

Fuji Vacuum Pumps VFZ Series

First model: Three-phase circuit standard type [10 - 60 type]

Vacuum Pumps **VFZ** Series

Three-phase circuit standard type
[10-60 type]

March 2007

**Addition of menu of
piping companion flange system**



Fuji Electric Motor Co., Ltd.



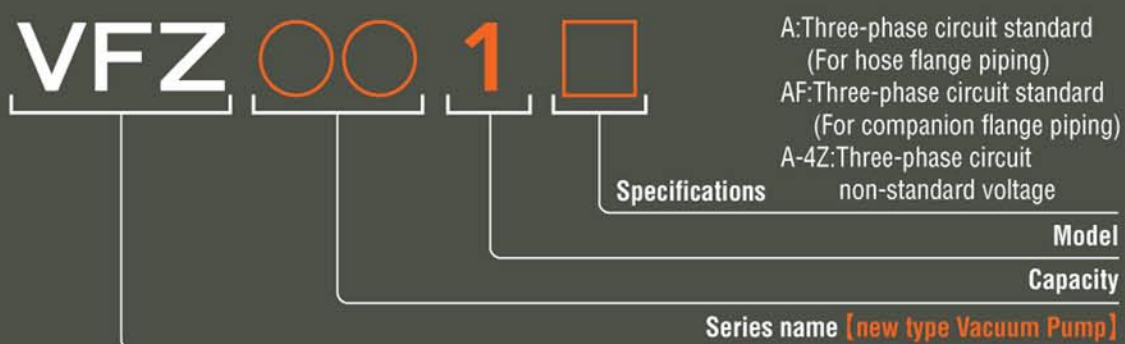
MEH711a

Full model change for returning again to the origin

Vacuum Pumps **VF2** Series

Three-phase circuit standard type
[10-60 type]

Form display



pipings



A, A-4Z: For hose flange

New



AF: For companion flange

◎RoHS directives are supported in the standard configuration.

◎Suction totally-enclosed shutoff operation is supported.
[50 - 60 type]

* Note) When using the product in suction totally-enclosed shutoff operation, be sure to remove the emblem before installation.
If the product should be operated with the emblem installed, insulation of the motor may be deteriorated, resulting in burnout.

◎Oil sealless structure in the blower section is adopted.
[40 60 type]

◎The international protection class is IP54 (motor section).

◎CE marking is provided.



Emblem



Image of appearance

Terminal box inside terminal block system

Double piping system (for hose and companion flange)

Intermediate bracket

Oil sealless
[40 - 60 type]

Motor section aluminum frame
[50 - 60 type]

Three-dimensional
high wind pressure blade

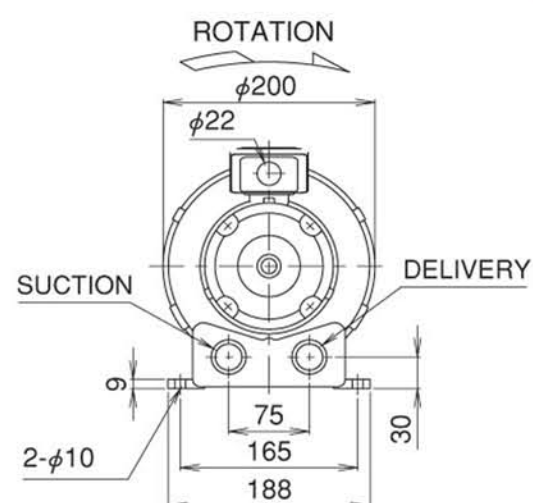
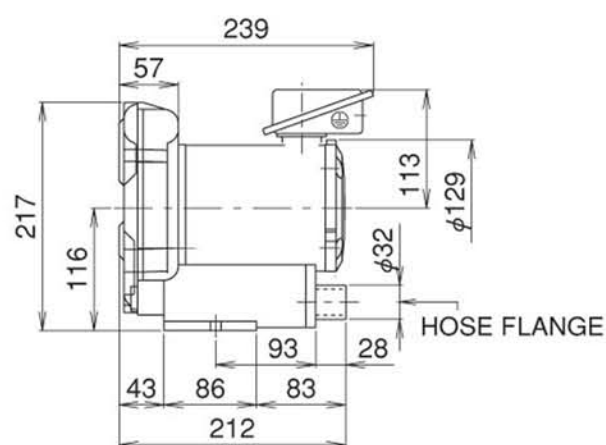
Built-in noise
reduction silencer

