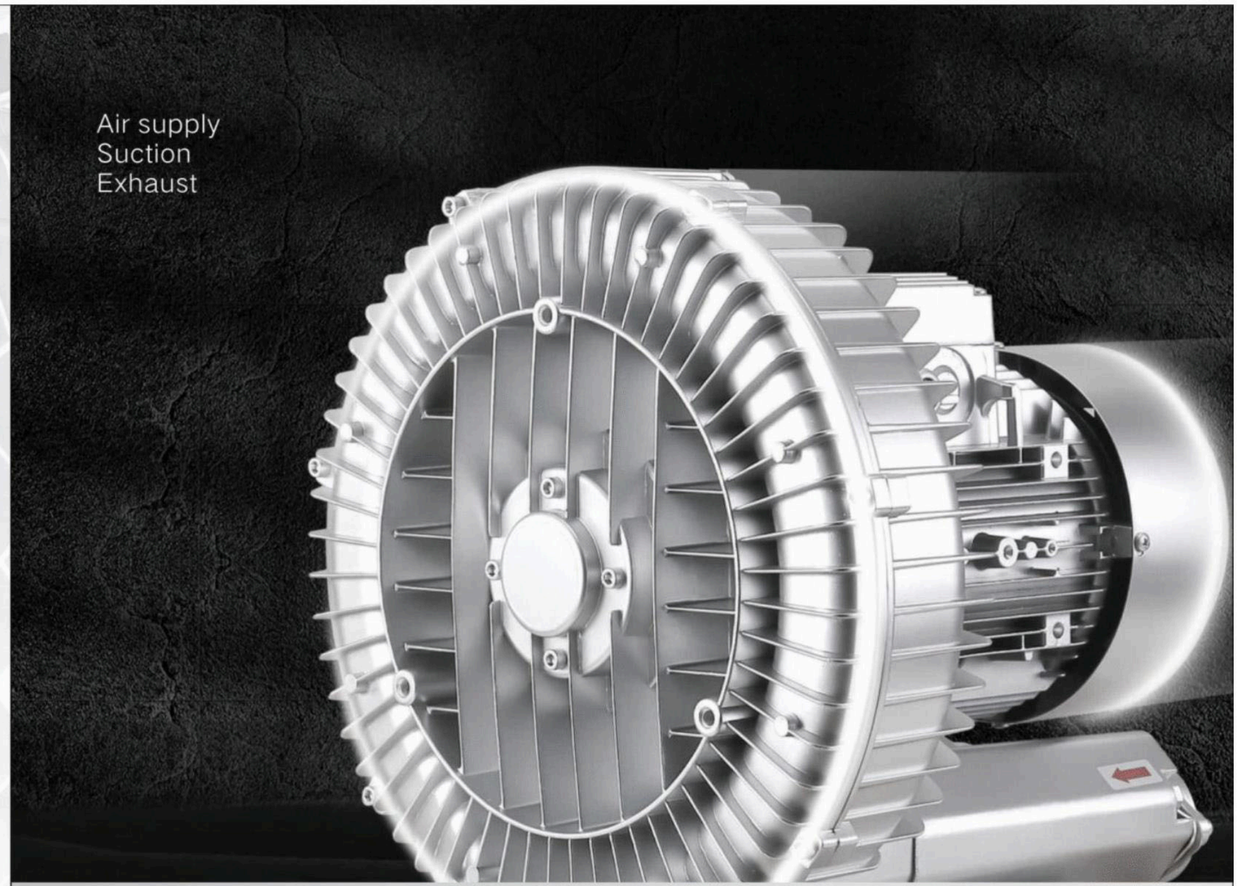
VORTECH AIR PUMP



VORTECH

AIR PUMP



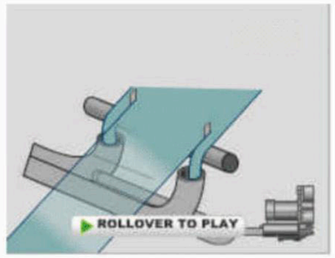


Application

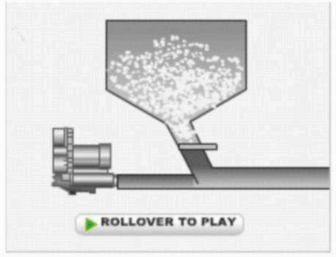
- Pneumatic conveying systems
- Lifting and holding of parts by vacuum
- Packing machines
- Aeration of sewage-treatment plants
- Filling of bags/bottles/hoppers
- Soil remediatiom
- Thermoforming
- Sorting/enveloping of letters
- Food-processing
- Laser printers
- Dental suction equipments
- Paper processing
- Printers/copiers
- Textile machines
- Aeration of fish ponds
- Gas analysis
- Wsimming pool equipment/whirlpools

APPLICATION Area

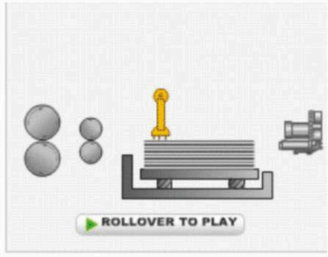
Vortex fans are suitable for multiple fields and can provide more assistance, helping us improve efficiency



