

GLOBAL AIR SUPPLIES UK

FAN TECHNICAL SPECIFICATIONS



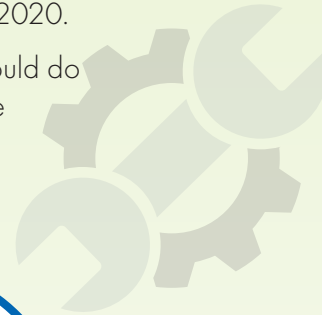
UPGRADE AND SAVE MONEY NOW!

EC FANS VS AC FANS MONEY SAVINGS

Massive energy saving, more power and simply more accurate control over your ventilation system is now as simple as upgrading to an EC fan.

EC fans have been around for a few years, they will be the only type of fan available in a few years due to new classifications coming out of the EU on power consumption versus power output. AC fans which most of you guys will have been using for years are so inefficient that the EU have put in legislation to stop some AC fans being made by roughly 2020.

The EC revolution is gathering pace so we thought we would do some research and crunch some numbers to show you the thousands of pounds in energy bills you could save.



ENERGY SAVINGS

Your fans will run at different speeds during the day and night to maintain air flow and temperatures. These energy costs are based on an average use of a ventilation system.

SAVE OVER
£1500
BY SWITCHING TO EC

- £ Save over **£300** by the end of Year 1
- £ An EC fan **pays for itself** in under 12 months
- £ Save over **£1500** by the end of year 5



RVK AC 315mm A1 with Standard Controller
1361 m³/h

Box Fan AC 200mm with Standard Controller
1401 m³/h

Revolution Vector 250mm with EC Controller
1822 m³/h

* Based on the ventilation system running everyday, and unit cost of 17p per kW/h

Purchase Costs	£274.95	£296.95	£448.00
Yearly Energy Costs	£237.65	£362.53	£61.45
5yr Energy Costs	£1188.25	£1812.65	£307.25

SO WHY ARE EC FANS SO CHEAP TO RUN?

It comes down to the way the motors are controlled. EC motors are very similar to AC motors. However, AC motors are designed to work most efficiently at full speed. The alternating current dictates how the electrical energy is distributed inside the motor and this is fixed at 50 times a second.

The electromagnets that convert the electric power into movement change from positive to negative, 50 times a second as the AC current changes. This makes it very difficult to control the speed of AC motors, they buzz when run at slow speeds and are simply not designed to work on a wide spectrum of speeds. The most effective controllers tend to be expensive and use large amounts of electricity before they are even connected to the fans.

EC motors have electronics that distribute the energy digitally. The electricity is converted to (DC) direct current, this is then sent to the commutators (electromagnets) inside the motor, the electronics make millions of calculations a second to optimise where the energy is used inside the motor. EC motors efficiency and power comes simply by controlling how and when the electrical energy is used.

The electronics know where the rotor is at all times.

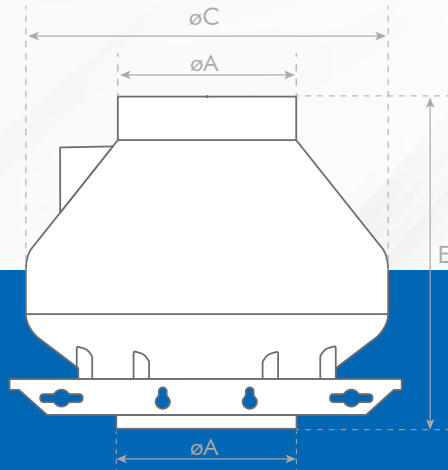


Technical
SUPPORT

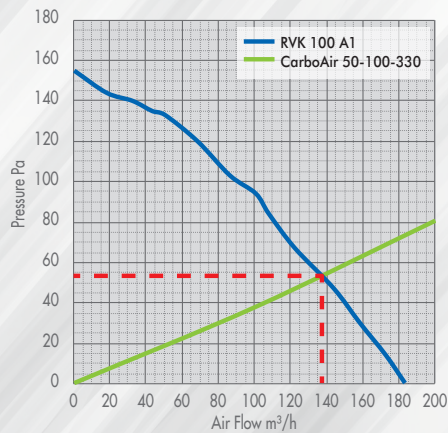
RVK FANS

The RVK fan has built a reputation for bulletproof reliability. Ideally suited as an inlet fan, this can be coupled to the DiffuseAir to offer a total ventilation system.

- Speed Controllable (Triac or Voltage)
- Thermal Protection
- Energy efficient, backwards curved motorised impeller
- The impeller is balanced dynamically in two levels to reduce vibration and noise
- Casing made of extremely durable 30% fibreglass reinforced polypropylene
- Suitable to ventilate damp or even wet rooms: IP44 rated terminal box
- Includes mounting bracket
- Maintenance free and reliable quality
- Made in Germany

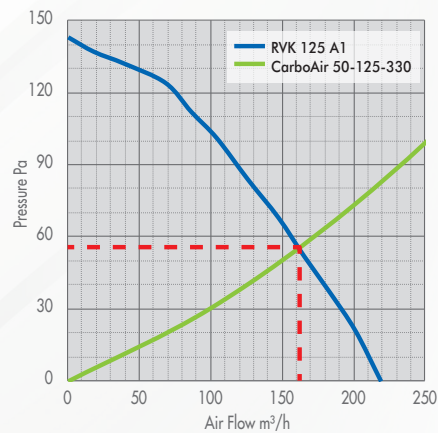


	RVK 100 A1	RVK 125 A1	RVK 125 L1	RVK 150 A1	RVK 150 L1	RVK 200 A1	RVK 200 L1	RVK 250 A1	RVK 250 L1	RVK 315 A1
øA (mm)	99	124	124	149	149	199	199	249	249	314
øC (mm)	251	251	251	340.5	340.5	340.5	340.5	340.5	340.5	340.5
E (mm)	230	230	230	230	230	230	230	230	230	230
Max Air Flow (m ³ /h)	184	220	323	482	720	796	1008	860	1080	1361



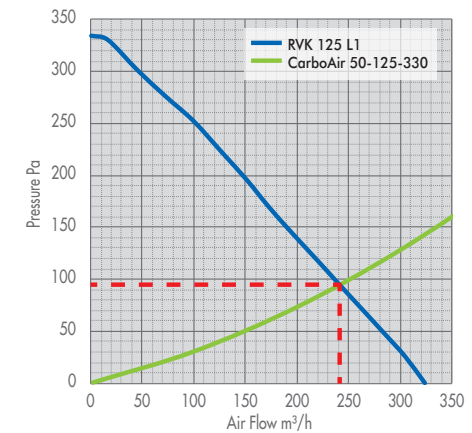
RVK 100 A1

Max Air Flow (m ³ /h)	184
Max Air Flow with filter (m ³ /h)	138
Pressure Drop max pa	54



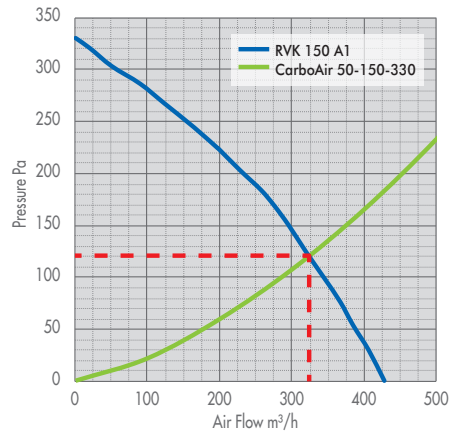
RVK 125 A1

Max Air Flow (m ³ /h)	220
Max Air Flow with filter (m ³ /h)	160
Pressure Drop max pa	58



