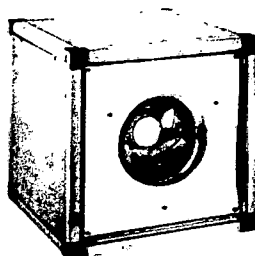


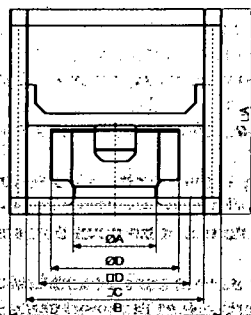
Multibox fans

MUB 450DS/ 500E4



- Speed-controllable
- Modular system
- Integral thermal contacts
- Low sound level
- Maintenance-free and reliable

All MUB fans have impellers with backward curved blades, manufactured from aluminium. The MUB 450-500 is equipped with external rotor motors, fully speed controllable. The casing consists of an aluminium frame with fiber-glass reinforced plastic corners and double skin, galvanised steel panels with a 20 mm mineral wool insulation. Panels are removable, allowing flexible ventilation solutions.



All three phase motors are D/Y connected for two speed operation. Motor protection by thermal contacts, to be connected to an external motor protection device.

The Multibox fans are delivered for straight thru airflow, but can easily be rebuilt to 90° air direction airflow. Changing the airflow direction see page 113.

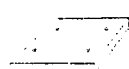
	ØA	ØB	ØC	ØD	ØE
MUB042 450	670	670	590	548	1454
MUB042 500	670	670	590	548	1504

MUB042		450DS-A2	500E4-A2
Voltage/Frequency	V/50 Hz	400	230
Phase		3	1
Power	W	270	1300
Current	A	0,47	5,70
Maximum air flow	m³/h	3950/3550	7740/6840
R.p.m.	min⁻¹	855	1340
Max. temp. of transported air	°C	40	40
Max. temp. of transported air when speed controlled	°C	40	40
Sound pressure level at 3 m	dB(A)	44	56
Weight	kg	60	68
Insulation class, motor		F	F
Enclosure class, motor		IP 54	IP 54
Capacitor	µF	-	30
Motor protection		STDT 16	S-ET 10
Speed control, five-step	Transformer	RTRD 2	RTRE 7
Speed control, five-step high/low	Transformer	RTRDU 2	REU 7 + S-ET 10
Speed control, D/Y two step 400V		S-DT2SKT	-
Wiring diagram p. 12-15		18	6