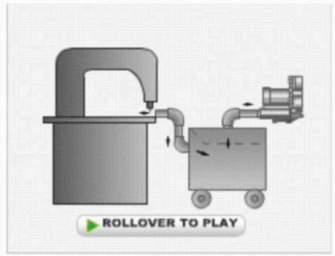
Paper handling system



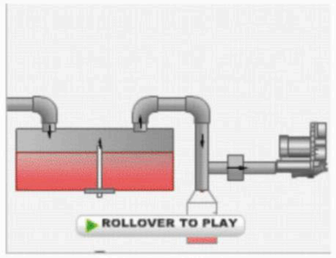
Powder particle transport



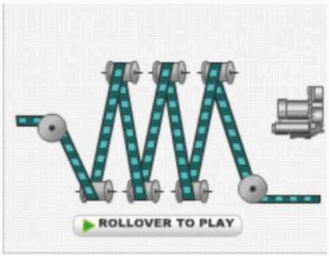
Feeder machine



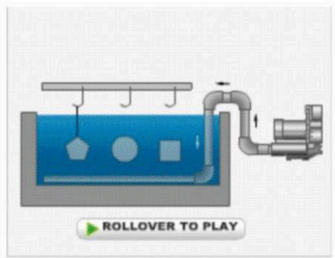
Industrial dust absorbing waste machine



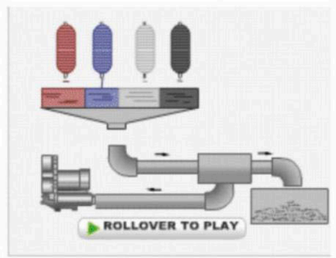
Filling machinery



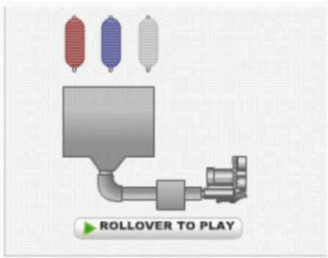
Drying machinery



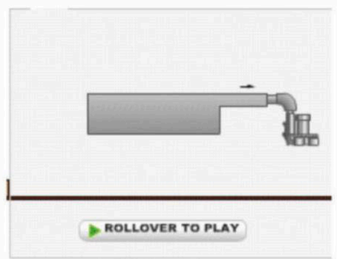
Plating bath stirring



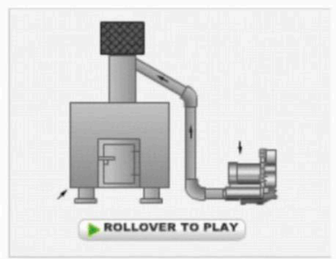
Textile equipment



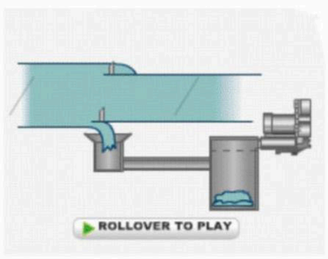
Textile machinery



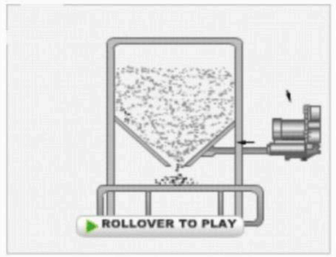
Cutting equipment



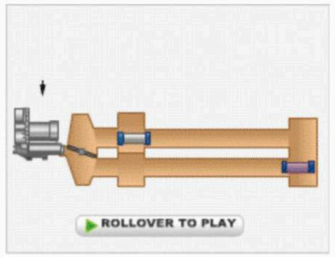
Waste gas treatment



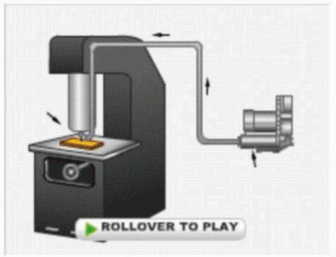
Waste collection



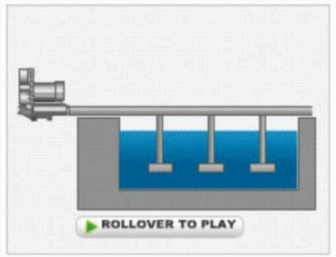
Pellet feeding machine



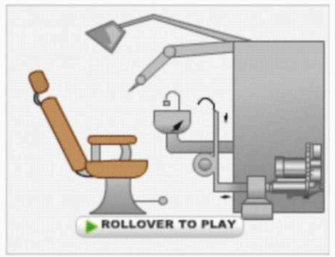
Gas delivery system



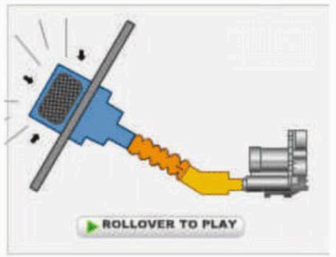
Wood-working machine



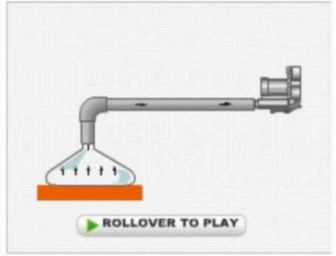
Oxygenation of aquaculture



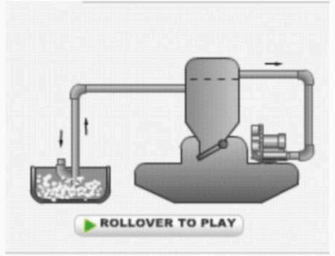
Dental suction machinery



Evaporator



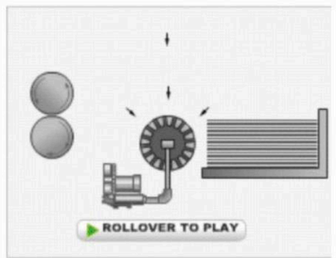
White water recovery machinery



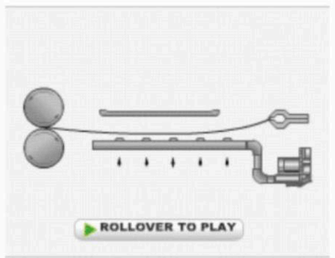
Feeder feeding system



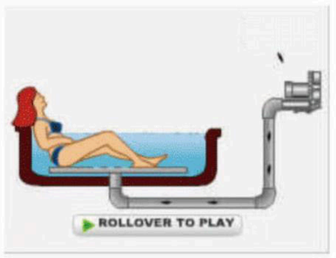