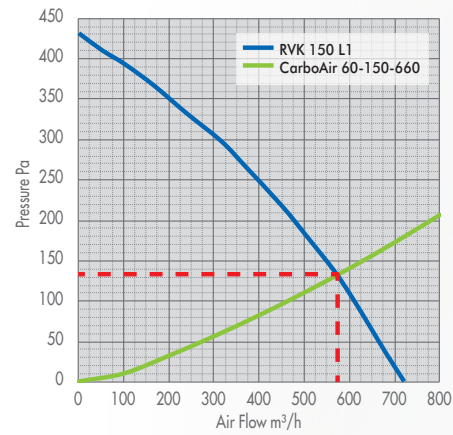
RVK 125 L1

Max Air Flow (m ³ /h)	323
Max Air Flow with filter (m ³ /h)	240
Pressure Drop max pa	93



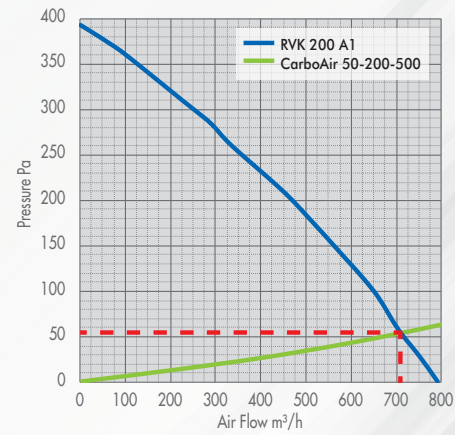
RVK 150 A1

Max Air Flow (m ³ /h)	482
Max Air Flow with filter (m ³ /h)	330
Pressure Drop max pa	120



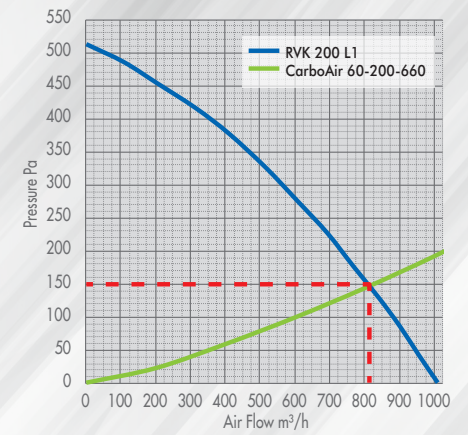
RVK 150 L1

Max Air Flow (m ³ /h)	720
Max Air Flow with filter (m ³ /h)	580
Pressure Drop max pa	130



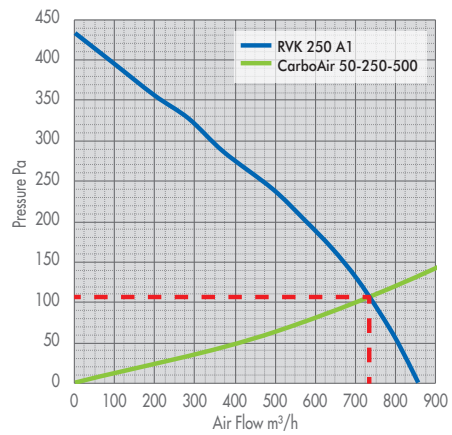
RVK 200 A1

Max Air Flow (m ³ /h)	796
Max Air Flow with filter (m ³ /h)	705
Pressure Drop max pa	56



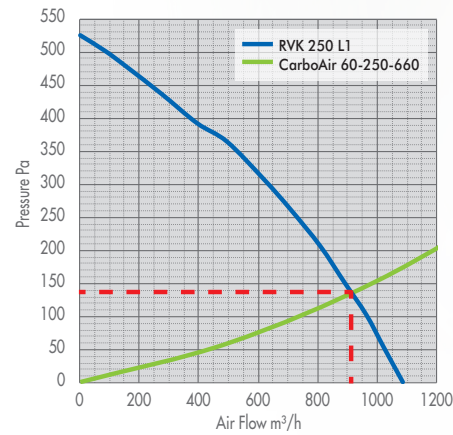
RVK 200 L1

Max Air Flow (m ³ /h)	1008
Max Air Flow with filter (m ³ /h)	815
Pressure Drop max pa	150



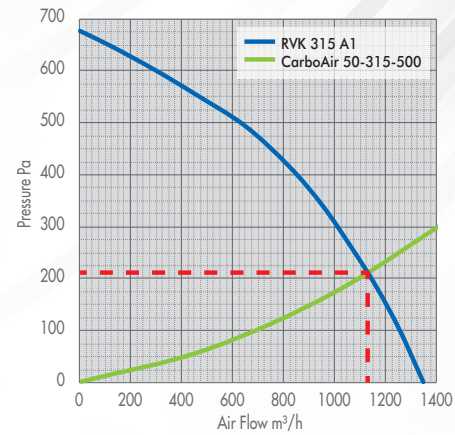
RVK 250 A1

Max Air Flow (m ³ /h)	860
Max Air Flow with filter (m ³ /h)	730
Pressure Drop max pa	106



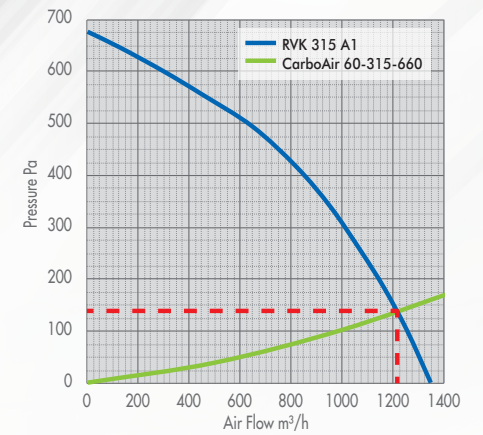
RVK 250 L1

Max Air Flow (m ³ /h)	1080
Max Air Flow with filter (m ³ /h)	910
Pressure Drop max pa	138



RVK 315 A1

Max Air Flow (m ³ /h)	1361
Max Air Flow with filter (m ³ /h)	1125
Pressure Drop max pa	210



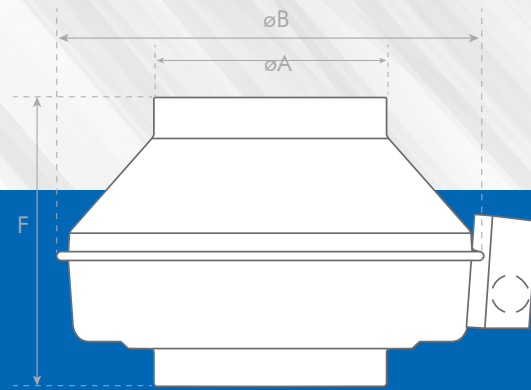
RVK 315 A1

Max Air Flow (m ³ /h)	1361
Max Air Flow with filter (m ³ /h)	1220
Pressure Drop max pa	130

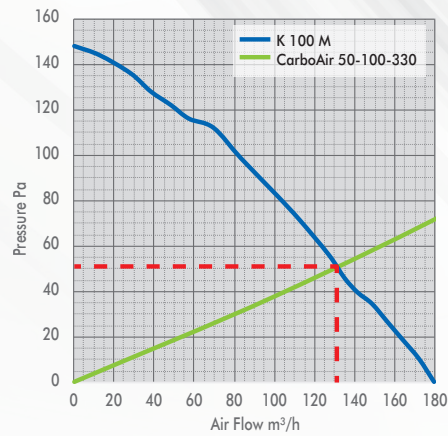
K FANS AC SERIES

The K AC fan is quiet, dependable and designed for years of continuous use. The fan is sealed to stop any leakage from the body of the fan, preventing smells or contaminants escaping from a filtered ventilation system.

