



ROTARY BLOWER

R Series

BLOWER



TAIKO KIKAI INDUSTRIES CO., LTD.

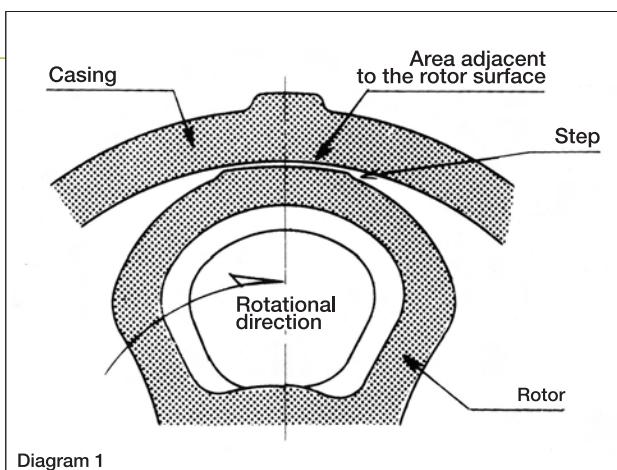
The R Series is a two-lobe roots-type dual shaft rotary blower that uses a special profile impeller that was developed by combining years of research and technology. We worked to create extremely practical rotary blowers with appropriate clearance that demonstrate high performance in volumetric efficiency and overall heat-insulating efficiency. The R Series offers a variety of models with a wide range of specifications to satisfy our customers, from small to large volume, low to high pressure, and air to special gas blowers.

Features

1 High(energy saving) volumetric efficiency

As illustrated in Diagram 1, the peak of the rotor profile in the R Series is formed with an inner peripheral casing and a surface seal. The conventional root-type blowers have a linear seal structure, making it easier for the discharged gas to blow-by the rotor peak towards the intake area.

In the R Series, a step has been added to the circular arc of the rotor. Gas that attempts to blow through in the opposite direction in which the rotor is moving is curtailed by a backspin flow produced by the step, significantly increasing volumetric efficiency and resulting in saving



2 A variety of models

The R Series is based on pneumatic transportation of air, but can also handle special gas. The seal construction can handle mechanical seals and other seals at the shaft. In addition, it can handle various material qualities, including FC, FCD, SC, and SCS materials.

The surface treatment of areas that come into contact with gas include kanizen plating and aluminum coating.

Collectively, these allow not only the pneumatic transportation of gas, but also gas intake (vacuum). We also have a variety of dry and wet-type models.

3 Oil-free

The casing and rotor are non-contact, eliminating the need for oil lubrication in the inner casing. Also, the blowers are constructed so that lubricant in the bearings and gears won't mix with the inner casing.

4 Simple construction

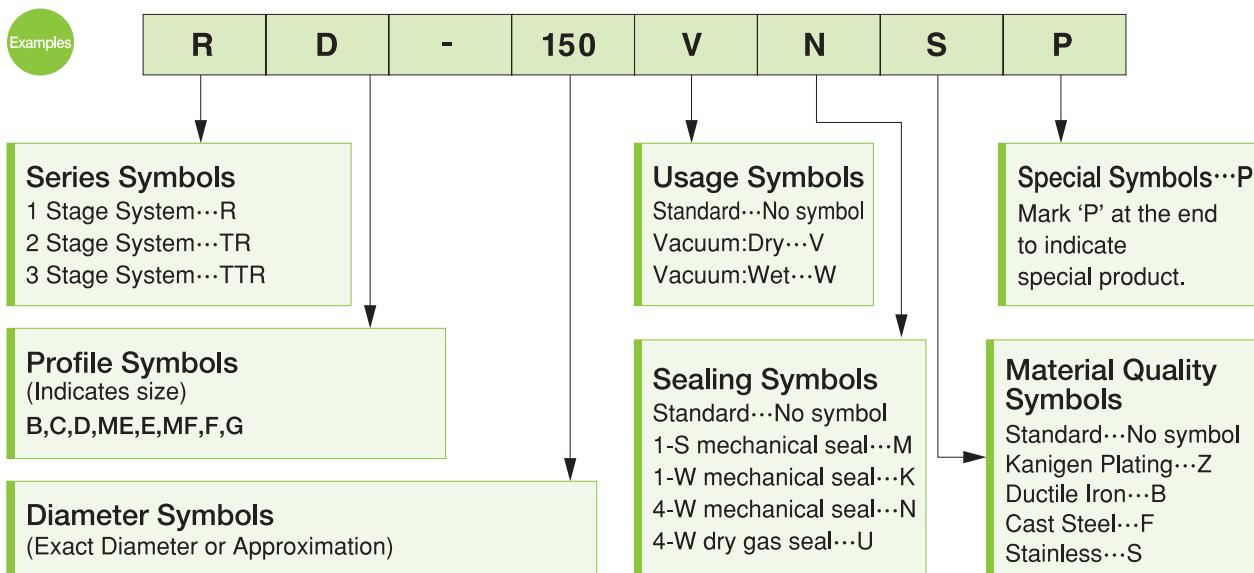
There are no valve systems that break down easily, and the rotors rotate with no slides. Because there are very few areas that come into contact with one another, the blowers are very durable and can be operated over a long period of time. Combining with these features offer easy maintenance.

5 Low noise, less vibration

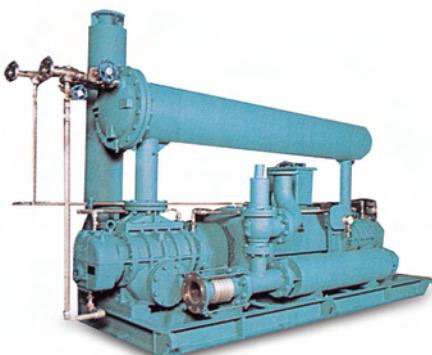
Noise is minimized due to wide-spaced teeth, modules, high-quality materials, optimum heat treatment, and teeth sharpened to gear accuracy above JIS1 class precision, and a tapered fit makes a precise seal possible for lower noise.

Plus, the rotor uses a dynamic balancer to achieve perfect balance. Together with highly rigid components and construction, the combination ensures low vibration over a long period.

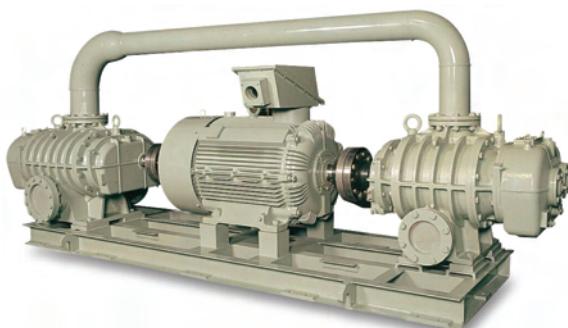
R Series Type Symbols



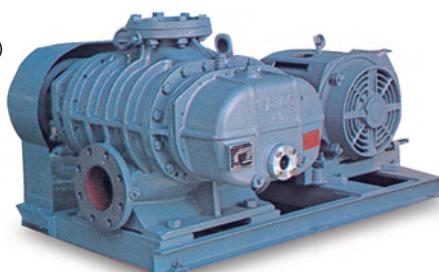
R Series Product Overview



2 Stage Pressurized Gas Blower
TR Series (Double axis direct drive motor)



2 Stage Gas Intake Wet Blower
TR-W Series (Double axis direct drive motor)



1 Stage Pressurized Gas Blower, Gas Intake Dry Blower
R Series, R-V Series (Standard, V belt drive)



1 Stage Pressurized Gas Blower
Sealing: 4-W mechanical seal
Gas sector: Kanigen plating
R-NZ Series (Direct drive motor)



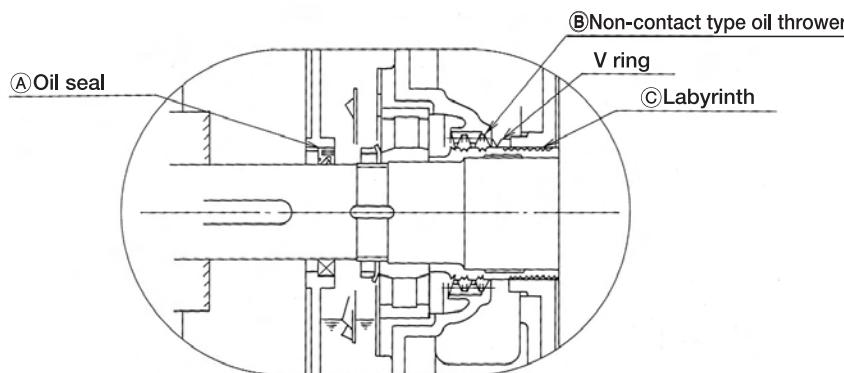
1 Stage Pressurized Gas Blower
Sealing: 4-W mechanical seal
Gas sector: Stainless
R-NS Series (V belt drive with counter axis)

Sealing options

The items ABC shown below are all available. We will choose the appropriate one for your needs.

A. Shaft Sealing	B. Bearing oil Sealing	C. Gland Sealing
Standard Type RB~RD:Oil sealing Type RME~RG:Labyrinth+V ring	Standard Non-contact type oil thrower (For Vacuum use...+ V ring)	Standard Labyrinth (Drainage in sleeve)
K Type 1-W mechanical seal (Patent fuel circulation device Perfect seal by oil tank pressure)	Oil Sealing Type Double- oil seal	Teflon Labyrinth Type Teflon labyrinth (Tiny gap possibility...virtually no leak)

Standard Structure Detail (Reference: Type RB~RD)



N Type 4-W mechanical seal
U Type 4-W dry gas seal
Labyrinth 2 room Type Standard labyrinth + Teflon labyrinth (Maintenance free, closed and oil free)

Refueling, Lubricating and Cooling

Refueling See below for details of bearing and pilot gear refueling.
 Type of oil and refueling method is also listed below. Please select appropriate oil and method according to specification.

Cooling Cooling method is also listed below. Please select appropriate cooling method according to specification.



Shell:Tellus oil 68
 Nisseki:FBK Oil RO68
 Idemitsu: Daphne mechanic oil

Use multi-purpose industrial oil listed here or additive Turbine Oil 68.

Method	Refueling and Lubricating		Cooling			
Location	Bearing cover (Bearing) (Drive side)	Gear case (Bearing and gear) (Opposite side of drive)	Bearing cover (Drive side)		Gear case (Opposite side of drive)	
Type	Standard	Standard	Standard	Special	Standard	Special
Type RB and RC	Oil bath Splasher Splash	Oil bath Gear splash	No jacket Natural cooling	SS jacket Water cooling	No jacket Natural cooling	SS jacket Water cooling
Type RD, RME, RE, RMF and RF Type RG	Oil bath Splasher Splash	Oil bath Gear splash	No jacket Natural cooling	Jacket water cooling	Jacket water cooling	No jacket Natural cooling

Main materials

The materials used for the dual shaft rotary blower are listed below.

We will select the appropriate combination of materials from the lists below in consideration of your machine and the type of gas.

Number	Material Names	Labels	Features	TAIKO Labels
F-1	Gray cast iron	FC200	Standard material	
F-2	Nodular graphite cast iron	FCD400	High strength, Low temperature -30°C, High pressure	B
S-1	Carbon steel cast iron	SC410	High strength, Low temperature , High pressure, Corrosion-resistance	F
S-2	Low temperature high pressure cast iron	SCPL1	Low temperature -45°C	F
S-3	Stainless cast iron	SCS1	13 Cr steel, Low thermal expansion	S
S-4	Stainless cast iron	SCS13	SUS304 equivalent, Corrosion-resistance, Low temperature, High pressure	S
S-5	Stainless cast iron	SCS14	SUS316 equivalent, Corrosion-resistance, Low temperature, High pressure	S
F-3	High nickel cast iron	Ni-Resist	30%Ni, Corrosion-resistance	
B-1	Bronze cast iron	CAC403	Spark prevention, Rust proof	
A-1	Aluminum alloy cast iron	AC4C	Spark prevention, Light weight	
S-6	Stainless steel bar	SUS304,316	Corrosion-resistance, Low temperature	
S-7	Carbon iron for machine	S45C	Standard shaft material	
S-8	Chrome molybdenum steel	SCM440H	Axis material (High strength)	
S-9	Chrome molybdenum steel	SCM415	Standard gear material	
S-10	Rolled steel for general structure	SS400		

Surface Treatment (Gas sector)

The list below is for standard material FC200.

Classification	Number	Materials	Details	Features
Coating	C-1	Aluminum coating	10~20μAL Paint	Rust proof, For export
	C-2	Cashew silver coating	10~20μCashew paint	Corrosion-resistance (Car exhaust etc)
Plating	P-1	Kanigen plating	Chemical Ni plating, 50μ	Corrosion-resistance (Equally coated)
	P-2	Chrome plating	Electric plating, Ni-Ni-Cr 20-30μ	Corrosion-resistance (Impeller only)
Lining	L-1	Rubber lining	NR, NBR, other 3-5mm	Corrosion-resistance, spark prevention
	L-2	Teflon lining	Teflon 1-3mm	Corrosion-resistance, spark prevention

Main parts' materials

The materials listed below are available for each part.

Parts Classification	Casing Side cover	Impeller	Gear case Bearing cover	Shaft	Gear
Standard materials	F-1	F-1	F-1	S-7, S-8	S-9
Special materials	F-2, S-1 S-2 S-4, S-5	F-2, S-1, S-2 S-3, F-3, B-1 A-1, S-4, S-5	F-2, S-10 └ RB, RC Jacket For high pressure	S-6	
Surface treatment	C-1, C-2 P-1 L-1, L-2	C-1, C-2 P-1, P-2 L-1, L-2			

Reading the Performance Tables and Using the Products

Air volume

Performance tables is indicated when the fluid is based on air. For rotary blowers under standard conditions (101.3kPa atmospheric pressure, 20°C, 75% humidity) and vacuum pumps at 20°C for each vacuum level, $Q_{sm^3/min}$ is used to indicate air volume suction. In other words, when the prescribed state is expressed by $QN_{m^3/min}$, it is necessary to view the chart by converting to Q_s .

Normal humidity is ignored. (Take into consideration when precise air volume is necessary.)

$$Q_s = Q_n \times \frac{273 + T_s}{273} \times \frac{101.3}{101.3 + P_s}$$

(101.3 changes to 1.033kg/cm², 10330mmAq, etc. depending on the unit)

When taking humidity into account, use $P_s - \psi F$ in place of P_s . (P_s :gauge pressure)

When gas temperature T_s rises above 20°C, or when the molecular weight M becomes greater than 29 (air), volumetric capacity changes. (Internal leak volume Q_b changes.)

Internal leak volume Qbam³/min=Yth-Qsa. Qba: leak capacity when air is 20°C as calculated from this table.

If $Obam^3/min$ is the internal leak volume when suction temperature is $T_s^\circ C$ and molecular weight is M , then:

$$Q_b = Q_{ba} \times \sqrt{\frac{273+T_s}{273+20}} \times \frac{29}{M}$$

When internal leak is the same as pressure (pressure ratio), they will be the same regardless of rotational speed. Also, theoretical volume V_{th} m³/min will be exactly proportional to the rotational speed. Distribute intermediary Q_{sa} listed in this chart from preceding and subsequent Q_{sa} .

Horsepower

Shaft horsepower La is determined by differential pressure and rotational speed. Distribute intermediary pressure listed in this chart from preceding and subsequent shaft horsepower.

- ①The required power La is indicated by an equivalent motor output for each pressure. It is advisable to leave a slight margin using $La \times 1.1-1.2$ for the actual motor output. ②When operating under conditions where blow-off relief valves are used and overload is prevented by complete shut-off, take into account the total shut-off pressure to determine motor output. ③When using a gland seal, mechanical seal, oil seal, etc. La will rise slightly by the loss from sliding fiction.

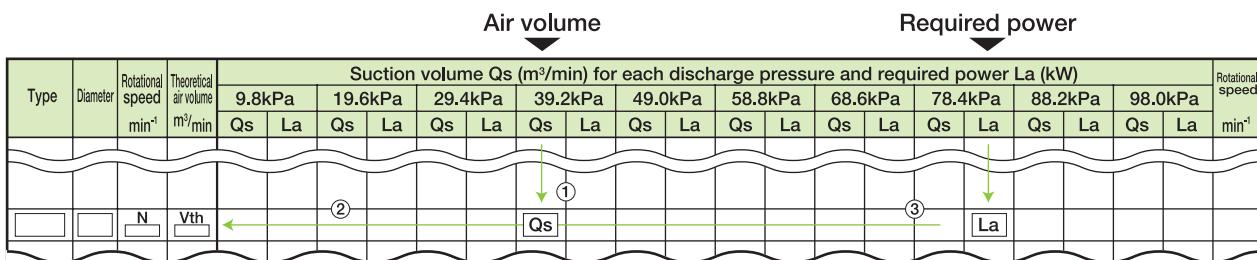
When suction pressure is not atmospheric pressure

When viewing the performance listed on the table, the pressure ratio should be viewed as equal to discharge pressure. For example:
When suction pressure is $P_s = 98\text{ kPa}$, $P_d = 176.4\text{ kPa}$ pressure ratio

$$\text{pressure ratio } \frac{101.3+176.4 (\text{Pd})}{101.3+98 (\text{Ps})} = \frac{101.3+\text{Pd}}{101.3+98}$$

P' is the catalog discharge pressure of the same pressure ratio by atmospheric pressure suction.

That is, you should view 39.2kPa in the catalog as an indication. However, the required power is the differential power, so in relation to the rotational speed sought from the above, the shaft power is 78.4kPa.



Summary

This table can be used for any sorts of specification if the above is understood. In other words, choose the general type from the required air volume Q_s , calculate Q_{sa} and Q_{sb} from the pressure (pressure ratio), and then calculate Q_b from T_s and M . Obtain necessary V_{th} from Q_s+Q_b , and rotational speed $N\text{min}^{-1}$ can be calculated from the necessary V_{th} . L_a can be obtained from the rotational speed N and differential pressure $\triangle P$.

(However, when the internal clearance changes due to factors such as material quality, expected calculations may not be obtained.)