Tunnel engineering ventilation



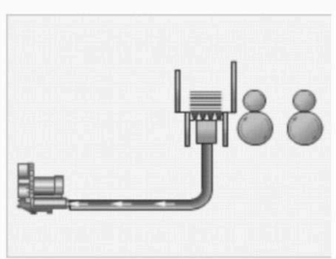
Paper adsorption conveyor

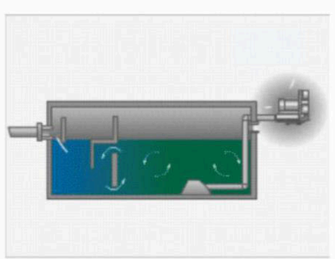


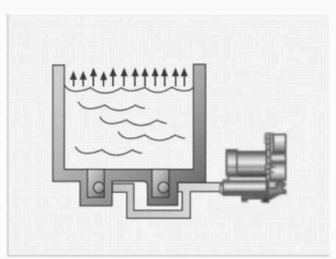
Paper moving mechanical air cushion



Massage bathtub

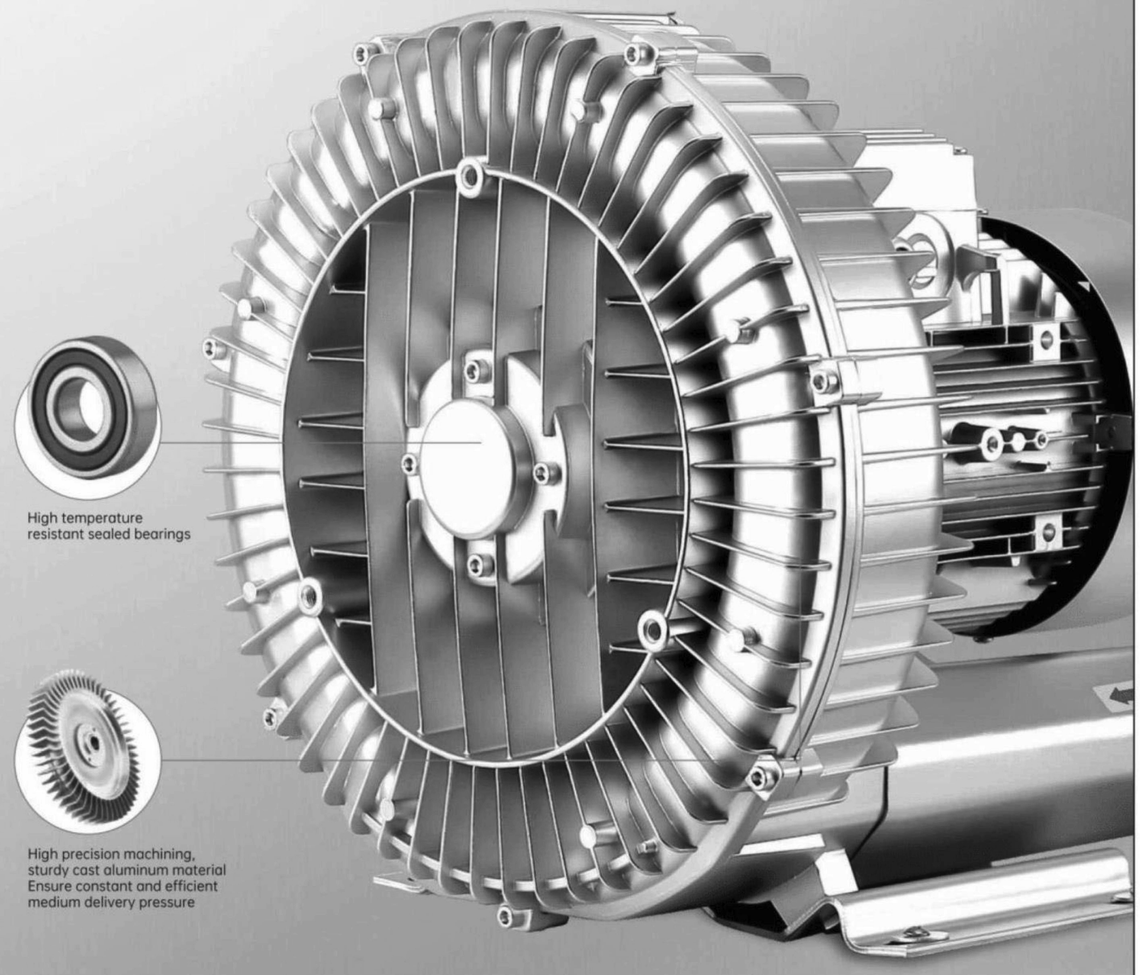

Punched-card reader


Environmental sewage treatment


Requires manure fermentation

IM AIR PUMP single stage

Vortex fan is a new type of fan that can be used for both blowing and inhaling. It has a compact structure, beautiful appearance, no water, no oil, light weight, and is easy to use. It is mainly used for rapier looms, water jet looms, screen printing machines, rubber forming machines, imagesetters, paper cutting machines, printing machines, injection molding machines, automatic feeding, glassware lighting production, electroplating tank liquid stirring, air dust removal, gas transmission, and aquaculture blowing oxygen, etc.



High temperature
resistant sealed bearings

High precision machining,
sturdy cast aluminum material
Ensure constant and efficient
medium delivery pressure

Performance parameter:IE3

TYPE IM SERIES	Single	Motor parameters					Max Airflow	Rated Vacuum	Rated Compress	Noise	Weight
		Frequency	Power	Voltage		Current					
	Double	Hz	KW	V		A	m³/h	mbar	mbar	dB(A)	Kg