1. Speed Controllable (Triac or Voltage)
2. Energy efficient, backwards curved motorised impeller
3. Thermal Protection
4. Suitable to ventilate humid rooms rated at IP55
5. Maintenance free - made in Germany

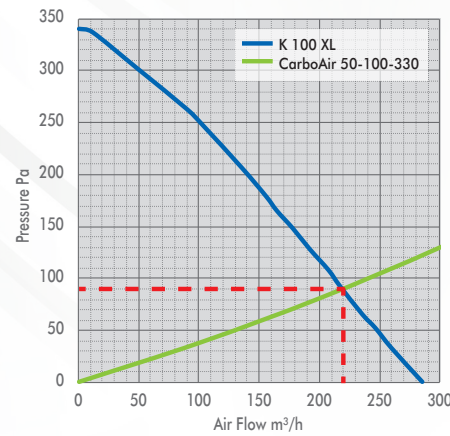


	K100 M	K100 XL	K125 M	K125 XL	K150 M	K150 XL	K200 M	K200 L	K250 M	K250 L	K315 M
øA (mm)	99	99	124	124	149	149	199	199	249	249	314
øB (mm)	218	246	218	246	286	336	336	336	336	336	408
F (mm)	218	213	196	203	202	226	205	231	177	202	220
Max Air Flow (m³/h)	180	285	187	359	464	724	760	965	788	979	1340



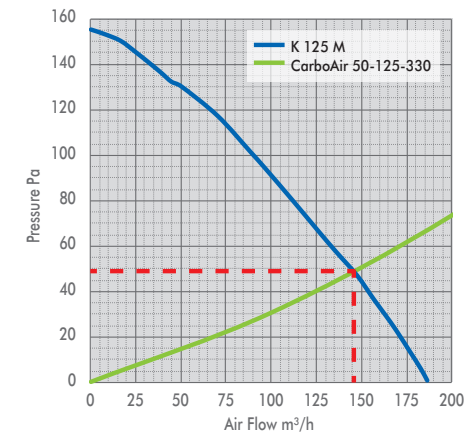
K100 M

Max Air Flow (m³/h)	180
Max Air Flow with filter (m³/h)	133
Pressure Drop max pa	53



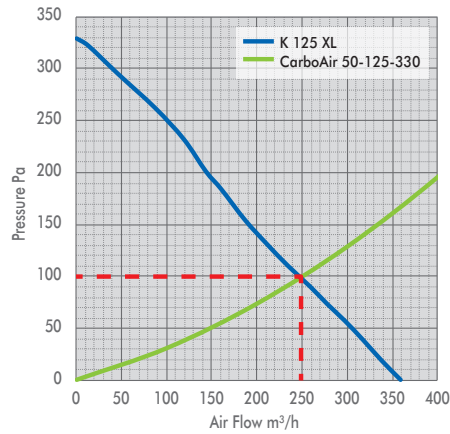
K100 XL

Max Air Flow (m³/h)	285
Max Air Flow with filter (m³/h)	218
Pressure Drop max pa	90



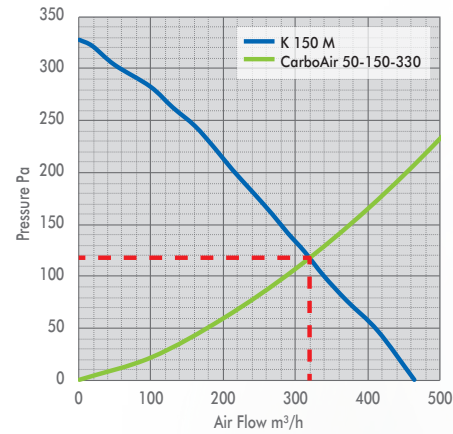
K125 M

Max Air Flow (m³/h)	187
Max Air Flow with filter (m³/h)	146
Pressure Drop max pa	48



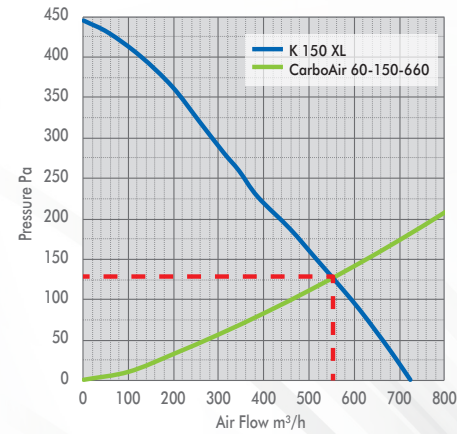
K125 XL

Max Air Flow (m ³ /h)	359
Max Air Flow with filter (m ³ /h)	248
Pressure Drop max pa	98



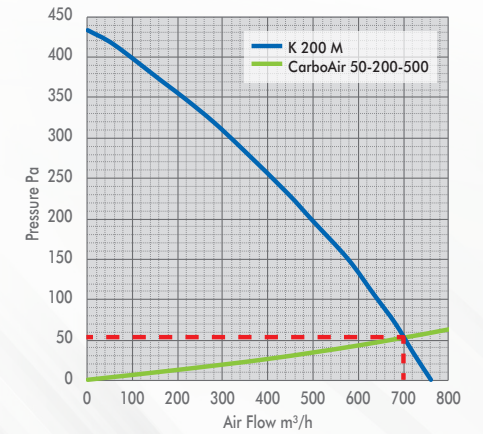
K150 M

Max Air Flow (m ³ /h)	464
Max Air Flow with filter (m ³ /h)	319
Pressure Drop max pa	118



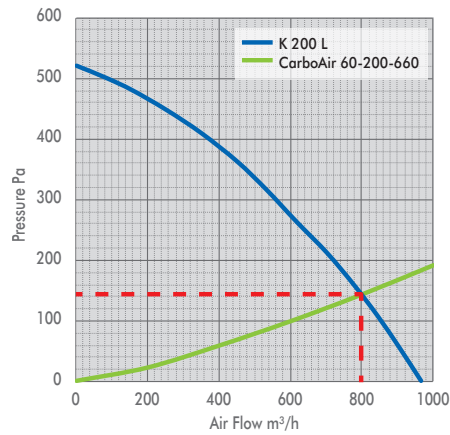
K150 XL

Max Air Flow (m ³ /h)	724
Max Air Flow with filter (m ³ /h)	555
Pressure Drop max pa	130



