



LEWIS & CO

VENTILATION AND EXTRACTION DETAILS



Flexible anti-vibration connectors

EVA

for rectangular ducts

■ Use

- For damping of vibration generated by fans or ventilation equipment and transferred to air ducts for ventilation systems installed in various premises.
- For partial temperature distortion compensation in the ductworks.
- Compatible with rectangular 400x200 up to 1000x500 mm air ducts.

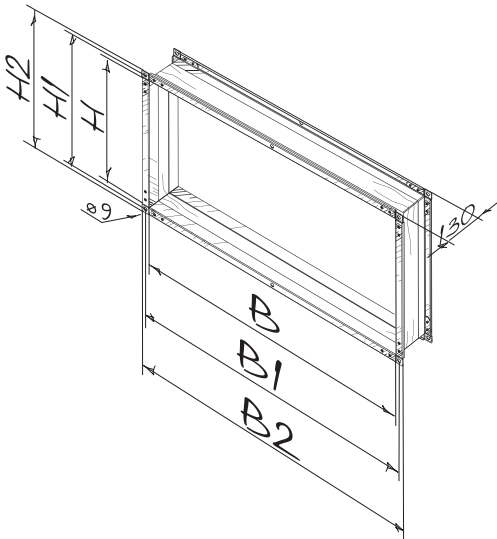
■ Design

- Two galvanized steel flanges.
- Connecting vibration-isolating material is made of nylon reinforced polyethylene fabric.
- Not designed for mechanical load and cannot be used as a load-carrying structure.

■ Mounting

- Mounting with galvanized bolts and clamps that fix the end flanges of the connector to the mating flanges of the air ducts or any other ventilation system components.

■ Overall dimensions



Type	Dimensions [mm]						Weight [kg]
	B	B1	B2	H	H1	H2	
EVA 40x20	400	420	440	200	220	240	1.1
EVA 50x25	500	520	540	250	270	290	1.4
EVA 50x30	500	520	540	300	320	340	1.6
EVA 60x30	600	620	640	300	320	340	1.82
EVA 60x35	600	620	640	350	370	390	1.95
EVA 70x40	700	720	740	400	420	440	2.4
EVA 80x50	800	820	840	500	520	540	2.8
EVA 90x50	900	920	940	500	520	540	3.0
EVA 100x50	1000	1020	1040	500	520	540	3.2

AW 400E4-L SILEO AXIAL FAN

Item no. **34164**

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Description

- speed controllable by voltage reduction, plus option of 2-step operation by D/Y switching for 400V versions
- inlet protection guard
- safe and maintenance free operation
- can be installed in any mounting position
- electric connection via terminal box mounted on the motor
- single phase fans are supplied with capacitor



Axial fans of the AW sileo range do have a bionic shape of the fan blade, and are driven by external rotor motors. The AW range is equipped with a square wall plate, galvanized steel and powder coated in black (RAL9005). The protection guard at the inlet side is powder coated in black. The axial impeller is manufactured from black high efficiency composite material. The impeller is balanced dynamically in two levels in accordance with DIN ISO 1940 part 1, quality G6.3.

The motors are equipped with thermal contacts for motor protection, with leads to be connected to a motor protection unit, for example Systemair unit S-ET.

Technical parameters

Voltage	230	V
Frequency	50	Hz
Phase	1	~
Input power (P1)	260	W
Current	1,15	A
Max. airflow	1,23	m³/s
R.p.m.	1320	r.p.m.
Max. temperature of transported air	55	°C
Max. temperature of transported air when speed-controlled	55	°C
Sound pressure level at 1 m	66	dB(A)
Weight	8,7	kg
Insulation class	F	
Enclosure class, motor	IP54	
Capacitor	5	µF