IM-0.25KW	single	50	0.25	200-240Δ	345-415Y	2.1Δ/1.2Y	80	-100	110	53	8
IM-0.4KW	single	50	0.4	200-240Δ	345-415Y	2.6Δ/1.5Y	80	-100	130	53	10
IM-0.55KW	single	50	0.55	200-240Δ	345-415Y	2.8Δ/1.6Y	100	-100	120	55	11
IM-0.7KW	single	50	0.7	200-240Δ	345-415Y	3.8Δ/2.2Y	100	-140	150	55	12
IMS-0.7KW	single	50	0.7	200-240Δ	345-415Y	3.8Δ/2.2Y	145	-120	120	63	13
IM-0.85KW	single	50	0.85	200-240Δ	345-415Y	4.0Δ/2.3Y	145	-130	-120	63	15
IM-1.3KW	single	50	1.3	200-240Δ	345-415Y	5.7Δ/3.3Y	145	-180	180	63	16
IM-1.6KW	single	50	1.6	200-240Δ	345-415Y	7.5Δ/4.3Y	210	-200	190	64	21
IM-2.2KW	single	50	2.2	200-240Δ	345-415Y	9.7Δ/5.6Y	210	-220	270	64	25
IMS-1.6KW	single	50	1.6	200-240Δ	345-415Y	8.5Δ/4.9Y	265	-170	180	67	24
IMS-2.2KW	single	50	2.2	200-240Δ	345-415Y	9.7Δ/5.6Y	265	-160	200	67	27
IM-3.0KW	single	50	3	200-240Δ	345-415Y	12.5Δ/7.2Y	265	-255	270	69	32
IM-4.0KW	single	50	4	345-415Δ	600-720Y	9.5Δ/5.5Y	318	-270	320	69	42
IM-5.5KW	single	50	5.5	345-415Δ	600-720Y	12.9Δ/7.4Y	530	-270	290	80	63
IM-7.5KW	single	50	7.5	345-415Δ	600-720Y	16.7Δ/9.6Y	530	-295	390	80	66
IM-8.5KW	single	50	8.5	345-415Δ	600-720Y	18.2Δ/10.5Y	1050	-190	190	74	93
IM-12.5KW	single	50	12.5	345-415Δ	600-720Y	28.0Δ/16.2Y	1050	-290	270	74	116
IM-15KW	single	50	15	345-415Δ	600-720Y	35.0Δ/20.0Y	1050	-320	380	74	120
IM18.5KW	single	50	18.5	345-415Δ	600-720Y	37.0Δ/21.0Y	1050	-350	440	74	126

