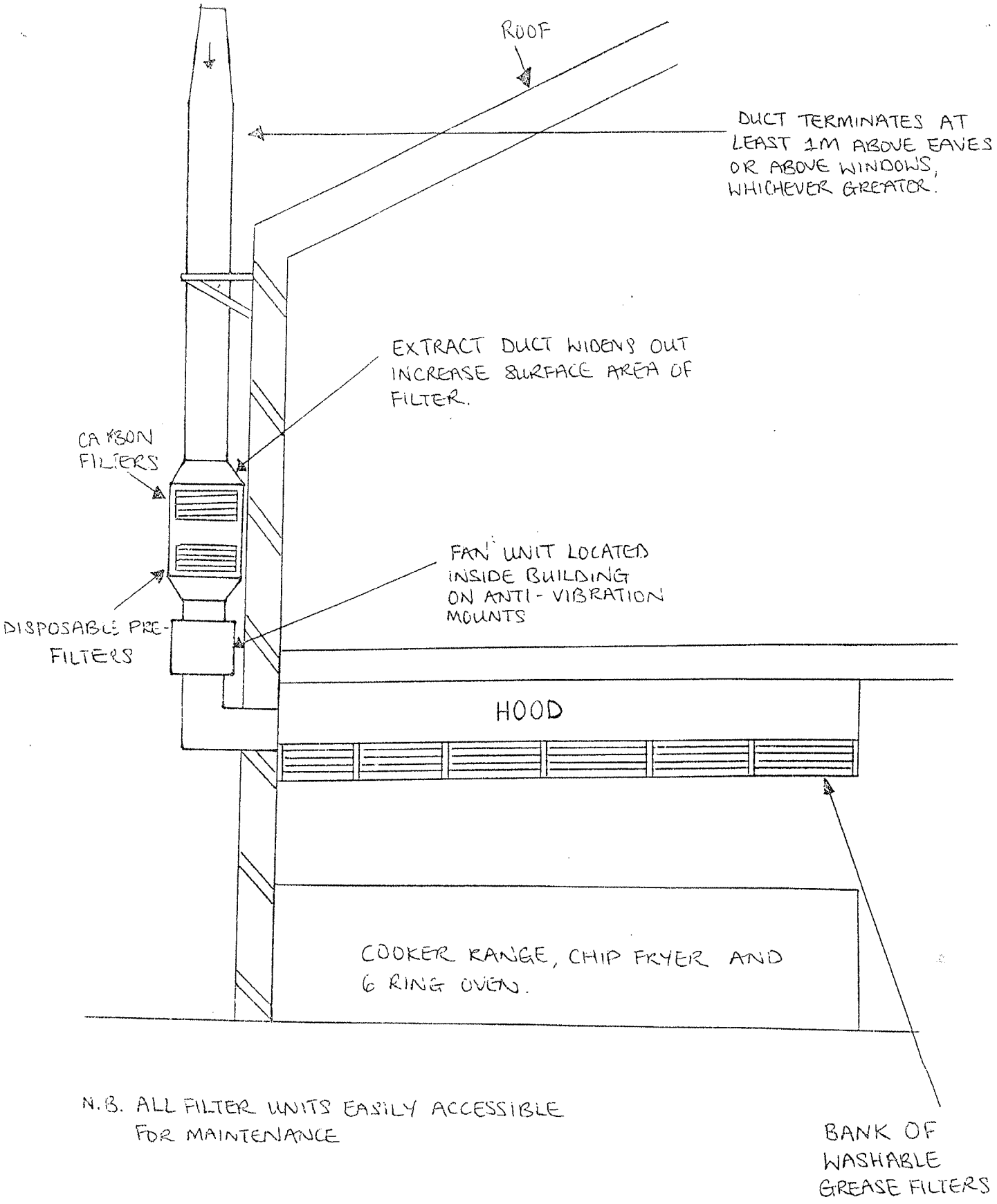


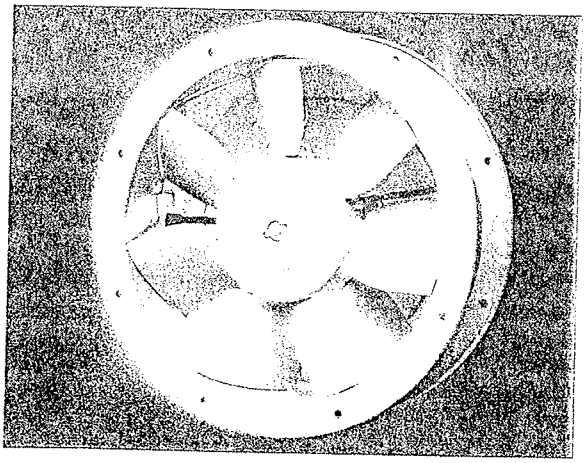
N.B. ALL FILTER UNITS EASILY ACCESSIBLE FOR MAINTENANCE

ST/0295/15/FUL

Received 02/04/15

Eurofoil

SHORT CASED AXIAL FANS



- **Sizes 250 to 630 protected to IP54.**
- **Motor Insulation Class F**
- **Operating Temperatures from -40°C up to +70°C**
- **HOT SPOT Protection**
- **IP54 Terminal Box**
- **Tough epoxy paint finish to RAL 7035**
- **Quality Assurance to BS EN ISO 9001:1994**
- **Performance tested to BS848 Part 1 198**

The **Eurofoil** short cased axial fans, shall be as supplied from **Roof Units,** designed around a high performance aluminium impeller and efficient matched motor to ensure a compact, lightweight, short cased design. The units shall be constructed from sheet steel with the motor and impeller mounted within the casing length, ensuring excellent performance and sound levels.

The steel casing and flanges, shall be rolled from a single sheet of steel, protected by a tough **fawn grey epoxy paint finish to RAL 7035,** suitable for coastal environments. Motor mounting supports, shall be manufactured from steel rod, electro welded for strength epoxy paint finished.

Sizes 250 to 630, shall have finger guards available as optional accessories, giving protection to **BS848** Part 5. All manufacturing of **Eurofoil,** shall be controlled to **BS EN ISO 9001** Standards.

IMPELLERS