Accessories

Electric accessories

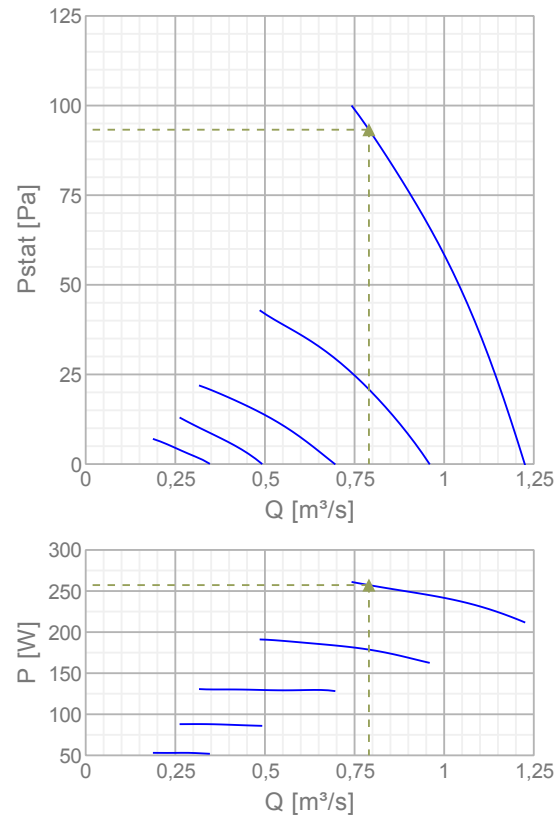
- [REU 1.5 Speed control \(5004\)](#)
- [RTRE 1.5 Speed control \(5008\)](#)
- [REE 2 Speed control \(5316\)](#)
- [AWE-SK Motorprotection 2A/230V \(5138\)](#)
- [S-ET 10 Motor Protection \(5154\)](#)
- [STL 1.5 Speed controller \(84251\)](#)
- [REV-5POL/05 ON/OFF \(33979\)](#)

Accessories

- [VK-40 Louvre shutter \(5643\)](#)
- [RAW 400/450 Roof Cowl c/w BG \(86511\)](#)
- [SG AW-D BGr 040, RAL 9005 \(30601\)](#)

Diagrams

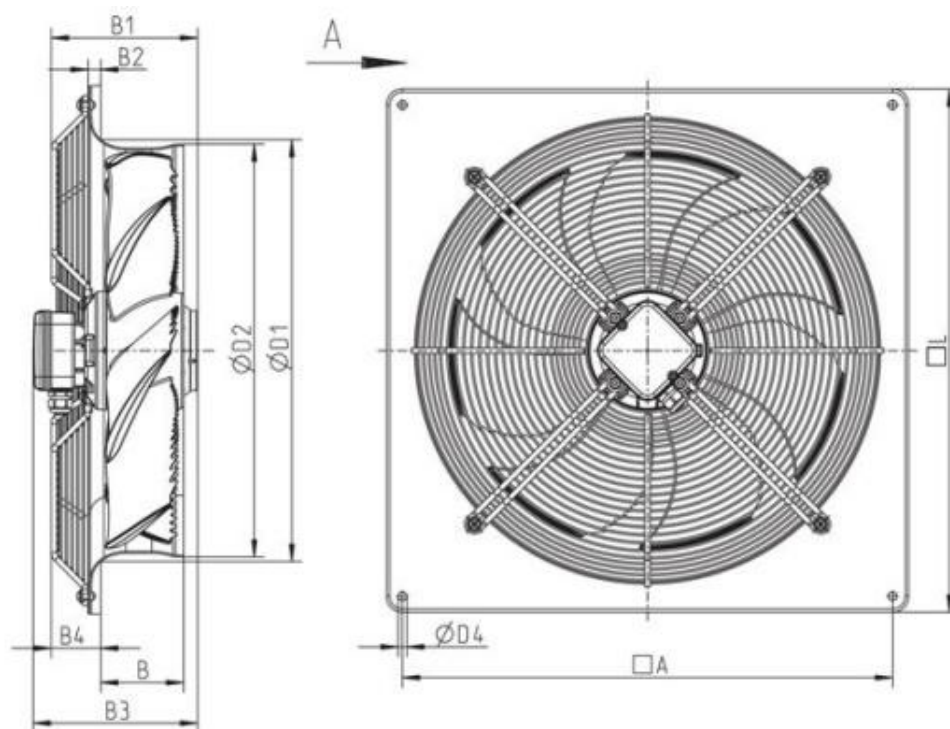
Diagrams



Max efficiency

Hydraulic data										
▲ Working air flow		0,79 m³/s								
▲ Working static pressure		93,3 Pa								
▲ Power		257 W								
Speed		1322 r.p.m.								
Current		1,13 A								
SFP		0,326 W/(l/s)								
Voltage		230 V								
Sound power level		63	125	250	500	1k	2k	4k	8k	Tot
Inlet	dB(A)	45	52	52	59	65	67	65	56	71
Outlet	dB(A)	44	51	54	60	65	67	65	56	71