■ Calculating pressure

atmospheric pressure=101.325kPa=1.033kg/cm²=760mmHG(760Torr)

$1.033 \text{ kg/cm}^2 \doteq 10330 \text{ mmHg}$

$$1 \text{ atm} = 101325 \text{ Pa} = 0.101325 \text{ MPa} = 1.033 \text{ kg/cm}^2$$

R Series Supply Result

R series applies to a variety of intake gas and their uses. Some examples are listed below.

Type	Intake gas name	Intake temperature (°C)	Intake capacity (m³/min)	Intake pressure (kPa)	Discharge pressure (kPa)	Gas sector material (Casing/Impeller)	Other
TRG-500W	AIR	30	411.7	-66.6	1.5	FC200/FC200	2 stage/ Wet
TRD-130KP	O₂/N₂/Ar	35	20.1	0	150.0	FC200/FC200	2 stage/ 1-W mechanical seal
TRE-150KP	O₂/N₂/Ar	40	24.8	40.0	150.0	FC200/FC200	2 stage/ 1-W mechanical seal
RF-250KP	O₂/N₂/Ar	40	112.7	7.0	40.0	FC200/FC200	1-W mechanical seal
RG-450MP	N₂	45	361.3	2.0	79.9	FC200/FCD400	1-S mechanical seal
RF-245NBP	H₂/N₂/H₂O	50	69.4	760.0	834.0	FCD400/FC200	4-W mechanical seal
TRE-200VUFP	N₂	40	51.8	-66.3	14.7	SCPL1/SC410	2 stage/ 4-W dry gas seal
RC-80WNSP	H₂/N₂	35	5.8	-2.5	29.4	SCS13/SCS13	4-W mechanical seal/ Wet
RD-130WNP	Cl₂(Dry)	50	26.0	-9.8	39.2	FC300/FC300	4-W mechanical seal/ Wet
RC-100KBP	N₂/O₂/CO₂/Exhaust	30	9.3	-1.0	55.0	FCD400/FCD400	1-W mechanical seal
RMF-300MP	H₂	45	96.3	5.0	20.0	FC200/FC200	1-S mechanical seal
RB-50KZP	N₂/Methanol	20	2.9	0	14.7	FC200*1/FC200*1	1-W mechanical seal
TRF-350VNP	NH₃/H₂O/O₂ etc	40	194.0	-69.3	4.0	FC200/FC200	2 stage/ 4-W mechanical seal
RE-150NBP	HCl	27	32.5	577.0	668.0	FCD400/FC200	4-W mechanical seal
RD-125KSP	CH₄/CO₂/N₂/H₂S	20	14.0	0	36.2	SCS13/SCS13	1-W mechanical seal
RG-350NBZP	N₂/O₂/Toluene etc	20	108.1	351.0	501.0	FCD400*1/FC200*1	4-W mechanical seal
RD-125KSP	CO₂/AIR	20	12.0	0	58.8	SCS13/SCS13	1-W mechanical seal
RD-80KSP	Natural gas	30	13.9	70.0	200.0	SCS13/SCS1	1-W mechanical seal
RD-150WZP	AIR	30	30.0	-19.6	0	FC200*1/FC200*1	Wet
RF-250KZP	N₂	40	77.6	2.0	73.0	FC200*1/FC200*1	1-W mechanical seal
RB-65VKSP	F₂/N₂	50	3.0	-13.3	0	SCS13/SCS13	1-W mechanical seal
RD-150KSP	AIR/VCM/EDC	25	35.8	0	29.4	SCS13/SCS13	1-W mechanical seal
RF-240NSP	Recycled gas	37	70.9	830.0	900.0	SCS13/SCS13	4-W mechanical seal
RB-50KBP	CO₂	-30	1.8	40.0	55.0	FCD400/FCD400	1-W mechanical seal
RD-100VNZP	H₂O	87	9.2	-38.8	-3.5	FC200*1/FC200*1	4-W mechanical seal
RD-130USP	NH₃	-33	18.6	2.0	49.0	SCS13/SCS13	4-W dry gas seal
RE-150NSP	C₃H₈/C₂H₆	-40	33.3	10.0	78.0	SCS13/SCS13	4-W mechanical seal
RD-125NZP	H₂O	100	11.0	0	55.0	FC200*1/FC200*1	4-W mechanical seal
RD-150NP	H₂	40	20.6	2.0	12.0	FC200/FC200	4-W mechanical seal
RF-350NBZP	Mixed gas	43	141.7	833.0	902.0	FCD400*1/FC200*1	4-W mechanical seal
RC-80NSP	O₂/Plating mist	60	5.5	98.0	130.0	SCS14/SCS14	4-W mechanical seal
RD-100UBP	N₂/Mixed gas	40	6.6	250.0	334.0	FCD400/FC200	4-W dry gas seal

Notes 1:*1 in the column 'Gas sector material' indicates kanigen plating

Notes 2: Each figure shows the maximum amount of design condition.

Notes 3: 'Intake gas' and 'Gas sector material' details change depending upon the percentage of intake gas formation.

Contact us for more details.

* Material damaged by using intake gas is not covered by our guarantee.

■ Type R/ R-Z Dual Shaft Rotary Blower Performance Table (1)

Type	Diameter	Rotational speed min ⁻¹	Theoretical air volume m ³ /min	Suction volume Qs (m ³ /min) for each discharge pressure and required power La (kW)															
				9.8kPa		19.6kPa		29.4kPa		39.2kPa		49.0kPa		58.8kPa		68.6kPa		78.4kPa	
RB- 50	50 ^A	1150	1.57	1.00	0.6	0.82	0.8	0.69	1.1	0.57	1.4	0.45	1.6	Qs	La	Qs	La	Qs	La
		1450	1.98	1.41	0.7	1.23	1.0	1.10	1.4	0.98	1.7	0.86	2.0	0.76	2.4	Qs	La	Qs	La
		1750	2.40	1.83	0.8	1.65	1.2	1.52	1.6	1.40	2.0	1.28	2.4	1.18	2.8	1.10	3.2	1.34	4.1
		2000	2.74	2.17	0.9	1.99	1.4	1.86	1.8	1.74	2.3	1.62	2.7	1.52	3.2	1.44	3.7	2.02	5.1
		2500	3.42	2.85	1.1	2.67	1.7	2.54	2.3	2.42	2.8	2.30	3.4	2.20	4.0	2.12	4.6	2.02	5.7
		3000	4.11	3.54	1.3	3.36	2.0	3.23	2.7	3.11	3.4	2.99	4.1	2.89	4.7	2.81	5.4	2.71	6.1
RB- 65	65 ^A	1150	2.29	1.49	0.8	1.19	1.2	0.98	1.6	0.79	2.0	0.64	2.4	Qs	La	Qs	La	Qs	La
		1450	2.89	2.09	1.0	1.79	1.5	1.58	2.0	1.39	2.5	1.24	2.9	1.12	3.4	1.72	4.1	1.64	4.6
		1750	3.49	2.69	1.2	2.39	1.8	2.18	2.3	1.99	2.9	1.84	3.5	1.72	4.1	2.14	5.4	2.04	6.0
		2000	3.99	3.19	1.3	2.89	2.0	2.68	2.7	2.49	3.3	2.34	4.0	2.22	4.7	2.14	5.4	2.04	6.0
		2500	4.98	4.18	1.7	3.88	2.5	3.67	3.3	3.48	4.2	3.33	5.0	3.21	5.8	3.13	6.6	3.03	7.5
		3000	5.98	5.18	2.0	4.88	3.0	4.67	4.0	4.48	5.0	4.33	6.0	4.21	7.0	4.13	8.0	4.03	9.0
RC- 80	80 ^A	1150	4.48	3.18	1.3	2.83	2.1	2.53	2.8	2.28	3.5	2.03	4.3	1.83	5.0	Qs	La	Qs	La
		1450	5.66	4.36	1.6	4.01	2.6	3.71	3.5	3.46	4.4	3.21	5.4	3.01	6.3	2.86	7.3	3.88	9.8
		1750	6.83	5.53	2.0	5.18	3.1	4.88	4.3	4.63	5.4	4.38	6.5	4.18	7.6	4.03	8.7	4.85	11.2
		2000	7.80	6.50	2.3	6.15	3.6	5.85	4.9	5.60	6.1	5.35	7.4	5.15	8.7	5.0	10.0	4.85	12.5
		2500	9.76	8.46	2.8	8.11	4.4	7.81	6.0	7.56	7.7	7.31	9.3	7.11	10.9	6.96	12.5	6.81	17.4
RC-100	100 ^A	1150	6.33	4.86	1.8	4.47	2.9	4.13	3.9	3.83	4.9	3.56	6.0	3.33	7.0	3.13	8.1	4.59	11.4
		1450	7.99	6.52	2.3	6.13	3.6	5.79	4.9	5.49	6.2	5.22	7.5	4.99	8.8	4.79	10.1	6.24	13.8
		1750	9.64	8.17	2.7	7.78	4.3	7.44	5.9	7.14	7.4	6.87	9.0	6.64	10.6	6.44	12.2	7.62	15.8
		2000	11.02	9.55	3.0	9.16	4.8	8.82	6.6	8.52	8.5	8.25	10.3	8.02	12.1	7.82	14.0	10.4	19.7
		2500	13.77	12.3	3.8	11.9	6.1	11.6	8.4	11.3	10.6	11.0	12.9	10.8	15.2	10.6	17.5	10.4	19.7
RD-100	100 ^A	970	7.74	6.19	2.5	5.67	3.6	5.24	4.8	4.89	6.2	4.59	7.4	4.34	8.7	4.04	10.0	5.27	13.4
		1150	9.17	7.62	3.0	7.10	4.3	6.67	5.8	6.32	7.3	6.02	8.9	5.77	10.3	5.47	11.9	5.27	13.4
		1450	11.57	10.0	3.5	9.50	5.3	9.07	7.2	8.72	9.1	8.42	11.0	8.17	13.0	7.87	14.9	7.67	16.8
		1750	13.96	12.4	4.0	11.9	6.3	11.4	8.6	11.1	10.9	10.8	13.2	10.5	15.6	10.2	17.9	10.0	20.2
		2000	15.96	14.4	4.5	13.9	7.1	13.4	9.8	13.1	12.5	12.8	15.2	12.5	17.8	12.2	20.5	12.0	23.2
RD-125	125 ^A	970	11.12	8.92	2.8	8.32	4.6	7.82	6.5	7.37	8.4	7.02	10.2	6.67	12.1	6.34	14.0	6.07	15.8
		1150	13.19	11.0	3.3	10.4	5.5	9.89	7.7	9.44	9.9	9.09	12.1	8.74	14.4	8.44	16.6	8.14	18.8
		1450	16.63	14.4	4.2	13.8	6.9	13.3	9.7	12.9	12.5	12.5	15.3	12.2	18.1	11.9	20.9	11.6	23.7
		1750	20.07	17.9	5.0	17.3	8.4	16.8	11.7	16.3	15.1	16.0	18.5	15.6	21.8	15.3	25.2	15.0	28.6
		2000	22.94	20.7	5.7	20.1	9.5	19.6	13.4	19.2	17.2	18.8	21.1	18.5	24.9	18.2	28.8	17.9	32.6
RD-127	125 ^A	970	13.54	11.0	3.4	10.2	5.7	9.54	7.9	8.94	10.2	8.44	12.5	8.0	14.7	7.64	17.0	8.0	17.0
		1150	16.06	13.5	4.0	12.7	6.7	12.0	9.3	11.4	12.0	11.0	14.7	10.5	17.4	10.1	20.1	9.80	22.8
		1450	20.24	17.7	5.0	16.9	8.4	16.2	11.7	15.6	15.2	15.1	18.6	14.7	22.0	14.3	25.5	14.0	28.9
		1750	24.43	21.9	5.9	21.8	10.0	20.4	14.1	19.8	18.1	19.3	22.3	18.9	26.4	18.5	30.5	18.2	34.6
		2000	27.93	25.4	6.8	24.6	11.5	23.9	16.1	23.3	20.7	22.8	25.4	22.4	30.1	22.0	34.8	21.7	39.5
RD-130	125 ^A	970	16.93	13.8	4.3	12.9	7.2	12.2	10.0	11.5	12.8	11.0	15.7	10.5	18.5	10.0	21.4	9.7	24.9
		1150	20.07	17.0	5.0	16.0	8.4	15.3	11.8	14.7	15.0	14.1	18.5	13.6	21.9	13.1	25.3	12.8	28.6
		1450	25.30	22.2	6.2	21.3	10.5	20.6	14.4	19.9	19.0	19.4	23.2	18.9	27.5	18.4	31.7	18.0	36.0
		1750	30.54	27.4	7.5	26.5	12.6	25.8	17.7	25.1	22.8	24.6	28.0	24.1	33.1	23.6	38.2	23.3	43.3
		2000	34.90	31.8	8.5	30.9	14.3	30.2	20.2	29.5	26.0	28.9	31.9	28.5	37.7	28.0	43.6	21.7	44.2
RD-150	150 ^A	970	20.80	17.2	5.2	16.1	8.7	15.2	12.2	14.5	15.7	13.8	19.2	13.2	22.7	12.7	26.2	12.0	30.9
		1150	24.66	21.1	6.0	20.0	10.2	19.1	14.4	18.4	18.5	17.7	22.7	17.0	26.8	16.5	31.0	12.8	36.0
		1450	31.09	27.5	7.5	26.4	12.7	25.5	18.0	24.8	23.2	24.1	28.5	23.5	33.7	23.0	39.0	13.7	42.1
		1750	37.53	33.9	9.0	32.8	15.3	31.9	21.6	31.2	28.0	30.5	34.3	29.9	40.6	29.4	47.0	14.0	51.7
		2000	42.89	39.3	10.2	38.2	17.5	37.3	24.7	36.6	31.9	35.9	39.1	35.3	46.4	34.6	47.0	14.0	51.7
RME-150	150 ^A	1170	33.1	29.2	8.04	28.3	13.6	27.5	19.0	26.8	24.6	26.1	30.0	25.5	35.6	25.0	41.0	24.6	46.6
		1250	35.3	31.4	8.59	30.4	14.5	29.7	20.3	29.0	26.3	28.3	32.1	27.7	38.0	27.2	43.8	26.8	49.8
		1350	38.2	34.3	9.28	33.4	15.7	32.6	22.0	31.9	28.4	31.2	34.6	30.6	41.0	30.1	47.3	29.7	53.7
		1500	42.3	38.4	10.31	37.5	17.4	36.7	24.4	36.0	31.5	35.3	38.5	34.7	45.6	34.2	52.6	33.8	59.7
		1170	50.1	45.1	11.5	44.0	20.0	42.7	28.5	41.6	36.8	40.6	45.2	39.6	53.7	38.8	62.1	34.6	76.6
RME-200	200 ^A	1170	52.50	48.5	12.3	47.4	21.3	46.1	30.4	45.0	39.3	44.0	48.3	43.0	57.3	42.2	66.3	40.0	76.6
		1350	57.8	52.8	13.2	51.7	23.0	50.4	32.8	49.3	42.5	48.3	52.1	47.3	61.9	46.5	71.6	40.0	86.4
		1500	64.2	59.2	14.7	58.1	25.6	56.8	36.5	55.7	47.2	54.7</td							

ROTARY BLOWER

R Series

■ Type R/ R-Z Dual Shaft Rotary Blower Performance Table (2)

