

MODEL FF/FFC

CEILING AND INLINE/CABINET VENTILATORS

APPLICATION

The extremely quiet FF and FFC ventilators are used to exhaust air from a variety of commercial and institutional applications, such as restrooms, conference rooms, offices, storage areas, restaurants, retail stores, schools, and similar buildings...anywhere quiet, high-capacity ventilation is needed.

The forward curved centrifugal wheel with its high static pressure capability makes these ventilators suitable for either ducted or nonducted applications. They include removable blower assemblies and plug-in permanently lubricated motors for ease of servicing and cleaning.



Breidert Air Products, Div. of Soler & Palau Ventilation Group certifies that the Models FF/FFC shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.

MODEL FF Ceiling Ventilator													Ventilator with Motor, Grill & Backdraft Damper			
MODEL FF	AMPS @ 60HZ/ WATTS	RPM @ 1/8	CFM / Sones at Static Pressure										Average Ship Wt. Lbs	120/1/60		
			0	1/10	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1		STOCK NO.		
50	0.8/48	1870	52	49	47	42	29	-	-	-	-	-	4	FF50		
			3.9	4.3	4.4	4.6	5.5	-	-	-	-	-				
80	0.75/48	1280	89	81	80	68	36	-	-	-	-	-	7	FF80		
			3.9	3.8	3.8	3.8	3.9	-	-	-	-	-				
100	1.1/87	640	136	115	109	93	80	65	44	12	-	-	23	FF100		
			0.5	0.8	0.9	1.3	1.8	2.3	3.0	3.2	-	-				
150	1.3/100	710	181	161	157	141	132	124	114	94	62	-		FF150		
			1.3	1.4	1.5	2.2	2.6	3.1	3.6	4.1	4.6	-				
200	1.8/127	740	231	214	210	196	186	177	165	144	113	51		FF200		
			1.6	1.8	1.7	2.3	2.9	3.5	4.1	4.9	5.3	5.3				
250	2.1/166	830	272	261	259	250	242	233	218	201	165	99		FF250		
			2.1	2.3	2.2	2.9	3.3	3.9	4.4	4.8	5.5	5.8				
300	2.6/212	905	312	309	308	303	296	287	273	254	219	125		FF300		
			2.8	2.9	2.9	3.3	3.5	3.9	4.3	4.7	5.1	5.6				
400	1.4/146	735	480	442	434	388	344	299	229	182	114	33		34	FF400	
			2.0	2.4	2.3	2.8	3.3	3.8	4.5	4.8	5.4	5.6				
500	2.2/232	810	538	520	514	491	463	434	389	339	282	186			FF500	
			3.0	3.1	3.3	3.6	4.0	4.4	5.0	5.7	6.2	6.7				
700	2.9/313	960	722	704	701	667	640	607	571	534	453	333			FF700	
			4.5	4.6	4.7	4.8	5.0	5.2	5.6	6.2	7.1	7.2				
900	3.0/306	650	918	905	901	877	842	793	725	636	536	390			64	FF900
			3.8	4.0	4.1	4.0	4.2	4.3	4.4	4.9	4.5	5.3				
1500	5.0/468	955	1578	1526	1513	1438	1371	1285	1198	1103	1000	816				FF1500
			8.6	8.4	8.4	8.1	7.5	7.0	6.7	6.2	5.8	5.8				

Performance ratings include the effects of inlet grille and backdraft damper in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet fan sone levels. Performance certified is for installation Type B: Free inlet, Ducted outlet.

DUE TO CONTINUING RESEARCH, BREIDERT RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

CONSTRUCTION

Housing

- Rugged, 20 gauge galvanized steel.
- Duct connector.
- 1/2" acoustic insulation inside (except FF50, FF80 & FFC's).
- Integral automatic backdraft damper.
- Easy inline conversion available (FF100-FF1500).
- Mounting brackets for easy installation and adaptability to numerous mounting requirements.
- Factory shipped in horizontal discharge position easily converted to vertical discharge.
- FFC inline units have a removable panel which allows for easy motor access without disturbing duct work.