Dimensions

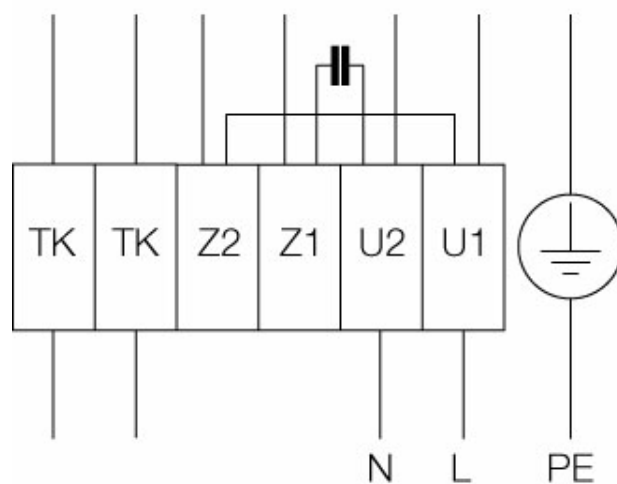


	□A	B	B1	B2	B3	B4	ØD1	ØD2	ØD4	□L
AW 400DV-L	490	88	146	12	182	54	420	412	9	540
AW 400E4-L	490	88	146	12	182	54	420	412	9	540

A = Air direction

Wiring

Linkslauf
Counter Clockwise rotation
Rotation à gauche



Documentation

 2015-01_EC-declaration of conformity Axial_DE-EN.pdf (100,49kB)

 BAL-axial-sileo-Systemair-08-2013.pdf (244,69kB)



Specification text

The box with a quadratic wall plate made out of electroplated steel plate is powder- coated and black. The protection guard is included. The fan can be installed in each fitting position. The axial impeller with airfoil made out of electroplated steel plate is coated black. The actuation is carried out by a maintenance- free, speed- controlled external rotor motor. The fan is speed- controllable by a thyristor or a transformer alternatively at a 400V- Construction a 2- stepped operation trough a D/Y- Connection is also possible. For protecting the motor integrated thermostat relays with completed lines to a motor protection device are built in. . For annealing the motor is situated in the air flow. Impeller according to VDI 2060, quality category Q6,3 and dynamically weigh heavy in to levels

Product Data Sheet

Site-safe Discarb cells



- Gas Phase modular filtration
- Safe weight & size for site handling
- Retrofits heavy single Discarb cells
- Wide range of sizes & types
- Suits numerous applications
- High adsorption
- Non-dusting robust construction
- Made in Britain

APPLICATIONS

Suitable for most gas-phase filtration applications including:

- Catering
- Museums
- Archives
- Airport buildings
- Ozone reduction
- VOC removal
- Mortuary
- Medical
- Pharmaceuticals
- Micro-electronics
- Sewerage Plants
- General odour removal

CONSTRUCTION

The integral activated bonded carbon panels are manufactured in high grade carbon granules using a unique bonding technique that removes the necessity for post carbon filters. Each internal panel is housed in its own surrounding frame and then bonded into the main outer case in a multiple 'V' formation. The individual outer casings can be simply slid together on site to form a leak free efficient Discarb cell.