The impellers shall be aerodynamically designed, utilising computer technology combining the impeller with the motor. The motor and impeller shall be factory matched, statically and dynamically balanced on precision machines, to **VDI 2060** Quality Class G.6.3. The aerodynamic blades and motor housing shall be of die cast aluminium.

MOTORS

Sizes 250 to 630, shall be protected to **IP54 against dust and water jets complying with BS EN 60529: 1992.** With motor insulation **Class F** as a minimum, suitable for **operating temperatures from -40°C to +70°C** (Sizes 315 & 355, 2 pole, 50°C Max.) The motors shall be wound to suit a 230V/1ph/50Hz or a 400V/3ph/50Hz electrical supply. 1 phase motors shall be permanent capacitor type to optimise efficiency. **HOT SPOT** protection, by means of a thermal contact switch incorporated within the windings, shall be provided to prevent motor damage due to overloading/overheating. Most models are suitable for speed control by either electronic, voltage reduction or frequency inverter where permissible.

TERMINAL BOX

An **IP54** terminal box, shall be supplied with all models from 250 to 800 mm, with 20 mm and PG11 entry, protected against dust and water jets from any angle ensuring suitability for external use.

EUROFOIL FORM OF RUNNING

Eurofoil short cased axial fans are to be supplied as standard for extract, with **Form 'B'** impellers, ensuring optimum performance. When used for intake and extract the fan can be wired for reverse running but a 30% (min.) reduction in performance will occur.

