

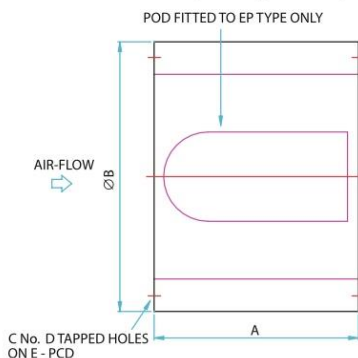
silencers



LC/SC Axial Range



- Pre-galvanised sheet steel with perforated steel lining
- Infill of glass tissue faced high density mineral wool
- For saturated or other special applications please refer to Elta



Product Code	Fan Dia	A 1D	A 2D	B	C	D	E	Weight kg			
								1DENP	1DEP	2DENP	2DEP
068-0315-*D**P	315	315	630	417	8	M8	355	9	11	15	17
068-0355-*D**P	355	350	700	452	8	M8	395	11	13	18	21
068-0400-*D**P	400	400	800	500	8	M10	450	13	16	22	26
068-0450-*D**P	450	450	900	602	8	M10	500	15	18	27	31
068-0500-*D**P	500	500	1000	652	12	M10	560	18	22	32	37
068-0560-*D**P	560	560	1120	712	12	M10	620	22	26	39	46
068-0630-*D**P	630	630	1260	782	12	M10	690	26	32	48	57
068-0710-*D**P	710	710	1420	862	16	M10	770	32	39	59	71
068-0800-*D**P	800	800	1600	952	16	M10	860	40	49	74	90
068-0900-*D**P	900	900	1800	1102	16	M12	970	55	67	102	123
068-1000-*D**P	1000	1000	2000	1202	16	M12	1070	66	82	124	151
068-1120-*D**P	1120	1120	2240	1322	20	M12	1190	73	90	138	168
068-1250-*D**P	1250	1250	2500	1452	20	M12	1320	80	100	151	185
068-1400-*D**P	1400	1400	-	1602	20	M12	1470	162	210	-	-
068-1600-*D**P	1600	1600	-	1802	24	M16	1680	210	273	-	-
068-1800-*D**P	1800	1800	-	2002	24	M16	1880	260	338	-	-
068-2000-*D**P	2000	2000	-	2202	24	M16	2080	320	416	-	-

1 or 2
SEE DIM 'A' → E = WITH POD or
EN = WITHOUT POD

ACTIVATED CARBON DISCARB FILTERS - STANDARD FLOW						
Dimensions (Actual, mm)			m ³ /s	Pa	Grade 20 – Std. Flow	Grade 50 – Std. Flow
H	W	D			Part No.	Part No.
293	293	293	0.10	75	1620101	1620121
293	293	445	0.15	95	1620102	1620122
293	293	597	0.22	140	1620103	1620123
445	445	293	0.21	55	1620104	1620124
445	445	445	0.31	70	1620105	1620125
445	445	597	0.41	105	1620106	1620126
597	597	293	0.41	70	1620107	1620127
597	597	445	0.61	90	1620108	1620128
597	597	597	0.81	130	1620109	1620129
597	293	597	0.40	130	1620110	1620130
597	196	597	0.27	130	1620111	1620131

ACTIVATED CARBON DISCARB FILTERS - EXTRA DUTY						
Dimensions (Actual, mm)			m ³ /s	Pa	Grade 20 – Extra Duty	Grade 50 – Extra Duty
H	W	D			Part No.	Part No.
293	293	293	0.13	125	1620201	1620221
293	293	445	0.20	175	1620202	1620222
293	293	597	0.27	250	1620203	1620223
445	445	293	0.30	95	1620204	1620224
445	445	445	0.41	125	1620205	1620225
445	445	597	0.54	185	1620206	1620226
597	597	293	0.54	125	1620207	1620227
597	597	445	0.80	150	1620208	1620228
597	597	597	1.06	225	1620209	1620229
597	293	597	0.53	225	1620210	1620230
597	196	597	0.35	225	1620211	1620231

Notes

- * Airflow rates are based on a 0.1 second contact time. (Indian & Thai Cuisine require minimum of 0.3s)
- * Grade 20 20 - 30% retention CTC. Grade 50 50 - 60% retention CTC.