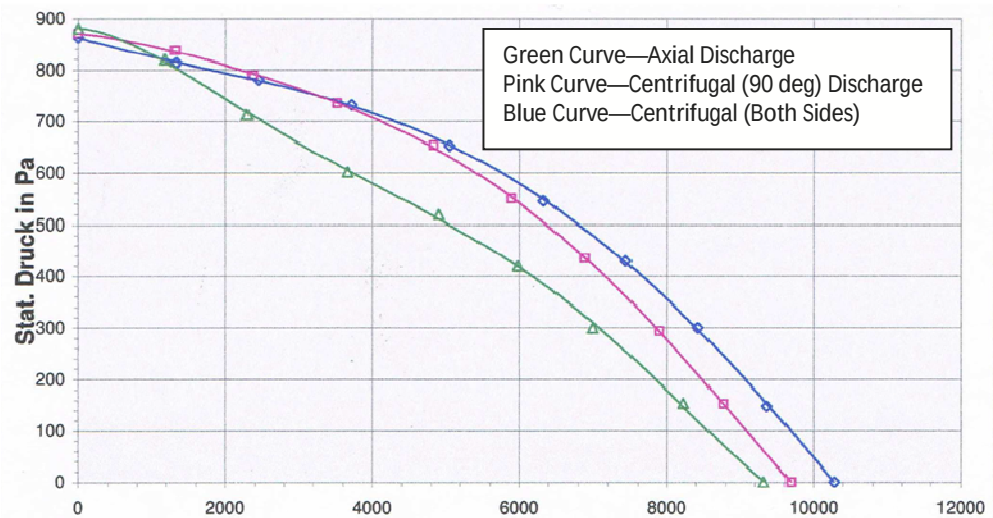
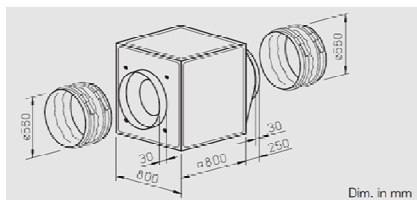
StarNet (Pilot set)	Net used (Pilot set)	Reference (Pilot)	15-100 km RMS Error (km)	15-100 km RMSE (km)	Individual and Cluster RMSE (km)	Individual and Cluster RMSE (km)	Core Server Capacity (Per 100 km ² Core Server Type)	Stress-Tested Capacity (Per 100 km ² Core Server Type)
StarNet-1202022	99-99-99-99-99	99-99-1202022	2	6.5	7.49	698	886	
StarNet-1501010	99-99-99-99-99	99-99-1501010	3	6.6	7.87	968	1580	
StarNet-1604010	99-99-99-99-99	99-99-1604010	5	6.6	9.75	1051	1580	
StarNet-1803010	99-99-99-99-99	99-99-1803010	2	9.5	12.65	1522	2494	
StarNet-1902010	99-99-99-99-99	99-99-1902010	2	9.9	12.86	1685	1670	
StarNet-1903010	99-99-99-99-99	99-99-1903010	6	12.0	13.85	915	2056	
StarNet-1903010	99-99-99-99-99	99-99-1903010	2	13.5	14.93	1018	1700	
StarNet-1902010	99-99-99-99-99	99-99-1902010	3	12.9	14.93	992	1700	
StarNet-1903010	99-99-99-99-99	99-99-1903010	5	10.9	15.45	1106	3000	

Note: * Break time is the contact time that the air is within the carbon matrix.

Application	Measured and Desired Time	Media	Rate
Cooking - Spicy, Indian	0.2 x 0.4 seconds	General Purpose Activated Carbon	-7C
Reduction of Kerosene Exhaust Fumes	0.1 x 0.2 seconds	General Purpose Activated Carbon	-7C
Reduction of Creosote	0.1 x 0.2 seconds	General Purpose Activated Carbon	-7C
Reduction of Diesel Fumes	0.2 seconds	5% Copper Treated Carbon	-8M
Reduction of H_2S , SO_2 , NO_2 , HCl	0.3 seconds	5% Copper Treated Carbon	-8M
Museum and Archives protection	0.2 seconds	5% Copper Treated Carbon	-8M
Mercury / formaldehyde reduction	0.4 seconds	Montanux Grade	-9C
Ammonia neutralization	0.8 seconds	Ammonia Grade	-9C

Maximum Operating Temperature 60°C. Maximum Humidity 80%RH

GBW 560/4



Δp_{stat}
Pa

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA}	Case breakout	dB(A)	64	64	64	48	50	46	43	37
L _{WA}	Intake	dB(A)	77	57	66	69	74	70	64	55
L _{WA}	Extract	dB(A)	81	62	74	75	75	74	70	61

Self supporting frame construction from aluminium hollow profiles. Double-walled side panels from galvanised sheet steel. Intake cone for ideal airflow, spigot and flexible connector for duct connection. With discharge adapter (square to circular) on the pressure side for low-loss discharge and flexible sleeve to reduce vibration transmission. Simple positioning by standard crane hooks. Installation must be carried out with condensation discharge showing downward. Flexible assembly by three possible centrifugal discharge directions via discharge adapter. Outdoor installation is possible using outdoor cover hood and external weather louvres (accessories).