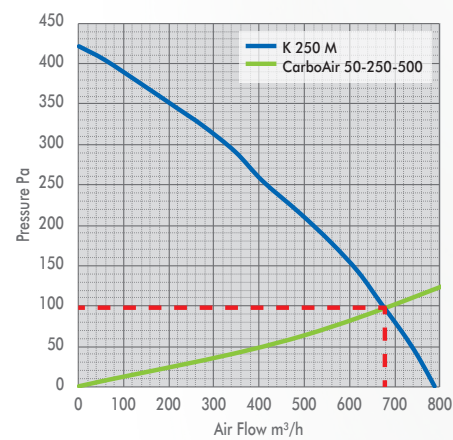
K200 M

Max Air Flow (m ³ /h)	760
Max Air Flow with filter (m ³ /h)	700
Pressure Drop max pa	52



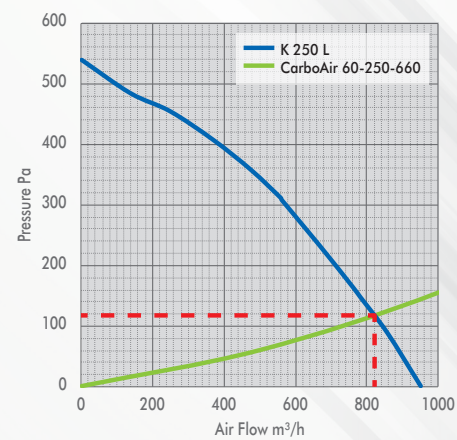
K200 L

Max Air Flow (m ³ /h)	965
Max Air Flow with filter (m ³ /h)	800
Pressure Drop max pa	143



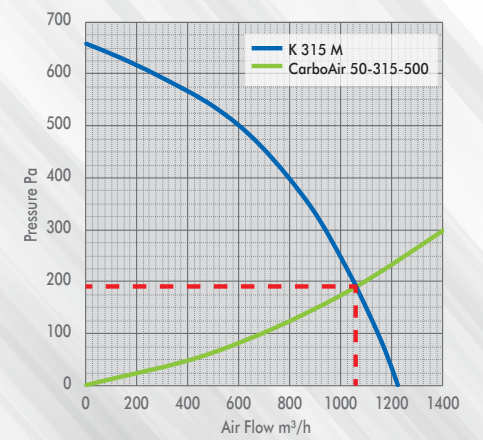
K250 M

Max Air Flow (m ³ /h)	788
Max Air Flow with filter (m ³ /h)	675
Pressure Drop max pa	98



K250 L

Max Air Flow (m ³ /h)	979
Max Air Flow with filter (m ³ /h)	820
Pressure Drop max pa	120



K315 M

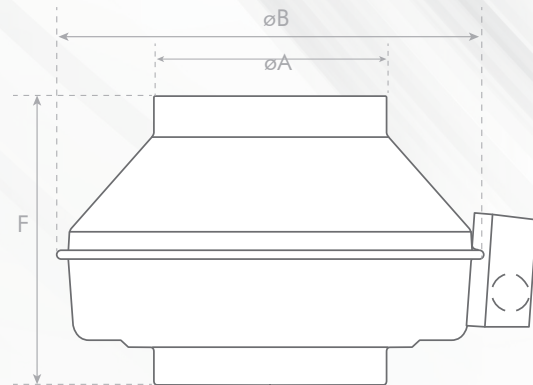
Max Air Flow (m ³ /h)	1340
Max Air Flow with filter (m ³ /h)	1060
Pressure Drop max pa	190

K FANS

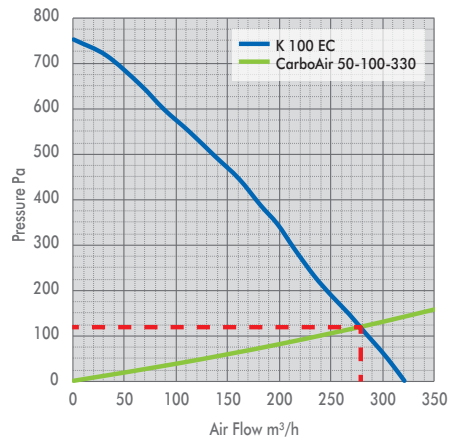
EC SERIES

The K EC fan uses the latest state of the art EC technology. All the motor control and protection electronics are built into the fans. The brush-less motors are up to 90% more efficient. They are quieter and can be controlled more accurately with digital fan controllers.

- Controlled by GAS digital EC controller & balancer
- No humming even at low speeds
- Energy efficient - saves more than 50% on running cost
- Thermal Protection
- Maintenance free - made in Germany

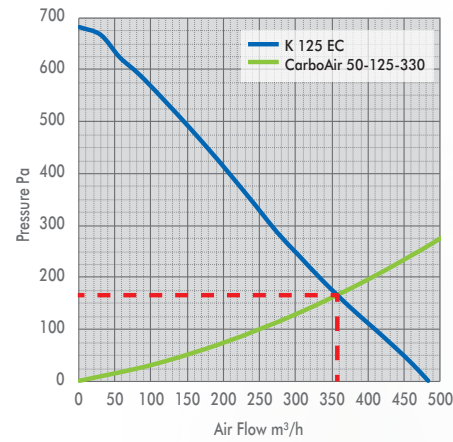


	K100 EC	K125 EC	K150 EC	K200 EC	K250 EC	K315 EC	K315 EC L
øA (mm)	99	124	159	199	249	314	314
øB (mm)	246	246	286	336	336	408	408
F (mm)	213	203	198	205	202	220	225
Max Air Flow (m ³ /h)	321	482	544	774	1033	1415	1734



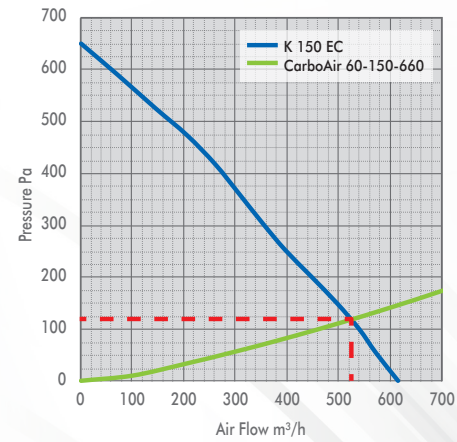
K100 EC

Max Air Flow (m ³ /h)	321
Max Air Flow with filter (m ³ /h)	277
Pressure Drop max pa	118



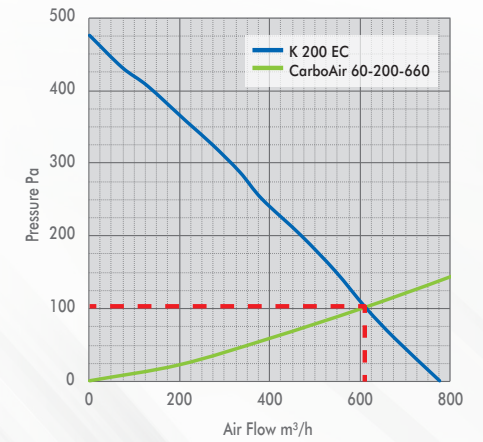
K125 EC

Max Air Flow (m ³ /h)	482
Max Air Flow with filter (m ³ /h)	358
Pressure Drop max pa	165