Accessories



FGV p. 498



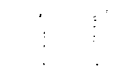
SRKG p. 499



WSD p. 498



UGS p. 498

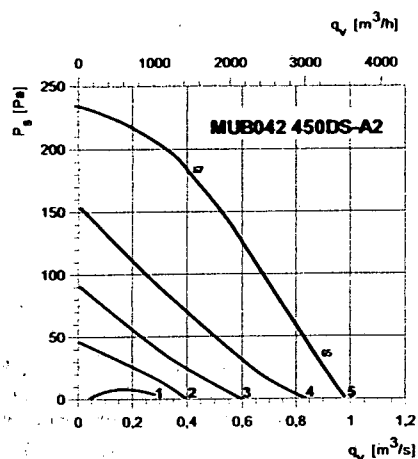
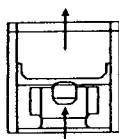
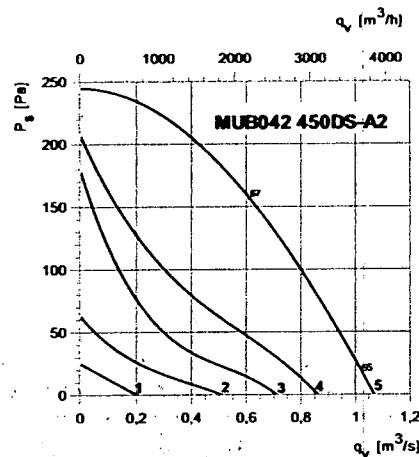
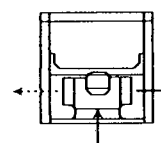
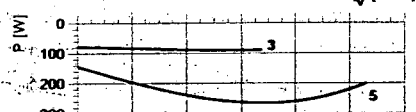
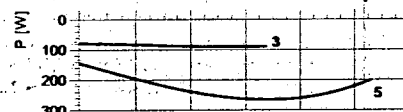
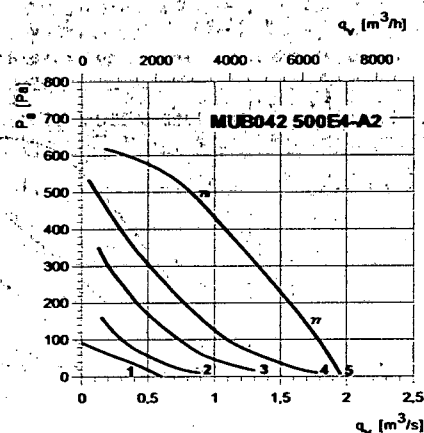
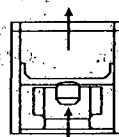
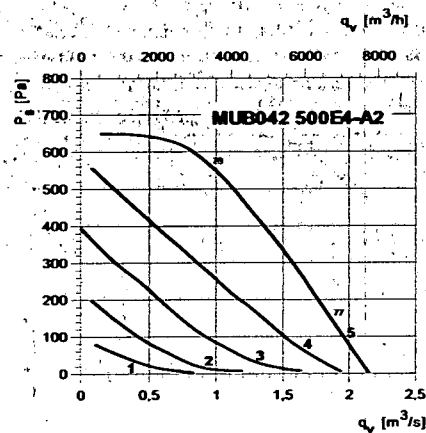
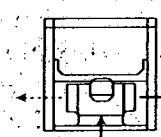
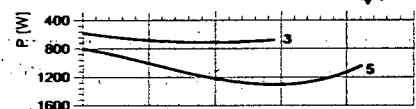
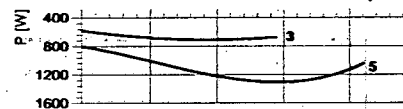


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EP/156/05.



Multibox fans

**MUB042 450DS-A2**

Mid-frequency band, Hz

	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	dB(A)	67	54	56	61	62	62	58	53	45
L_{wA} Outlet	dB(A)	69	56	58	63	64	64	60	55	47
L_{wA} Surrounding	dB(A)	51	38	40	45	46	46	42	37	29

Measuring point: $q_v = 0,7$ m³/s, $P_s = 130$ Pa**MUB042 500E4-A2**

Mid-frequency band, Hz

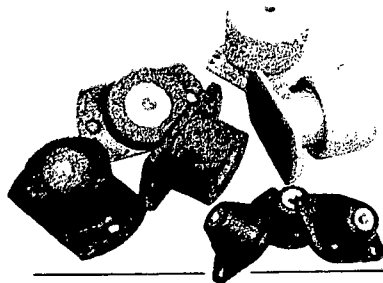
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	dB(A)	79	66	68	72	74	73	70	65	58
L_{wA} Outlet	dB(A)	81	68	70	74	76	75	72	67	60
L_{wA} Surrounding	dB(A)	63	50	52	56	58	57	54	49	42

Measuring point: $q_v = 1,35$ m³/s, $P_s = 380$ Pa

Electrical accessories

Transformer
p. 454/4552-step switch
p. 463Motor protection p. Isolator p. 462
463/464

EP/156/05.



Anti Vibration Mounts (AV's)



Addendum to
IGM 671186

Introduction

Anti-vibration mounting kits are available in both rubber and spring type, the correct selection and type employed will depend on the accurate calculation of the weight of the assembly to be supported.

Installation

AV mounts should not be fitted to a fan/silencer assembly unless there are flexible connectors fitted between the assembly and associated duct work.