Type	Diameter	Rotational speed min ⁻¹	Theoretical air volume m ³ /min	Suction volume Qs (m ³ /min) for each discharge pressure and required power La (kW)																	
				9.8kPa		19.6kPa		29.4kPa		39.2kPa		49.0kPa		58.8kPa		68.6kPa		78.4kPa		88.2kPa	
RE- 250	250 ^A	750	53.4	46.8	12	44.8	21	43.0	30	41.5	39	40.2	48	39.0	57						
		970	69.1	62.5	15	60.5	27	58.7	38	57.2	50	55.9	62	54.7	73						
		1170	83.3	76.7	18	74.7	32	72.9	46	71.4	60	70.1	74	68.9	88						
		1250	89.0	82.4	20	80.4	35	78.6	50	77.1	64	75.8	79	74.6	94						
RMF-250	250 ^A	1350	96.2	89.6	21	87.6	37	85.8	53	84.3	69	83.0	86	81.8	102						
		750	63.2	56.0	14.3	53.9	24.9	52.2	35.5	50.7	46.2	49.3	56.8	48.1	68.0	47.0	78.0	46.1	88.7	45.2	
		880	74.1	66.9	16.8	64.8	29.3	63.1	41.7	61.6	54.2	60.2	66.6	59.0	79.8	57.9	104	56.1	116	55.3	
		970	81.7	74.5	18.5	72.4	32.3	70.7	45.9	69.2	59.7	67.8	73.5	66.6	88.0	65.5	101	64.6	115	63.7	
RMF-300	300 ^A	1170	98.6	91.4	22.3	89.3	38.9	87.6	55.4	86.1	72.0	84.7	88.6	83.5	106	82.4	122	81.5	138	80.6	
		750	95.4	85.0	21.0	82.2	37.1	79.8	53.0	77.9	69.0	76.2	85.0	74.6	101						
		880	111.9	102	24.7	98.7	43.5	96.3	62.2	94.4	80.9	92.7	99.7	91.1	119						
		970	123.4	113	27.2	110	47.9	108	68.6	106	89.2	104	110	103	131						
RF- 240	250 ^A	1170	148.8	138	32.8	136	57.8	133	82.7	131	108	130	128	133	105						
		650	56.0	49.6	13	47.4	22	45.8	32	44.4	41	43.1	51	41.9	60	40.9	70	39.9	79	38.9	
		730	62.9	56.5	14	54.3	25	52.7	36	51.3	46	50.0	57	48.8	68	47.8	78	46.8	89	45.8	
		800	68.9	62.5	16	60.3	27	58.7	39	57.3	51	56.0	62	54.8	74	53.8	86	52.8	98	51.8	
RF- 245	250 ^A	880	75.8	69.4	17	67.2	30	65.6	43	64.2	56	62.9	69	61.7	82	60.7	94	59.7	107	58.7	
		980	84.4	78.0	19	75.8	33	74.2	48	72.8	62	71.5	76	70.3	91	69.3	105	68.3	120	66.5	
		650	70.0	61.9	16	59.3	28	57.3	39	55.5	51	54.0	63	52.5	75	51.1	86	49.8	98	48.5	
		730	78.6	70.5	17	67.9	31	65.9	44	64.1	57	62.6	70	61.1	84	59.7	97	58.4	110	57.1	
RF- 250	250 ^A	800	86.1	78.0	19	75.4	34	73.4	48	71.6	63	70.1	77	68.6	92	67.2	106	65.9	121	63.6	
		880	94.7	86.6	21	84.0	37	82.0	53	80.2	69	78.7	85	77.2	101	75.8	117	74.5	133	72.2	
		980	105.5	97.4	23	94.8	41	92.8	59	91.0	77	89.5	95	88.0	112	86.6	130	85.3	148	84.0	
		650	87.1	76.2	19	73.5	34	71.3	48	69.4	63	67.6	78	66.0	92	64.4	107	63.0	121	61.6	
RF- 290	300 ^A	730	97.8	86.9	21	84.2	38	82.0	54	80.1	70	78.3	87	76.7	103	75.1	120	73.7	136	72.3	
		800	107.2	96.3	23	93.6	41	91.4	59	89.5	77	87.7	95	86.1	113	84.5	131	83.1	149	81.7	
		880	117.9	107.2	26	104.5	45	102.1	65	100.2	85	98.4	105	96.8	125	95.2	144	93.8	164	92.4	
		980	131.3	120.4	29	117.7	51	115.5	72	113.6	95	111.8	117	110.2	139	108.6	161	107.2	183	105.8	
RF- 290	300 ^A	650	102.6	92.3	22	88.4	39	85.4	57	83.0	74	80.8	91	78.9	108	77.2	125	75.8	142	※ 93.1kPa for 730min-1	
		730	115.3	105.0	25	101.1	45	98.1	64	95.7	83	93.5	103	91.6	122	89.9	141	88.5	160		
		800	126.3	116.0	27	112.1	48	109.1	70	106.7	91	104.5	112	102.6	134	100.9	155	99.5	176		
		880	139.0	128.7	30	124.8	53	121.8	76	119.4	100	117.2	123	115.3	146	113.6	169	112.2	192		
RF- 295	300 ^A	980	154.8	144.5	33	140.6	59	137.6	85	135.2	110	133.0	136	131.1	161	129.4	187	128.0	213		
		650	108.9	97.3	23	93.5	42	90.6	60	88.0	78	85.9	96	84.0	114	82.4	132	81.0	151		
		730	122.3	110.8	26	107.0	47	104.1	67	101.5	88	99.4	108	97.5	128	95.8	149	94.4	169		
		800	134.0	122.4	29	118.6	51	115.7	74	113.1	96	111.0	118	109.1	141	107.5	163	106.1	185		
RF- 300	300 ^A	880	147.4	135.8	32	132.0	56	129.1	81	126.5	105	124.4	130	122.5	155	120.9	179	119.5	204		
		980	164.1	152.5	35	148.7	63	145.8	90	143.2	117	141.1	145	139.2	172	137.6	200	136.2	227		
		650	133.7	120.7	29	116.6	51	113.4	73	110.5	96	107.9	118	105.5	140	103.4	162	101.5	185		
		730	150.2	137.2	32	133.1	57	129.9	82	127.0	107	124.4	132	122.0	157	119.9	182	118.0	207		
RF- 350	350 ^A	800	164.6	151.6	35	147.5	63	144.3	90	141.4	118	138.8	145	136.4	172	134.3	200	132.4	227		
		880	181.1	168.1	39	164.0	69	160.8	99	157.9	129	155.3	159	152.9	190	150.8	220	148.9	250		
		980	201.7	188.7	43	184.6	76	181.4	110	178.5	144	175.9	217	173.5	211	171.4	245	169.5	278		
		650	158.6	144.3	34	139.3	60	135.3	86	131.8	112	128.7	139	126.0	165						
RG- 400	400 ^A	730	178.2	163.9	38	158.9	67	154.9	97	151.4	126	148.3	156	145.6	185						
		800	195.2	180.9	41	175.9	74	171.9	106	168.4	138	165.3	171	162.6	203						
		880	214.8	200.5	45	195.5	81	191.5	116	188.0	152	184.9	188	182.2	223						
		980	239.2	224.9	50	219.9	90	215.9	130	212.4	169	209.3	206	206.6	249						
RG- 450	450 ^A	590	248.1	232.1	52	226.1	94	221.3	135	217.1	177	213.4	218	209.9	260	207.1	301	204.6	343	203.1	364
		630	264.9	248.9	56	242.9	100	238.1	144	233.9	189	230.2	233	226.7	277	223.9	322	221.4	366	219.8	388
		670	281.7	265.7	59	259.7	106	254.9	153	250.7	201	247.0	248	243.5	295	240.7	342	238.2	389	236.7	413
		710	298.5	282.5	63	276.5	113	271.7	163	267.5	213	263.8	262	260.3	312	257.5	362	255.0	412	253.5	437
RG- 450	450 ^A	750	315.3	299.3	66	293.3	119	288.5	172	284.3	225	280.6	277	271.1	330	274.3	383				

■ Type TR/ TR-Z 2 Stage Dual Shaft Rotary Blower Performance Table

Type	Diameter Discharge Intake	Rotational speed min ⁻¹	Theoretical air volume m ³ /min	Suction volume Qs (m ³ /min) for each discharge pressure and required power La (kW)																				
				98.0kPa		107.8kPa		117.6kPa		127.4kPa		137.2kPa		147.0kPa		156.8kPa		166.6kPa		176.4kPa		196.0kPa		
Qs	L	Qs	L	Qs	L	Qs	L	Qs	L	Qs	L	Qs	L	Qs	L	Qs	L	Qs	L	Qs	L	Qs	L	
TRB- 65 (50) (65)	1150	2.29	0.66	3.85	0.63	4.20	0.61	4.45																
	1450	2.89	1.26	4.85	1.23	5.27	1.21	5.61	1.19	6.00	1.16	6.34	1.11	6.72	1.09	7.11								
	1750	3.49	1.86	5.85	1.83	6.46	1.81	6.77	1.79	7.24	1.76	7.65	1.71	8.11	1.69	8.58	1.68	9.05	1.67	9.45				
	2000	3.99	2.36	6.70	2.33	7.27	2.31	7.74	2.29	8.27	2.26	8.75	2.21	9.27	2.19	9.80	2.18	10.4	2.17	10.8	2.16	11.8		
	2500	4.98	3.35	8.40	3.32	9.10	3.30	9.67	3.28	10.4	3.25	10.9	3.20	11.6	3.18	12.3	3.17	12.9	3.16	13.5	3.15	14.7		
TRC-100 (80) (100)	1150	6.33	3.58	10.5	3.53	11.2	3.53	12.0	3.48	12.8														
	1450	7.99	5.24	13.2	5.19	14.2	5.19	15.1	5.14	16.2	5.09	19.2	5.04	18.2										
	1750	9.64	6.89	16.0	6.84	17.1	6.84	18.3	6.79	19.53	6.74	20.7	6.69	22.0	6.69	23.0	6.64	24.3			7.95	29.2	7.9	31.9
	2000	11.0	8.25	18.3	8.20	19.5	8.20	20.9	8.15	22.3	8.10	23.7	8.05	25.1	8.05	26.3	8.0	27.8						
	2500	13.7	10.95	22.8	10.9	24.4	10.9	26.1	10.85	27.9	10.8	29.6	10.75	31.4	10.75	32.9	10.7	34.7	10.65	36.5	10.6	39.8		
TRD-125 (100) (125)	970	11.1	6.95	17.9	6.9	19.3	6.85	20.7	6.80	22.1	6.75	23.5	6.70	24.8	6.65	26.2								
	1150	13.2	9.05	21.3	9.0	22.9	8.95	24.5	8.90	26.2	8.85	27.8	8.80	29.4	8.75	31.1	8.70	32.6						
	1450	16.6	12.5	26.8	12.4	28.9	12.4	30.9	12.3	33.0	12.3	35.1	12.2	37.0	12.2	39.2	12.1	41.1	12.1	43.2				
	1750	20.0	15.9	32.4	15.8	34.9	15.8	37.3	15.7	39.8	15.7	42.4	15.6	44.7	15.6	47.3	15.5	49.6	15.5	52.2	15.4	56.8		
	2000	22.9	18.75	37.0	18.7	39.8	18.65	42.6	18.6	45.5	18.55	48.4	18.5	51.1	18.45	54.0	18.4	56.7	18.35	59.6	18.3	64.9		
TRD-130 (125) (130)	970	16.9	10.9	26.8	10.6	28.8	10.5	30.7	10.4	32.8	10.4	34.8	10.3	36.8	10.3	38.7	10.2	40.6						
	1150	20.2	14.2	31.7	13.9	34.1	13.8	36.5	13.7	39.0	13.7	41.2	13.6	43.6	13.6	43.9	13.5	48.2	13.5	50.6				
	1450	25.3	19.3	40.0	19.0	43.0	18.9	46.0	18.8	49.1	18.8	52.0	18.7	55.0	18.7	57.9	18.6	60.8	18.6	63.8	18.5	69.6		
	1750	30.5	24.5	48.3	24.2	51.9	24.1	55.5	24.0	59.2	24.0	62.7	23.9	66.3	23.9	70.0	23.8	73.3	23.8	77.0	23.7	84.0		
	2000	34.9	28.6	55.2	28.6	59.3	28.5	63.4	28.4	67.7	28.35	71.7	28.3	75.8	28.25	79.8	28.2	83.8	28.15	88.0	28.1	96.0		
TRD-150 (127) (150)	970	20.8	13.3	32.8	13.2	35.3	13.1	37.7	13.0	40.2	13.0	42.6	12.9	45										
	1150	24.6	17.1	38.9	17.0	41.8	16.9	44.7	16.8	47.7	16.8	50.5	16.7	53.3										
	1450	31.1	23.6	49.0	23.5	52.7	23.4	56.3	23.3	60.1	23.3	63.7	23.2	67.3										
	1750	37.5	30.0	59.2	29.9	63.6	29.8	68.0	29.7	72.5	29.7	77.0	29.6	81.2										
	2000	42.9	35.4	67.6	35.3	72.7	35.2	77.7	35.1	82.9	35.1	87.9	35.0	92.8										
TRE-150 (140) (150)	750	27.5	18.7	43.3	18.6	46.7	18.5	49.8	18.4	53.1	18.3	56.1	18.2	59.4	18.1	62.8	18.0	65.6	18.0	68.9				
	970	35.5	26.7	56.0	26.6	60.4	26.5	64.5	26.4	68.6	26.3	72.6	26.2	76.9	26.1	81.2	26.0	84.8	26.0	89.1	25.9	97		
	1170	42.8	34.0	67.5	33.9	72.8	33.8	77.7	33.7	82.8	33.6	87.5	33.5	92.7	33.4	97.8	33.3	102	33.3	107	33.2	117		
	1250	45.8	37.0	72.1	36.9	77.8	36.8	83.1	36.7	88.4	36.6	93.5	36.5	99.1	36.4	105	36.3	109	36.3	115	36.2	125		
	1350	49.4	40.6	77.9	40.5	84.0	40.4	89.7	40.3	95.5	40.2	101	40.1	107	40.0	113	39.9	118	39.9	124	39.8	135		
TRE-190 (145) (190)	750	34.3	23.3	54.2	23.2	57.8	23.0	62.2	22.9	66.1	22.8	70.0	22.7	73.9	22.6	77.2	22.5	81.1	22.4	85.0	22.2	92.8		
	970	44.4	33.4	70.1	33.3	74.7	33.1	80.5	33.0	85.5	32.9	90.5	32.8	95.6	32.7	99.9	32.6	105	32.5	110	32.3	120		
	1170	53.6	42.6	84.5	42.5	90.1	42.3	97.1	42.2	103	42.1	109	42.0	115	41.9	120	41.8	127	41.7	133	41.5	145		
	1250	57.2	46.2	90.3	46.1	96.3	45.9	104	45.8	110	45.7	117	45.6	123	45.5	129	45.4	135	45.3	142	45.1	155		
	1350	61.8	50.8	97.5	50.7	104	50.5	112	50.4	119	50.3	126	50.2	133	50.1	139	50.0	146	49.9	153	49.7	167		
TRE-200 (150) (200)	750	42.0	30.5	65.6	30.2	71	30.1	75.6	30.0	80.6	30.0	85.0	29.9	90.0	29.8	95.0	29.7	99.4	29.5	105				
	1070	54.3	42.8	84.8	42.5	91	42.4	97.7	42.3	104	42.3	110	42.2	116	42.1	123	42.0	129	41.8	136				
	1170	65.5	54.0	102	53.7	110	53.6	118	53.5	126	53.5	133	53.4	140	53.3	148	53.2	155	53.0	164				
	1250	70.0	58.5	109	58.2	118	58.1	126	58.0	134	58.0	142	57.9	150	57.8	158	57.7	166	57.5	175				
	1350	75.5	64	118	63.7	127	63.6	136	63.5	145	63.5	153	63.4	162	63.3	171	63.2	179	63.0	189				
TRE-250 (190) (250)	750	53.4	39.0	83.9	38.9	84.4	38.7	95.6	38.4	102	38.3	108												
	1170	69.1	54.7	108	54.6	116	54.4	124	54.1	131	54.0	139												
	1250	83.3	68.9	131	68.8	140	68.6	149	68.3	159	68.2	168												
	1350	90.9	74.6	140	74.5	149	74.3	159	74.0	169	73.9	180												
	1350	96.2	81.8	151	81.7	161	81.5	172	81.2	183	81.1	194												
TRF-250 (240) (250)	650	87.1	67.8	135	67.8	145	66.8	155	66.8	165	66.8	175	67.5	185	65.8	185	65.8	196	65.8	206	64.8	216	64.8	235
	730	97.8	75.5	151	75.8	162	77.5	174	77.5	185	77.5	197	76.5	208	76.5	220	76.5	231	75.5	243	75.5	264		

ROTARY BLOWER

R Series

■ Type TR-W/ TR-WZ 2 Stage Wet Type Dual Shaft Rotary Vacuum Blower Performance Table

Type	Diameter Discharge Intake	Rotational speed min ⁻¹	Theoretical air volume m ³ /min	Suction volume Qs (m ³ /min) for each vacuum pressure and required power La (kW)										Sealed water capacity l/min	
				-53.3kPa		-60.0kPa		-66.7kPa		-73.3kPa		-80.0kPa			
				Qs	La	Qs	La	Qs	La	Qs	La	Qs	La		
TRB- 65W (50) (65)	50 ^A	1150	2.29	1.45	2.90	1.43	3.04	1.41	3.18	1.35	3.32	1.21	3.50	5	
		1450	2.89	2.05	3.65	2.03	3.83	2.01	4.01	1.95	4.19	1.81	4.42	5	
		1750	3.49	2.65	4.40	2.63	4.62	2.61	4.84	2.55	5.06	2.41	5.33	6	
		2000	3.99	3.15	5.03	3.13	5.28	3.11	5.53	3.05	5.78	2.91	6.09	6	
		2500	4.98	4.14	6.29	4.12	6.60	4.10	6.92	4.04	7.23	3.90	7.62	8	
		3000	5.98	5.14	7.55	5.12	7.92	5.10	8.30	5.04	8.67	4.90	9.14	8	
TRC-100W (80) (100)	80 ^A	1150	6.33	4.63	7.36	4.63	7.82	4.53	8.33	4.33	8.74	3.93	9.25	8	
		1450	7.99	6.29	9.28	6.29	9.86	6.19	10.5	5.99	11.0	5.59	11.7	9	
		1750	9.64	7.94	11.2	7.94	11.9	7.84	12.8	7.64	13.3	7.24	14.1	9	
		2000	11.0	9.30	12.8	9.30	13.6	9.20	14.5	9.00	15.2	8.60	16.1	9	
		2500	13.7	12.0	16.0	12.0	17.0	11.9	18.1	11.7	19.0	11.3	20.1	9	
TRD-125W (100) (125)	100 ^A	970	11.1	9.30	11.3	9.30	12.0	9.20	12.8	9.00	13.6	8.50	14.4	10	
		1150	13.2	11.5	13.4	11.4	14.3	11.3	15.2	11.1	16.1	10.6	17.0	10	
		1450	16.6	14.9	16.9	14.8	18.0	14.7	19.1	14.5	20.3	14.0	21.5	12	
		1750	20.0	18.3	20.4	18.2	21.7	18.1	23.1	17.9	24.5	17.4	25.9	12	
		2000	22.9	21.2	23.3	21.1	24.8	21.0	26.4	20.8	28.0	20.3	29.6	12	
TRD-130W (125) (130)	125 ^A	970	16.9	14.5	16.3	14.4	17.5	14.3	18.5	14.2	19.4	13.5	20.6	12	
		1150	20.2	17.8	19.4	17.7	20.7	17.6	22.0	17.5	23.0	16.8	24.4	12	
		1450	25.3	22.9	24.4	22.8	26.1	22.7	27.6	22.6	29.0	21.9	30.8	13	
		1750	30.5	28.1	29.5	28.0	31.5	27.9	33.3	27.8	35.0	27.1	37.2	13	
		2000	34.9	32.5	33.7	32.4	36.0	32.3	38.1	32.2	39.9	31.5	42.5	15	
TRD-150W (127) (150)	150 ^A	970	20.8	17.8	19.6	17.6	20.9	17.4	22.1	17.3	23.3	16.4	24.7	15	
		1150	24.6	21.6	23.2	21.4	24.8	21.2	26.2	21.1	27.7	20.2	29.3	15	
		1450	31.1	28.1	29.3	27.9	31.3	27.7	33.0	27.6	34.9	26.7	37.0	18	
		1750	37.5	34.5	35.4	34.3	37.7	34.1	40.0	34.0	42.1	33.1	44.5	18	
		2000	42.9	39.9	40.4	39.7	43.1	39.5	45.5	39.4	48.1	38.5	50.9	18	
TRE-150W (140) (150)	150 ^A	750	27.5	23.5	26.9	23.3	28.4	23.1	30.0	22.7	32.0	21.8	33.1	18	
		970	35.5	31.5	34.8	31.3	36.8	31.1	38.8	30.7	40.8	29.8	42.8	18	
		1170	42.8	38.8	42.0	38.6	44.4	38.4	46.8	38.0	49.2	37.1	51.6	18	
		1250	45.8	41.8	44.8	41.6	47.4	41.4	50.0	41.0	52.6	40.1	55.1	20	
		1350	49.4	45.4	48.4	45.2	51.2	45.0	54.0	44.6	56.8	43.7	59.5	20	
TRE-190W (145) (190)	200 ^A	750	34.3	29.3	32.0	29.0	33.8	28.8	36.0	28.2	37.5	27.0	40.0	20	
		970	44.4	39.4	41.4	39.1	43.8	38.9	46.3	38.3	48.5	37.1	51.3	20	
		1170	53.6	48.6	50.0	48.3	52.8	48.1	55.8	47.5	58.5	46.3	62.0	20	
		1250	57.2	52.2	53.3	51.9	56.4	51.7	59.6	51.1	62.5	49.9	66.1	20	
		1350	61.8	56.8	57.6	56.5	60.9	56.3	64.4	55.7	67.5	54.5	71.4	20	
TRE-200W (150) (200)	200 ^A	750	42.0	36.7	38.9	36.4	41.1	36.1	43.6	35.7	46.1	34.3	48.3	20	
		970	54.3	49.0	50.3	48.7	53.2	48.4	56.4	48.0	60.0	46.6	63.0	20	
		1170	65.5	60.2	61.0	59.9	64.1	59.6	68.0	59.2	72.0	57.8	75.4	20	
		1250	70.0	64.7	64.9	64.4	68.5	64.1	72.7	63.7	76.9	62.3	80.6	20	
		1350	75.5	70.2	70.0	69.9	74.0	69.6	78.5	69.2	83.0	67.8	87.0	20	
TRE-250W (190) (250)	250 ^A	750	53.4	46.7	47.2	46.4	49.7	46.2	52.5	45.2	56.1	43.2	59.4	30	
		970	69.1	62.4	61.1	62.1	64.3	61.9	67.9	60.9	72.6	58.9	76.9	30	
		1170	83.3	76.6	73.7	76.3	77.6	76.1	81.9	75.1	87.5	73.1	92.7	30	
		1250	89.0	82.3	78.7	82.0	82.9	81.8	87.5	80.8	93.5	78.8	99.1	30	
		1350	96.2	89.5	85.5	89.2	91	89.0	97	88.0	102.5	86.0	108	30	
TRF-250W (240) (250)	250 ^A	650	87.1	77.0	75.6	76.0	80.3	75.0	86.2	74.0	91.0	72.0	96.2	30	
		730	97.8	87.7	85.0	86.7	90.1	85.7	97.0	84.7	102	82.7	108	30	
		800	107.2	97.1	93.1	96.1	98.8	95.1	106	94.1	112	92.1	118	35	
		880	117.9	108	102	107	109	106	117	105	123	103	130	35	
		980	131.3	121	114	120	121	119	130	118	137	116	145	40	
TRF-295W (245) (295)	300 ^A	650	108.9	98.8	99.5	97.8	105.5	97.8	108	96.8	117.5	93.8	123.5	35	
		730	122.3	112	111.5	111	118.5	111	121.5	110	131.5	107	138.5	35	
		800	134.0	124	122.5	123	129.5	123	133	122	144.5	119	151.5	40	
		880	147.4	137	134.5	136	142.5	136	146.5	135	160	132	167	40	
		980	164.1	154	150	153	159	153	168	152	177	149	186	40	
TRF-300W (250) (300)	300 ^A	650	133.7	121	115	120	122	120	130	119	139	116	146	35	
		730	150.2	138	129	137	137	146	136	156	133	164	40		
		800	164.6	152	141	151	150	151	160	150	171	147	180		
		880	181.1	168	155	167	165	167	176	166	188	163	198		
		980	201.7	189	173	188	184	188	196	187	209	184	220		
TRF-350W (290) (350)	350 ^A	650	158.6	141	134	141	143	140	153	139	163	136	172	43	
		730	178.2	161	150.5	161	161	160	171	159	183	156	193	43	
		800	195.2	178	165	178	176	177	188	176	200	173	212	43	
		880	214.8	198	181.5	198	194	197	207	196	220	193	233	43	
		980	239.2	222	202	222	216	221	230	220	245	217	259	43	