Performance parameter:IE3

TYPE IM SERIES	Single	Motor parameters					Max Airflow	Rated Vacuum	Rated Compress	Noise	Weight
		Frequency	Power	Voltage		Current					
	Double	Hz	KW	V		A	m³/h	mbar	mbar	dB(A)	Kg
2IM-0.7kW	double	50	0.7	200-240Δ	345-415Y	3.8Δ/2.2Y	85	-200	240	55	15
2IM-0.85kW	double	50	0.85	200-240Δ	345-415Y	4.2Δ/2.4Y	110	-200	230	58	17
2IM-1.3kW	double	50	1.3	200-240Δ	345-415Y	5.7Δ/3.3Y	110	-260	270	58	18
2IM-1.6kW	double	50	1.6	200-240Δ	345-415Y	7.5Δ/4.3Y	150	-275	280	66	25
2IM-2.2kW	double	50	2.2	200-240Δ	345-415Y	9.7Δ/5.6Y	150	-320	390	66	27
2IMS-2.2kW	double	50	2.2	200-240Δ	345-415Y	9.7Δ/5.6Y	230	-290	360	72	35
2IM-3.0kW	double	50	3	200-240Δ	345-415Y	12.5Δ/7.2Y	230	-340	410	72	39
2IM-4.0kW	double	50	4	345-415Δ	600-720Y	9.5Δ/5.5Y	230	-355	440	72	44
2IMS-2.2kW	double	50	2.2	220-275Δ	345-415Y	9.7Δ/5.6Y	320	-220	210	73	42
2IMS-3.0kW	double	50	3	200-240Δ	345-415Y	12.5Δ/7.2Y	320	-280	260	73	47
2IMS-4.0kW	double	50	4	345-415Δ	600-720Y	10.0Δ/5.8Y	320	-360	380	73	53
2IM-5.5KW	double	50	5.5	345-415Δ	600-720Y	13.3Δ/7.7Y	320	-410	500	73	70
2IM-7.5KW	double	50	7.5	345-415Δ	600-720Y	16.7Δ/9.6Y	320	-420	570	73	77
2IMS-5.5KW	double	50	5.5	345-415Δ	600-720Y	13.3Δ/7.7Y	520	-250	240	74	83
2IMS-7.5KW	double	50	7.5	345-415Δ	600-720Y	16.7Δ/9.6Y	520	-400	400	74	88
2IM-11KW	double	50	11	345-415Δ	600-720Y	28.0Δ/16.2Y	520	-430	600	74	104
2IM-15KW	double	50	15	345-415Δ	600-720Y	32.5Δ/18.8Y	520	-460	670	74	120
2IM-12.5KW	double	50	12.5	345-415Δ	600-720Y	28.0Δ/16.2Y	1110	-300	270	74	187
2IM-16.5KW	double	50	16.5	345-415Δ	600-720Y	35.0Δ/20.0Y	1110	-410	370	74	197
2IM-20KW	double	50	20	345-415Δ	600-720Y	40.0Δ/23.0Y	1110	-440	500	74	204
2IM-25KW	double	50	25	345-415Δ	600-720Y	52.0Δ/30.0Y	1110	-440	590	74	211

2IM

Double bladed fan is an efficient and stable fan with a wide range of application scenarios. A double bladed fan consists of two opposite rotating impellers, with a silencer installed between the impellers to reduce noise. In addition, the casing of the fan is usually made of cast aluminum material for easy portability and installation.

Double bladed wind turbines have high efficiency, strong wind power, stable operation, and low noise.



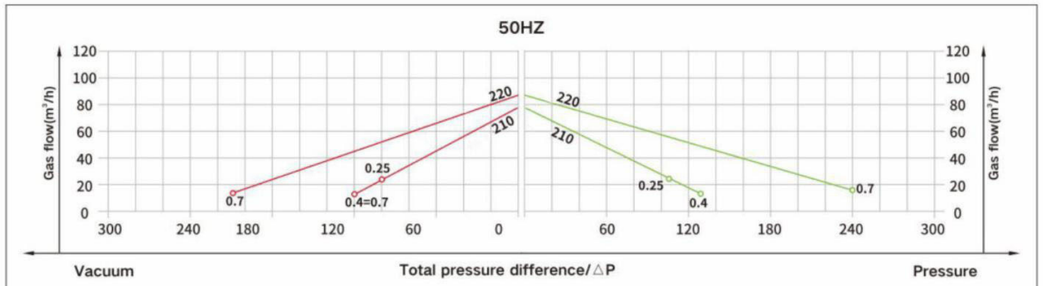
High precision machining, sturdy cast aluminum material Ensure constant and efficient medium delivery pressure