Blower

- Low RPM for quiet operation, speed controllable.
- Resilient anti-vibration mounts (FF50 & FF80 rigid mount).
- Balanced, polymeric, centrifugal blower wheel for quiet, efficient performance. (Metal wheel on FFC2000 & FFC3500).
- Permanently lubricated, thermally protected motor.
- Plug in motor designed for continuous operation.

Grill

- Conceals interior.
- Low profile styling, blends with any decor.
- White polymeric (FF50 - FF300).
- Metal finished with white enamel (FF400 - FF1500).

ACCESSORIES

- Complete selection available, see pages 47-48.



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MODEL FFC			Inline/Cabinet Ventilators										Ventilator with Motor and Duct Connectors	
MODEL FFC	AMPS @ 60HZ/ WATTS	RPM @ 1/8	CFM / Sones at Static Pressure										Average Ship Wt. Lbs.	120/1/60
			0	1/10	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1		STOCK NO.
100	1.0/87	760	121	108	106	97	93	86	70	44	17	-	23	FFC100
			0.5	0.7	0.7	1.1	1.4	1.8	2.1	2.4	2.6	-		FFC150
150	1.3/100	920	153	148	147	140	134	125	111	91	54	18		FFC200
			0.9	1.0	1.1	1.4	1.6	1.9	2.1	2.2	2.4	2.6		FFC250
200	1.8/127	865	205	196	195	190	185	175	158	135	96	47		FFC300
			1.7	1.9	1.9	2.1	2.3	2.4	3.0	3.3	3.4	3.4		FFC400
250	2.1/166	1005	248	245	245	241	235	224	208	183	141	84		FFC500
			2.0	2.3	2.3	2.8	2.8	3.2	3.4	3.6	3.9	3.8		FFC700
300	2.6/212	1145	300	294	293	285	274	259	243	214	168	113		FFC900
			2.9	3.0	3.1	3.3	3.4	3.5	3.6	3.7	4.0	3.9		FFC1500
400	1.4/146	775	450	415	406	360	313	271	223	167	90	6.0	34	FFC400
			1.4	1.6	1.6	1.9	2.2	2.6	2.9	3.4	3.6	3.9		FFC500
500	2.2/232	890	546	526	519	496	472	447	407	364	306	232		FFC700
			2.4	2.4	3.4	3.7	3.9	3.8	3.9	4.0	4.3	4.3		FFC900
700	2.9/313	1090	704	686	681	656	631	604	575	533	480	412	64	FFC900
			3.6	3.8	3.7	3.9	4.0	4.2	4.3	4.4	4.7	5.0		FFC1500
900	3.0/306	810	930	902	894	853	807	754	685	587	442	300		FFC900
			3.7	3.8	3.8	3.8	3.7	3.8	3.9	4.0	4.0	4.1		FFC1500
1500	5.0/468	1055	1275	1228	1214	1152	1092	1029	958	871	764	631	64	FFC900
			6.8	6.8	6.7	6.5	6.3	6.0	6.0	6.0	6.0	6.0		6.1

Performance ratings include the effects of backdraft damper in the airstream. Speed (RPM) shown is nominal. Performances based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5' (1.5m) in a hemispherical free field calculated per AMCA Std. 301. Values shown are for installation Type D; Ducted inlet, Ducted outlet. Ratings do not include the effect of duct end correction. Performance ratings include the effects of 18 feet of round inlet duct and, if needed, a rectangular to round duct transition in the airstream. Performance certified is for Installation Type D; Ducted inlet, Ducted outlet.