(1) Wet vacuum pump required to fill water. If there is too much water, the blower will get over powered. If there is too little water, the blower can not reach regular capacity. The water level needs to be carefully maintained and filled as needed.

■ Type R-V/ R-VZ Dry Type Dual Shaft Rotary Vacuum Blower Performance Table (1)

Type	Diameter	Rotational speed min ⁻¹	Theoretical air volume m ³ /min	Suction volume Qs (m ³ /min) for each vacuum pressure and required power La (kW)																	
				-9.8kPa		-14.7kPa		-19.6kPa		-24.5kPa		-29.4kPa		-34.3kPa		-39.2kPa		-44.1kPa			
				Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La		
RB- 50V	50 ^A	1150	1.57	1.00	0.6	0.82	0.7	0.76	0.8	0.63	0.95	0.51	1.1								
		1450	1.98	1.41	0.7	1.23	0.85	1.17	1.0	1.04	1.2	0.92	1.4	0.81	1.55						
		1750	2.40	1.83	0.8	1.65	1.0	1.59	1.2	1.46	1.4	1.34	1.6	1.23	1.8	1.14	2.0				
		2000	2.74	2.17	0.9	1.99	1.15	1.93	1.4	1.80	1.6	1.68	1.8	1.57	2.05	1.48	2.3	1.34	2.5		
		2500	3.42	2.85	1.1	2.67	1.4	2.61	1.7	2.48	2.0	2.36	2.3	2.25	2.55	2.16	2.8	2.02	3.1		
		3000	4.11	3.54	1.3	3.36	1.65	3.30	2.0	3.17	2.35	3.05	2.7	2.94	3.05	2.85	3.4	2.71	3.75	2.62	4.1
RB- 65V	65 ^A	1150	2.29	1.49	0.8	1.19	1.0	1.08	1.2	0.89	1.4	0.72	1.6								
		1450	2.89	2.09	1.0	1.79	1.25	1.68	1.5	1.49	1.75	1.32	2.0	1.18	2.25						
		1750	3.49	2.69	1.2	2.39	1.5	2.28	1.8	2.09	2.05	1.92	2.3	1.78	2.6	1.68	2.9				
		2000	3.99	3.19	1.3	2.89	1.65	2.78	2.0	2.59	2.35	2.42	2.7	2.28	3.0	2.18	3.3	2.02	3.65		
		2500	4.98	4.18	1.7	3.88	2.1	3.77	2.5	3.58	2.9	3.41	3.3	3.27	3.75	3.17	4.2	3.03	4.6		
		3000	5.98	5.18	2.0	4.88	2.5	4.77	3.0	4.58	3.5	4.41	4.0	4.27	4.5	4.17	5.0	4.03	5.5		
RC- 80V	80 ^A	1150	4.48	3.18	1.3	2.83	1.7	2.68	2.1	2.41	2.45	2.16	2.8	1.93	3.15						
		1450	5.66	4.36	1.6	4.01	2.1	3.86	2.6	3.59	3.05	3.34	3.5	3.11	3.95	2.94	4.4				
		1750	6.83	5.53	2.0	5.18	2.55	5.03	3.1	4.76	3.7	4.45	4.3	4.22	4.85	4.05	5.4	3.88	5.95		
		2000	7.80	6.50	2.3	6.15	2.95	6.00	3.6	5.73	4.25	5.48	4.9	5.25	5.5	5.08	6.1	4.85	6.75		
		2500	9.76	8.46	2.8	8.11	3.6	7.96	4.4	7.69	5.2	7.44	6.0	7.21	8.5	7.04	7.7	6.81	8.5	6.62	9.3
		3000	13.7	12.3	3.8	11.9	4.95	11.7	6.1	11.4	7.25	11.1	8.4	10.9	9.5	10.7	10.6	10.4	11.75	9.88	12.9
RC-100V	100 ^A	970	6.33	4.86	1.8	4.47	2.35	4.30	2.9	3.98	3.4	3.70	3.9	3.45	4.4	3.23	4.9				
		1450	7.99	6.52	2.3	6.13	2.95	5.96	3.6	5.64	4.25	5.36	4.9	5.11	5.55	4.89	6.2	4.59	6.85		
		1750	9.64	8.17	2.7	7.78	3.5	7.61	4.3	7.29	5.1	7.01	5.9	6.76	6.75	6.54	7.4	6.24	8.2	5.75	9.0
		2000	11.0	9.55	3.0	9.16	3.9	8.99	4.8	8.67	5.7	8.39	6.6	8.14	7.55	7.92	8.5	7.62	9.4	7.13	10.3
		2500	15.7	14.4	4.5	13.9	5.8	13.7	7.1	13.3	8.45	13.0	9.8	12.7	10.9	12.4	12.5	12.0	13.9	11.7	15.2
		3000	22.9	20.7	5.7	20.1	7.6	19.8	9.5	19.3	11.5	18.9	13.4	18.6	15.3	18.3	17.2	17.9	19.2	17.4	21.1
RD-100V	100 ^A	970	7.74	6.19	2.5	5.67	3.05	5.45	3.6	5.07	4.2	4.74	4.8	4.47	5.5	4.19	6.2				
		1150	9.17	7.62	3.0	7.10	3.65	6.88	4.3	6.50	5.05	6.17	5.8	5.90	6.55	5.62	7.3	5.27	8.1		
		1450	11.5	10.0	3.5	9.50	4.4	9.28	5.3	8.90	6.25	8.57	7.2	8.30	8.15	8.02	9.1	7.67	10.1		
		1750	13.9	12.4	4.0	11.9	5.15	11.7	6.3	11.3	7.45	11.0	8.6	10.7	9.3	10.4	10.9	10.0	12.1	9.7	13.2
		2000	15.9	14.4	4.5	13.9	5.8	13.7	7.1	13.3	8.45	13.0	9.8	12.7	10.9	12.4	12.5	12.0	13.9	11.7	15.2
		3000	22.9	20.7	5.7	20.1	7.6	19.8	9.5	19.3	11.5	18.9	13.4	18.6	15.3	18.3	17.2	17.9	19.2	17.4	21.1
RD-125V	125 ^A	970	11.1	8.92	2.8	8.32	3.7	8.07	4.6	7.60	5.5	7.20	6.5	6.85	7.45	6.52	8.4	6.07	9.3		
		1150	13.2	11.0	3.3	10.4	4.4	10.1	5.5	9.63	6.6	9.23	7.7	8.88	8.8	8.55	9.9	8.14	11.0		
		1450	16.6	14.4	4.2	13.8	5.55	13.5	6.9	13.0	8.3	12.6	9.7	12.3	11.1	12.0	12.5	11.6	13.9	11.1	15.3
		1750	20.0	17.9	5.0	17.3	6.7	17.0	8.4	16.5	10.1	16.1	11.7	15.8	13.4	15.5	15.1	15.0	16.8	14.5	18.5
		2000	22.9	20.7	5.7	20.1	7.6	19.8	9.5	19.3	11.5	18.9	13.4	18.6	15.3	18.3	17.2	17.9	19.2	17.4	21.1
		3000	22.9	20.7	5.7	20.1	7.6	19.8	9.5	19.3	11.5	18.9	13.4	18.6	15.3	18.3	17.2	17.9	19.2	17.4	21.1
RD-127V	125 ^A	970	13.5	11.0	3.4	10.2	4.55	9.87	5.7	9.24	6.8	8.69	7.9	8.22	9.05	7.82	10.2				
		1150	16.0	13.5	4.0	12.7	5.35	12.3	6.7	11.7	8.0	11.2	9.3	10.7	10.7	10.3	12.0	9.8	13.4		
		1450	20.2	17.7	5.0	16.9	6.7	16.5	8.4	15.9	10.1	15.4	11.7	14.9	13.5	14.5	15.2	14.0	16.9	13.3	18.6
		1750	24.4	21.9	5.9	21.8	7.95	21.4	10.0	20.8	12.1	20.3	14.1	19.8	16.1	19.4	18.1	18.2	20.2	17.5	22.3
		2000	27.9	25.4	6.8	24.6	9.15	24.2	11.5	23.6	13.8	23.1	16.1	22.6	18.4	22.2	20.7	21.7	23.1	21.0	25.4
		3000	22.9	20.7	5.7	20.1	7.6	19.8	9.5	19.3	11.5	18.9	13.4	18.6	15.3	18.3	17.2	17.9	19.2	17.4	21.1
RD-130V	125 ^A	970	16.9	13.8	4.3	12.9	5.75	12.5	7.2	11.9	8.6	11.3	10.0	10.8	11.4	10.2	12.8				
		1150	20.0	17.0	5.0	16.0	6.7	15.6	8.4	15.0	10.1	14.4	11.8	13.9	13.4	13.3	15.0	12.8	16.8		
		1450	25.3	22.2	6.2	21.3	8.35	20.9	10.5	20.3	12.6	19.7	14.7	19.2	16.9	18.6	19.0	18.0	21.1	17.1	23.2
		1750	30.5	27.4	7.5	26.5	10.1	26.1	12.6	25.5	15.2	24.9	17.7	24.4	20.3	23.8	22.8	23.3	24.4	22.3	28.0
		2000	34.9	31.8	8.5	30.9	11.4	30.5	14.3	29.9	17.3	29.3	20.2	28.8	23.1	28.2	26.0	27.6	29	26.7	31.9
		3000	22.9	20.7	5.7	20.1	7.6	19.8	9.5	19.3	11.5	18.9	13.4	18.6	15.3	18.3	17.2	17.9	19.2	17.4	21.1
RD-150V	150 ^A	1170	33.1	29.1	8.04	28.5	10.8	27.9	13.6	27.4	16.3	26.7	19.0	26.1	21.8	24.6	24.7	27.3	23.9	30.0	
		1250	35.3	31.3	8.59	30.7	11.5	30.1	14.5	29.6	17.4	28.9	20.3	28.3	23.3	27.6	26.3	29.2	26.1	32.1	
		1350	38.2	34.2	9.28	33.6	12.5	33.0	15.7	32.5	18.9	31.8	22.0	31.2	25.2	30.5	28.4	29.8	31.5	29.0	34.6
		1500	42.3	38.3	10.31	37.7	13.9	37.1	17.4	36.6	20.9	35.9	24.4	35.3	28.0	34.6	31.5	33.9	35	33.1	

ROTARY BLOWER

R Series

■ Type R-V/ R-VZ Dry Type Dual Shaft Rotary Vacuum Blower Performance Table (2)

Type	Diameter	Rotational speed Theoretical air volume min ⁻¹	m ³ /min	Suction volume Qs (m ³ /min) for each vacuum pressure and required power La (kW)																	
				-9.8kPa		-14.7kPa		-19.6kPa		-24.5kPa		-29.4kPa		-34.3kPa		-39.2kPa		-44.1kPa		-49.0kPa	
				Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
RE- 250V	250 ^A	750	53.4	46.8	12	44.8	16.5	43.9	21	42.2	25.5	41.0	30	39.6	34.5	36.4	39	36.8	43.5	35.1	48
		970	69.1	62.5	15	60.5	21	59.6	27	57.9	32.5	56.7	38	55.3	44	54.1	50	52.5	56	50.8	62
		1170	83.3	76.7	18	74.7	25	73.8	32	72.1	39	70.9	46	69.5	53	68.3	60	66.7	67	65.0	74
		1250	89.0	82.4	20	80.4	27.5	79.5	35	77.8	42.5	76.6	50	75.2	57	74.0	64	72.4	71.5	70.7	79
RMF-250V	250 ^A	1350	96.2	89.6	21	87.6	29	86.7	37	85.0	45	83.8	53	82.4	61	81.2	69	79.6	77.5	77.9	86
		750	63.2	55.7	14.3	54.4	19.6	53.1	24.9	51.8	30.2	50.5	35.5	49.1	40.9	47.7	46.2	46.2	51.5	44.7	56.8
		880	74.1	66.6	16.8	65.3	23.1	64.0	29.3	62.7	35.5	61.4	41.7	60.0	48.0	58.6	54.2	57.1	60.4	55.6	66.6
		970	81.7	74.2	18.5	72.9	25.4	71.6	32.3	70.3	39.1	69.0	45.9	67.6	52.8	66.2	59.7	64.7	66.6	63.2	73.5
RMF-300V	300 ^A	1170	98.6	91.1	22.3	89.8	30.6	88.5	38.9	87.2	47.2	85.9	55.4	84.5	63.7	83.1	72.0	81.6	80.3	80.1	88.6
		750	95.4	84.7	21.0	82.7	29.1	80.9	37.1	79.2	45.1	77.5	53.0	75.9	61.0	74.2	69.0	72.4	77.0	70.1	85.0
		880	111.9	101	24.7	99.2	34.1	97.4	43.5	95.7	52.9	94.0	62.2	92.4	71.6	90.7	80.9	88.9	90.3	86.6	99.7
		970	123.4	113	27.2	111	37.6	109	47.9	107	58.3	106	68.6	104	78.9	102	89.2	100	99.6	98.1	110
RF- 240V	250 ^A	1170	148.8	138	32.8	136	45.3	134	57.8	133	70.3	131	82.7	129	95.2	128	108	126	120	124	133
		650	56.0	49.6	13	47.4	17.5	46.6	22	45.1	27	43.8	32	42.5	36.5	41.4	41	39.9	46	51	51
		730	62.9	56.5	14	54.3	19.5	53.5	25	52.0	30.5	50.7	36	49.4	41	48.3	46	46.8	51.5	45.0	57
		800	68.9	62.5	16	60.3	21.5	59.5	27	58.0	33	56.7	39	55.4	45	54.3	51	52.8	56.5	51.0	62
RF- 245V	250 ^A	880	75.8	69.4	17	67.2	23.5	66.4	30	64.9	36.5	63.6	43	62.3	49.5	61.2	56	59.7	62.5	57.9	69
		980	84.4	78.0	19	75.8	26	75.0	33	73.5	40.5	72.2	48	70.9	55	69.8	62	68.3	69	66.5	76
		650	70.0	61.9	16	59.3	22	58.3	28	56.4	33.5	54.8	39	53.3	45	51.8	51	49.8	57	47.5	63
		730	78.6	70.5	17	67.9	24	66.9	31	65.0	37.5	63.4	44	61.9	50.5	60.4	57	58.4	63.5	56.1	70
RF- 250V	250 ^A	800	86.1	78.0	19	75.4	26.5	74.4	34	72.5	41	70.9	48	69.4	55.5	67.9	63	65.9	70	63.6	77
		880	94.7	86.6	21	84.0	29	83.0	37	81.1	45	79.5	53	78.0	61	76.5	69	74.5	77	72.2	85
		980	105.5	97.4	23	94.8	32	93.8	41	91.9	50	90.3	59	88.8	68	87.3	77	85.3	86	83.0	95
		650	87.1	76.2	19	73.5	26.5	72.4	34	70.4	41	68.5	48	66.8	55.5	65.2	63	63.0	70.5		
RF- 290V	300 ^A	730	97.8	86.9	21	84.2	29.5	83.1	38	81.1	46	79.2	54	77.5	62	75.9	70	73.7	82.5		
		800	107.2	96.3	23	93.6	32	92.5	41	90.5	50	88.6	59	86.9	68	85.3	77	83.1	86	80.4	95
		880	117.9	107	26	105	35.5	103	45	101	55	99.1	65	97.4	75	95.8	85	93.8	95	91.1	105
		980	131.3	120	29	118	40	116	51	114	61.6	112	72	110	83.5	108	95	107	106	105	117
RF- 290V	300 ^A	650	102.6	92.3	22	88.4	30.5	86.9	39	84.2	48	81.9	57	80.0	65.5	78	74	75.8	82.5	72.6	91
		730	115.3	105	25	101	35	99.6	45	96.9	54.5	94.6	64	92.7	73.5	90.7	83	88.5	93	85.3	103
		800	126.3	116	27	112	37.5	110	48	107	59	105	70	103	80.5	101	91	99.5	102	96.3	112
		880	139.0	128	30	125	41.5	123	53	120	64.5	118	76	116	88	114	100	112	112	109	123
RF- 295V	300 ^A	980	154.8	144	33	141	46	139	59	136	72	134	85	132	97.5	130	110	128	123	124	136
		650	108.9	97.3	23	93.5	32.5	92.0	42	89.3	51	87.0	60	85.0	69	83.2	78	81.0	87	76.6	96
		730	122.3	110	26	107	36.5	105	47	102	57	99.7	67	97.7	77.5	95.9	88	94.4	98	90.0	108
		800	134.0	122	29	119	40	117	51	114	62.5	112	74	110	85	108	96	106	107	101	118
RF- 300V	300 ^A	880	147.4	135	32	132	45.5	130	59	127	70	125	81	123	93	121	105	120	118	115	130
		980	164.1	152	35	149	49	147	63	144	76.5	142	90	140	104	138	117	136	131	131	145
		650	133.7	120	29	117	40	115	51	112	62	109	73	107	84.5	104	96	101	107	97	118
		730	150.2	137	32	133	44.5	131	57	128	69.5	125	82	123	94.5	120	107	118	120	114	132
RF- 350V	350 ^A	880	164.6	151	35	148	49	146	63	143	76.5	140	90	138	104	135	118	132	132	128	145
		980	181.1	168	39	164	54	162	69	159	84	156	99	154	114	151	129	149	144	145	159
		200	217.0	192	43	185	59.5	183	76	180	93	177	110	175	127	172	144	170	161	165	178
		220	239.2	225	50	220	70	218	90	215	110	211	130	208	150	205	169	201	189	197	209
RG- 350V	350 ^A	590	197.3	184	43	179	59.5	177	76	174	92.5	171	109	168	126	166	142	163	159		
		630	210.7	198	46	193	63.5	191	81	188	98.5	185	116	182	134	180	152	176	170	173	187
		670	224.1	211	49	206	67.5	204	86	201	105	198	124	195	143	193	161	190	180	186	199
		710	237.4	225	52	219	71.5	217	91	214	111	211	131	208	151	206	171	203	191	199	211
RG- 400V	400 ^A	750	250.8	238	54	233	75	231	96	288	117	225	138	222	159	220	180	216	201	213	222
		590	248.1	232	52	226	73	224	94	220	115	215	135	212	156	208	177	205	198	199	218
		630	264.9	259	56	253	78	251	100	247	122	242	144	239	167	235	189	2			