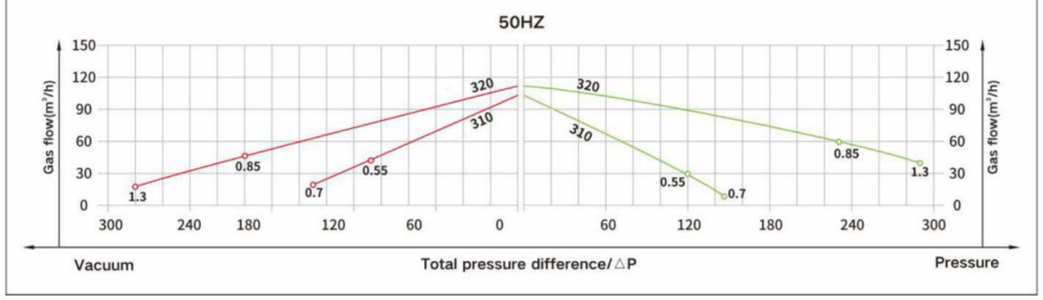


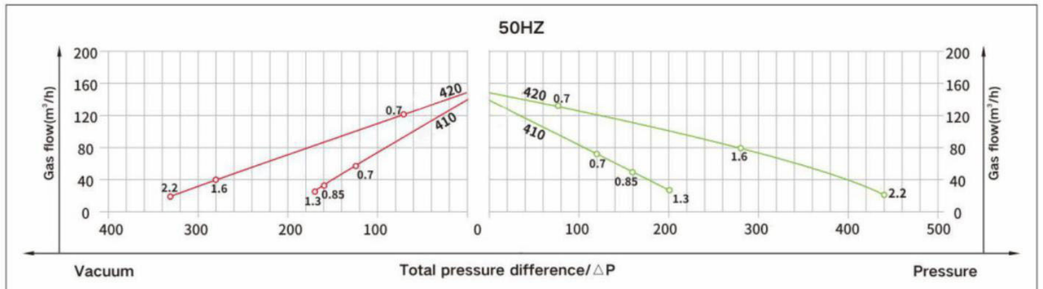
High temperature resistant sealed bearings

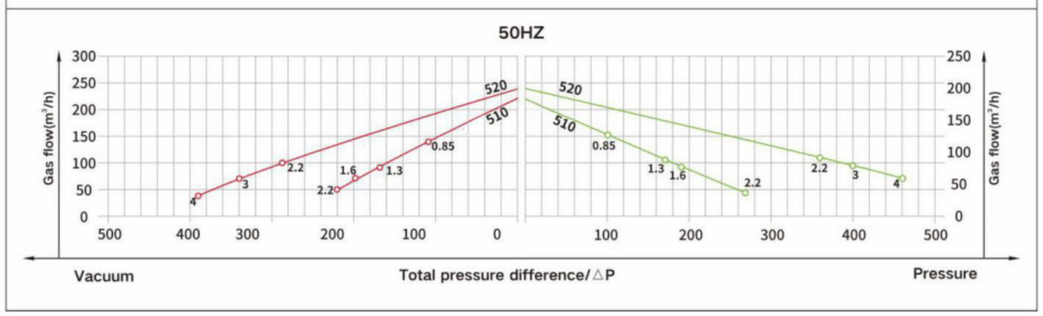


The performance curves are valid for pumping air at 15°c at the inlet flanges with an air pressure of 1.103 mbar of +10%.
the total pressure differences are valid up to an intake and ambient of 25°c.