Holding Frames and Cases

Holding frames and casings for Activated Carbon Filters are available singularly or in multiples, and can be manufactured to suit non-standard sizes and special applications.

See Catalogue Section 8 (AC8) and Section 11 (AC11) for full information.



Fully Welded Side Withdrawal
Filter Housing (1840)



Kitchavent – Grease, Smoke and Odour Control
for Kitchen Extract (1815)

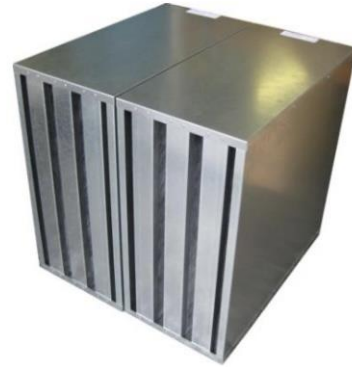
Activated Carbon Filters Metal Cased Discarb Cells

Applications

Activated Carbon Discarb Cells can be used for the reduction of odour or for gas control. Activated Carbon Discarb Cells offer a compact and convenient method to housing bonded carbon panels ready for mounting in a range of filter housings.

Typical applications for Airclean Activated Carbon Cells include Kitchen Extract Odour Control, Commercial Food Manufacture, Laboratory supply and extract systems, Office Air Supply, and VOC control.

Activated Carbon Discarbs offer a practical solution for controlling gases and odours in airflows from 0.1m³/s up to 10m³/s +.



Description

The metal cased 'Discarb' cells have the highest carbon loading in our range, and have standard or heavy-duty carbon panels permanently sealed into a galvanised sheet steel casing.

This construction gives a very strong unit capable of handling large air volumes or where conditions dictate, increased contact time. The advantage of this unit is that with panels sealed in, there is no possibility of air leakage.

Activated Carbon Discarb Filter Units can be manufactured to almost any reasonable size, the limiting factors being the overall weight for handling purposes and the size of individual panels. When the unit has finished its useful life it is discarded and replaced with a complete new cell.

Technical

Carbon Filters must be selected based on system duty airflows, and required contact times (dwell / residence). Contact times must be selected based on concentration and specific gases / odours that need to be removed.

The following tables on the next page offer selections for Activated Carbon Discarbs of all styles based on 0.1 second contact times.

For 0.2 second contact times reduce the airflows in the 0.1 second tables by 50%, pressure drops will reduce to 50%.

For 0.3 second contact times reduce the airflows in the 0.1 second tables to 33.3%, pressure drops will reduce to 33.3%.

For 0.4 second contact times reduce the airflows in the 0.1 second tables to 25%, pressure drops will reduce to 25%.

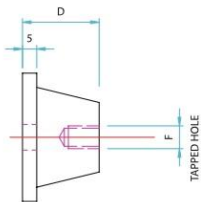
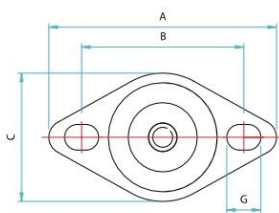
Pre filtration of grade M5 to EN779 is recommended prior to Activated Carbon Filters to aid effective gas removal.

Max allowable air on conditions to the unit are 40 Degree Centigrade and 80% Relative Humidity, if these conditions are exceeded then the activated carbon filter will be ineffective.

Revolution SLC - Long Cased Anti-Vibration Mounts



- Fit directly to mounting feet
- Rubber with steel insert
- Supplied as set of 4, complete with fixings



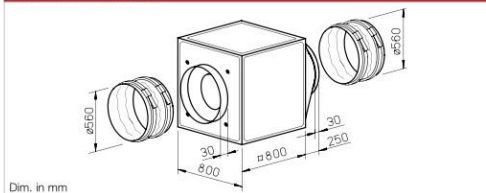
Product Code	A	B	C	D	E	F	G	Weight kg
062-S1G	64	50	43	5.5	20	M6	Ø 7	0.040
062-S2								0.100
062-S2B	80	57	45	5	32	M8	12 x 9	0.100
062-S2Y								0.102
062-S3B	95	71	60	5	45	M10	14 x 9	0.104

GB 560



Any installation position and location due to five possible outlet directions.