■Type R-W/ R-WZ Wet Type Dual Shaft Rotary Vacuum Blower Performance Table (1)

Type	Diameter	Rotational speed min ⁻¹	Theoretical air volume m ³ /min	Suction volume Qs (m ³ /min) for each vacuum pressure and required power La (kW)												Sealed water capacity l/min		
				-13.3kPa		-20.0kPa		-26.7kPa		-33.3kPa		-40.0kPa		-46.7kPa				
				Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La			
RB- 50W	50 ^A	1150	1.57	1.12	0.95	1.09	1.12	1.04	1.30	0.97	1.47	0.87	1.65	0.75	1.82	0.57	1.99	4
		1450	1.98	1.53	1.12	1.50	1.35	1.45	1.57	1.38	1.80	1.28	2.00	1.16	2.22	0.98	2.45	5
		1750	2.40	1.95	1.30	1.92	1.58	1.87	1.85	1.80	2.10	1.70	2.37	1.58	2.65	1.40	2.90	5
		2000	2.74	2.29	1.50	2.26	1.80	2.21	2.10	2.14	2.40	2.04	2.70	1.92	3.00	1.74	3.30	6
		2500	3.42	2.97	1.85	2.94	2.20	2.89	2.60	2.82	3.00	2.72	3.35	2.60	3.73	2.42	4.10	6
RB- 65W	65 ^A	1150	2.29	1.69	1.20	1.64	1.45	1.57	1.70	1.49	1.95	1.39	2.20	1.24	2.45	0.99	2.70	5
		1450	2.89	2.29	1.55	2.24	1.85	2.17	2.20	2.09	2.50	1.99	2.83	1.84	3.15	1.59	3.47	6
		1750	3.49	2.89	1.90	2.84	2.25	2.77	2.65	2.69	3.05	2.59	3.42	2.44	3.80	2.19	4.20	6
		2000	3.99	3.39	2.08	3.34	2.50	3.27	2.95	3.19	3.40	3.09	3.83	2.94	4.25	2.69	4.70	6
		2500	4.98	4.38	2.60	4.33	3.14	4.26	3.70	4.18	4.25	4.08	4.80	3.93	5.35	3.68	5.90	8
RC- 80W	80 ^A	1150	4.48	3.68	2.20	3.58	2.70	3.38	3.20	3.18	3.70	2.88	4.20	2.58	4.70	1.98	5.18	6
		1450	5.66	4.86	2.75	4.76	3.35	4.56	4.00	4.36	4.60	4.06	5.25	3.76	5.90	3.16	6.50	8
		1750	6.83	6.03	3.30	5.93	4.06	5.73	4.80	5.53	5.60	5.23	6.45	4.93	7.10	4.33	7.87	8
		2000	7.80	7.00	3.70	6.90	4.60	6.70	5.43	6.50	6.30	6.20	7.15	5.90	8.02	5.30	8.90	8
		2500	9.76	8.96	4.65	8.86	5.70	8.66	6.80	8.46	7.90	8.16	9.00	7.86	10.1	7.26	11.1	8
RC-100W	100 ^A	1150	6.33	5.33	3.00	5.03	3.70	4.83	4.40	4.63	5.12	4.33	5.83	4.03	6.52	3.53	7.22	8
		1450	7.99	6.99	3.80	6.69	4.70	6.49	5.58	6.29	6.45	5.99	7.35	5.69	8.24	5.19	9.10	9
		1750	9.64	8.64	4.65	8.34	5.73	8.14	6.80	7.94	7.85	7.64	8.94	7.34	10.0	6.84	11.1	9
		2000	11.02	10.0	5.25	9.72	6.50	9.52	7.70	9.32	8.93	9.00	10.2	8.72	11.5	8.22	12.6	9
		2500	13.77	12.5	6.53	12.4	8.05	12.2	9.60	12.0	11.1	11.7	12.7	11.4	14.2	10.9	15.7	9
RD-100W	100 ^A	970	7.74	6.9	3.24	6.7	4.10	6.5	4.95	6.2	5.80	5.9	6.65	5.5	7.50	4.8	8.37	9
		1150	9.17	8.3	3.85	8.1	4.85	7.9	5.88	7.6	6.90	7.3	7.93	6.9	8.93	6.3	9.94	9
		1450	11.57	10.7	4.75	10.5	6.05	10.3	7.35	10.0	8.65	9.7	9.94	9.3	11.2	8.6	12.5	10
		1750	13.96	13.2	5.80	13.0	7.35	12.7	8.90	12.4	10.5	12.1	12.0	11.7	13.6	11.0	15.1	10
		2000	15.96	15.2	6.50	15.0	8.25	14.7	10.0	14.4	11.8	14.1	13.5	13.7	15.3	13.0	17.2	10
RD-125W	125 ^A	970	11.12	10.1	4.17	9.9	5.40	9.7	6.65	9.4	7.90	9.0	9.10	8.5	10.4	7.8	11.6	10
		1150	13.19	12.2	4.93	12.0	6.40	11.8	7.85	11.5	9.30	11.1	10.8	10.6	12.3	9.9	13.7	10
		1450	16.63	15.6	6.30	15.4	8.15	15.2	10.0	14.9	11.8	14.5	13.7	14.0	15.6	13.3	17.4	12
		1750	20.07	19.0	7.50	18.8	9.80	18.6	12.0	18.3	14.2	17.9	16.5	17.4	18.7	16.7	20.9	12
		2000	22.94	21.9	8.55	21.7	11.2	21.5	13.7	21.2	16.3	20.8	18.8	20.3	21.4	19.6	23.9	12
RD-127W	125 ^A	970	13.54	12.5	5.0	12.2	6.5	11.9	8.0	11.6	9.5	11.1	11.0	10.5	12.5	9.7	14.0	10
		1150	16.06	15.0	5.8	14.7	7.6	14.4	9.3	14.1	11.1	13.6	12.9	13.0	14.7	12.2	16.4	10
		1450	20.24	19.2	7.5	18.9	9.8	18.6	12.0	18.3	14.3	17.8	16.5	17.2	18.8	16.6	21.0	12
		1750	24.43	23.3	8.8	23.1	11.5	22.8	14.3	22.5	17.0	22.0	19.7	21.4	22.4	20.6	25.1	12
		2000	27.93	26.8	10.0	26.6	13.1	26.3	16.2	25.9	19.4	25.5	22.4	24.9	25.6	24.1	28.6	14
RD-130W	125 ^A	970	16.93	15.6	6.3	15.4	8.1	15.1	10.0	14.7	11.9	14.2	13.8	13.5	15.7	12.3	17.5	10
		1150	20.07	18.8	7.2	18.5	9.4	18.2	11.7	17.8	13.9	17.3	16.1	16.6	18.3	15.4	20.5	12
		1450	25.30	24.0	9.1	23.7	12.0	23.5	14.8	23.1	17.6	22.6	20.4	21.9	23.2	20.6	26.0	13
		1750	30.54	29.2	10.8	29.0	14.2	28.7	17.6	28.3	21.0	27.8	24.4	27.1	27.7	25.9	31.1	13
		2000	34.90	33.6	12.2	33.3	16.1	33.1	20.0	32.7	23.9	32.2	27.8	31.5	31.7	30.2	35.5	15
RD-150W	150 ^A	970	20.80	19.2	7.5	18.9	9.8	18.5	12.1	18.0	14.4	17.4	16.7	16.6	18.8	15.1	21.3	12
		1150	24.66	23.0	8.6	22.7	11.4	22.4	14.2	21.9	16.9	21.3	19.7	20.4	22.4	19.0	25.1	15
		1450	31.09	29.5	10.9	29.1	14.3	28.8	17.8	28.3	21.2	27.7	24.7	26.9	28.1	25.4	31.6	18
		1750	37.53	35.9	13.1	35.6	17.3	35.3	21.5	34.7	25.7	34.1	29.8	33.3	34.0	31.9	38.1	18
		2000	42.89	41.3	15.0	40.9	19.8	40.6	24.5	40.1	29.3	39.5	34.1	38.6	38.9	37.2	43.6	18
RME-150W	150 ^A	1170	33.1	31.5	11.9	29.5	15.5	30.7	19.2	30.3	23.0	29.7	26.6	28.7	30.3	27.3	33.9	18
		1250	35.3	33.7	12.5	33.3	16.4	32.9	20.5	32.5	24.4	31.9	28.2	30.9	32.2	29.5	36.0	18
		1350	38.2	36.6	13.6	36.2	17.8	35.8	22.1	35.4	26.4	34.9	30.6	33.8	34.9	32.4	39.0	18
		1500	42.3	40.7	15.1	40.3	19.7	39.9	24.5	39.5	29.2	38.9	33.8	37.9	38.5	36.5	43.2	18
		1170	50.1	47.7	16.9	47.1	22.4	46.6	28.0	45.9	33.5	44.9	39.2	43.4	44.7	41.3	50.2	20
RME-200W	200 ^A	1170	1250	53.5	51.1	18.0	50.5	23.8	50.0	29.8	49.3	35.8	48.3	41.6	46.8	44.7	53.5	20
		1350	57.8	55.4	19.3	54.8	25.8	54.3	32.2	53.6	38.7	52.6	45.0	51.1	51.5	49.0	57.8	22
		1500	64.2	61.8	21.5	61.2	28.7	60.7	35.8	60.0	42.9	59.0	50.0	57.5	57.2	55.4	64.2	22
		1170	750	17.55	16.0	15.5	8.9	15.1	10.9	14.8	12.8	14.1	14.8	13.2	16.8	12.1	18.7	18
		1250	970	22.70	21.2	8.0	20.7	11.5	20.3	14.0	19.8	16.6	19.2	19.1	21.6	17.2	24.1	18
RE-140W	150 ^A	1170	1250	27.39	25.8	10.8	25.3	13.9	25.0	16.9	24.6	19.9	24.0	23.0	26.0	21.9	29.1	18

ROTARY BLOWER

R Series

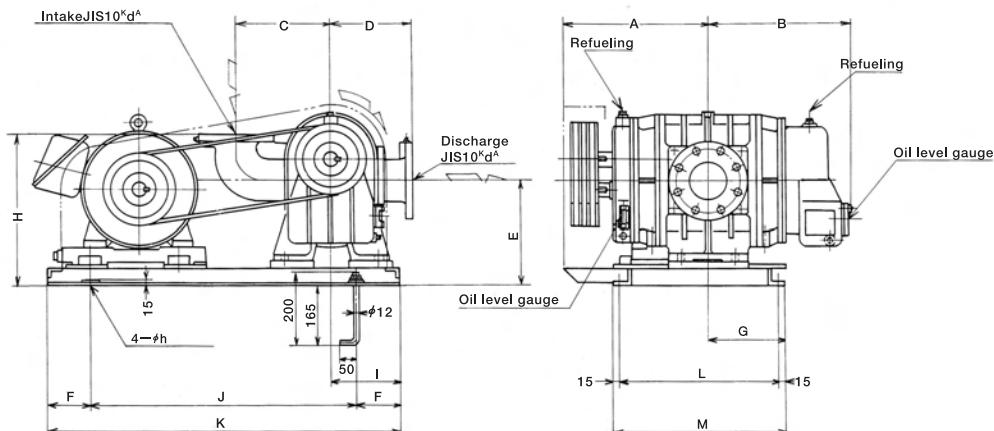
■Type R-W/ R-WZ Wet Type Dual Shaft Rotary Vacuum Blower Performance Table (2)