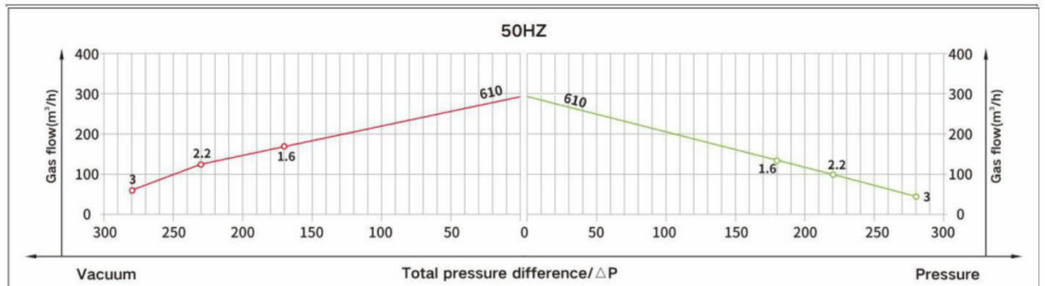


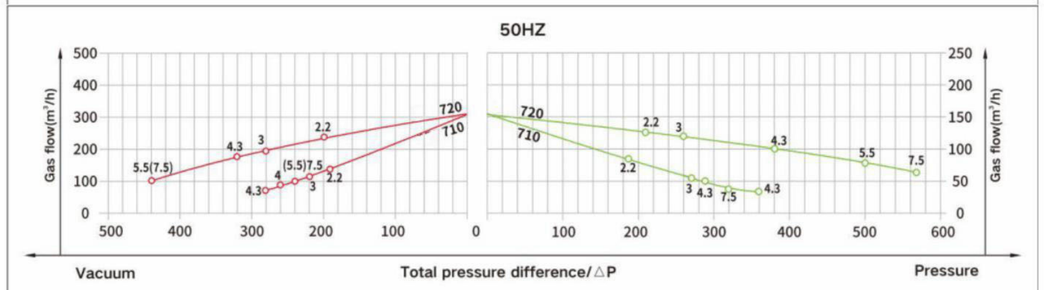


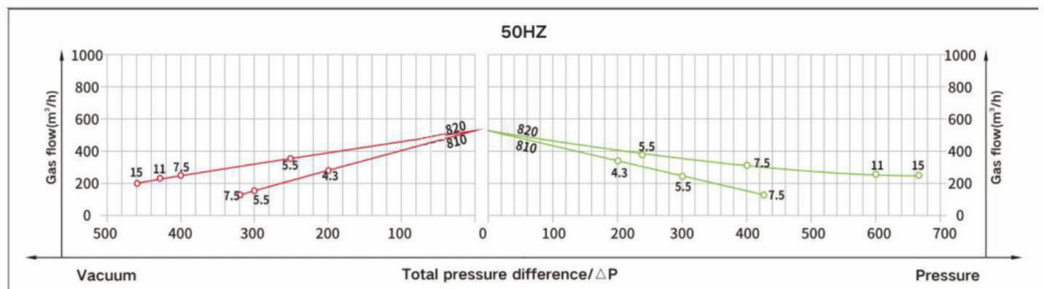


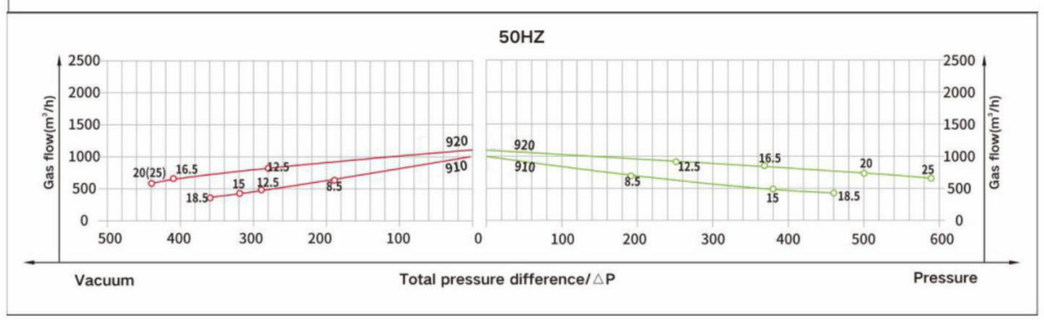


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the total pressure differences are valid up to an intake and ambient of 25°c.





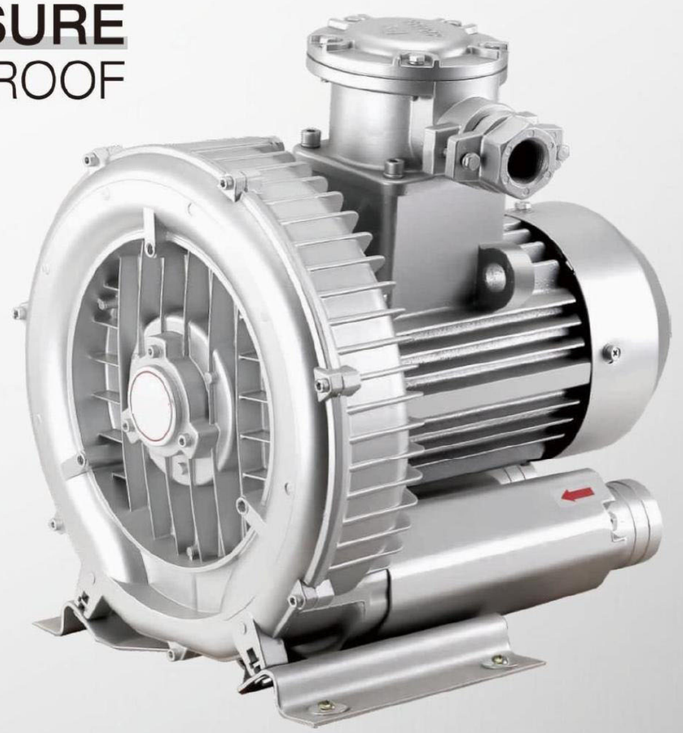




EX-RB

HIGH PRESSURE

EXPLOSION-PROOF
FAN



Points for attention

Safety precautions: The allowable inlet temperature of the room temperature fan is 40 ℃, and the above models can be treated with insulation and corrosion resistance. Due to the possibility of generating a temperature of up to 100 ℃ during operation, high-pressure series fans should be avoided in areas where danger may arise due to temperature rise during design and use. The fan configuration is: all aluminum body blades are equipped with professional explosion-proof motors, with a motor protection level of IP55, insulation level of F, and the highest explosion-proof level of DIIBT4 DIICT4.

The high-pressure heat insulation fan function is applied in industry to ensure the normal operation of the motor in high-temperature environments. The fan adopts high-temperature bearing, H-pole motor ensures motor operation, and the motor shaft is extended. The shaft is equipped with a heat dissipation fan to ensure temperature transmission to the motor. Therefore, the fan can withstand a temperature of 260 degrees and operate normally with guaranteed quality. Customers are welcome to call for the latest information.