Dimensions GB 560



Special features of the GB T120 series

- Designed for the delivery of contaminated, humid and hot air up to max. 120 °C.
- Motor located outside of air flow.
- Thermally insulated partition between motor and impeller, made of galvanised steel sheet, with 20 mm thick, non-flammable mineral wool.
- Complete motor-impeller unit can be removed without dismantling the system components.
- Inspection cover with handle, easily removable for cleaning and maintenance.
- Condensate tray with condensate drain as standard. Hole provided for rain drain (accessories) for outdoor installation.

Installation GB T120

Installation position with condensate drain below. Flexible installation due to three possible centrifugal outlet directions of the outlet fitting. Protected outdoor installation possible with weather protection cover and grille (accessories).

Special features of the GB series

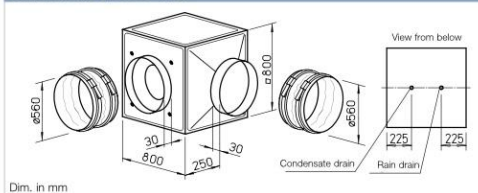
Any installation position and flexible installation due to five possible outlet directions of the outlet fitting. The wall bracket (accessories) must be used for wall installation. Protected outdoor installation possible with weather protection cover and grille (accessories).

GB 560 T120



For the delivery of contaminated, humid and hot air up to max. 120 °C. Motor located outside of air flow.

Dimensions GB 560 T120



Description for both series

Casing

Self-supporting frame construction made of aluminium hollow profiles. Double-walled, 20 mm thick side panels made of galvanised steel sheet, sound and heat insulated by non-flammable mineral wool lining. Nozzle on inlet side for optimal inflow as well as connectors and flexible connecting sleeve (for the respective max. permissible air flow temperature) for duct connection. Moulded part (square to round) on outlet side for low-loss outflow and flexible connecting sleeve to prevent structure-borne noise transmission. Simple positioning with standard crane hook.

Impeller

Free-running high performance centrifugal impeller made of aluminium with backward curved blades, directly driven. Energy-efficient with low noise emission. Dynamically balanced together with the motor in accordance with DIN ISO 21940-11 – quality grade 2.5.

Drive

Through maintenance-free, speed-controllable external rotor motor or IEC standard motor in protection category IP54. Ball bearing mounted, radio interference-free.

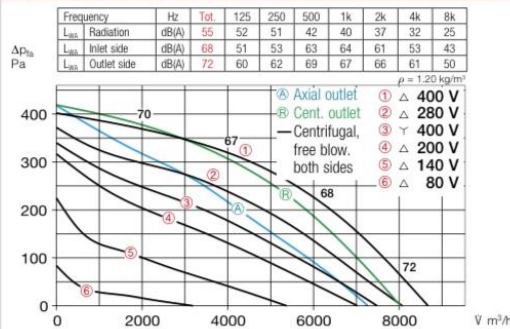
Electrical connection

Standard terminal box (IP54) on motor; on the motor support plate for GB T120.

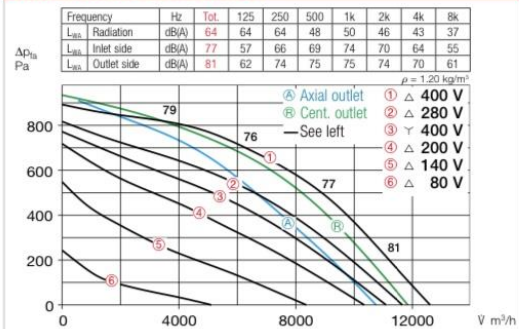
Type	Max. flow rate	Rated speed	Case-rad. sound pressure	Power consumption	Current consumption at rated voltage	Current consumption in control mode	Wiring diagram	Max. air flow temperature at Rat. vol.	Weight net appr.	Speed controller 5-step with motor prot. circuit breaker	Speed controller 5-step without motor prot. circuit breaker	Mot. prot. circ. break for connecting built-in thermal contacts		
	ℳ m³/h	min⁻¹	dB(A) in 4m	kW	A	A	No.	+ °C	+ °C	kg	Type Ref. no.	Type Ref. no.	Type Ref. no.	
Alternating current, 1~, 230 V, 50 Hz, Capacitor motor, protection category IP54														
GBW 560/4	05508	9120	1410	45	1.83	7.93	11.1	865	45	45	92	MWS 10 01946	TSW 10 01498	MW ¹⁾ 01579
Two-speed, three-phase current motor, 3~, 400 V, 50 Hz, Y/Δ connection, protection category IP54														
GBD 560/6/6	05522	7800/9000	705/885	35	0.51/0.80	0.90/1.85	1.90	867	50	80		RDS 4 01578	TSO 3.0 01502	MD 05849
GBD 560/4/4	05521	11500/13000	1110/1350	44	1.70/2.60	2.80/4.80	4.90	867	50	40	90	RDS 7 01578	TSO 7.0 01504	MD 05849
GB T120 Two-speed, three-phase current motor, 3~, 400 V, 50 Hz, Y/Δ connection, protection category IP54														
GBD 560/4/4 T120	05778	11520/12300	1250/1400	48	1.85/2.50	3.20/6.80	6.80	520	120	120	105	RDS 7 01578	TSO 7.0 01504	MD 05849