PERFORMANCE

The fan performance, shall be in accordance with tests to **BS848 Part 1 1980,** with the fan sound levels, measured in a reverberant chamber in accordance with **BS848 Part 2 1985.**

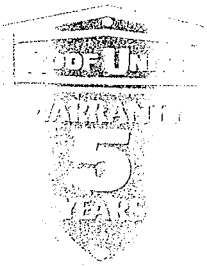
QUALITY ASSURANCE

Design and manufacture shall be in accordance with the standard for quality management systems **BS EN ISO 9001:1994.**

EUROFOIL ACCESSORIES

A full range of accessories are available with the **Eurofoil** short cased axial fans such as:

- Electronic Speed Controllers
- Auto Transformer Speed Controllers
- D.O.L. Starters
- Ancillary Packs consisting of: 4 Anti-Vibration Mounts, 2 Mounting Feet, 2 Matching Flanges and 2 Flexible Connections
- Mounting Feet
- Coupling Flanges
- Wire Guards
- Anti-Vibration Mounts
- Cased Attenuators with and without pods, 1 & 2 D in Length



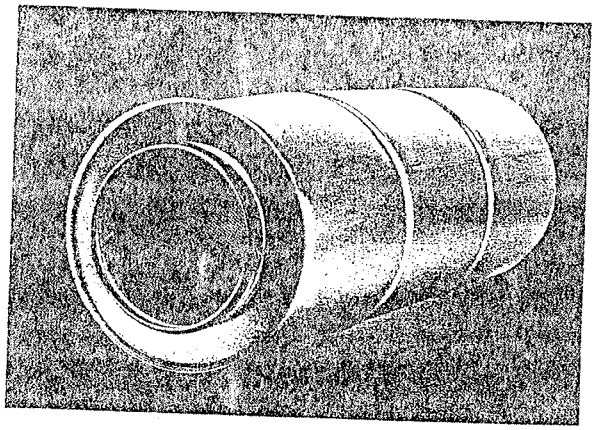
SHORT CASED AXIAL FANS

PERFORMANCE GUIDE & ELECTRICAL DATA

Unit Code	Nom. RPM	Phase	Duty - m³/s @ Pa 0	25	50	75	100	125	150	200	250	300	Motor kW	Amps FLC	Amps SC	dBA @3m
2 Pole																
CA250/2/1B	2500	1	0.614	0.591	0.569	0.544	0.517	0.465					0.24	1.2	4.3	59
CA250/2/3B	2500	3											0.24	0.5	3	
CA315/2/1A	2500	1	0.870	0.840	0.811	0.780	0.744	0.700	0.648	0.460	0.210		0.5	2.3	9.2	66
CA315/2/3A	2600	3	0.900	0.872	0.846	0.819	0.785	0.750	0.703	0.571	0.290		0.6	1.1	6.6	
CA350/2/1A	2000	1	1.060	0.985	0.915	0.847	0.770	0.680	0.540	0.202			0.55	2.6	10.4	70
CA350/2/3A	2400	3	1.170	1.131	1.095	1.052	1.005	0.953	0.871	0.717	0.400	0.185	0.65	1.9	11.4	
4 Pole																
CA250/4/1B	1330	1	0.347	0.301									0.6	0.3	1.2	45
CA250/4/3B	1330	3											0.6	0.2	1.2	
CA315/4/1B	1300	1	0.650	0.571	0.496								0.10	0.6	2.4	49
CA315/4/3B	1300	3											0.15	0.3	1.8	
CA350/4/1B	1225	1	0.964	0.893	0.813								0.2	1	4	53
CA350/4/3B	1260	3											0.2	0.5	3	
CA400/4/1B	1200	1	1.416	1.333	1.220	1.084	0.940						0.34	1.6	6.4	57
CA400/4/3B	1360	3											0.33	0.8	4.8	
CA450/4/1B	1370	1	1.972	1.874	1.782	1.700	1.610	1.482					0.62	2.7	10.8	57
CA450/4/3B	1400	3											0.63	1.6	9.6	
CA500/4/1B	1300	1	2.697	2.610	2.525	2.440	2.350	2.245	2.120				0.80	3.5	14	61
CA500/4/3B	1350	3											0.88	1.7	10.2	
CA560/4/1B	1340	1	3.827	3.755	3.674	3.579	3.460	3.305	3.125				1.68	7.7	30.8	65
CA560/4/3B	1370	3											1.52	2.8	16.8	
CA630/4/3B	1400	3	5.056	4.960	4.863	4.756	4.633	4.500	4.351	4.020			2.2	4.0	24	67
6 Pole																
CA350/6/1B	800	1	0.617	0.510									0.09	0.5	2	39
CA350/6/3B	875	3											0.09	0.3	1.8	
CA400/6/1B	750	1	0.900	0.770									0.11	0.6	2.4	44
CA400/6/3B	830	3											0.11	0.3	1.8	
CA450/6/1B	890	1	1.275	1.119	0.932								0.24	1.2	4.8	55
CA450/6/3B	910	3											0.20	0.5	3.0	
CA500/6/1B	890	1	1.694	1.591	1.395								0.31	1.7	6.8	58
CA500/6/3B	900	3											0.27	0.6	3.5	
CA560/6/1B	900	1	2.411	2.269	2.080								0.55	2.8	11.2	61
CA560/6/3B	900	3											0.47	1.0	6.0	
CA630/6/1B	930	1	3.611	3.450	3.250	3.010	2.700						0.98	5.4	21.6	64
CA630/6/3B	950	3											0.86	2.8	16.8	