Performance parameter:IE3

TYPE EX-RB	Phase	Frequency	Power	Voltage	Current	Vacuum (rated)	Presure (rated)	AirFlow(max)	In/out LET	Noises	Weight
		Hz	KW	V	A	kpa	kpa	m^3/min	Inch	dB(A)	Kg
EX-RB-2/1	3	50/60	0.37	380	1.5	-11/-12	10/9	1.4/1.5	1.25	50	18
EX-RB-1	3	50/60	0.75	380	1.83	-13/-14	16/15	2.2/2.5	1.5	57	25
EX-RB-2	3	50/60	1.5	380	3.43	-17/-14	18/15	3.2/4.5	2	75	40
EX-RB-3	3	50/60	2.2	380	4.85	-20/-15	20/15	5/6.2	2	77	46
EX-RB-5	3	50/60	4	380	8.1	-22/-22	24/21	7/7.5	2	80	74
EX-RB-7.5	3	50/60	5.5	380	11	-23/-28	30/25	10/11	2.5	83	90
EX-RB-10	3	50/60	7.5	380	14.9	-21/-19	23/19	10/12	2.5	85	105
EX-RB-15	3	50/60	11	380	22.8	-20/-15	18/15	19/24	4	85	175
EX-RB-20	3	50/60	15	380	33.1	-26/-20	24/20	19/24	4	85	182
EX-RB-25	3	50/60	18.5	380	40.2	-32/-25	30/25	19/24	4	90	185

Accessories Series
Filter Bucket



Filter element

By gas temperature -15~90 ℃

Filtering accuracy of 99%
(5 micron particles)



dust
collection filter barrel



Complete picture of accessories







Sealing cover+filter barrel

Accessories Series
Pressure relief valve



RV-01/0-300MBAR
Relief valve



0–600MABR
Aluminum alloy pressure relief valve



Dimensions of plastic pressure relief valves



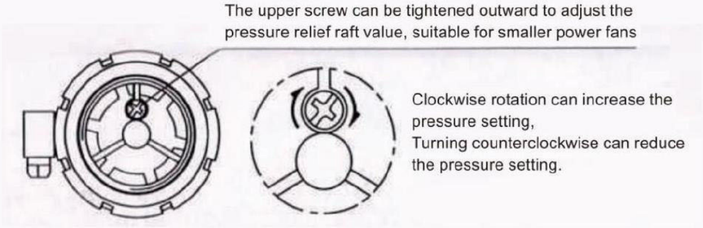
Type	Caliber	Length	Pressure range	Material
RV-01	40mm	140mm	0~300mbar	Plastics
RV-02	40mm	140mm	300~600mbar	Plastics

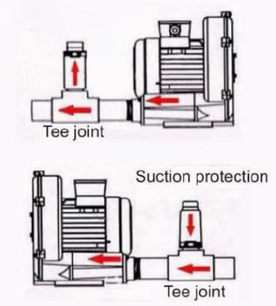
Dimensions of aluminum alloy pressure relief valves



Type	Caliber	Length	Pressure range	Material
RV1.25AL	40mm	150mm	0~600mbar	Aluminum alloy

Method of use for plastic pressure relief valves





Accessories Series
Filter



Filter 2.5 inches



Filter 2 inches



Filter 1.5 inches



Filter 1.2 inches



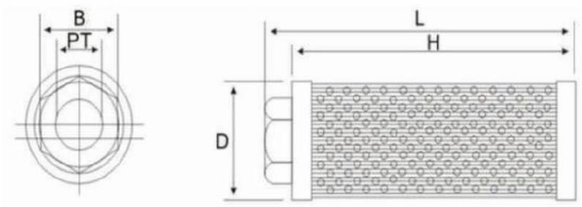
Filter 4 inches

The filter needs to be paired with a double wire connector to be connected to the 100 mesh filter screen of the fan air duct, which can filter dust with a particle size of over 150 microns. The basic dust-free effect is achieved, ensuring the internal cleanliness of the fan. Additionally, some noise reduction and vibration reduction effects are added, effectively extending the service life of the fan. The threaded joints are easy to disassemble and clean.

MF type filter

Material: aluminum alloy+steel wire mesh

Filter density: 100 mesh



TYPE	thread	D mm	L mm	H mm	B mm	filtration mm	flow mm	weight mm
MF-10/1.2寸	1 1/4"	71	186	170	54	100	210	0.35
MF-12/1.5寸	1 1/2"	85	196	182	65	100	285	0.49
MF-16/2寸	2"	103	215	202	75	100	395	0.65
MF-20/2.5寸	2 1/2"	148	274	252	97	100	750	1.20
MF-32/4寸	4"	208	380	357	142	100	1000	2.45

Accessories Series
Silencer



(76mm)
Silencer 2.5 inches



(48mm)
Silencer 1.5 inches



(40mm)
Silencer 1.2 inches



(60mm)
Silencer 2 inches



(113mm)
Silencer 4 inches

The actual test reduced the noise by 15-25 decibels, and the use of this silencer in the vortex pump was not completely silent (the noise generated by the compressed air from the motor and impeller was not eliminated). The silencer is made of 201 stainless steel, and the default model is spot welding without complete airtightness. If full welding is required for customization, an additional 15 yuan/piece is required, and the customized delivery time is 2-3 days. The metal muffler mesh and sound-absorbing cotton inside the muffler can withstand a temperature of 120 degrees Celsius and cannot be used for high-temperature gases.

Silencer specifications	Thread diameter (g) (G)	Outer diameter (d) (mm)	Simple length (e) (mm)	Tooth length (b) (mm)	Total length (mm)
1.2寸	1 1/4"	76	200	30	260
1.5寸	1 1/2"	89	250	35	320
2寸	2"	102	300	40	380
2.5寸	2 1/2"	133	500	45	590
3寸	3"	159	500	45	590
4寸	4"	159	500	50	600