AV mounts should be installed with the matched mounting feet and positioned such that they carry an equal proportion of the assembly weight. This is particularly important where fans and silencers are installed on suspension rods.

Figure 1. SAVAV 1 to SAVAV 5 (Resilient Rubber)

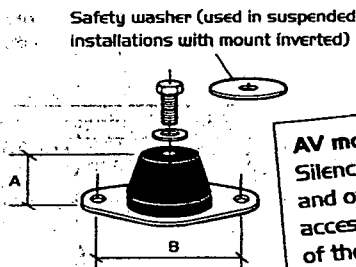


Figure 2. SAVAV 6 (Resilient Rubber)

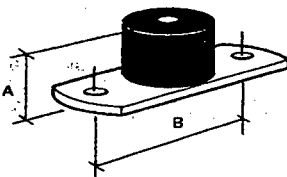
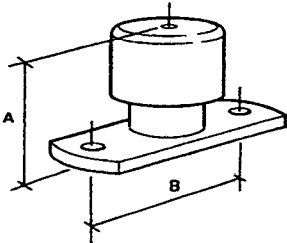


Figure 3. SAVAV 49 to SAVAV 58 (Spring)



AV mounts are maintenance free but a periodical inspection is recommended to check security of fixings and condition of rubbers and springs.

Resilient Mounting Details

Figure 4.

SAVAV 1 to SAVAV 5 shown in floor (Figure 4) and suspended configurations (Figure 5). Fans using size SAVAV 6 upwards require supporting steelwork to be designed (by others) for suspended applications.

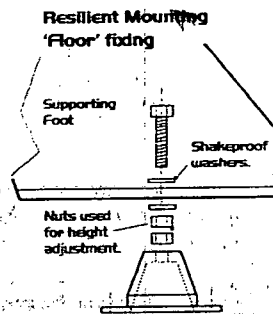
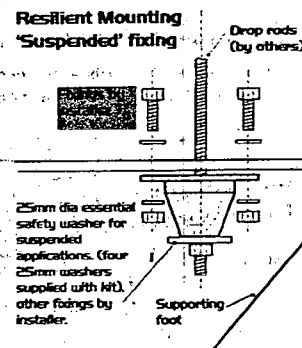


Figure 5.



AV mounts isolate the fan only. Silencers/backdraught dampers and other "significant mass" accessories should form part of the fixed ductwork after the flexible connection.

Dimensions (mm) and Weights

Rubber Type

Code	A	B	Max. kg per kit
SAVAV1	30	50	20
SAVAV2	40	75	80
SAVAV3	40	75	180
SAVAV4	40	75	260
SAVAV5	40	75	130
SAVAV6	50	100	320

Spring Type

SAVAV49	77	76	400
SAVAV50	77	76	480
SAVAV51	77	76	520
SAVAV52	87	127	600
SAVAV53	87	127	700
SAVAV54	87	127	800
SAVAV55	87	127	950
SAVAV56	87	127	1110
SAVAV57	87	127	1270
SAVAV58	87	127	1430



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Leaflet Number 671256 February 2004



SAVLX Ancillaries



Addendum to
ISM 67186

Introduction

A range of ancillaries is available to match the SAVLX range of fans. Although the information below is general, all the conditions, advice and guidance given in the SAVLX ISM strictly apply.

Handling

Handle all materials with care and ensure ancillaries are sound and correctly match the fan/s before attempting to fit. All ancillaries require fixing to fan flange/s at required position and with appropriate fixings, locking nuts, bolts and washers.

Figure 1. Mounting Brackets

Install with or without AV's. Secure to floor, building structure or suspension frame.

CODES: SAVCMB 3I (typical)

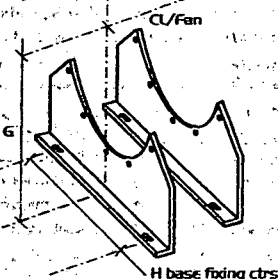


Figure 2. Inlet Cone

(Wire Guard Optional)

Manufactured in heavy gauge galvanised steel with a single bolted flange. Guarded version optional.