Type	Diameter	Rotational speed min ⁻¹	Theoretical air volume m ³ /min	Suction volume Qs (m ³ /min) for each vacuum pressure and required power La (kW)												Sealed water capacity l/min		
				-13.3kPa		-20.0kPa		-26.7kPa		-33.3kPa		-40.0kPa		-46.7kPa				
				Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La			
RE- 250W	250 ^A	750	53.4	49.9	17.7	49.2	23.7	48.2	29.6	47.2	35.6	45.9	41.6	43.9	47.5	40.6	53.4	25
		970	69.1	65.6	22.7	64.9	30.5	63.9	38.0	62.9	45.8	61.6	53.5	59.6	61.1	56.3	68.8	30
		1170	83.3	79.8	27.1	79.1	36.3	78.1	45.6	77.1	54.9	75.8	64.1	73.8	73.6	70.5	82.6	30
		1250	89.0	85.5	28.9	84.8	38.8	83.8	48.8	82.8	58.7	81.5	68.6	79.5	78.5	76.2	88.3	30
RMF-250W	250A	1350	96.2	92.7	30.5	92.0	41.0	91.0	51.2	90.0	61.5	88.7	71.8	86.7	82.2	83.4	92.3	30
		750	63.2	59.8	20.1	58.8	27.1	57.7	34.1	56.6	41.1	55.1	48.2	52.8	55.2	49.9	62.2	22
		880	74.1	70.7	23.6	69.7	31.8	68.6	40.1	67.5	48.2	66.0	56.5	63.7	64.7	60.8	72.9	25
		970	81.7	78.3	25.8	77.3	35.1	76.2	44.1	75.1	53.1	73.6	62.2	71.3	71.3	68.4	80.4	30
RMF-300W	300A	1170	98.6	95.2	31.2	94.2	42.2	93.1	53.2	92.0	64.0	90.5	75.0	88.2	85.9	85.3	97.0	33
		750	95.4	90.5	29.3	89.2	40.0	87.9	50.6	86.6	61.3	84.8	71.8	82.3	82.5	78.6	93.0	33
		880	111.9	107	34.5	106	46.8	104	59.2	103	71.7	101	84.2	98.8	96.5	95.1	109	35
		970	123.4	119	38.0	117	51.7	116	65.3	115	79.1	113	92.5	110	106	107	120	35
RF- 240W	250 ^A	1170	148.8	144	46.2	143	62.7	141	79.1	140	95.5	138	112	136	128	132	145	40
		650	56.0	52.5	17.5	51.5	23.7	50.3	29.8	49.0	36.0	47.0	42.3	44.5	48.5	41.0	54.7	30
		730	62.9	59.4	19.5	58.4	26.5	57.2	33.5	55.9	40.5	53.9	47.5	51.4	54.5	47.9	61.4	30
		800	68.9	65.4	21.2	64.4	29.0	63.2	36.6	61.9	44.3	59.9	52.0	57.4	59.5	53.9	67.2	30
RF- 245W	250A	880	75.8	72.3	23.1	71.3	31.8	70.1	40.1	68.8	48.5	66.8	57.0	64.3	65.5	60.8	73.8	30
		980	84.4	80.9	25.5	79.9	35.0	78.7	44.5	77.4	53.8	75.4	63.5	72.9	72.6	69.4	82.0	30
		650	70.0	66.0	21.5	65.0	29.4	63.8	37.2	62.0	45.0	60.0	53.0	57.3	61.7	53.5	68.2	30
		730	78.6	74.6	24.0	73.6	32.5	72.4	41.5	70.6	50.5	68.6	59.1	65.9	68.0	62.1	76.5	30
RF- 250W	250 ^A	800	86.1	82.1	26.2	81.1	36.0	79.9	45.3	78.1	55.0	76.1	64.5	73.4	74.0	69.6	83.5	33
		880	94.7	90.7	29.0	89.7	39.5	88.5	50.0	87.6	60.5	84.7	71.0	82.0	81.5	78.2	92.0	33
		980	105.5	101	31.8	100	34.5	99.3	55.5	97.5	67.0	95.5	78.8	92.8	90.5	89.0	102	33
		650	87.1	82.7	26.5	81.6	36.0	80.1	46.0	78.3	55.5	76.1	65.2	73.1	75.0	69.0	84.5	32
RF- 250W	250A	730	97.8	93.4	29.0	92.3	40.0	90.8	51.0	89.0	62.0	86.8	72.9	83.8	83.5	79.7	94.4	32
		800	107.2	103	32.5	102	44.5	100	56.5	98.4	68.0	96.2	80.0	93.2	92.0	89.0	104	32
		880	117.9	113	35.0	112	48.5	111	61.5	109	74.5	107	88.0	104	101	99.8	114	35
		980	131.3	127	39.0	126	54.0	124	68.3	122	83.0	120	97.5	117	112	113	127	35
RF- 290W	300A	650	102.6	97.6	30.5	96.1	41.5	94.6	53.0	92.6	64.5	90.6	75.8	87.8	87.1	82.6	98.5	32
		730	115.3	110	34.0	109	47.0	107	59.8	105	72.5	103	85.5	100	98.5	95.3	111	32
		800	126.3	121	37.0	120	51.0	118	65.0	116	79.0	114	93.0	111	107	106	121	32
		880	139.0	134	41.0	132	56.4	131	72.0	130	87.3	127	103	124	118	119	144	35
RF- 295W	300A	980	154.8	150	45.0	148	62.5	147	79.5	145	97.0	143	114	140	132	135	149	35
		650	108.9	103	32	102	45	100	57	99	69	96	81	93	93	87	105	35
		730	122.3	116	36	115	50	113	64	112	77	109	91	106	105	100	118	35
		800	134.0	128	40	127	55	125	70	124	85	121	100	118	114	112	129	35
RF- 300W	300A	880	147.4	141	44	140	60	138	77	137	93	134	109	131	126	125	142	40
		980	164.1	158	48	157	67	155	85	154	103	151	122	148	140	142	158	40
		650	133.7	126	40	125	55	123	70	121	85	119	100	115	114	109	129	35
		730	150.2	143	44	142	61	140	78	138	95	136	111	132	128	126	144	40
RF- 300W	300A	800	164.6	158	48	157	67	155	85	153	103	151	122	147	140	141	158	40
		880	181.1	174	53	173	74	171	94	169	114	167	134	163	154	157	174	40
		980	201.7	195	59	194	81	192	104	190	126	188	149	184	171	178	193	40
		650	158.6	149	50	147	69	145	88	143	106	140	126	136	144	129	167	40
RF- 350W	350 ^A	730	178.2	169	53	167	72	165	92	163	112	160	132	156	152	149	171	45
		800	195.2	186	57	184	79	182	101	180	123	177	144	173	166	166	188	45
		880	214.8	205	63	203	87	201	111	199	135	196	159	192	183	185	206	45
		980	239.2	230	70	228	97	226	123	224	150	221	177	217	203	210	230	45
RG- 350W	350 ^A	590	197.3	185	59	184	81	183	103	182	125	179	146	176	168	168	190	43
		630	210.7	199	63	198	86	197	110	196	133	193	156	190	180	182	203	43
		670	224.1	213	67	212	91	211	117	210	141	207	167	204	191	196	216	43
		710	237.4	227	70	226	97	225	124	224	150	221	176	218	202	210	229	43
RG- 400W	400 ^A	590	248.1	235	71	234	198	232	126	231	154	229	179	225	208	220	236	45
		630	264.9	252	75	251	105	249	135	248	164	246	193	242	223	237	252	45
		670	281.7	269	80	268	112	266	143	265	174	263	207	259	236	251	268	45
		710	298.5	286	85	285	117	283	151	282	184	280	217	276	251	268	284	45
RG- 450W	450 ^A	750	315.3	303	90	302	125	300	160	299	195	297	230	293	265	285	300	45
		590	310.1	295	91	293	125	291	160	289	194	287	229	283	263	275	297	48
		630	331.1	316	96	314	133	312	170									

Outline Drawings (Standard)

Basically, the standard blower rotates clockwise from the axis end (counter clockwise is also available – speak to us about this.) If you have a standard blower rotating counter clockwise without adjustment, the impeller might come into contact. The size of the base might change depending on the motor (including motor base and rail). If you use rubber pads, the quantity needed and the place to install them might be different from those of a regular bolt.

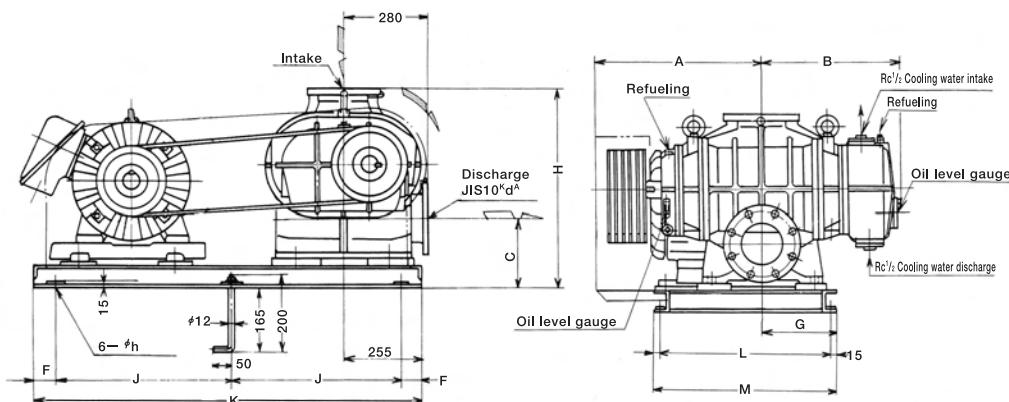
RB.RC



Type	Motor power (kW)	d ^A	A	B	C	D	E	F	G	H	I	J	K	L	M	#h	Weight kg
RB- 50	2.2、 3.7	50	270	271	203	173	248	100	130	338	150	540	740	290	320	15	80
	5.5、 7.5		280		165	200	50	12	180		600	800	330	360			
RB- 65	1.5~ 3.7	65	280	296	223	178	248	100	120	348	150	560	760	320	350	15	90
	5.5、 7.5		290		165	200	50	12	170		630	830	330	360			
RC- 80	5.5、 7.5	80	330	360	250	215	286	120	130	406	190	660	900	340	370	15	160
	11 ~ 18.5		350		165	200	50	12	250		740	980	440	470			
RC-100	3.7~ 7.5	100	400	395	260	225	286	120	140	406	190	680	920	440	470	15	190
	11 ~ 18.5		400		165	200	50	12	210		740	980	450	480			

The weight in the table above is for the blower itself. (not including motor or base etc.)

RD

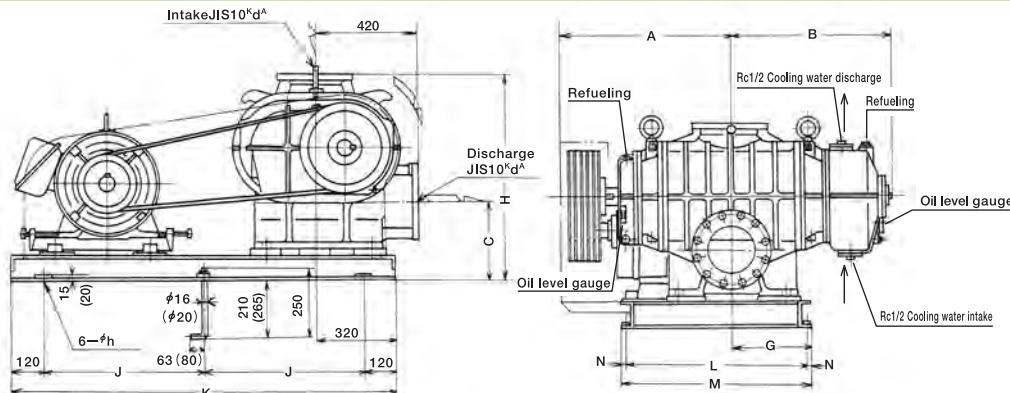


Type	Motor power (kW)	d ^A	A	B	C	F	G	H	J	K	L	M	#h	Weight kg
RD-100	3.7 ~ 11	100	400	365	205	70	180	635	480	1100	460	490	15	295
	15 ~ 22						230		530	1200				
RD-125	5.5 ~ 15	125	430				190	655	480	1100	460	490	15	360
	18.5 ~ 22		440	397	225	70	230		530	1200	480	510		
	30 ~ 45		450				280		580	1300	520	550		
RD-127 RD-130	11 ~ 22	125	510	457	225	70	240	655	530	1200	580	610	15	410
	30 ~ 45						240		580	1300	560	590		
RD-150	11 ~ 30	150	580	497	245	70	260	720	530	1200	640	670	15	530
	37 ~ 55						260		580	1300	580	610		

The weight in the table above is for the blower itself. (not including motor or base etc.)

Outline Drawings (Standard)

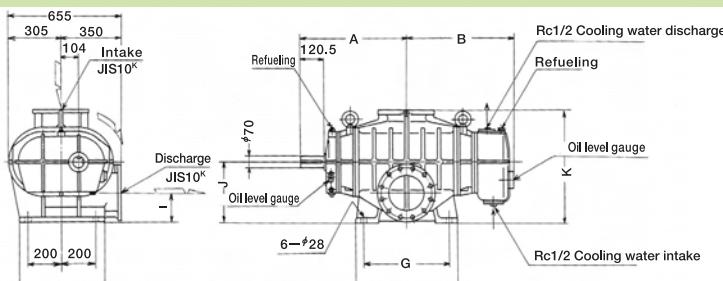
RE



Type	Motor power(kW)	d ^A	A	B	C	G	H	J	K	L	M	N	#h	Weight kg	Type	Motor power(kW)	d ^A	A	B	C	G	H	J	K	L	M	N	#h	Weight kg	
RE-140	11~22	150	560			180		580	1400	560	600				RE-190	15,18.5,22	200	700						580	1400	840	880			
	30,37,45		550	270			820	630	1500			20	19	890		30,37,45		685	325	300	865			630	1500	810	850	20	19	1150
	55,75		580		250			680	1600	570	610					55,75		720						680	1600	780	820			
RE-145	90	150	580		360			730	1700	670	710				RE-200	90	200	780						730	1700					
	11~22		560			210		580	1400	590	630					22		780						580	1400	1000	1050			
	30,37,45		590	280			830	630	1500			20	19	950		30,37,45		750	360	400	970			630	1500			25	23	1350
RE-150	55,75	150	580		360			730	1700	670	710					55,75		800						680	1600	950	1000			
	90		580													90								730	1700					

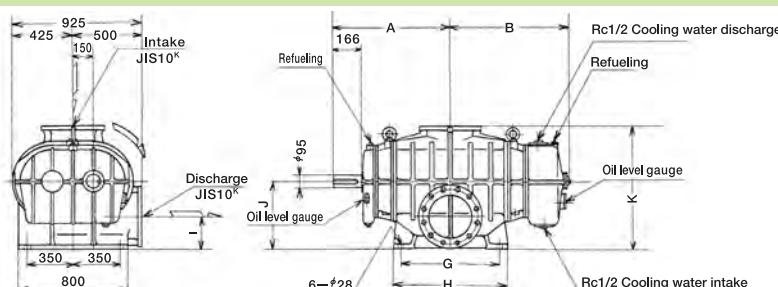
The weight in the table above is for the blower itself. (not including motor or base etc.)

RME



Type	Diameter	A	B	G	H	I	J	K	N	Weight kg
RME-150	150 ^A	525	535	310	400	155	335	630		650
RME-200	200 ^A	620	630	500	590	175	355	650		750

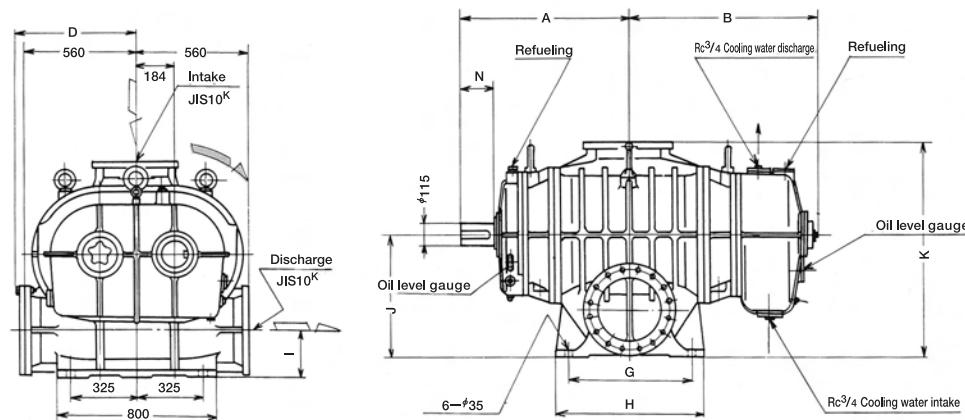
RMF



Type	Diameter	A	B	G	H	I	J	K	Weight kg	
RMF-250	250 ^A	715	740	470	570	215	475	875		1700
RMF-300	300 ^A	850	875	740	840	240	500	900		2150

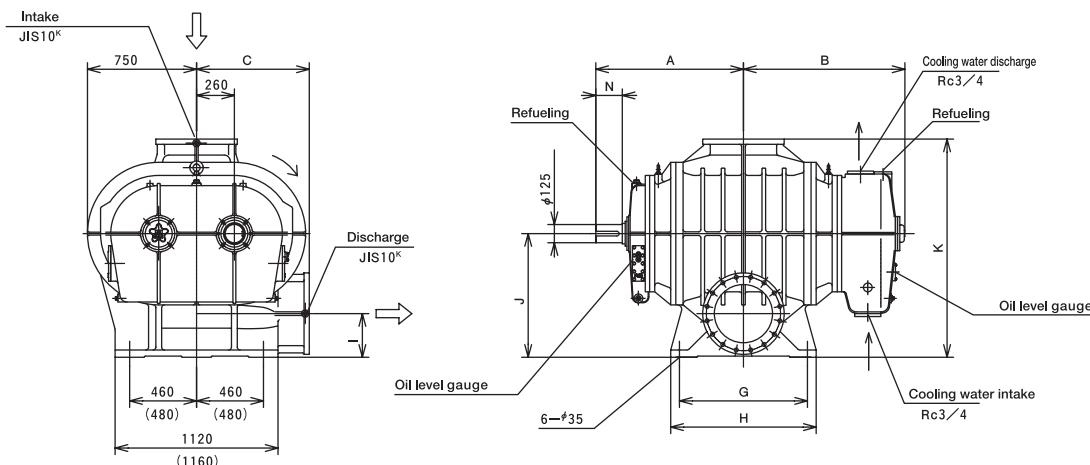
Outline Drawings (Standard)

RF | Body Outline Drawings



Type	Diameter	A	B	D	G	H	I	J	K	N	Weight kg	Notes
RF-240	250 ^A	730	810	601	400	480	210	570	1040	163.5	2000	Discharge flange 12-M22 Depth 34
RF-245		785	865		460	590	220				2000	
RF-250	300 ^A	855	935	600	600	730	230	600	1060	163.5	2280	
RF-290		935	1015		710	860		250	630		2660	
RF-295	350 ^A	1020	1095	603	900	1050			1090	168.5	2660	
RF-300											3000	
RF-350	350 ^A										3450	With intake reducer

RG | Body Outline Drawings



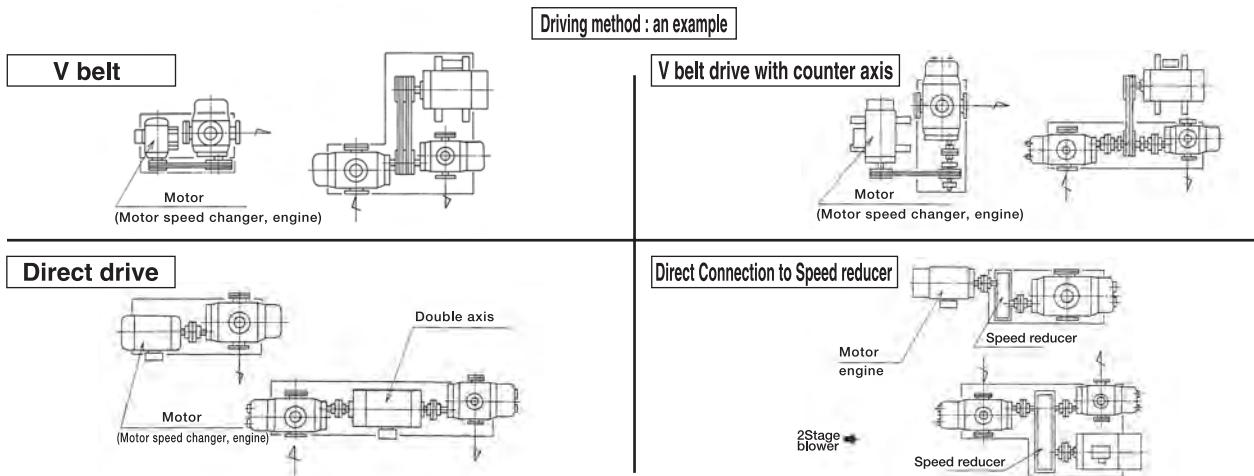
() indicates RG-500

Type	Diameter	A	B	C	G	H	I	J	K	N	Weight kg	Notes
RG-350	350 ^A	925	1020	775	780	900	275	825	1475	182	5770	Without intake reducer (Integrated Casing type)
RG-400		1015	1110		880	1000	300	850	1500		6200	
RG-450	450 ^A	1125	1220	800	1000	1150	315	750		182	6810	
RG-500		1280	1375		1280	1400	350	800	1550		9100	

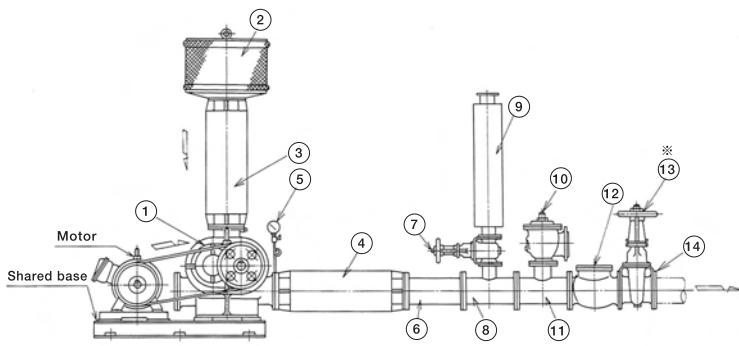
ROTARY BLOWER

Driving method and examples of piping

The motor uses a V belt drive as the standard. However, direct drive an engine drive, speed reducer and speed changer are also available as needed.