FLC = Full Load Current SC = Starting Current

CIRCULAR SOUND ATTENUATORS



- **Low cost – exceptional performance, ex-stock availability**
- **Sheet steel casing and end plates. 30 minute fire rating as standard (60 minute available)**
- **Fitted spigot for direct connection to circular ductwork**
- **Patented 'plug-in' seal fitting**

APPLICATION DATA

The effective and economic solution for sound attenuation in circular duct systems from 100 to 500mm diameter. With at least three models per size throughout the range the system designer is given complete flexibility of choice allowing a selection which is the best balance of attenuation, size and cost for any application.

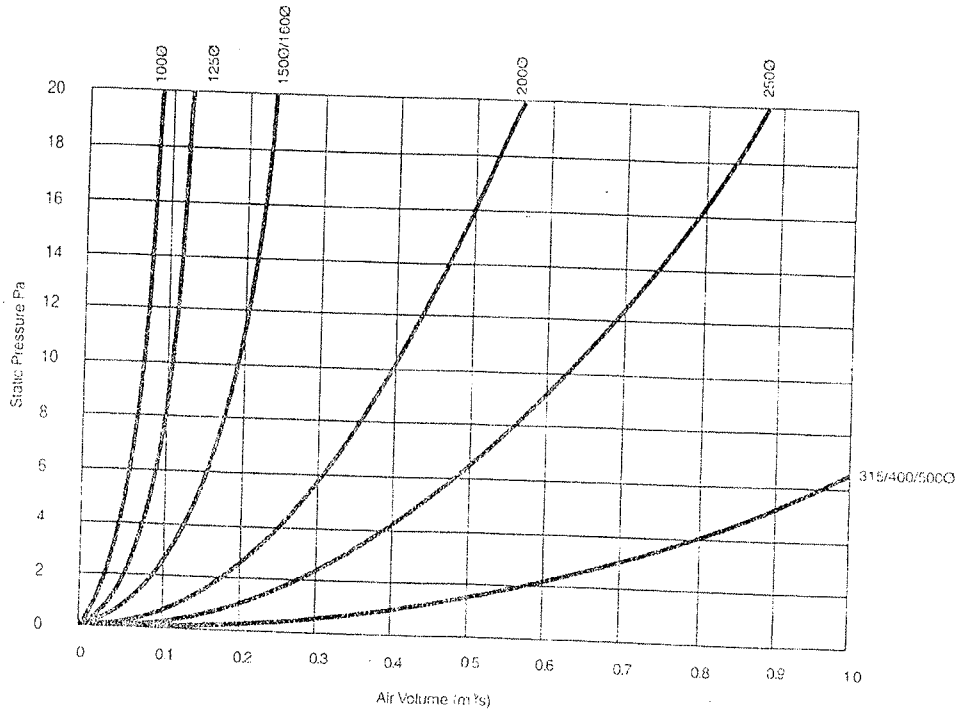
Sonex Attenuators are fitted with a patented duct seal which enables leak free 'plug-in' connection to rigid ductwork with consequent savings of installation costs. The excellent attenuation characteristics of the **Sonex** range are achieved without imposing undue system resistance. Pressure losses are little more than those which would occur over a comparable section of straight duct.