Standard Accessory Losses (k)
Low loss inlet cone → 0.38

CODES: SAVCIC 3I (typical)

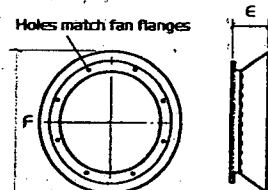


Figure 3. Matched Bolted Flange

To allow any ductwork or flex to be terminated with a bolted flange. Manufactured from heavy gauge galvanised steel.

CODES: SAVCMF 3I (typical)

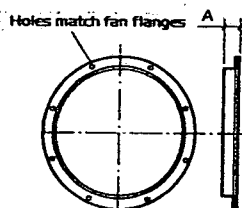


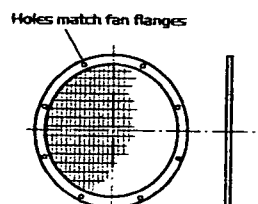
Figure 4. Wire Guards

Hot dipped galvanised for either inlet or outlet fixing. Fitted with a single bolted flange.

Standard Accessory Losses (k)

Flat type
Finger guard → 0.75

CODES: SAVCGD 3I (typical)



For details of starters and speed controls refer to the ISM documents supplied with that product.

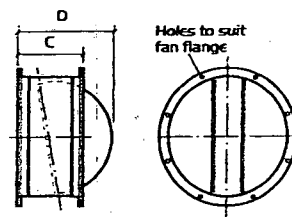
Figure 5. Backdraught Damper

Gravity operated damper to prevent backdraughts. Manufactured in heavy gauge galvanised steel with a pair of bolted flanges

Standard Accessory Losses (k)

(Airstream operated) → 0.4

CODES: SAVCBD 3I (typical)



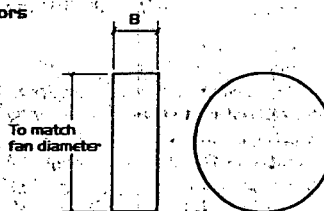
NB: Not suitable for vertical applications.

Figure 6. Flexible Connectors

Circular without flanges. Flexible duct material is flameproof resistant to heat up to 132°C, chemicals, ozone, oil and grease. The material is airtight, waterproof and tested to BS476 Part 7.

Secure to flange and ductwork with the clamping bands provided, ensure that duct misalignment is not corrected by the flexible connector and that it is neither too tight or too slack. Either condition can contribute to noise and impair fan performance.

CODES: SAVCFC 3I (typical)



Dimensions (mm) and Weights

Fan Size cm	A	B	C	D	E	F	G	H	Guard kg	Inlet cone kg	B/draught damper kg
25	65	150	350	350	85	355	170	300	0.4	15	6
31	65	150	350	350	85	405	210	355	0.5	2	75
35	65	150	350	350	90	460	240	395	1	2	9
40	65	150	350	350	90	520	270	450	1.5	3	11
45	65	150	350	350	90	580	300	500	1.7	4	14
50	65	150	350	350	100	650	340	560	2.3	5	16.5
56	65	150	350	360	100	700	370	620	2.8	6	20
63	65	150	350	400	80	830	430	690	3.2	9	22.5
71	65	150	350	440	170	920	470	770	3.7	11	27.5
80	65	150	350	470	200	1050	540	860	4	13	35
90	65	150	350	520	220	1180	600	970	7	20	55
100	65	150	350	580	230	1300	670	1070	7	23	66.5
112	65	150	350	920	260	1450	750	1190	8	32	80
125	65	150	350	985	300	1600	830	1320	8	40	88
140	65	150	500	1000	320	1850	940	1480	10	45	110
150	65	150	500	1100	550	1760	1000	1560	13	48	125
160	65	150	500	1200	-	-	1070	1660	15	-	140
180	65	150	500	1300	-	-	1025	1870	18	-	220
200	65	150	500	1500	-	-	1250	2080	20	-	266

Maintenance

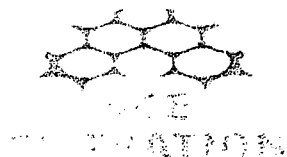
Ancillaries do not require any maintenance but it is advisable to check the fixings security periodically and for any build up of dirt and debris.