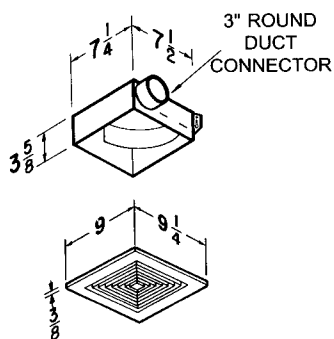
MODEL FFC			Inline / Cabinet Ventilators										Ventilator with Motor and Duct Connectors	
MODEL FFC	AMPS @ 60HZ/ WATTS	RPM @ 1/8	CFM / Sones at Static Pressure										Average Ship Wt. Lbs.	120/1/60
			0	1/10	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1		STOCK NO.
2000	5.8/590	965	1891	1803	1791	1657	1508	1347	1165	808	284	-	92	FFC2000
			10.3	9.8	9.4	9.0	8.6	9.1	8.9	7.0	6.7	-		

Performance ratings do not include the effects of appurtenances in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5' (1.5m) in a hemispherical free field calculated per AMCA Std. 301. Values shown are for installation Type D; Ducted inlet, Ducted outlet. Ratings do not include the effect of duct end correction. Performance certified is for Installation Type D; Ducted inlet, Ducted outlet.

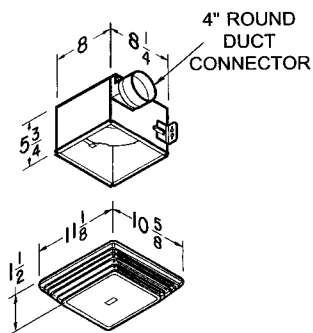
DUE TO CONTINUING RESEARCH, BREIDERT RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