Developed and refined in one of the most modern and comprehensively equipped facilities in Europe. Production samples are regularly re-tested at these same laboratories and we guarantee that **Sonex Attenuators** will perform to stated figures as a minimum.

CONSTRUCTION

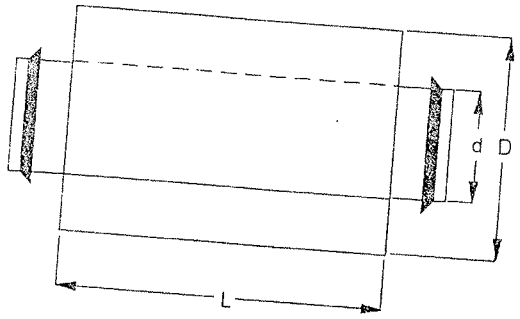
The attenuator consists of a perforated tubular liner manufactured from sheet steel. The liner is enclosed by a thick layer of mineral wool sound absorbing material. Casing and end plates are formed from galvanised sheet steel. Standard models have a 30 minute fire rating (60 minutes also available)

PRESSURE LOSS GRAPH



CIRCULAR SOUND ATTENUATORS

INSERTION LOSS, DIMENSIONS & WEIGHTS



Code No	Attenuation dB mid Frequency Hz								Dimensions (mm)			Weight
	63	125	250	500	1K	2K	4K	8k	d	D	L	kg.
010-030	3	3	9	17	23	26	25	13	100	200	300	2.5
010-060	6	9	15	34	40	40	37	18	100	200	600	4
010-090	10	13	21	40	45	39	36	16	100	200	900	7
012-030	3	3	7	16	20	24	22	17	125	225	300	3.5
012-060	5	8	13	29	35	35	32	22	125	225	600	4.5
012-090	10	12	19	37	40	38	34	32	125	225	900	8
015-030	3	3	6	13	19	23	22	16	150*	260	300	4
015-060	5	7	12	24	30	35	31	20	150*	260	600	6
015-090	8	10	15	32	38	37	34	29	150*	260	900	9
020-060	4	6	10	20	27	33	19	17	200	300	600	7.5
020-090	8	9	14	28	32	35	28	25	200	300	900	11
020-120	10	12	17	36	41	43	28	26	200	300	1200	14
025-060	4	5	10	19	25	29	18	17	250	355	600	10
025-090	6	7	12	23	30	30	22	19	250	355	900	14.5
025-120	8	10	15	32	37	38	26	20	250	355	1200	18
031-060	4	5	8	15	20	22	17	15	315	400	600	13
031-090	5	7	10	20	30	29	18	16	315	400	900	17.5
031-120	7	9	13	22	32	33	19	18	315	400	1200	21
040-090	3	5	9	19	26	20	13	11	400	606	900	38
040-120	6	8	14	24	30	28	17	9	400	606	1200	50
050-090	3	4	9	15	23	17	12	11	500	711	900	43
050-120	5	7	13	18	26	23	15	9	500	711	1200	60

* Also available with a 160 dia spigot

Sonex Attenuators can be economically applied in even the smallest system. The table gives selection data on attenuators suitable for use with the smaller fan system or for attenuation on branch ductwork. Full technicc! details on the complete range are available on request.