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Leaflet Number 671255 February 2004

EP/156/05.



ORDER Replacement Filters

HOME - INDUSTRIAL AND COMMERCIAL FILTERS ONLINE - DOMESTIC FILTE

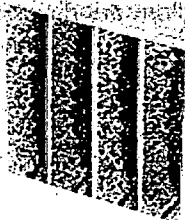
High Capacity Bag Filters

Grades G4 and F5

ACE high capacity bag filter type AB has been developed for **high quality air conditioning systems** and parti with higher than normal dust loads.

These filters are a simple to fit, inexpensive alternative to many existing installations, or they can be used for ne with AC holding frames. The standard high capacity filters are available in two efficiencies and three lengths. T grades G4 and F5 when tested to BS EN779:1993. They are also ideal as a permanent highly economical repl ageing roll filter installation.

ACE high capacity bag filters can be made to any size and length to suit customers' special requirements.



Construction

Media:

Lofted non-woven synthetic material with thermally bonded fibres which conform to BS5588 P19 and CP41 3.

Frame:

Galvanised outer frame 22mm deep. Other frame depths are available.

Holding Frames:

Both front and side withdrawal holding available for ACE high capacity fi
Details are shown on a separate page.

Technical Data

Maximum temperature:	248°F (120°C)
Maximum humidity:	100%
Rated volume:	See table
Maximum volume:	To 40% above rated volume.
Performance:	Type AB20 Grade G4 > 90% arrestance Type AB45 Grade F5 45% efficiency

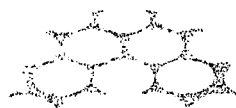
Servicing

ACE high capacity filters should be changed or dirty resistance has risen to 1" wg (250 Pa). O should be disposed of and new ACE high capa filters installed.

Standard Sizes and Rated Volumes

Type	Nominal size		Rated volume		Initial resistance	
	Inches	mm	CFM	m3/s	"wg	Pa
AB20	24 x 24 x 8	610 x 610 x 203	1750	0.83	0.11	27
	24 x 24 x 14	610 x 610 x 356	2300	1.08	0.14	35
	24 x 24 x 20	610 x 610 x 508	3000	1.42	0.20	50

EP/156/05.



This filter has been designed for simplicity

CLICK ON THE PRODUCTS BELOW

Standard Duty
Extra Duty

Ace Filtration Limited

Arflow Works
Beynart Road, Northolt
Uxbridge, Middlesex, UK

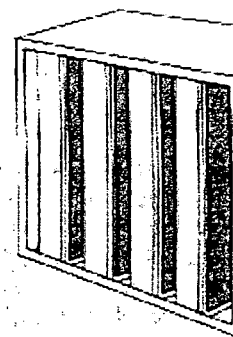
Tel: +44 (0) 1875 825000
Fax: +44 (0) 1875 825001

Type ACD Activated Carbon Filters (Disposable)

Type ACD carbon filters manufactured by Ace Filtration are self contained units which are completely disposable. They comprise of chemically bonded carbon panels permanently sealed within a galvanised steel casing.

Grades of carbon equivalent to 203c and 20c are available from stock. Special carbons be provided to suit specific requirements.

The filters can be manufactured to any reasonable size to suit existing ductwork or air handling units. Sizes and carbon weights can also be adjusted to suit existing installations or other units on the market.