Impeller:

Smooth running backward curved aluminium centrifugal impeller highly efficient and direct driven. Energy efficient with a low noise development. Dynamically balanced together with the motor to DIN ISO 1940 Pt.1 - class 6.3

Motor:

Maintenance free external rotor motor or IEC standard motor protected to IP 44 and 54. With ball bearings and radio suppressed as standard.

Electrical Connection:

Standard terminal box (IP54) fitted on the motor support plate.

Motor Protection:

Motors have thermal contacts wired to the terminal block and must be connected to a motor protection unit.

Speed Control:

Speed controllable by voltage reduction using transformer controller.

Type	Ref. No.	R.P.M.	Sound Level	Motor power (nominal)	Current Full Load	Maximum air flow temp.	Nom. weight (net)	5 step trans. controller	
		min ⁻¹	dB(A) at 4 m	kW	Amps	+°C	kg	Type	Ref.
GBW 560/4	5508	1370	44	2.0	8.7	60	90	TSW 10	1498

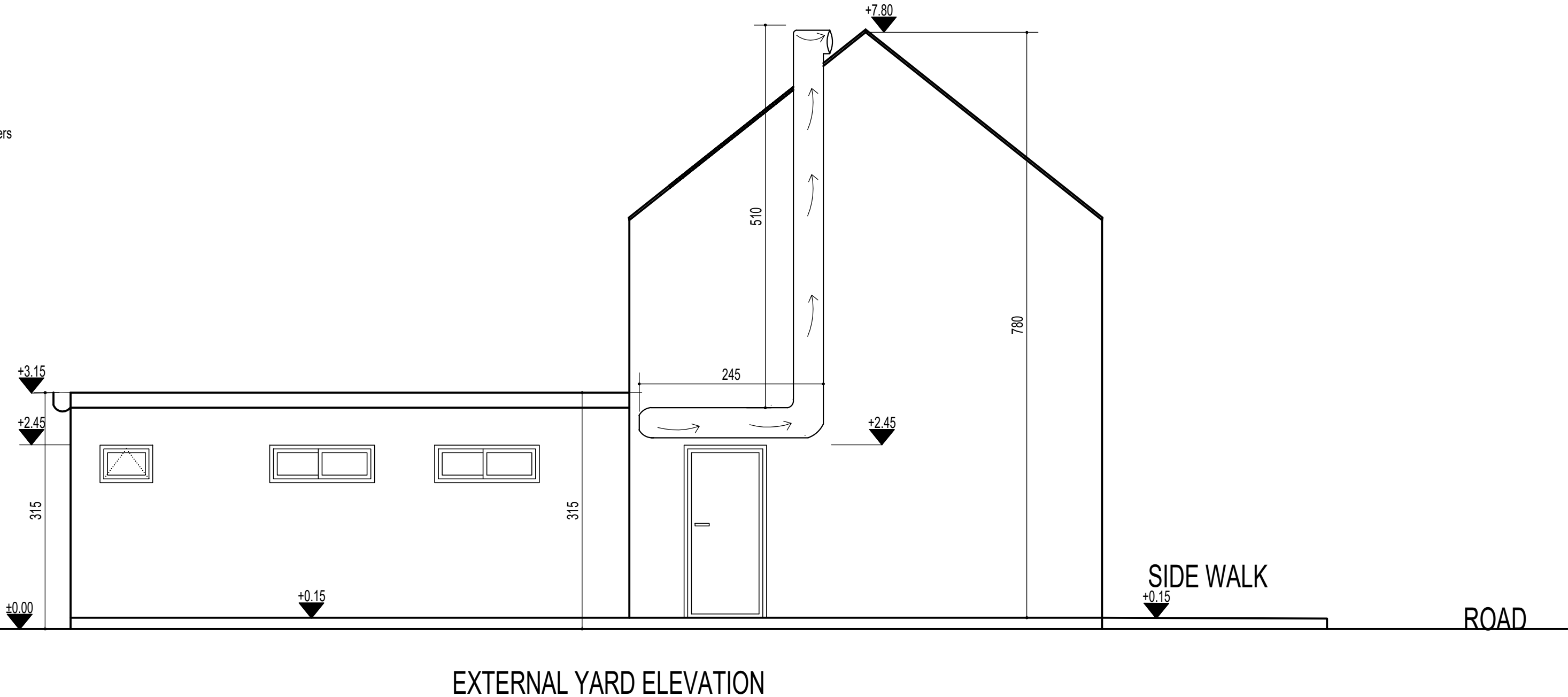
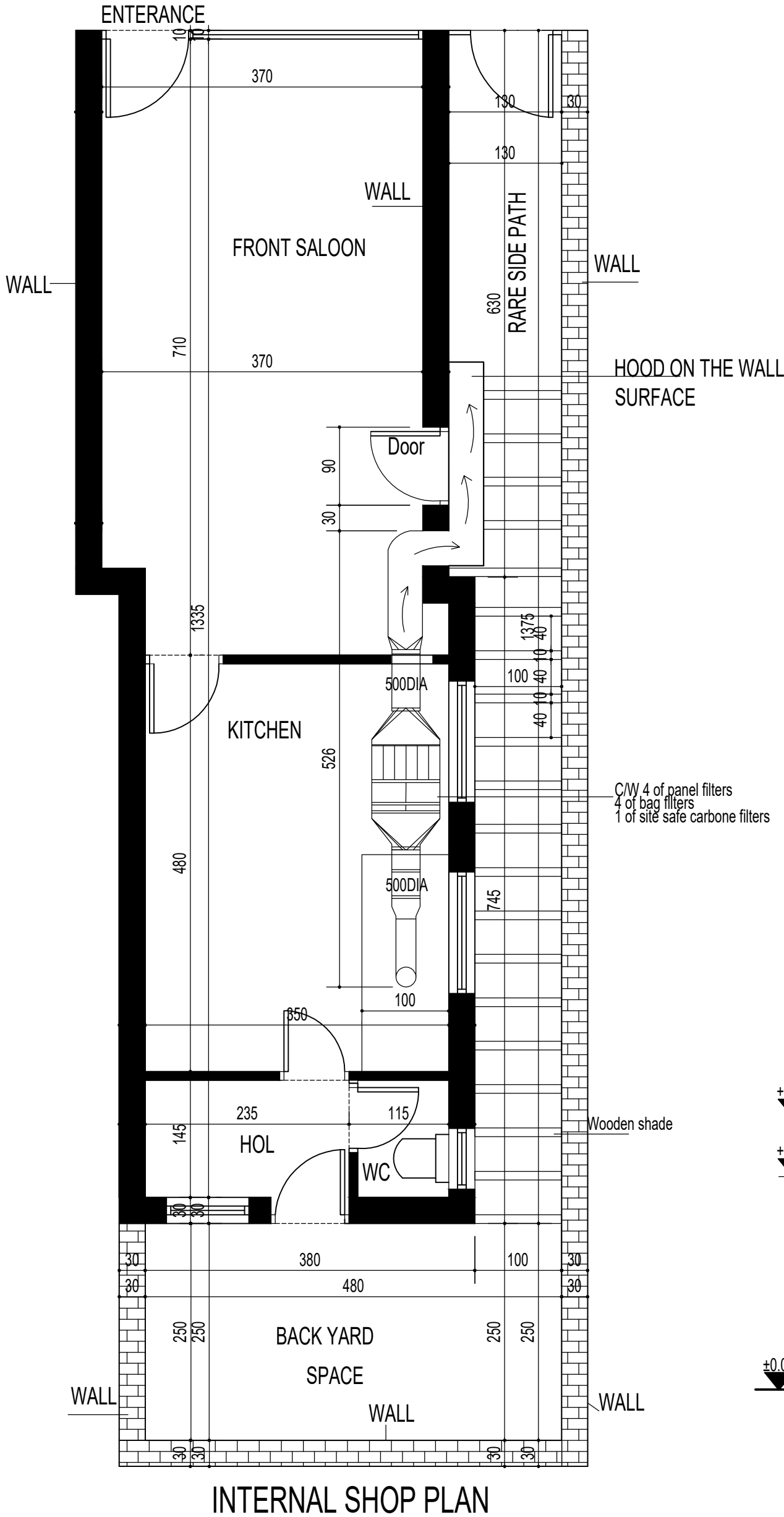
Volume Flow m³/s against static pressure