DIMENSIONAL DATA - CEILING VENTILATOR

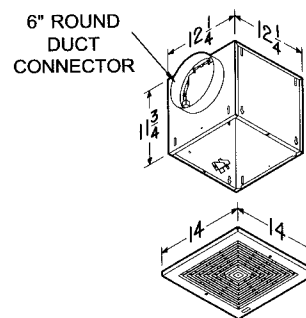
FF50



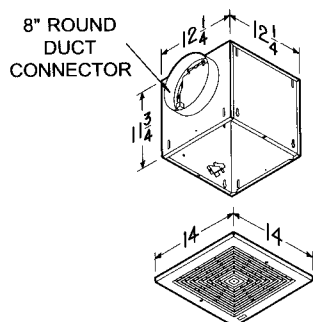
FF80



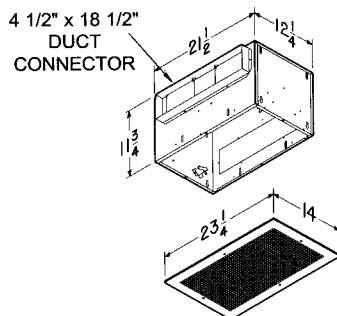
FF100 & 150



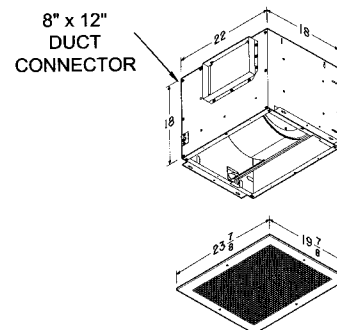
FF200, 250 & 300



FF400, 500 & 700

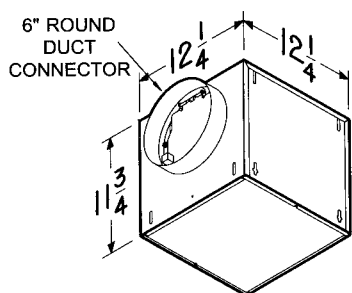


FF900 & 1500

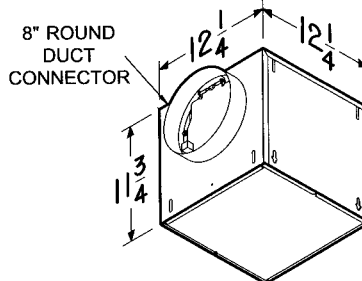


ET F/ Inline/Cabinet Ventilator

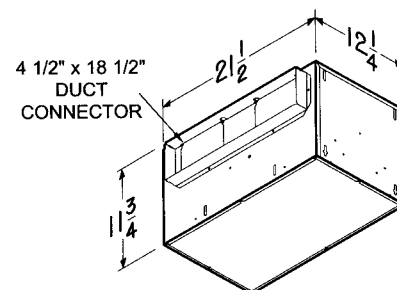
FFC100 & 150



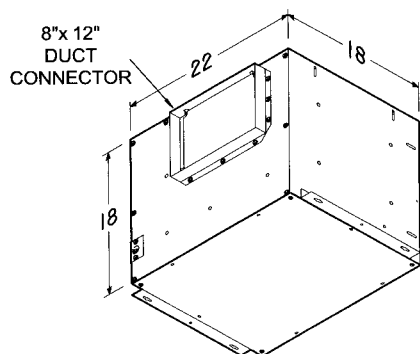
FFC200, 250 & 300



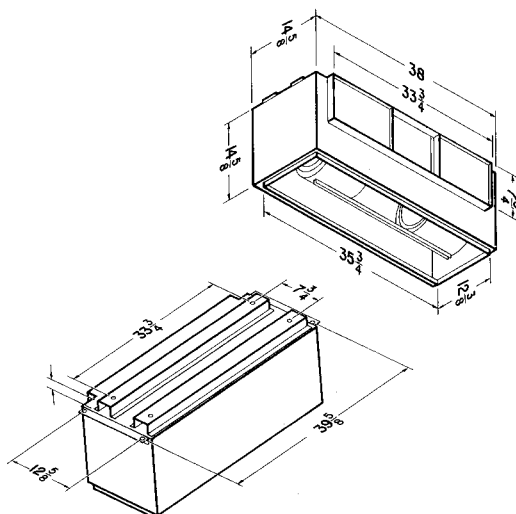
FFC400, 500 & 700



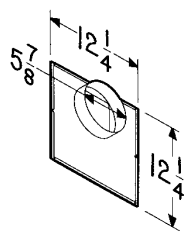
FFC900 & 1500



FFC2000

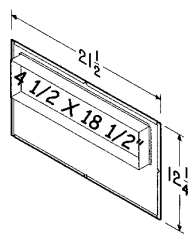


ACCESSORIES



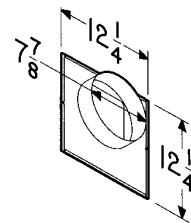
961L In-Line Adaptor Kit

- Galvanized steel
- Fits FF100 & FF150
- For 6" round duct intake



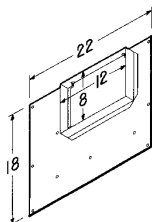
982L In-Line Adaptor Kit

- Galvanized steel
- Fits FF400, FF500 & FF700
- 4 1/2 x 18 1/2" duct intake



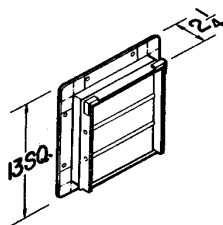
981L In-Line Adaptor Kit

- Galvanized steel
- Fits FF200, FF250 & FF300
- For 8" round duct intake



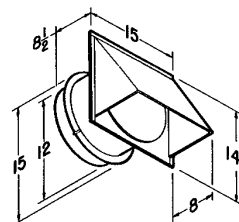
983 In-Line Adaptor Kit

- Galvanized steel
- Fits FF900 & FF1500
- 8" x 12" round duct intake



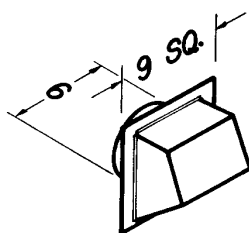
Model 441 Wall Cap

- Gravity dampers
- Collar with birdscreen for attaching 10" round duct
- Steel construction with aluminum louvers



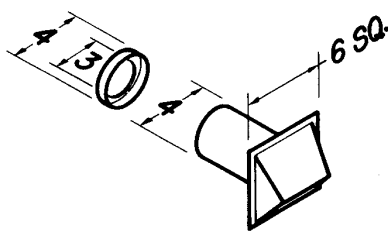
Model 613 Wall Cap

- High Capacity
- Built-in backdraft damper & birdscreen
- Aluminum natural finish
- For 12" round duct