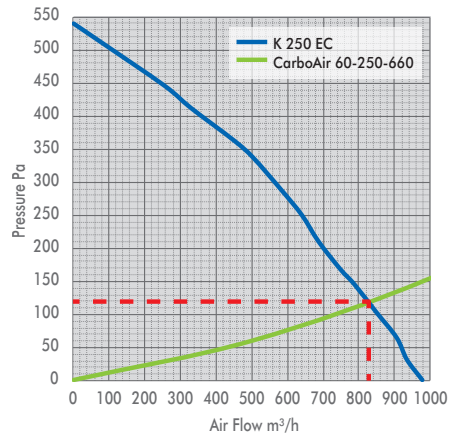
K150 EC

Max Air Flow (m ³ /h)	544
Max Air Flow with filter (m ³ /h)	525
Pressure Drop max pa	118



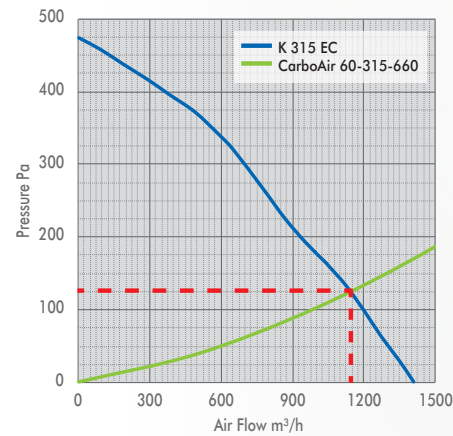
K200 EC

Max Air Flow (m ³ /h)	774
Max Air Flow with filter (m ³ /h)	610
Pressure Drop max pa	103



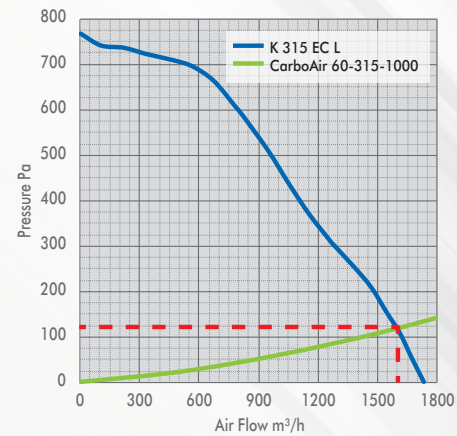
K250 EC

Max Air Flow (m ³ /h)	1033
Max Air Flow with filter (m ³ /h)	830
Pressure Drop max pa	118



K315 EC

Max Air Flow (m ³ /h)	1415
Max Air Flow with filter (m ³ /h)	1145
Pressure Drop max pa	125



K315 EC L

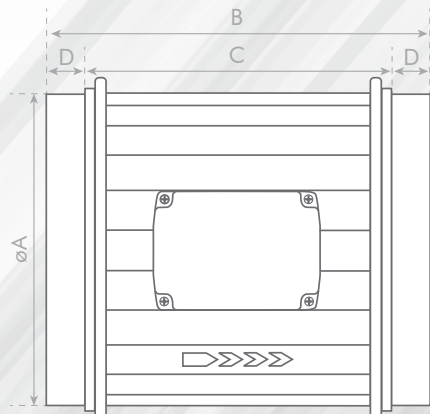
Max Air Flow (m ³ /h)	1734
Max Air Flow with filter (m ³ /h)	1600
Pressure Drop max pa	125

REVOLUTION

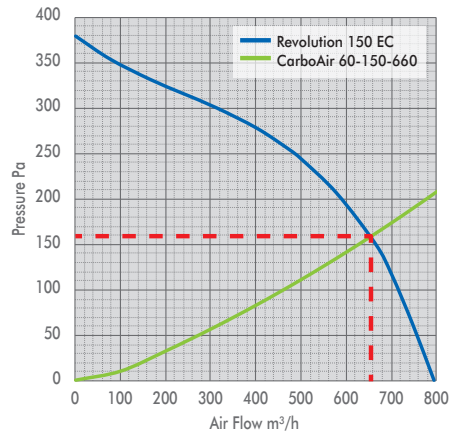
Aerodynamically optimised impeller and special guide vanes give you much larger air flows and greater performance when under pressure.

Revolution fans are more efficient, quieter and smaller than traditional duct fans. Simply the most efficient duct fan in the world.

- Flow optimised free running plastic axial impeller
- The impeller is balanced to reduce vibration and noise
- Capability to put fans in series to double pressure
- Thermal motor protection
- Maintenance free and reliable quality – made in Germany

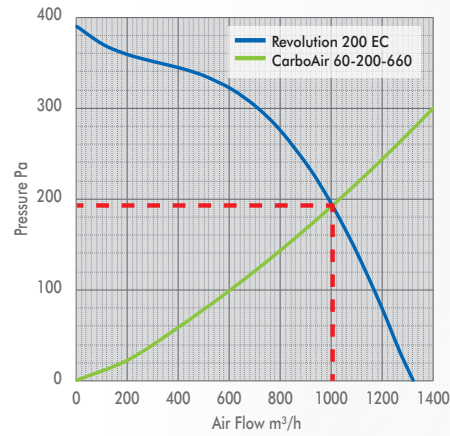


	Revolution Vector 150 EC	Revolution Vector 200 EC	Revolution Vector 250 EC	Revolution Vector 250 L EC	Revolution Stratos 150 AC	Revolution Stratos 200 AC	Revolution Stratos 250 AC
øA (mm)	149	199	249	249	149	199	249
B (mm)	412	245	300	300	412	245	300
D (mm)	40	25	30	30	40	25	30
C (mm)	322	195	240	240	332	195	240
Max Air Flow (m ³ /h)	796	1332	1822	2077	439	947	2038



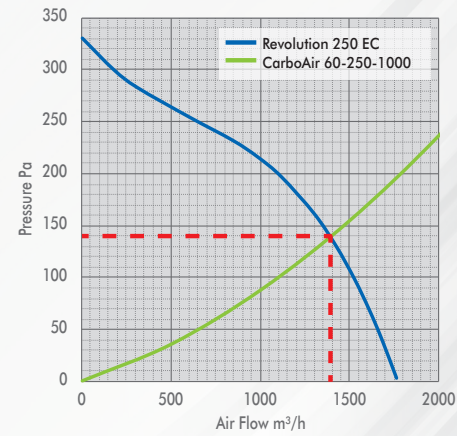
Revolution Vector 150 EC

Max Air Flow (m ³ /h)	796
Max Air Flow with filter (m ³ /h)	655
Pressure Drop max pa	158



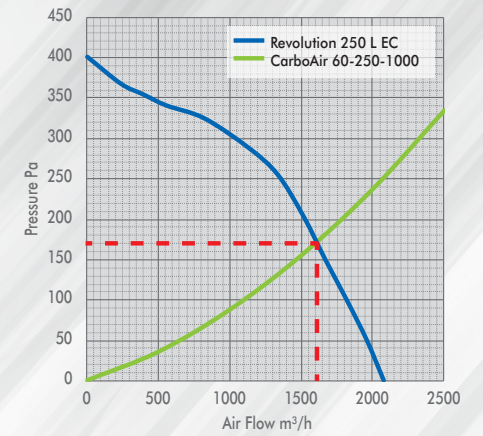
Revolution Vector 200 EC

Max Air Flow (m ³ /h)	1332
Max Air Flow with filter (m ³ /h)	1005
Pressure Drop max pa	190