standard specification

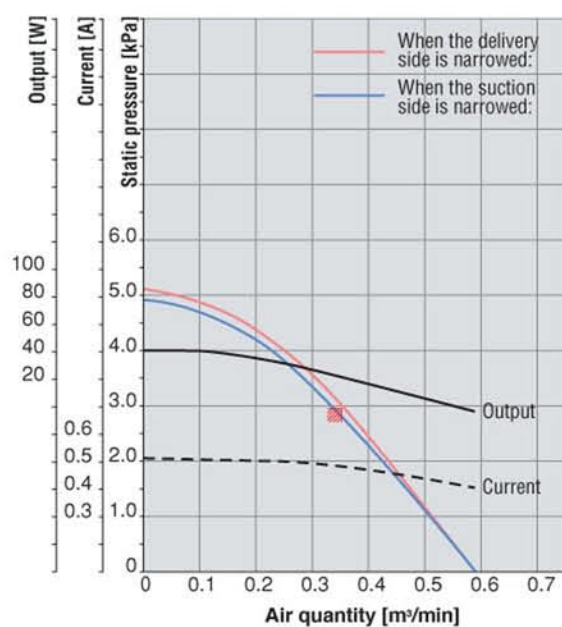
	Model	Product number code	Voltage [V]	Frequency [Hz]	Motor required maximum output [kW]	Rated current [A]	Maximum delivery pressure [kPa]	Maximum delivery air quantity [m³/min]	Rated value of static pressure [kPa]	Rated value of air quantity [m³/min]	Insulation class	Noise value [dB(A)]	Suction/delivery bore diameter [mm, inch]	Approximate mass [kg]	Starting current [A]
Standard type (For hose flange)	VFZ101A	VFZ1001	3φ 200	50/60	0.09/0.12	0.52/0.64-0.62	5.15/6.37	0.58/0.69	2.94	0.35/0.50	B	52.5/56.5	32	7.5	4.2/3.9-4.2
	VFZ201A	VFZ1002			0.17/0.28	1.4/1.4-1.4	6.67/9.02	0.90/1.09	2.94	0.64/0.84	B	57.5/62.0	32	9.0	9/8.1-9
	VFZ301A	VFZ1003			0.28/0.42	1.8/1.9-1.8	9.32/12.4	1.28/1.40	3.92	0.9/1.1	B	58.0/62.0	38	11	13/12-13.5
	VFZ401A	VFZ1004			0.55/0.85	3.1/3.7-3.6	10.4/14.1	2.0/2.5	4.90	1.45/1.95	B	65.5/69.5	50,PT1½	19	27/25-27.5
	VFZ501A	VFZ1005			1.3/1.9	5.4/7.4-6.8	14.7/19.6	3.4/4.0	6.86	2.4/3.0	F	70.5/74.5	50,PT1½	27.5	49/46-51
	VFZ601A	VFZ1006			2.3/3.4	11.5/13-12.5	21.1/27.5	4.2/5.5	9.81	3.2/4.4	F	70.0/74.5	63,PT2	43	100/88-97
Standard type (For companion flange)	VFZ101AF	VFZ1101	3φ 200	50/60	0.09/0.12	0.52/0.64-0.62	5.15/6.37	0.58/0.69	2.94	0.35/0.50	B	52.5/56.5	PS1	7.5	4.2/3.9-4.2
	VFZ201AF	VFZ1102			0.17/0.28	1.4/1.4-1.4	6.67/9.02	0.90/1.09	2.94	0.64/0.84	B	57.5/62.0	PS1	9.0	9/8.1-9
	VFZ301AF	VFZ1103			0.28/0.42	1.8/1.9-1.8	9.32/12.4	1.28/1.40	3.92	0.9/1.1	B	58.0/62.0	PS1 1/4	11	13/12-13.5
	VFZ401AF	VFZ1104			0.55/0.85	3.1/3.7-3.6	10.4/14.1	2.0/2.5	4.90	1.45/1.95	B	65.5/69.5	PS1 1/2	19.5	27/25-27.5
	VFZ501AF	VFZ1105			1.3/1.9	5.4/7.4-6.8	14.7/19.6	3.4/4.0	6.86	2.4/3.0	F	70.5/74.5	PS1 1/2	28.0	49/46-51
	VFZ601AF	VFZ1106			2.3/3.4	11.5/13-12.5	21.1/27.5	4.2/5.5	9.81	3.2/4.4	F	70.0/74.5	PS2	44.0	100/88-97
Non-standard voltage product	VFZ101A-4Z	VFZ1011	3φ 380 400 415	50/60	0.09/0.12	0.26-0.26-0.27/0.31-0.3	5.15/6.37	0.58/0.69	2.94	0.35/0.50	B	52.5/56.5	32	7.5	2-2.1-2.1/1.9-2.1
	VFZ201A-4Z	VFZ1012			0.17/0.28	0.6-0.63-0.66/0.7-0.68	6.67/9.02	0.90/1.09	2.94	0.64/0.84	B	57.5/62.0	32	9.0	3.6-3.9-4/3.4-3.7
	VFZ301A-4Z	VFZ1013			0.28/0.42	0.86-0.9-0.95/0.95-0.9	9.32/12.4	1.28/1.40	3.92	0.9/1.1	B	58.0/62.0	38	11	5.9-6.5-6.7/6.1-6.7
	VFZ401A-4Z	VFZ1014			0.55/0.85	1.7-1.6-1.5/1.9-1.8	10.4/14.1	2.0/2.5	4.90	1.45/1.95	B	65.5/69.5	50,PT1½	19	13-13.5-14/12.5-14
	VFZ501A-4Z	VFZ1015			1.3/1.9	2.6-2.7-2.8/3.7-3.4	14.7/19.6	3.4/4.0	6.86	2.4/3.0	F	70.5/74.5	50,PT1½	27.5	23.3-24.5-25.5/23-25.5
	VFZ601A-4Z	VFZ1016			2.3/3.4	5.6-5.8-6/6.5-6.3	21.1/27.5	4.2/5.5	9.81	3.2/4.4	F	70.0/74.5	63,PT2	43	47.5-50-52/44-48.5