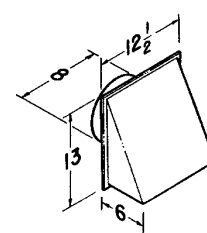
Model 641 Wall Cap

- Aluminum natural finish
- Built-in backdraft damper & birdscreen
- For 6" round duct



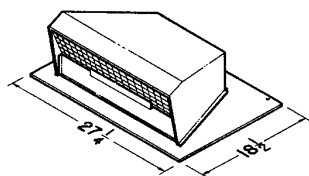
Model 642 Wall Cap

- Aluminum natural finish
- Built-in backdraft damper & birdscreen
- For 3" or 4" round duct (4" to 3" transition included)



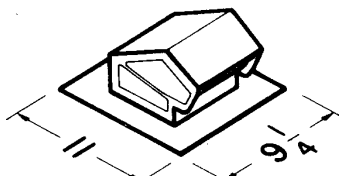
Model 643 Wall Cap

- Aluminum natural finish
- Built-in backdraft damper
- For 8" round duct



Model 437 Roof Cap

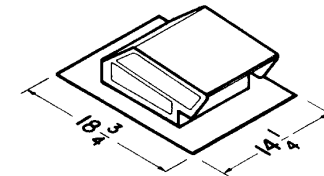
- High capacity design - up to 1200 CFM
- Built-in birdscreen
- Steel, black electrically - bonded epoxy finish



Model 636 Roof Cap

- Black electrically - bonded epoxy finish
- Built-in backdraft damper & birdscreen
- For 3" or 4" round duct

Model 636AL - Aluminum

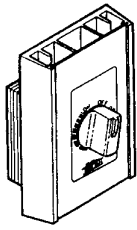


Model 634 Roof Cap

- Black electrically - bonded epoxy finish
- Built-in backdraft damper & birdscreen
- For 3 1/4" x 10" or up to 8" round duct

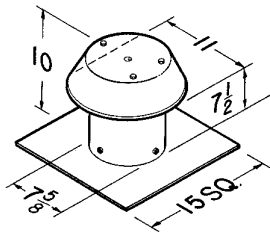
Model 644 - Aluminum

ACCESSORIES



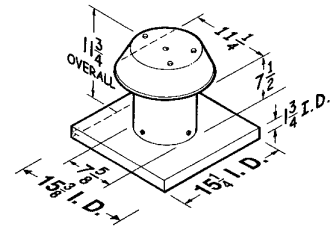
Speed Control

- Adjust speed from 100 to 50%
- 3 amp, 5 amp & 10 amp - 120V
- 6 amp - 240V



Model 611 Flat Roof Cap

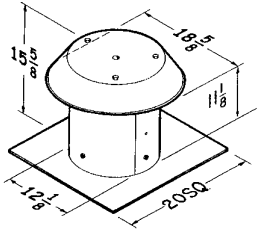
- For flat roof installation
- Aluminum - natural finish
- Built-in birdscreen
- For up to 8" round duct



Model 611CM

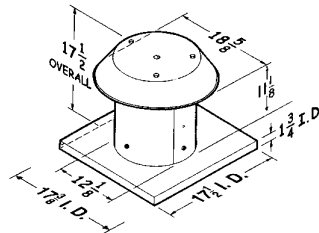
Curb Mount Roof Cap

- For curb mount installation
- Aluminum - natural finish
- Built-in birdscreen
- For up to 8" round duct



Model 612 Flat Roof Cap

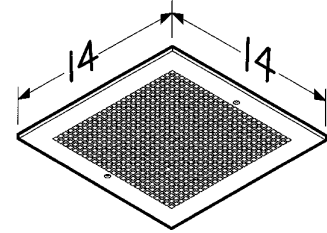
- For flat roof installation
- Aluminum - natural finish
- Built-in birdscreen
- For up to 12" round duct



Model 612CM

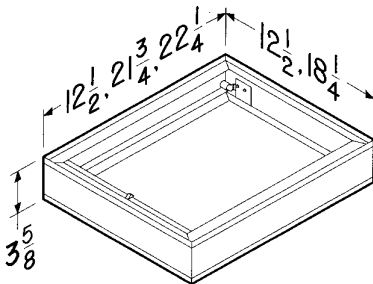
Curb Mount Roof Cap

- For curb mount installation
- Aluminum - natural finish
- Built-in birdscreen
- For up to 12" round duct