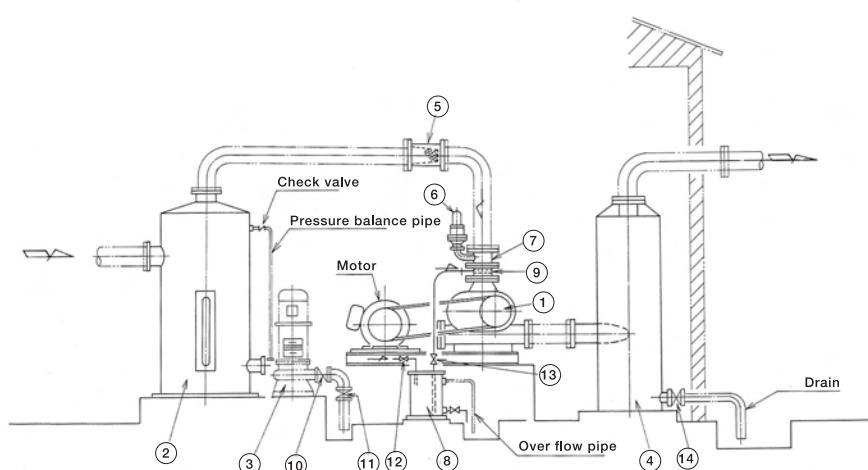
Blower layout example (Dry)



No.	Parts
1	Rotary blower
2	Air filter
3	Intake silencer
4	Discharge silencer
5	Pressure gauge
6	Expansion joint
7	Bypass gate valve
8	T reducer
9	Bypass silencer
10	Escape valve
11	T reducer
12	Check valve
13	Gate valve
14	Flange

The picture above shows the piping around the blower. Please lay pipes with appropriate consideration of the space vibration prevention, other piping connected to the blower. Installing rubber vibration insulator or expansion joints to the blower discharge is an effective way to prevent vibration. Silencer works well both standing upright or lying down. Please install JIS swing Check valve level. Install escape valve standing upright. Upright silencer is also available. Appropriate support is needed to make sure the weight of the pipe is not on the blower nozzle.

Vacuum blower layout example (Wet)



No.	Parts
1	Rotary vacuum blower
2	Suction separator tank
3	Drain pump
4	Wet silencer
5	Line filter
6	Vacuum breaker
7	YF reducer
8	Supply Water tank
9	Sealed water reducer
10	Check valve
11	Gate valve
12	Water pipe
13	Sealed water intake valve
14	Capacity adjustment valve

Note: The parts listed above are available as needed.

Accessory

Standard Accessory

Base (single and common baseplate); Body V pulley; Motor V pulley; V belt or coupling set; safety cover; foundation bolts (nuts, washers); flange (bolts, nuts, packing)

Special Accessory Sizes

Special accessory are available as shown below. Please choose according to applications, specifications, pipework plan etc...

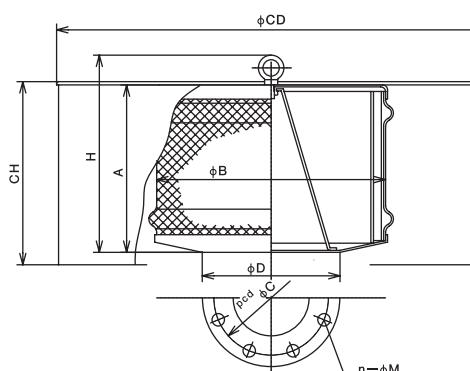
The Silencer's standard material is SS400+ glass wool. Stainless is also available.

Snapper type (SS400 and SUS304) is also available. Please use when you want to make the pulsation smaller or if there is a problem with the sound absorbing material.

Upright silencer is also available. Please talk to us if you need it.

Air filter

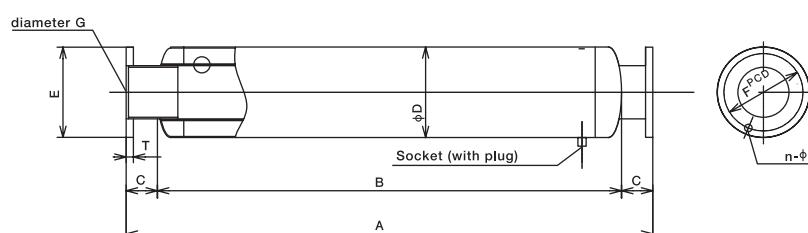
AF



Type	CD	CH	H	A	B	C	D	n-M	Weight kg	Cover Weight kg
AF- 50	356	200	208	166	230	120	155	4-M16	2.5	4.5
AF- 65	406	230	230	188	260	140	175	4-M16	3.2	5.9
AF- 80	586	250	260	218	300	150	185	8-M16	4.0	10.5
AF-100	656	280	290	248	350	175	210	8-M16	4.6	13.2
AF-125	806	350	371	320	450	210	250	8-M20	9.8	20.1
AF-150	856	450	473	422	550	240	280	8-M20	18.0	27.0
AF-200	1106	550	573	522	700	290	330	12-M20	24.0	41.0
AF-250	1360	650	675	624	900	355	400	12-M22	37.0	60.0
AF-300	1556	780	805	754	1100	400	445	16-M22	56.0	84.0
AF-350	1700	880	946	860	1300	445	490	16-M22	115.0	105.0
AF-400	1850	920	1088	1000	1500	510	560	16-M24	165.0	120.0
AF-450	1960	1120	1190	1100	1650	565	620	20-M24	202.0	155.0
AF-500	2160	1220	1290	1200	1850	620	675	20-M24	252.0	190.0

Silencer

KM



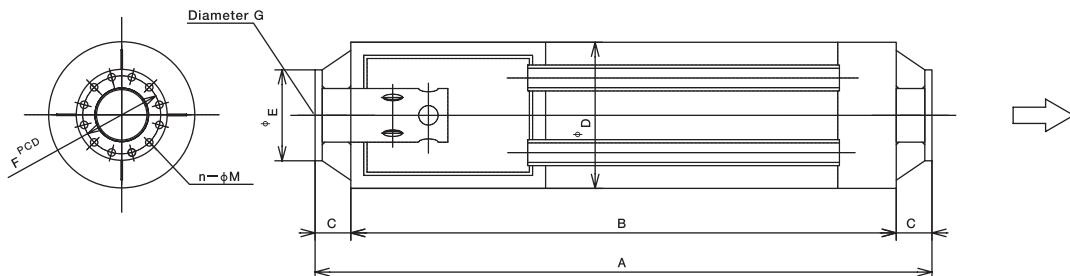
(Flange JIS 10k)

Type	G	A	B	C	D	Flange JIS 10k				Weight kg
						E	F	T	n-φM	
KM- 40	40A	570	460	55	114	140	105	16	4-19	8
KM- 50	50A	600	480	60	140	155	120	16	4-19	10
KM- 65	65A	700	560	70	165	175	140	18	4-19	14
KM- 80	80A	900	740	80	190	185	150	18	8-19	18
KM-100	100A	1200	1040	80	217	210	175	18	8-19	37
KM-125	125A	1400	1210	95	261	250	210	20	8-23	44
KM-150	150A	1600	1410	95	268	280	240	22	8-23	67
KM-200	200A	1800	1600	100	320	330	290	22	12-23	88
KM-250	250A	2000	1800	100	410	400	355	24	12-25	122
KM-300	300A	2200	1960	120	600	445	400	24	16-25	
KM-350	350A	2500	2260	120	700	490	445	26	16-25	
KM-400	400A	3000	2740	130	800	560	510	28	16-27	
KM-450	450A	3600	3360	140	900	620	565	30	20-27	
KM-500	500A	4200	3920	140	1000	675	620	30	20-27	

Special Accessory Size

Discharge silencer | KMB

This side must be attached to the blower side.

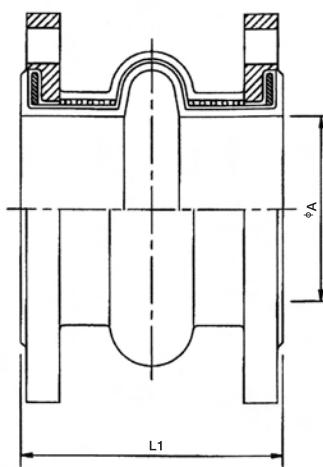


Silencer must be attached directly to the blower, or as close as possible.

Type	G	A	B	C	D	JIS	10K	F.F.	Flange	Weight kg
						E	F	n-φM		
KMB- 50	50A	900	740	80	184	155	120	4-19	21	
KMB- 65	65A	1200	1020	90	233	175	140	4-19	38	
KMB- 80	80A	1400	1220	90	280	185	150	8-19	45	
KMB-100	100A	1600	1420	90	310	210	175	8-19	65	
KMB-125	125A	1800	1600	100	350	250	210	8-23	88	
KMB-150	150A	1900	1680	110	450	280	240	8-23	135	
KMB-200	200A	2000	1780	110	500	330	290	12-23	200	
KMB-250	250A	2200	1960	120	600	400	355	12-25	260	
KMB-300	300A	2500	2260	120	700	445	400	16-25	350	
KMB-350	350A	3000	2740	130	800	490	445	16-25		
KMB-400	400A	3600	3340	130	900	560	510	16-27		

Expansion joint | EA1

Type	Size		1ARCH		
	A	L1	Shrinkage	Expansion	Eccentricity
EA1- 50	51	150	15	10	20
EA1- 65	64	150	15	10	20
EA1- 80	76	150	15	10	20
EA1-100	102	150	20	15	30
EA1-125	127	150	20	15	30
EA1-150	152	200	20	20	30
EA1-200	203	200	20	20	30
EA1-250	254	200	25	25	30
EA1-300	305	200	25	25	30
EA1-350	350	250	25	25	30
EA1-400	400	250	25	25	30
EA1-450	450	250	25	25	30
EA1-500	500	250	25	25	30

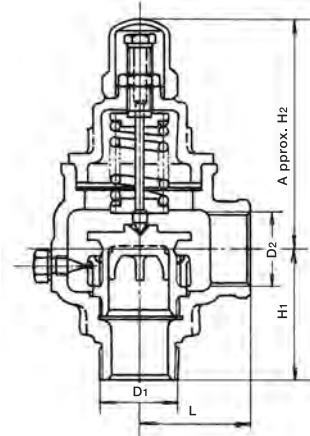


Special Accessory Size

CF200 for gate valve body, and CAC for hinge is standard. Also, hinge SUS, all SUS and cast steel are available.

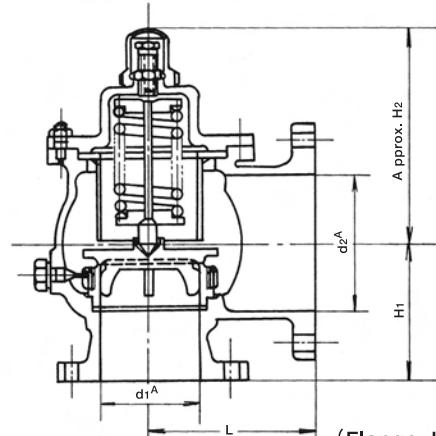
Moreover, open style gate valves are available too. (inexpensive Air type)

Escape valve | SVS



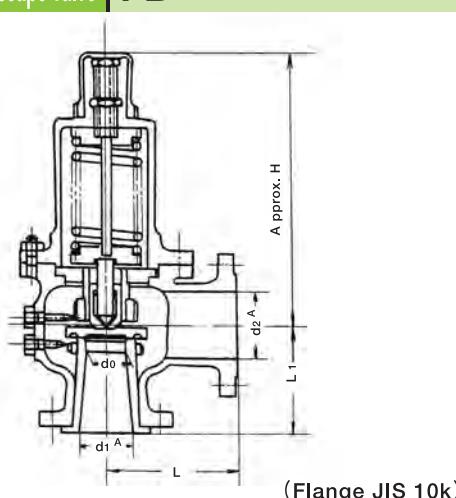
Type	D ₁	D ₂	L	H ₁	H ₂	Weight kg
SVS-20	Rc 3/4	G 3/4	45	60	103	2
SVS-25	Rc 1	G 1	50	70	120	3
SVS-32	Rc 1 1/4	G 1 1/4	60	75	138	3.5
SVS-38	Rc 1 1/2	G 1 1/2	70	85	145	4.8
SVS-50	Rc 2	G 2	80	100	155	7
SVS-65	Rc 2 1/2	G 2 1/2	85	105	190	9.2
SVS-75	Rc 3	G 3	95	115	205	15

Escape valve | SVF

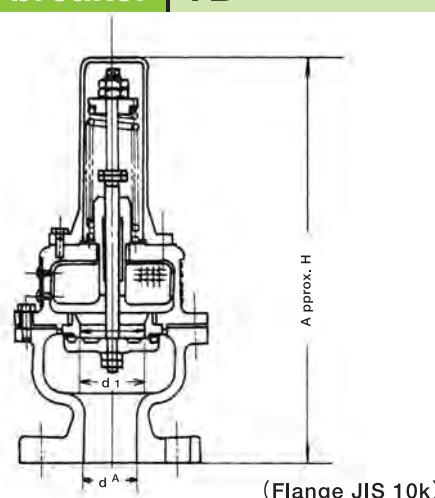


Type	d _{1A} ×d _{2A}	L	H ₁	H ₂	Weight kg
SVF- 38	40 ^A ×50 ^A	120	100	150	12
SVF- 50	50 ^A ×65 ^A	130	110	180	16.7
SVF- 65	65 ^A ×100 ^A	145	120	200	30
SVF- 75	80 ^A ×100 ^A	200	145	215	40.6
SVF-100	100 ^A ×125 ^A	200	150	245	48.5
SVF-125	125 ^A ×180 ^A	210	180	275	61.4
SVF-150	150 ^A ×200 ^A	220	200	345	100
SVF-180	180 ^A ×250 ^A	240	275	365	125
SVF-200	200 ^A ×250 ^A	280	275	380	125

Full flow type escape valve | FB



Vacuum breaker | VB



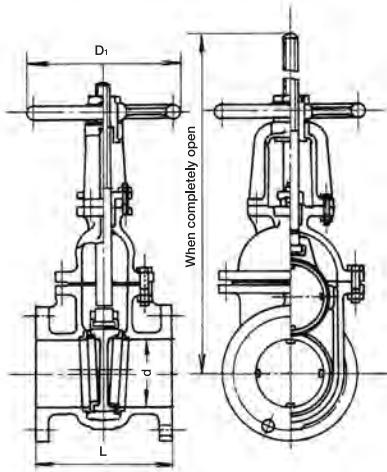
Type	d _{1A} ×d _{2A}	d ₀	L	L ₁	H	Weight kg
FB- 50	50 ^A ×65 ^A	33	140	120	275	35
FB- 65	65 ^A ×100 ^A	44	180	150	380	50
FB- 80	80 ^A ×100 ^A	57	185	165	380	60
FB-100	100 ^A ×125 ^A	75	200	180	430	100
FB-125	125 ^A ×150 ^A	90	210	190	500	130
FB-150	150 ^A ×200 ^A	111	240	220	580	200
FB-200	200 ^A ×250 ^A	150	305	280	645	350
FB-250	250 ^A ×300 ^A	170	330	300	700	550

Type	d	d ₁	H	Weight kg	Type	d	d ₁	H	Weight kg
VB-25	25 ^A	50	330	9	VB-100	100 ^A	150	570	40
VB-32	32 ^A	50	330	10	VB-125	125 ^A	175	655	55
VB-40	40 ^A	50	330	12	VB-150	150 ^A	200	750	90
VB-50	50 ^A	80	410	18	VB-200	200 ^A	250	830	120
VB-65	65 ^A	100	485	22	VB-250	250 ^A	300	940	150
VB-80	80 ^A	100	485	30	VB-300	300 ^A	350	1000	180

Special Accessory Size

Custom made valves are also available

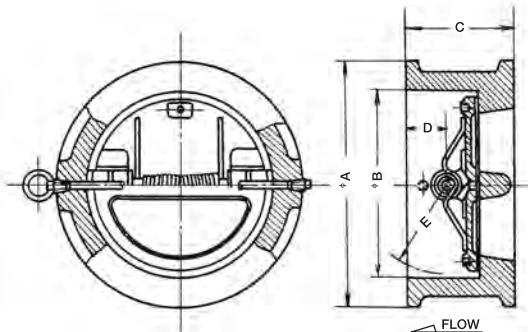
Outside screw gate valve | GV



(Flange JIS 10k)

Type	d	L	D ₁	H	Weight kg
GV- 50	50	180	200	381	18
GV- 65	65	190	200	428	24
GV- 80	80	200	224	493	27.7
GV-100	100	230	250	588	43.5
GV-125	125	250	280	689	61
GV-150	150	270	300	798	128.3
GV-200	200	290	355	903	128.3
GV-250	250	330	400	1204	202
GV-300	300	350	450	1403	275

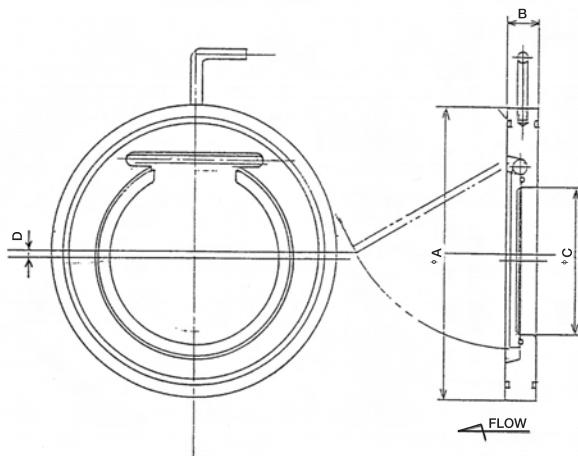
Check valve | K (Duo check type)



(Use flange JIS 10k)

Type	A	B	C	D	E	Weight kg
K- 50	101	60	54	27	27	3
K- 65	121	73	54	27	34	4
K- 80	131	89	57	28	42	5
K-100	156	114	64	30	53	6
K-125	187	141	70	31	65	9
K-150	217	168	76	31	79	10
K-200	267	219	95	41	102	19
K-250	330	273	108	41	126	31
K-300	375	324	144	56	153	56
K-350	420	356	178	84	175	71
K-400	483	406	159	63	194	99

Check valve | DCV (Insert disk type)



(Use flange JIS 10k)

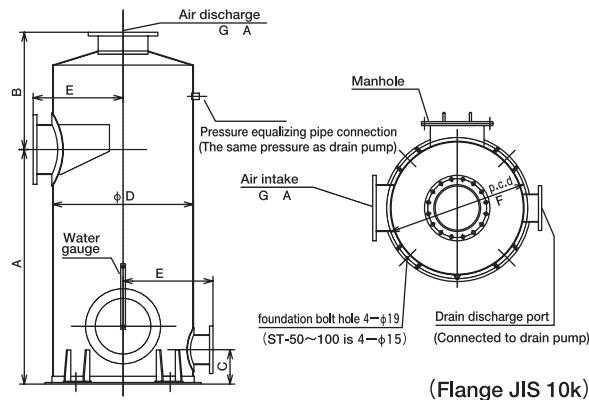
Type	Nominal Diameter	ΦA	B	ΦC
DCV- 50	50A	104	19	27
DCV- 65	65A	124	19	38
DCV- 80	80A	134	19	48
DCV-100	100A	159	19	69
DCV-125	125A	190	21	100
DCV-150	150A	220	24	110
DCV-200	200A	270	29	140

*The distance between the blower and the check valve is more than 5D.
(D=pipe diameter)

*Please install check valve to level.