Nominal Duct Dia.* ins	mm	For Normal Attenuation	For Medium Attenuation	For High Attenuation
4"	100	010-030	010-060	010-090
5"	125	012-030	012-060	012-090
6"	150	015-030	015-060	015-090
8"	200	020-060	020-090	020-120
10"	250	025-060	025-090	025-120
12.3"	315	031-060	031-090	031-120
16"	400	–	040-090	031-120
20"	500	–	050-090	050-120

* See Detailed Dimension table above

BAFFLE TYPE
GREASE FILTERS

AIR FLOW CHARACTERISTICS
SERIES F30, F31, F35, F36, F50 and F51

CFM VS. STATIC PRESSURE

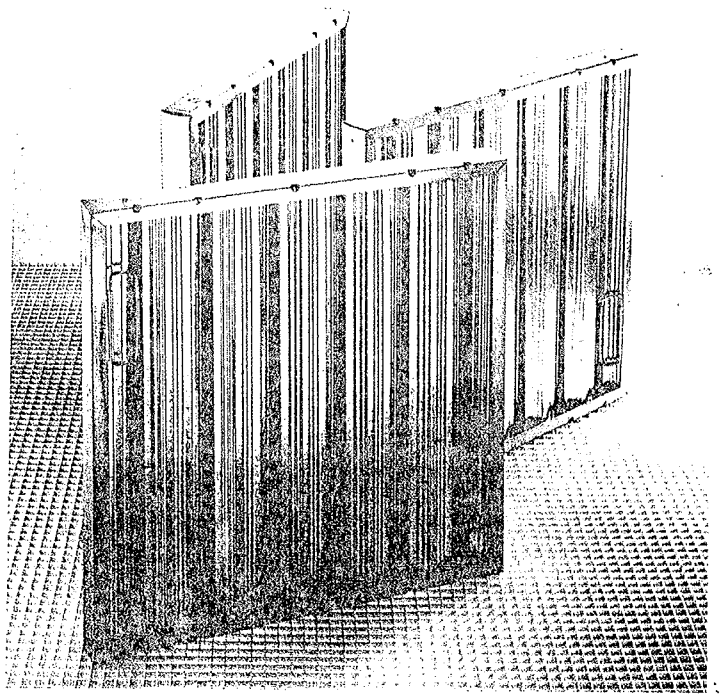
STATIC PRESSURE

FLOW RATE CFM	FILTER SIZE							
	10 x 20	12 x 16	12 x 20	16 x 16	16 x 20	20 x 20	16 x 25	20 x 25
200	0.13	0.15	0.10	0.07	0.04	0.04	0.04	0.03
250	0.20	0.23	0.16	0.12	0.07	0.06	0.07	0.04
300	0.29	0.33	0.23	0.17	0.09	0.08	0.09	0.06
400	0.52	0.59	0.40	0.30	0.17	0.15	0.17	0.11
450	0.66	0.75	0.51	0.38	0.21	0.19	0.21	0.14
500	0.81	0.93	0.63	0.46	0.26	0.23	0.26	0.18
550	0.98	1.12	0.76	0.56	0.32	0.28	0.32	0.21
600	1.17		0.90	0.67	0.38	0.33	0.38	0.25
650			1.06	0.79	0.45	0.39	0.44	0.30
700				0.91	0.52	0.45	0.51	0.35
750				1.05	0.59	0.52	0.59	0.40
800					0.68	0.59	0.67	0.45
850					0.76	0.67	0.75	0.51
900					0.85	0.75	0.85	0.57
950					0.95	0.83	0.94	0.64
1000					1.05	0.92	1.04	0.71

EFFECTIVE AREA

THE EFFECTIVE AREAS FOR THE FOLLOWING NOMINAL SIZE FILTERS ARE:

10″ x 20″ x 2″ . . . . . 1.00 SQUARE FEET
12″ x 16″ x 2″ . . . . . .97 SQUARE FEET
12″ x 20″ x 2″ . . . . . 1.25 SQUARE FEET
16″ x 16″ x 2″ . . . . . 1.36 SQUARE FEET
16″ x 20″ x 2″ . . . . . 1.75 SQUARE FEET
20″ x 20″ x 2″ . . . . . 2.25 SQUARE FEET
16″ x 25″ x 2″ . . . . . 2.24 SQUARE FEET
20″ x 25″ x 2″ . . . . . 2.88 SQUARE FEET



BAFFLE TYPE GREASE FILTERS

AVAILABLE IN STANDARD COMMERCIAL SIZES IN . . .