1) Incl. operating switch.

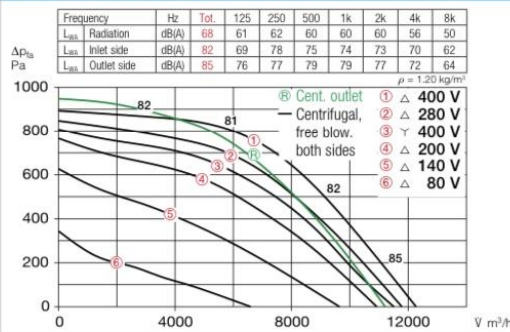
Performance curves GBD 560/6/6



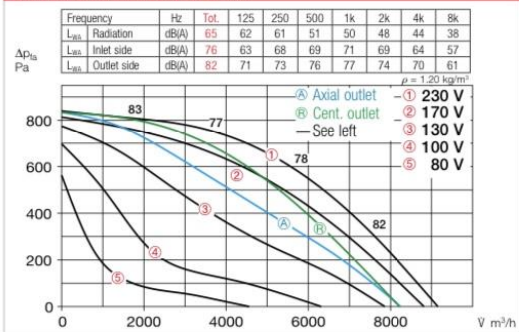
Performance curves GBD 560/4/4



Performance curves GBD 560/4/4 T120



Performance curves GBW 560/4



Motor protection

With external thermal contacts on the terminal block, which must be wired to the motor protection circuit breaker.

Power control

All types are speed-controllable using voltage reduction by means of transformer (accessories). The 3~ types can also be operated at two speeds using a γ/Δ switch or motor protection circuit breaker M4. Performance levels are shown in the performance diagram.

Noise

The total level and range are specified above the performance diagram for:

- ☐ Case-radiated sound power
 - ☐ Inlet side sound power
 - ☐ Outlet side sound power
- The inlet side sound power level is also specified above the nominal performance curve in the performance diagram.
- ☐ The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table.

Accessories for both series

Vibration dampers for indoor installation. 1 set = 4 pcs.

SDD-U Ref. no. 05627

Wall bracket for wall installation.

GB-WK 560 Ref. no. 05626

Weather protection grille for outlet-side coverage.

GB-WSG 560 Ref. no. 05640

Weather protection cover for protected outdoor installation.

GB-WSD 560 Ref. no. 05749

Speed switch and on/off switch for two-speed γ/Δ switchable three-phase current fans.

DS 2²⁾ Ref. no. 01351

²⁾ required motor protection circuit breaker: Type MD, No. 05849.

Special accessories

☐ for GB series

Condensate tray with drain connectors (central) for duct/hose connection.

GB-KW 560 Ref. no. 05645

(a condensate tray with condensate drain is included in delivery for GB T120).

☐ for GB T120 series

Rain drain for outdoor installation (Hole in casing base already provided).

GB-RA Ref. no. 09418

References

References	Page
Planning information	14 ff.
General techn. information, power control	19 ff.

Accessory details

Accessory details	Page
Speed controllers and motor prot. circ. breakers	599 ff.