Technical Data

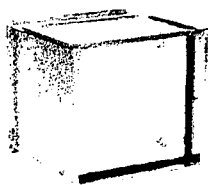
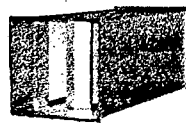
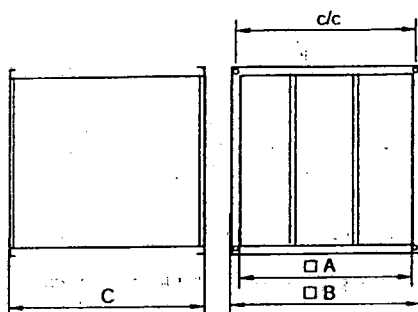
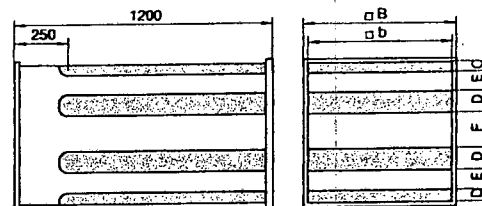
Standard Duty

Nominal size inches	Actual size mm	Air volume		Air resistance		Carbon weight kg.
		c.f.m.	m3/s	Ins. w.g.	Pa	
24 x 24 x 24	597 x 597 x 597	1725	0.81	0.16	40	38
24 x 24 x 18	597 x 597 x 451	1300	0.61	0.16	40	29
24 x 24 x 12	597 x 597 x 298	860	0.40	0.16	40	19
18 x 18 x 24	451 x 451 x 597	860	0.40	0.16	40	19
18 x 18 x 18	451 x 451 x 451	650	0.31	0.16	40	14
18 x 18 x 12	451 x 451 x 298	435	0.20	0.16	40	10
12 x 12 x 24	298 x 298 x 597	460	0.22	0.16	40	10
12 x 12 x 18	298 x 298 x 451	325	0.15	0.16	40	7
12 x 12 x 12	298 x 298 x 298	215	0.10	0.16	40	5

Extra Duty

Nominal size inches	Actual size mm	Air volume		Air resistance		Carbon weight kg.
		c.f.m.	m3/s	Ins. w.g.	Pa	
24 x 24 x 24	597 x 597 x 597	2250	1.06	0.30	75	50
24 x 24 x 18	597 x 597 x 451	1700	0.80	0.30	75	38
24 x 24 x 12	597 x 597 x 298	1130	0.53	0.30	75	25
18 x 18 x 24	451 x 451 x 597	1150	0.54	0.30	75	25
18 x 18 x 18	451 x 451 x 451	860	0.40	0.30	75	19
18 x 18 x 12	451 x 451 x 298	570	0.27	0.30	75	13
12 x 12 x 24	451 x 451 x 298	565	0.27	0.30	75	13

Accessories



Silencer for square ducts

LDK is easily connected to our square duct fans type KDRE and KDRD. Noise suppression can be decided with use of the diagram.

Filter cassette for square ducts

Filter cassette with a bag filter standard type EU5 included. The cassette is made of galvanized steel with a hinged latch in the bottom for easy change of filter. It can be connected directly to the duct. Connections for a pressure sensor are standard. The recommended final pressure drop is 200 Pa.

	□A	c/c	□B	C
FFS 45	447	470	492	502
FFS 50	502	520	547	532
FFS 55	550	573	595	562
FFS 65	661	680	707	642
FFS 70	697	720	742	642

Filter cassette	Bag filter (incl. in FFS)	Filter media
FFS 45	BFS 45	EU5
FFS 50	BFS 50	EU5
FFS 55	BFS 55	EU5
FFS 65	BFS 65	EU5
FFS 70	BFS 70	EU5

	b	B	C	D	E	F
LDK 45	450	490	50	100	-	-
LDK 50	502	546	50	150	-	-
LDK 55	550	594	50	200	-	-
LDK 65	661	703	50	100	93	175

Noise suppression dB frequency band Hz

	125	250	500	1k	2k	4k	8k
LDK 45	5	8	13	12	8	7	7
LDK 50	7	8	13	12	9	8	7
LDK 55	9	9	13	12	10	9	8
LDK 65	6	7	14	13	9	8	7