ALUMINUM . . .
LIGHTWEIGHT FOR EASE OF HANDLING

GALVANIZED STEEL . . .
FOR STRONG RUGGED PERFORMANCE, SUPERB CORROSION RESISTANCE, and ABSOLUTE LOW COST

STAINLESS STEEL . . .
FOR TOUGH COMMERCIAL KITCHEN ABUSE, and MAXIMUM, PERMANENT PROTECTION AGAINST RUST and CORROSION

- SAFE, DEPENDABLE, POSITIVE FLAME BARRIER PROTECTION.
- SEAMLESS, SMOOTH SURFACES PERMIT CONSTANT GREASE RUN-OFF INTO HOOD COLLECTION TROUGHS . . . EASILY CLEANED BY SOAKING, SPRAYING OR IN CONVENTIONAL DISHWASHER
- DESIGNED TO REPLACE MESH TYPE FILTERS WITHOUT COSTLY HOOD MODIFICATIONS

COMPONENT HARDWARE GROUP: GREASE FILTER CLASSIFIED BY UNDERWRITERS LABORATORIES, INC. AS TO FLAMMABILITY AFTER EXPOSURE TO GREASE LADEN AIR ONLY (54-46),—FILE #R 10173
ACCEPTED FOR USE BY CITY OF NEW YORK—DEPARTMENT OF BUILDINGS–MEA #137-82-M

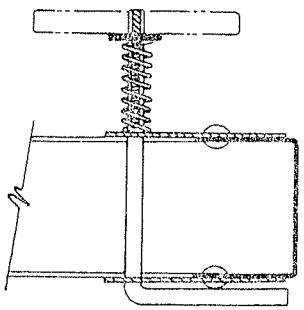
Inches
H x W

BAFFLE TYPE GREASE FILTERS

SIZE	ALUMINUM MODEL NO.	ALUMINUM WGT.(LBS.)	GALVANIZED STEEL MODEL NO.	GALVANIZED STEEL WGT.(LBS.)	STAINLESS STEEL MODEL NO.	STAINLESS STEEL WGT.(LBS.)
10 x 16	F30-1016	2	F35-1016	3½	F50-1016	3½
12 x 16	F30-1216	2⅛	F35-1216	4	F50-1216	4
16 x 16	F30-1616	2½	F35-1616	4½	F50-1616	4½
20 x 16	F30-2016	3	F35-2016	5½	F50-2016	5½
25 x 16	F30-2516	3¾	F35-2516	6⅝	F50-2516	6⅝
10 x 20	F30-1020	2¼	F35-1020	4⅜	F50-1020	4⅜
12 x 20	F30-1220	2½	F35-1220	4½	F50-1220	4½
16 x 20	F30-1620	3¼	F35-1620	6	F50-1620	6
20 x 20	F30-2020	4	F35-2020	7⅛	F50-2020	7⅛
25 x 20	F30-2520	4½	F35-2520	8½	F50-2520	8½
10 x 25	F30-1025	2¾	F35-1025	5	F50-1025	5
12 x 25	F30-1225	3	F35-1225	5½	F50-1225	5½
16 x 25	F30-1625	3¾	F35-1625	6⅞	F50-1625	6⅞
20 x 25	F30-2025	4½	F35-2025	8	F50-2025	8

NOTES: First two numbers of size indicate vertical height. Second two numbers represent horizontal width, both are nominal dimensions. Actual size of filters are 7/16" less than nominal. Actual thickness is 1¾". Standard package consists of six filters.

ALL FILTERS ARE SUPPLIED WITH DROP HANDLES. FILTERS WITH LOCKING HANDLES ARE AVAILABLE TO COMPLY WITH MARYLAND, VIRGINIA AND WASHINGTON, D.C. SPECIFICATIONS FOR COMMERCIAL HOODS. TO ORDER STATE SIZE WITH PREFIX F31 FOR ALUMINUM, F36 FOR GALVANIZED STEEL AND F51 FOR STAINLESS STEEL.



COMPONENT HARDWARE GROUP INC.
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PHONE: 908/363-4700 800/526-3694 FAX: 908/364-8110 TELEX: 299434