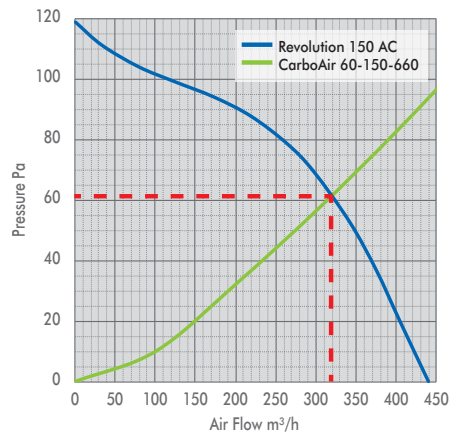
Revolution Vector 250 EC

Max Air Flow (m ³ /h)	1822
Max Air Flow with filter (m ³ /h)	1390
Pressure Drop max pa	138



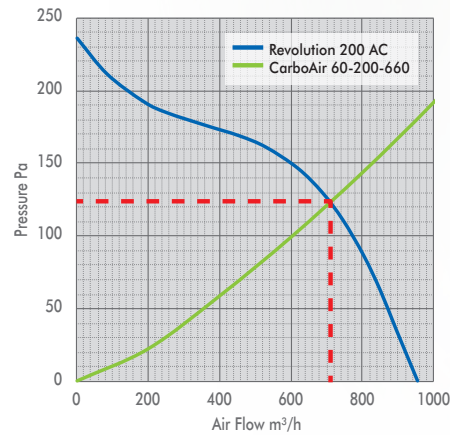
Revolution Vector 250 L EC

Max Air Flow (m ³ /h)	2077
Max Air Flow with filter (m ³ /h)	1610
Pressure Drop max pa	172



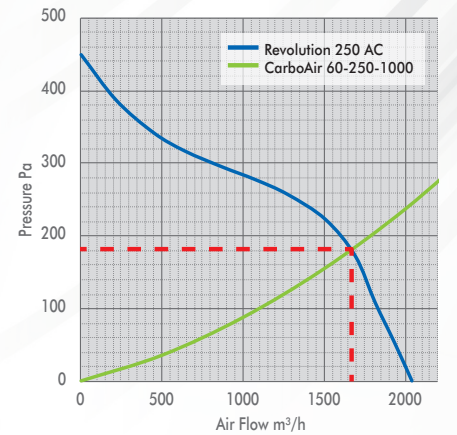
Revolution Stratos 150 AC

Max Air Flow (m ³ /h)	439
Max Air Flow with filter (m ³ /h)	318
Pressure Drop max pa	61



Revolution Stratos 200 AC

Max Air Flow (m ³ /h)	947
Max Air Flow with filter (m ³ /h)	710
Pressure Drop max pa	123



Revolution Stratos 250 AC

Max Air Flow (m ³ /h)	2038
Max Air Flow with filter (m ³ /h)	1660
Pressure Drop max pa	180

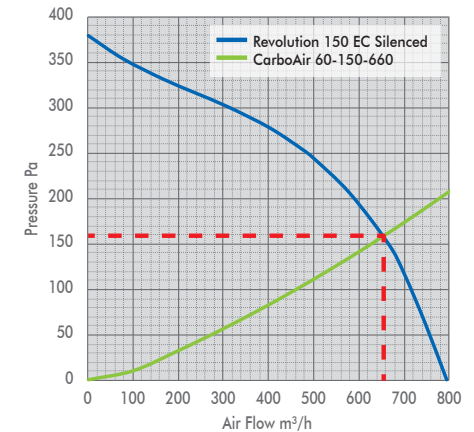
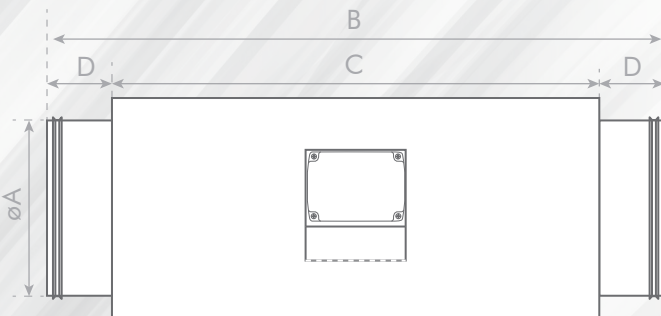


SILENCED REVOLUTION

Aerodynamically optimised impeller and special guide vanes give you much larger air flows and greater performance when under pressure.

Revolution fans are more efficient, quieter and smaller than traditional duct fans. Simply the most efficient duct fan in the world.

- Flow optimised free running plastic axial impeller
- The impeller is balanced to reduce vibration and noise
- Capability to put fans in series to double pressure
- Thermal motor protection
- Maintenance free and reliable quality – made in Germany

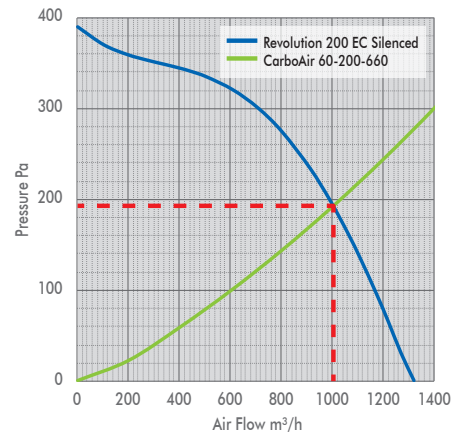


Revolution Vector 150 EC Silenced

Max Air Flow (m ³ /h)	796
Max Air Flow with filter (m ³ /h)	655
Pressure Drop max pa	158

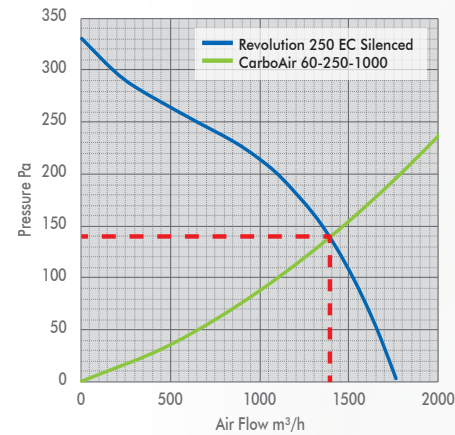
	Revolution Silenced 150 EC	Revolution Silenced 200 EC	Revolution Silenced 250 EC	Revolution Silenced 250 L EC	Revolution Silenced 315
øA (mm)	150	200	250	250	315
B (mm)	708	716	704	704	704
D (mm)	74	80	72	72	72
C (mm)	560	556	560	560	560
Max Air Flow (m ³ /h)	796	1332	1822	2077	2163

	Revolution Silenced 150 AC	Revolution Silenced 200 AC	Revolution Silenced 250 AC	Revolution Silenced 315 AC
	150	200	250	315
	708	716	704	704
	74	80	72	72
	560	556	560	560
	439	947	2038	2122