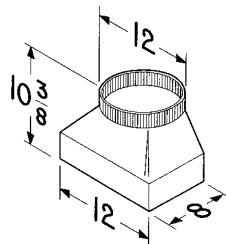
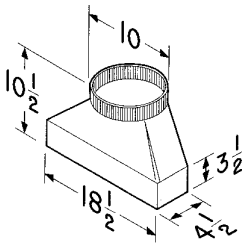
Model MG 1 Metal Grill Kit

- White enamel painted steel
- Mounting screws included
- Fits FF100, FF150, FF200, FF250 & FF300



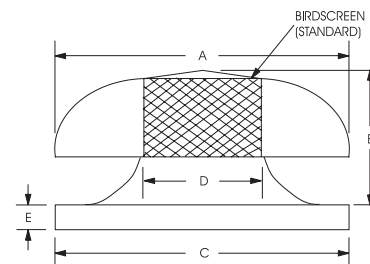
Models 423 & T81212 Duct Transitions

- Galvanized steel
- Allows for quick transition to easy-to-obtain-and-install round ducting
- 423 (4 1/2" x 18" to 10 round) for use with FF400 thru FF700
- T81212 (8" x 12" to 12" round) for use with FF900 and FF1500



Models RD1, RD2 & RD3 Radiation Dampers

- UL rated for use in 1, 2 or 3 hour rated floor-ceiling, roof-ceiling design
- Galvanized steel frame
- High temperature, non-asbestos, reinforced fiber thermal fabric
- 212°F fusible link
- Stainless steel negator-type closure spring
- RD1 (12 1/4" x 12 1/4") fits FF100 - FF300
- RD2 (21 1/2" x 18") fits FF400 - FF700
- RD3 (22" x 18") fits FF900 - FF1500



Model RCXII - 18" and 20" units

Size	A	B	C	D	E	Est. Wt.
18	32 3/4	12 1/2	29 1/2	18 5/8	2	35
20	32 3/4	12 1/2	29 1/2	20	2	35

MODEL FF/FFC

Optional Accessory Compatibility Chart

Ceiling & Inline/Cabinet Ventilators

STOCK NO.	CEILING MOUNT MODEL FF							IN-LINE/CABINET MODEL FFC					
VARIABLE SPEED CONTROLS	FF50 FF80	FF100 FF150	FF200 FF250 FF300	FF400 FF500	FF700	FF900	FF1500	FFC100 FFC150	FFC200 FFC250 FFC300	FFC400 FFC500 FFC700	FFC900	FFC1500	FFC2000
2727.I (5 AMP 120V)	X	X	X	X			X	X					
2828.I (10AMP 120V)		X	X	X	X	X	X	X	X	X	X	X	X
ROOF CAPS													
437				X	X					X			
611,611 CM	X	X	X					X	X				
612,612CM		X	X	X	X	X	X	X	X	X	X	X	X
634		X	X					X	X				
636	X												
RCX II - 18													X
RCX II - 20													X
WALL CAPS													
441				X	X					X			
613						X	X				X	X	
641		X						X					
642	X												
643			X						X				
IN-LINE ADAPTERS													
961L		X											
981L			X										
982L				X	X								
983L						X	X						
UL RADIATION DAMPERS													
RD1		X	X										
RD2				X	X								
RD3						X	X						
METAL GRILL KIT													
G102													X
MG1		X	X										
DUCT TRANSITIONS													
423				X	X					X			
T81212						X	X				X	X	
DAMPER KITS													
D100													X
VIBRATION DAMPENING HANGERS (4)													
v102		X	X	X	X	X	X	X	X	X	X	X	
HEAVY DUTY													
v104		X	X	X	X	X	X	X	X	X	X	X	X

For availability of accessories from stock - refer to the price list or contact your sales representative.