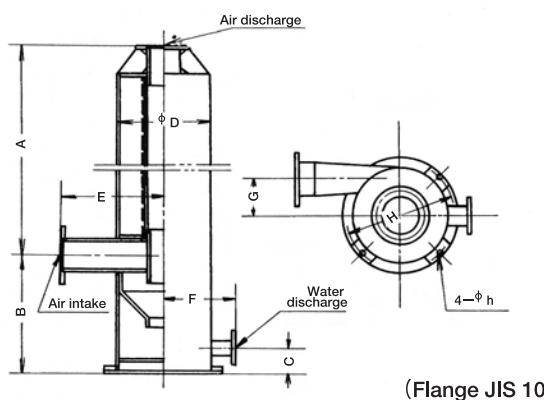
Special Accessory Size

Separator tank | ST



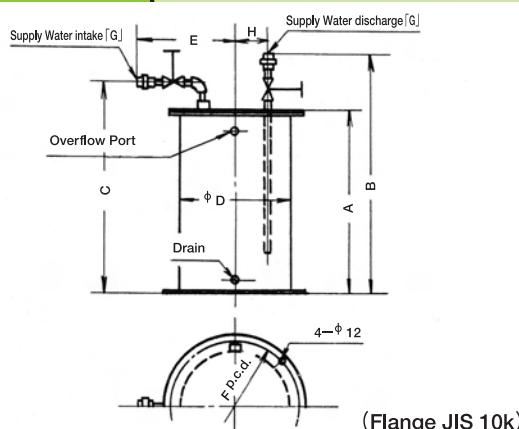
Type	A	B	C	D	E	F	G	Weight kg
ST- 50	500	250	80	200	210	250	50	
ST- 65	500	250	80	250	210	300	65	
ST- 80	600	300	100	300	250	350	80	
ST-100	700	350	100	350	250	400	100	
ST-125	800	400	120	400	280	460	125	95
ST-150	900	450	150	500	340	560	150	140
ST-200	1000	500	170	600	400	660	200	195
ST-250	1250	625	170	750	500	810	250	290
ST-300	1500	750	192	900	575	960	300	410
ST-350	1750	875	170	1050	650	1110	350	540

Wet silencer | SKM



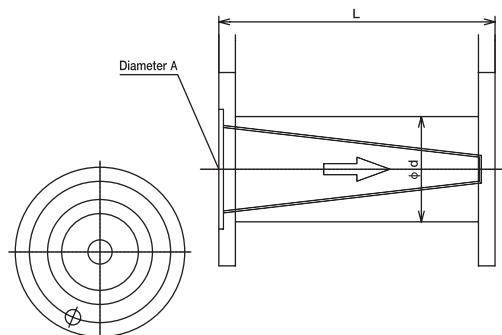
Type	Air intake and discharge diameter	Water discharge diameter	A	B	C	D	E	F	G	H	h
SKM- 50	50	40	600	360	75	180	200	200	53	230	15
SKM- 65	65	40	700	400	75	200	220	200	55	250	15
SKM- 80	80	40	900	450	75	280	250	220	89	330	15
SKM-100	100	40	1200	500	75	330	310	240	101	380	15
SKM-125	125	50	1400	640	85	400	380	280	126	450	15
SKM-150	150	50	1600	750	85	475	450	330	148	540	19
SKM-200	200	50	1800	825	85	550	500	380	160	600	19
SKM-250	250	65	2000	1000	95	670	600	460	195	720	19
SKM-300	300	65	2200	1200	95	800	750	550	236	900	19
SKM-350	350	80	2500	1350	105	900	800	600	265	1000	23
SKM-400	400	80	3000	1450	105	1030	900	670	305	1130	23

Supply Water tank | SWT



Type	A	B	C	D	E	F	H	G
SWT- 20	450	615	520	280	245	320	80	Rc ^{3/8}
SWT- 30	500	665	570	320	255	360	90	Rc ^{3/8}
SWT- 45	570	750	660	360	290	430	110	Rc ^{1/2}
SWT- 60	700	880	790	400	300	470	120	Rc ^{1/2}
SWT-100	750	950	860	450	340	520	140	Rc ^{3/4}
SWT-150	850	1070	960	500	370	570	150	Rc1

Line filter | LF



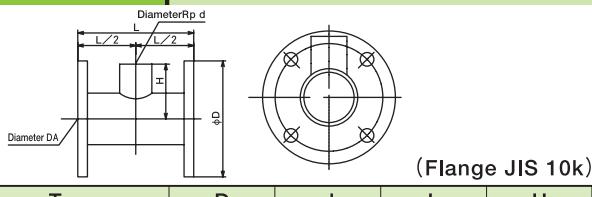
Type	A	L	d	Weight kg
LF- 50	50 ^a	180	60.5	5.0
LF- 65	65 ^a	200	76.3	7.2
LF- 80	80 ^a	250	89.1	8.2
LF-100	100 ^a	300	114.3	10.8
LF-125	125 ^a	350	139.8	15.9
LF-150	150 ^a	400	165.2	20.6
LF-200	200 ^a	450	216.3	31.0
LF-250	250 ^a	475	267.4	47.1
LF-300	300 ^a	500	318.5	56.1

LF line filter works as a strainer to catch dust in the pipe at the first stage of operations. The inline gas filter, which can catch 10µ of dust, is available. Please talk to us for more information.

Special Accessory Size

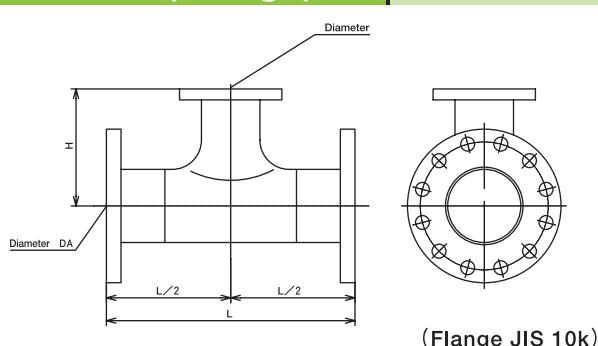
Reducers are available when installing the gate valve and the bypass valve. Please select the one appropriate to your piping. Pressure gauge fitting connector and elbow are also available. Please talk to us if you need them.

Reducer TS



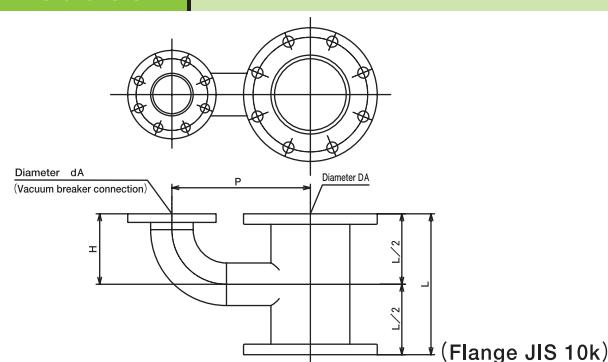
Type	D	d	L	H
TS20- 50	50	3/4	160	60
TS20- 65	65	3/4	160	70
TS20- 80	80	3/4	180	80
TS25- 50	50	1	160	70
TS25- 65	65	1	160	80
TS25- 80	80	1	180	90
TS32- 50	50	1 1/4	160	70
TS32- 65	65	1 1/4	180	80
TS32- 80	80	1 1/4	200	90
TS32-100	100	1 1/4	200	90
TS40- 50	50	1 1/2	160	70
TS40- 65	65	1 1/2	180	80
TS40- 80	80	1 1/2	200	90
TS40-100	100	1 1/2	220	100
TS50- 50	50	2	180	70
TS50- 65	65	2	180	90
TS50- 80	80	2	200	95
TS50-100	100	2	250	110
TS50-125	125	2	250	120
TS65- 80	80	2 1/2	200	95
TS65-100	100	2 1/2	220	100
TS65-125	125	2 1/2	260	100
TS65-150	150	2 1/2	280	130
TS75-100	100	3	260	90
TS75-125	125	3	260	130
TS75-150	150	3	280	130
TS75-200	200	3	280	150

Reducer (Flange) TF



Type	D	d	L	H
TF40- 50	50	40	200	120
TF40- 65	65	40	220	120
TF40- 80	80	40	250	130
TF40-100	100	40	300	160
TF40-125	125	40	300	160
TF50- 50	50	50	200	120
TF50- 65	65	50	220	120
TF50- 80	80	50	250	130
TF50-100	100	50	300	160
TF50-125	125	50	350	160
TF50-150	150	50	350	180
TF65- 65	65	65	220	120
TF65- 80	80	65	250	150
TF65-100	100	65	300	160
TF65-125	125	65	350	160
TF65-150	150	65	400	180
TF65-200	200	65	400	200
TF80- 80	80	80	250	150
TF80-100	100	80	300	150
TF80-125	125	80	370	160
TF80-150	150	80	400	200
TF80-200	200	80	400	250
TF100-100	100	100	300	150
TF100-125	125	100	400	220
TF100-150	150	100	400	220
TF100-200	200	100	420	220
TF100-250	250	100	445	250
TF125-125	125	125	400	220
TF125-150	150	125	400	220
TF125-200	200	125	450	250
TF125-250	250	125	450	250
TF125-300	300	125	520	250
TF150-150	150	150	450	220
TF150-200	200	150	450	250
TF150-250	250	150	500	280
TF150-300	300	150	520	280
TF150-350	350	150	570	300
TF150-400	400	150	500	320
TF180-200	200	180	500	250
TF180-250	250	180	500	250
TF180-300	300	180	500	300
TF180-350	350	180	500	300
TF180-400	400	180	500	320
TF180-450	450	180	500	380
TF180-500	500	180	500	380
TF200-200	200	200	500	250
TF200-250	250	200	500	250
TF200-300	300	200	500	300
TF200-350	350	200	500	300
TF200-400	400	200	500	320
TF200-450	450	200	500	380
TF200-500	500	200	500	380
TF250-350	350	250	500	330
TF250-400	400	250	500	380
TF250-450	450	250	500	380
TF250-500	500	250	500	380

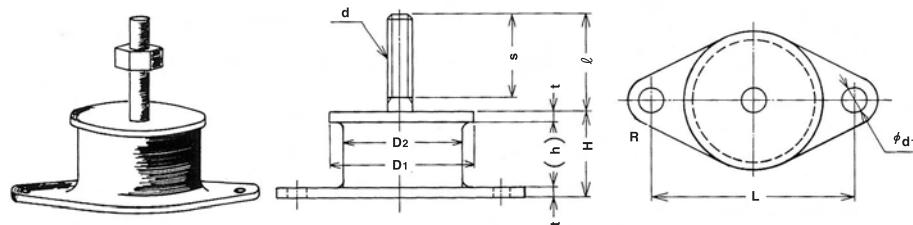
Reducer YF



Type	d	D	L	H	P
YF25- 50	25	50	135	80	200
YF25- 65	25	65	160	80	210
YF32- 80	32	80	180	90	220
YF40-100	40	100	220	110	235
YF50-100	50	100	220	120	245
YF50-125	50	125	260	130	260
YF65-125	65	125	260	150	270
YF80-150	80	150	295	170	290
YF100-150	100	150	295	200	330
YF100-200	100	200	367	200	340
YF125-250	125	250	445	250	381
YF150-250	150	250	445	280	423
YF200-300	200	300	520	375	534

Special Accessory Size

Rubber vibration insulator (U bolt, nut) installation diagram

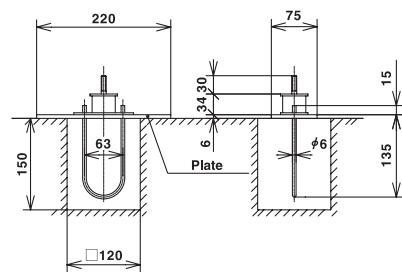


Product number	Standard size (mm)											Model
	D ₁	D ₂	H	(h)	t	d	l	S	L	d ₁	R	
EB4006	45	38	34	27.6	3.2	8	30	25	63	7	7.5	RB, RC
EB4008	55	47	40	33.6	3.2	10	35	30	78	9	10	RD
EB4011	90	80	50	41	4.5	12	48	42	117	11.5	12	RE
EB4020	80	70	40	31.0	4.5	12	48	42	108	11.5	14	RE

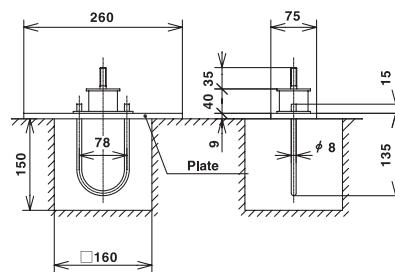
Caution: 1. The screw is a JIS3 metric coarse thread screw. (ISO metric coarse thread)

2. One hexagon nut and one spring washer are needed.

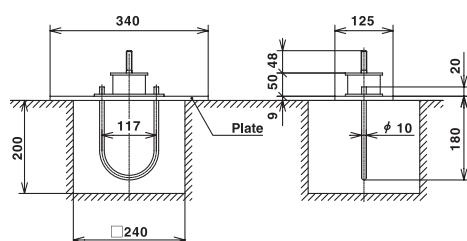
Rubber vibration insulator (U bolt, nut) installation diagram



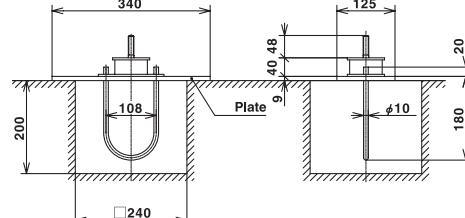
EB4006



EB4008



EB4011



EB4020

Sound Proof Box

If sound regulations in your area are strict, a sound proof box is available. (Small to large sizes available) Talk to us if you need one.

Inter cooler and after cooler are available in upright, lying down and gas use.

|Other Technical Data

Type	Weight (kg)	AxisGD ² (kg-m ²)	Torque kg-m	Cooling water ℓ/min	Lubrication oil(ℓ)	
					Bearing cover (Drive side)	Gear case
RB- 50	80	0.07	0.5	(5~8)	0.3	1.3
65	90	0.096	0.75			
RC- 80	160	0.3	1.3	(5~8)	0.5	1.8
100	190	0.41	1.8			
RD-100	295	1.5	2	8~10	Jacket type	2.4
125	360	1.96	2.5			
127	410	2.3	3			
130	410	2.75	3.5			
150	530	4.0	4			
RME-150	650	6	5	8~10	2.0 Jacket type 1.1	5.0 Air cooling type 6.5
200	750	9	7			
RE-140	890	8.65	4	10~13	2.8 Jacket type	6.0 Air cooling type 7.0
145	890	10.05	5			
150	950	12.27	6			
190	1150	14.75	7.5			
200	1150	17.55	9			
250	1350	21.65	12			
RMF-250	1700	35	14	12~15	4.5 Jacket type 2.5	10
300	2150	52	20			
RF-240	2000	85	14	15~18	10 Jacket type	26
245	2000	100	17			
250	2280	120	21			
290	2660	137	26			
295	2660	144	27			
300	3000	172	33			
350	3450	200	39	20~25	34 Jacket type 26	60
RG-350	5770	365	55			
400	6200	430	70			
450	6810	527	86			
500	9100	633	105			

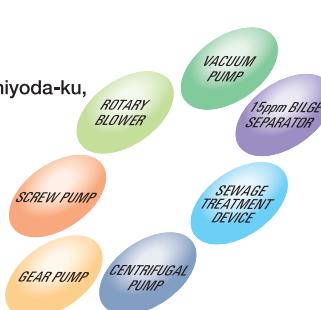
Standard paint is Munsell 7.5 BG 4/1.5. (Body and parts)

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■ For the sake of efficiency improvement, the details in this catalog are subject to change without notice.

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