The noise is the value at a position of 1.5 m in an open state.

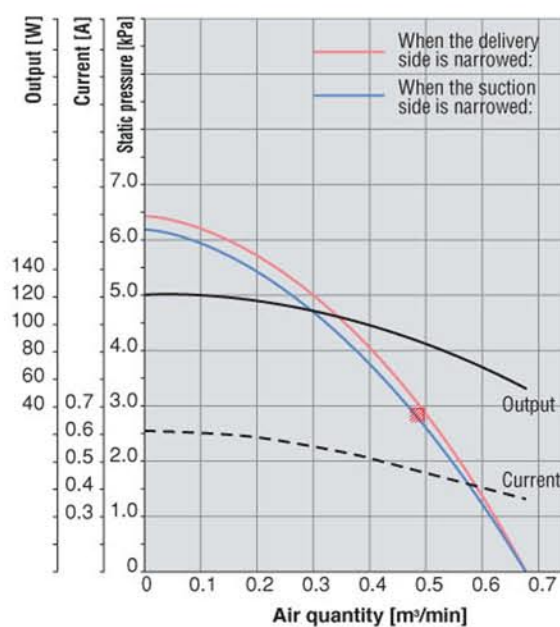
VFZ101A VFZ101A-4Z



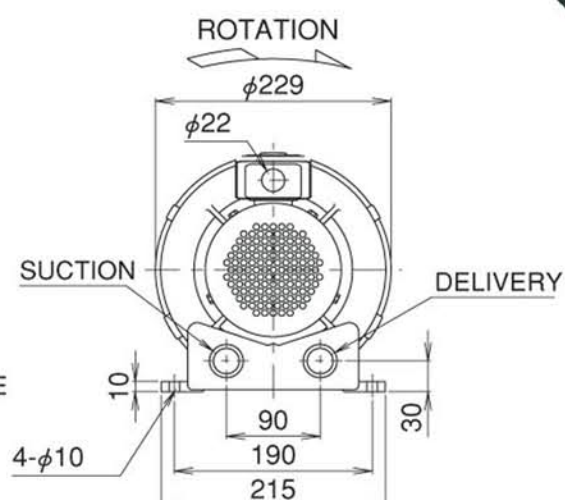
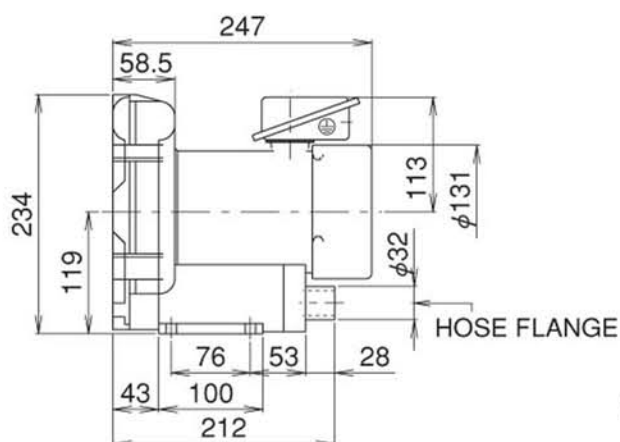
