

Overview

This data sheet provides a summary of the exhauster/blowers technical characteristics, components, applications and materials.

BVC YP exhauster/blowers range incorporate multiple impellers mounted on a shaft which runs in outboard bearings. The impeller shaft assembly is enclosed in a sectional cast housing incorporating fixed blade diffusers. The impeller shaft assembly is caused to rotate by an electric motor via a belt and pulley.

Features & Benefits

Our exhauster blowers are meticulously crafted with robust British design and manufacturing. They are suitable for a broad range of applications, delivering a consistent stream of warm, dry non-pulsating air. You can choose from bare shaft options or fully motorised units, and we offer a wide selection of electric motors and starters for your specific needs.

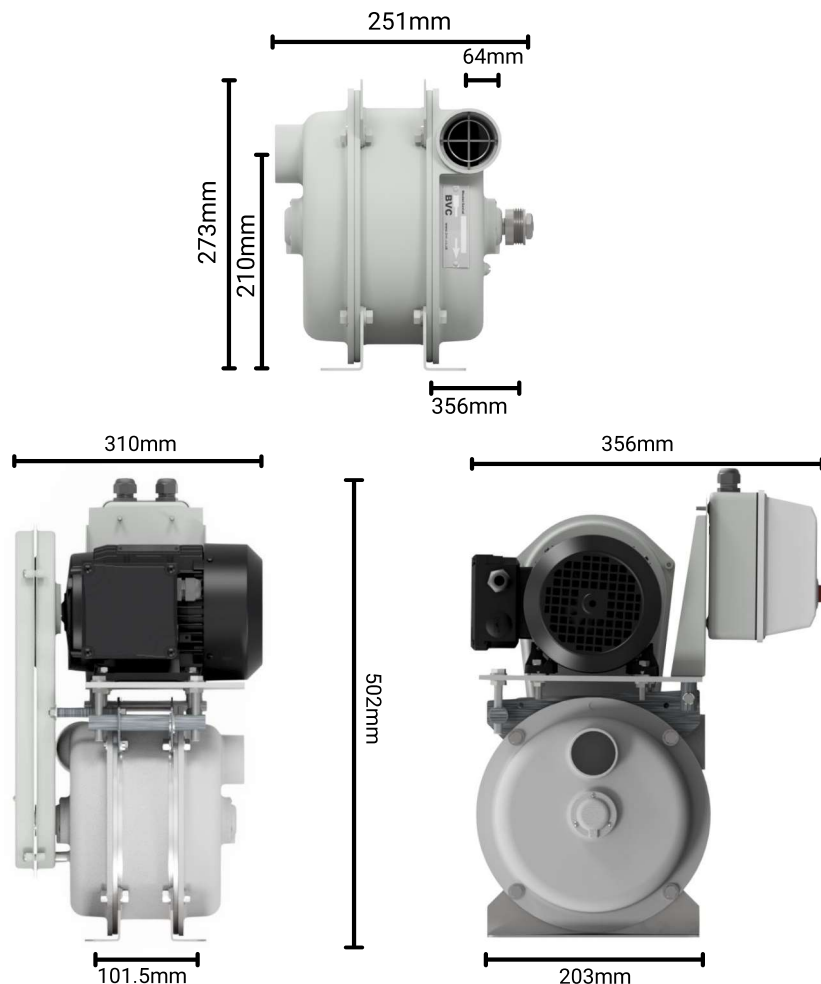
YP3 Exhauster/Blower Supply

Inlet filters (blowers) and outlet silencer (exhausters) can be supplied as optional extras. Blowers may be fitted with a throttle on inlet - details on request.

All bare shaft units are supplied complete with Polyvee Pulley (J4): YP3/100 - 37mm dia, YP3/115-31.6mm dia

	YP3	YP5
IMPELLERS / DIFFUSERS	ALUMINIUM	
SHAFT	STEEL	
INTERMEDIATE RINGS	ALUMINIUM	
END COVERS	ALUMINIUM	
BEARINGS	DEEP GROOVE BALL / INTEGRAL SEALS	
BELT DRIVE	POLYVEE TYPE J4	POLYVEE TYPE J4
NUMBER OF STAGES	3	5
NOMINAL PORT SIZE	51mm	
INLET	AXIAL	
OUTLET	TANGENTIAL (TAPER FIT)	
MOTOR	YP3 - 0.75kW - YP3/100, 1.1kW YP3/115, 230v/400v/3ph/50Hz Induction 2 pole TEFV to IP55 110v / 1ph / 50Hz, 240v / 1ph / 50Hz (0.75kW can be used with 13A fused plug)	YP5 - 2.2kW Induction 2 pole TEFV to IP55 230/400v/3ph/50Hz
NOMINAL SPEED	YP3/100 - 10,000rpm, YP3/115 - 11,500rpm	YP5 - 11,000 RPM
CONTROL SWITCH	Push button starter with overload protection	
WEIGHT	YP3 - Motor Unit - 24kg, YP3 - Bare Shaft - 8kg	YP5 - motor unit - 32kg, YP5 - bare shaft - 10kg
EXHAUSTER APPLICATIONS	INLET - SHOULD BE FITTED WITH FLEXIBLE SLEEVE TO TAKEOUT ANY VIBRATION OUTLET - SHOULD BE FITTED WITH A DISCHARGE SILENCER	
BLOWER APPLICATIONS	INLET - SHOULD BE FITTED WITH IN-LINE FILTER (AND THROTTLE VALVE IF REQUIRED) OUTLET - SHOULD BE FITTED WITH FLEXIBLE SLEEVE TO TAKE OUT ANY VIBRATION	

