10.33	808 / 11.60
F5-D	13000	338 / 2.66	434 / 4.08	509 / 5.32	571 / 6.49	626 / 7.68	678 / 8.91	727 / 10.19	774 / 11.50	818 / 12.85
F5-D	14000	364 / 3.32	454 / 4.85	528 / 6.23	588 / 7.50	642 / 8.77	692 / 10.06	740 / 11.40	785 / 12.78	828 / 14.19
F5-D	15000	389 / 4.09	474 / 5.72	547 / 7.25	606 / 8.63	659 / 9.98	707 / 11.34	753 / 12.74	797 / 14.18	840 / 15.66
F5-D	16000	415 / 4.96	494 / 6.70	567 / 8.38	625 / 9.88	676 / 11.32	723 / 12.75	768 / 14.23	811 / 15.73	852 / 17.27
F5-D	17000	441 / 5.95	515 / 7.78	586 / 9.62	644 / 11.24	694 / 12.79	740 / 14.31	784 / 15.86	825 / 17.43	865 / 19.03
F5-D	18000	467 / 7.06	536 / 8.98	606 / 10.98	663 / 12.74	713 / 14.39	758 / 16.01	800 / 17.63	841 / 19.27	
F5-D	19000	493 / 8.30	557 / 10.30	626 / 12.45	682 / 14.36	731 / 16.14	776 / 17.86	818 / 19.56		
F5-D	20000	519 / 9.69	579 / 11.76	646 / 14.06	702 / 16.12	751 / 18.03	794 / 19.85			
F5-D	21000	545 / 11.21	602 / 13.36	666 / 15.80	722 / 18.02					