0	50	100	150	200	250	300	400	500	600	700	800
2.77	2.72	2.55	2.48	2.41	2.31	2.22	2.0	1.72	1.44	1.00	0.36



PROPOSED KITCHEN VANTILATION

1. OPTIONS



Attenuator Schedule

Ref.	Description	Type and Model Code	Dimensions (mm)			Insertion Loss (dB)								Vol (m³/s)	PL (Pa)	Qty	Features
			W	H	L	63	125	250	500	1k	2k	4k	8k				
8936	MUB042 INTAKE 012 Atmosphere side	Rectangular LG01V/3B/L/SN	546	546	1250	3	6	11	20	19	11	7	4	1.75	56	1	20mm profile flanges. Non-standard element configuration.
7945	MUB042 INTAKE 012 M Atmosphere side	Rectangular LG01V/3B/L/SMN	546	546	1250	3	6	10	17	15	8	5	3	1.75	56	1	20mm profile flanges. Melinex wrapped infill. Non-standard element configuration.
ATT/9	MUB042 INTAKE 015 Atmosphere side	Rectangular LG02V/3B/L/SN	546	546	1600	3	8	14	26	24	15	9	4	1.75	60	1	Unit delivered in 2 sections, split in length. 20mm profile flanges. Non-standard element configuration.
ATT/10	MUB042 OUTLET 060 Atmosphere side	Rectangular LG01V/3B/L/S	546	546	650	2	4	7	14	14	8	6	3	1.75	53	1	20mm profile flanges.
ATT/11	MUB042 OUTLET 090 Atmosphere side	Rectangular LG01V/3B/L/S	546	546	950	3	6	10	19	19	11	7	4	1.75	56	1	20mm profile flanges.
ATT/12	MUB042 OUTLET 012 Atmosphere side	Rectangular LG01V/3B/L/S	546	546	1250	3	8	13	25	23	14	8	4	1.75	59	1	20mm profile flanges.
ATT/13	MUB062 INTAKE 090 Atmosphere side	Rectangular LG01V/2B/L/SN	676	676	950	2	4	7	12	10	6	4	2	3.50	70	1	20mm profile flanges. Non-standard element configuration. Medium pressure rating (+1000/-750Pa).
8937	MUB062 INTAKE 012 Atmosphere side	Rectangular LG01V/2B/L/SN	676	676	1250	3	6	10	16	14	8	4	2	3.50	73	1	20mm profile flanges. Non-standard element configuration. Medium pressure rating (+1000/-750Pa).
7946	MUB062 INTAKE 012 M Atmosphere side	Rectangular LG01V/2B/L/SMN	676	676	1250	3	6	10	14	11	6	3	2	3.50	73	1	20mm profile flanges. Melinex wrapped infill. Non-standard element configuration. Medium pressure rating (+1000/-750Pa).
ATT/15	MUB062 INTAKE 015 Atmosphere side	Rectangular LG02V/2B/L/SN	676	676	1600	3	7	14	21	18	10	5	2	3.50	77	1	Unit delivered in 2 sections, split in length. 20mm profile flanges. Non-standard element configuration. Medium pressure rating (+1000/-750Pa).
ATT/16	MUB062 OUTLET 060 Atmosphere side	Rectangular LG01V/2B/L/S	676	676	650	2	4	7	12	10	6	4	2	3.50	70	1	20mm profile flanges. Medium pressure rating (+1000/-750Pa).
ATT/17	MUB062 OUTLET 090 Atmosphere side	Rectangular LG01V/2B/L/S	676	676	950	3	6	10	16	13	8	4	2	3.50	73	1	20mm profile flanges. Medium pressure rating (+1000/-750Pa).
ATT/18	MUB062 OUTLET 012 Atmosphere side	Rectangular LG01V/2B/L/S	676	676	1250	3	7	13	20	17	9	5	2	3.50	76	1	20mm profile flanges. Medium pressure rating (+1000/-750Pa).
9226	MUB 100 INLET	Rectangular SG01V/3B/L/SN	876	876	1250	4	5	12	23	23	15	11	8	3.00	24	1	20mm profile flanges. Non-standard element configuration.