YP3 Dimensions

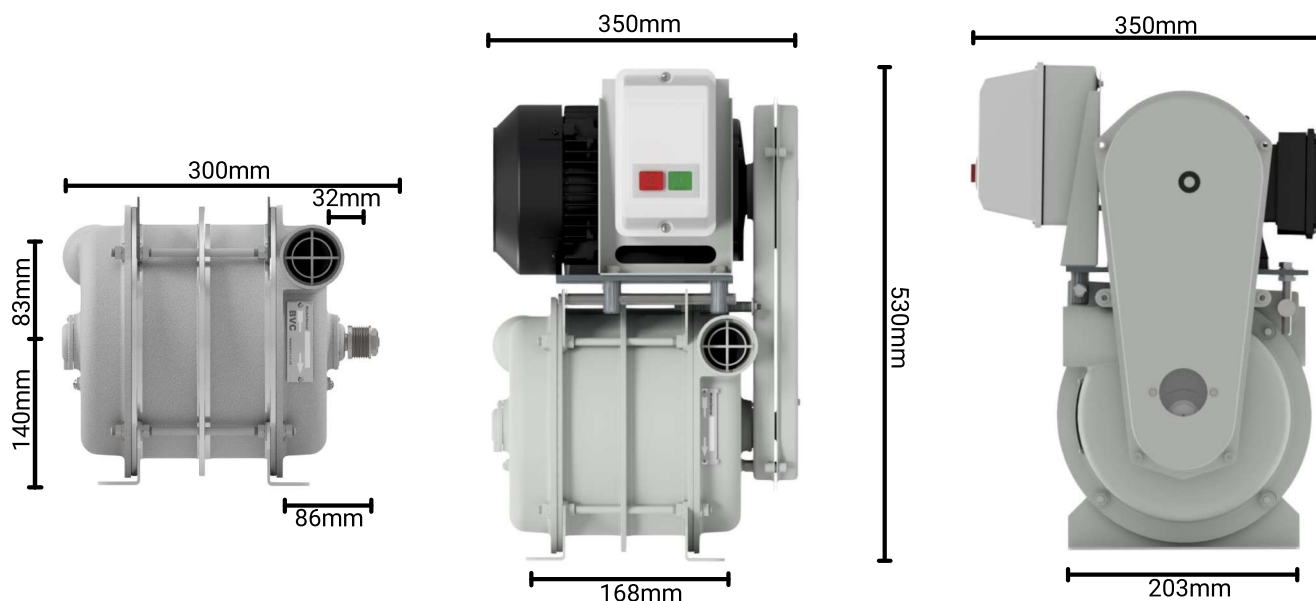


YP5 Exhauster/Blower Supply

Inlet filters (blowers) and outlet silencer (exhausters) can be supplied as optional extras. Blowers may be fitted with a throttle on inlet - details on request.

All bare shaft units are supplied complete with Polyvee Pulley (J8): 38 dia

YP5 Dimensions



YP3																							
VACUUM OR PRESSURE	PSI	0.14	0.28	0.43	0.57	0.71	0.85	1.0	1.13	1.28	1.42	1.56	1.70	1.84	2.0	2.13	2.27	2.41	2.55	2.70	2.83	2.98	3.12
	"WG	3.9	7.9	11.8	15.7	19.7	23.6	27.5	31.5	35.4	39.4	43.3	47.2	51.2	55.1	59.0	63.0	66.9	70.9	74.3	78.7	82.7	86.6
	mmWG	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
EXHAUSTER YP3/100	M³/Hr	233	224	213	202	190	177	162	145	126	105	82	53	20									
	CFM	137	132	125	119	112	104	95	85	74	62	48	31	12									
EXHAUSTER YP3/115	M³/Hr	272	264	255	245	236	226	213	201	187	175	162	143	124	114	102	61	19					
	CFM	160	155	150	144	139	133	125	118	110	103	95	84	73	67	60	36	11					
BLOWER YP3/100	M³/Hr	276	258	248	236	221	209	197	184	172	156	141	126	107	87	61	34						
	CFM	157	152	146	139	130	123	116	108	101	92	83	74	63	51	36	20						
BLOWER YP3/115	M³/Hr	315	306	298	286	275	264	252	240	230	218	207	196	185	170	158	145	129	111	90	73	46	20
	CFM	185	180	175	168	162	155	148	141	135	128	122	115	109	100	93	85	76	65	53	43	27	12

YP5																	
VACUUM OR PRESSURE	PSI	0.28	0.57	0.85	1.13	1.42	1.70	2.0	2.27	2.55	2.84	3.12	3.40	3.69	4.0	4.26	4.54
	"WG	7.9	15.7	23.6	31.5	39.4	47.2	55.1	63.0	70.9	78.7	86.6	94.5	102.4	110.2	118.1	126.0
	mmWG	200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200
EXHAUSTER	M³/Hr	257	244	232	218	204	189	174	154	131	108	79	48				
	CFM	151	143	136	128	120	111	102	91	77	63	46	28				
BLOWER	M³/Hr	275	260	245	231	216	203	190	176	162	148	129	111	90	67	51	29
	CFM	162	153	144	136	127	119	112	103	95	87	76	65	53	41	30	17