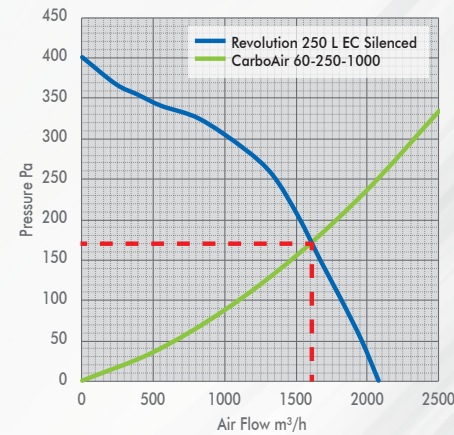
Revolution Vector 200 EC Silenced

Max Air Flow (m ³ /h)	1332
Max Air Flow with filter (m ³ /h)	1005
Pressure Drop max pa	190



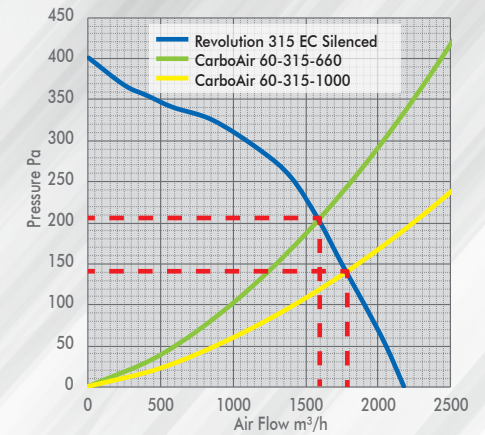
Revolution Vector 250 EC Silenced

Max Air Flow (m ³ /h)	1822
Max Air Flow with filter (m ³ /h)	1390
Pressure Drop max pa	138



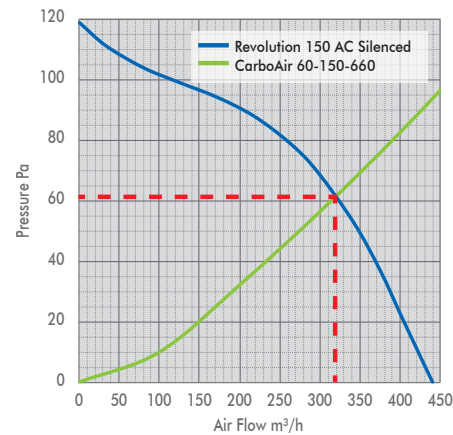
Revolution Vector 250 L EC Silenced

Max Air Flow (m ³ /h)	2077
Max Air Flow with filter (m ³ /h)	1610
Pressure Drop max pa	172



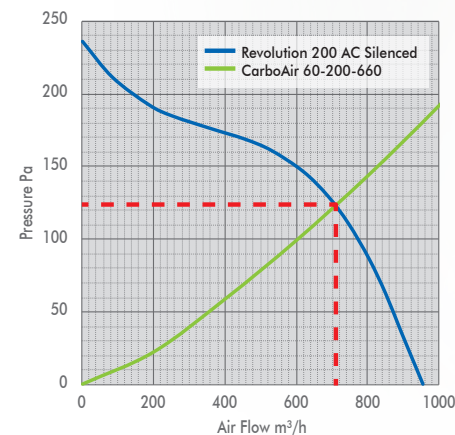
Revolution Vector 315 EC Silenced

Max Air Flow (m ³ /h)	2163
Max Air Flow filter (m ³ /h) 60-315-1000	1775
Pressure Drop max pa	140
Max Air Flow filter (m ³ /h) 60-315-660	1600
Pressure Drop max pa	205



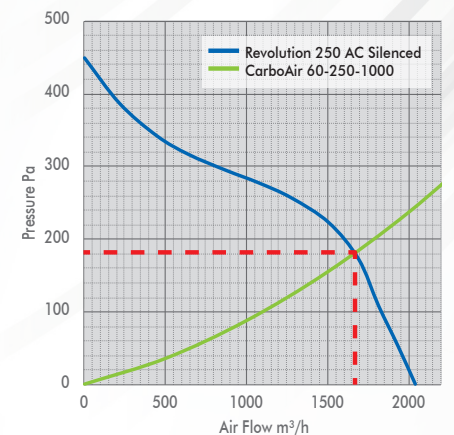
Revolution Stratos 150 AC Silenced

Max Air Flow (m ³ /h)	439
Max Air Flow with filter (m ³ /h)	318
Pressure Drop max pa	61



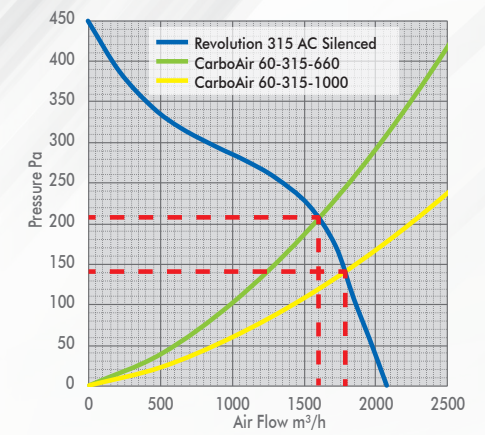
Revolution Stratos 200 AC Silenced

Max Air Flow (m ³ /h)	947
Max Air Flow with filter (m ³ /h)	710
Pressure Drop max pa	123



Revolution Stratos 250 AC Silenced

Max Air Flow (m ³ /h)	2038
Max Air Flow with filter (m ³ /h)	1660
Pressure Drop max pa	180



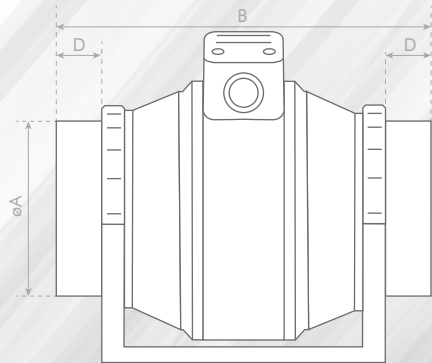
Revolution Stratos 315 AC Silenced

Max Air Flow (m ³ /h)	2122
Max Air Flow filter (m ³ /h) 60-315-1000	1770
Pressure Drop max pa	140
Max Air Flow filter (m ³ /h) 60-315-660	1600
Pressure Drop max pa	205

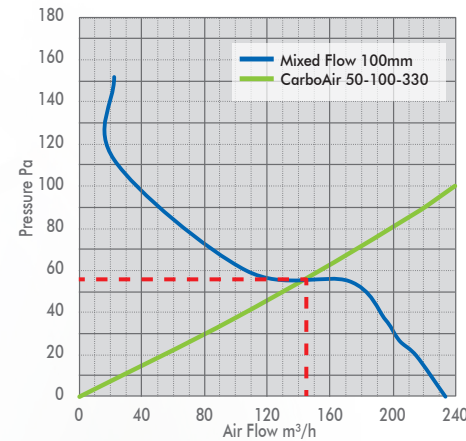
THE ORIGINAL MIXFLO

Mixed flow fans from Manrose offer great airflows and great efficiency. These duct fans don't compromise on quality with a three year guarantee. High quality ball bearing long life AC motors.

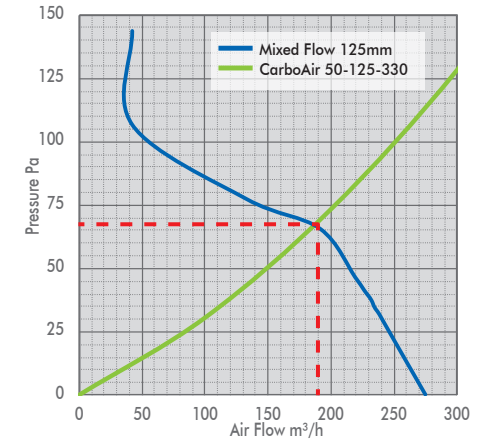
- Continuously rated 30,000 hour long life motors
- High airflows
- Compact design
- Fully BEAB approved rated IPX4
- Maintenance free - made in UK



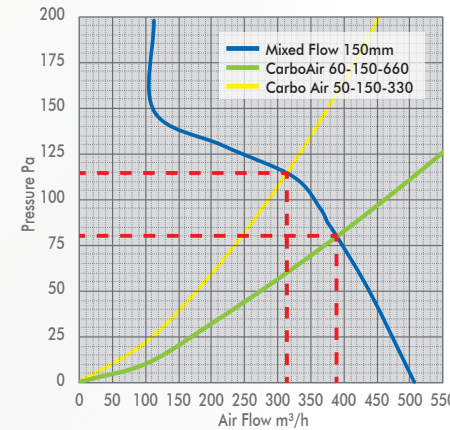
	Manrose MIXFLO 100	Manrose MIXFLO 125	Manrose MIXFLO 150	Manrose MIXFLO 200
øA (mm)	102	122	150	197
B (mm)	298	260	307	300
D (mm)	30	30	30	35
Max Air Flow (m ³ /h)	234	273	507	900



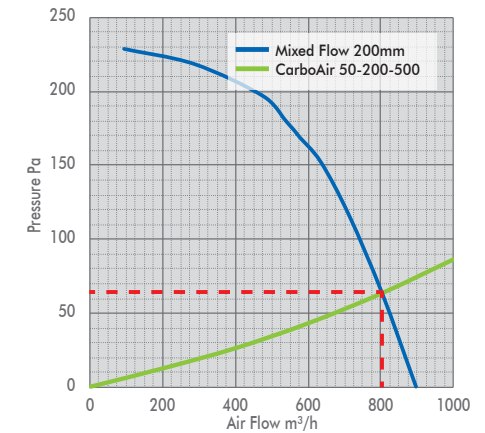
Manrose MIXFLO 100mm	
Max Air Flow (m ³ /h)	234
Max Air Flow with filter (m ³ /h)	145
Pressure Drop max pa	55



Manrose MIXFLO 125mm	
Max Air Flow (m ³ /h)	273
Max Air Flow with filter (m ³ /h)	190
Pressure Drop max pa	64



Manrose MIXFLO 150mm	
Max Air Flow (m ³ /h)	507
Max Air Flow with filter (m ³ /h) 60-150-660	390
Pressure Drop max pa	80
Max Air Flow with filter (m ³ /h) 50-150-330	315
Pressure Drop max pa	115

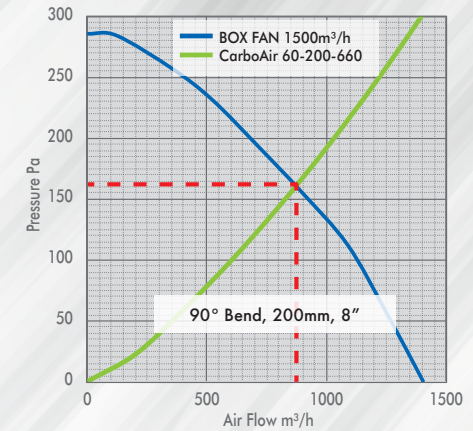
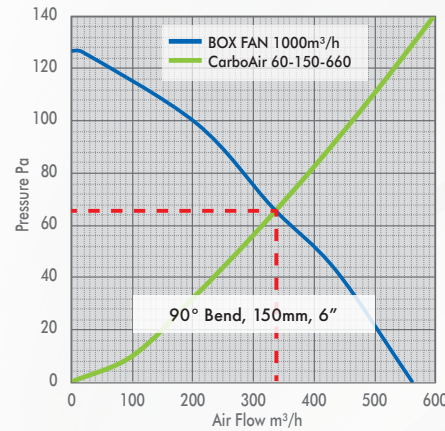


Manrose MIXFLO 200mm	
Max Air Flow (m ³ /h)	900
Max Air Flow with filter (m ³ /h)	800
Pressure Drop max pa	63

BOX FANS

We tested some well known Box Fans and matched them to our filters.

Use these graphs to find the maximum air flows of these Box Fans when connected to our CarboAir Filter.

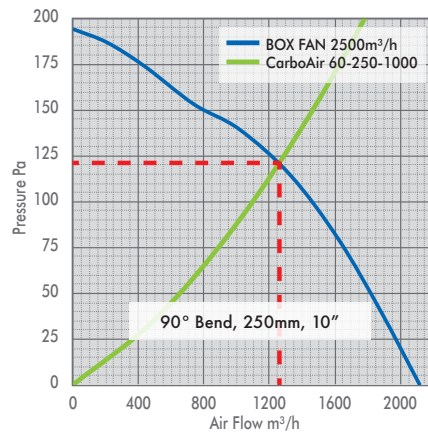


Box Fan 1000 m³/h

Max Air Flow (m ³ /h)	562
Max Air Flow with filter (m ³ /h)	338
Pressure Drop max pa	66

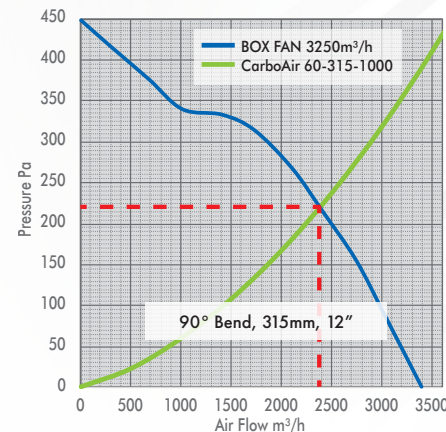
Box Fan 1500 m³/h

Max Air Flow (m ³ /h)	1401
Max Air Flow with filter (m ³ /h)	875
Pressure Drop max pa	165



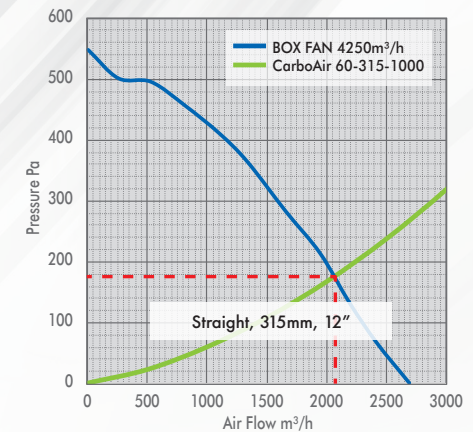
Box Fan 2500 m³/h

Max Air Flow (m ³ /h)	2114
Max Air Flow with filter (m ³ /h)	1250
Pressure Drop max pa	120



Box Fan 3250 m³/h

Max Air Flow (m ³ /h)	3401
Max Air Flow with filter (m ³ /h)	2380
Pressure Drop max pa	220



Box Fan 4250 m³/h

Max Air Flow (m ³ /h)	2685
Max Air Flow with filter (m ³ /h)	2060
Pressure Drop max pa	178

Official Dealer



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