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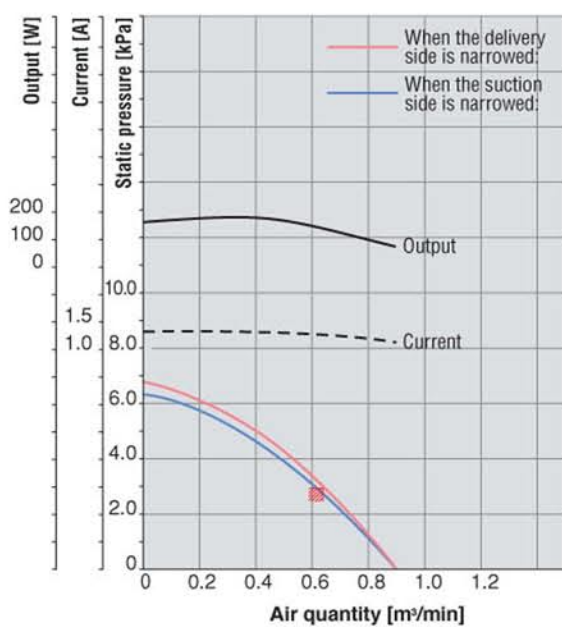
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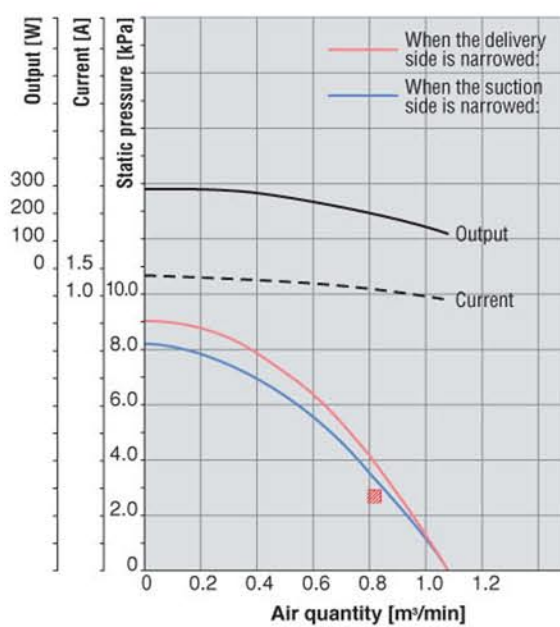
VFZ201A VFZ201A-4Z



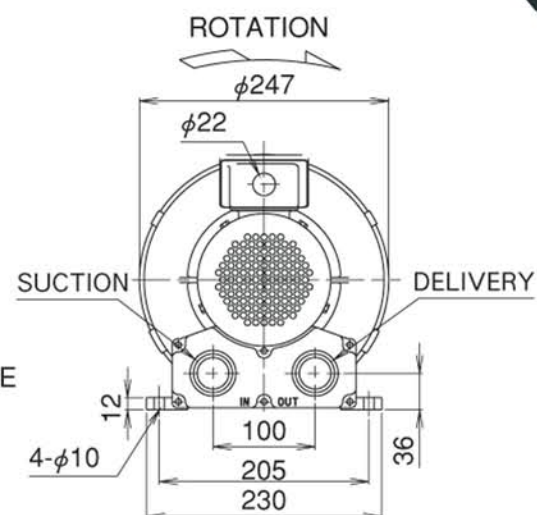
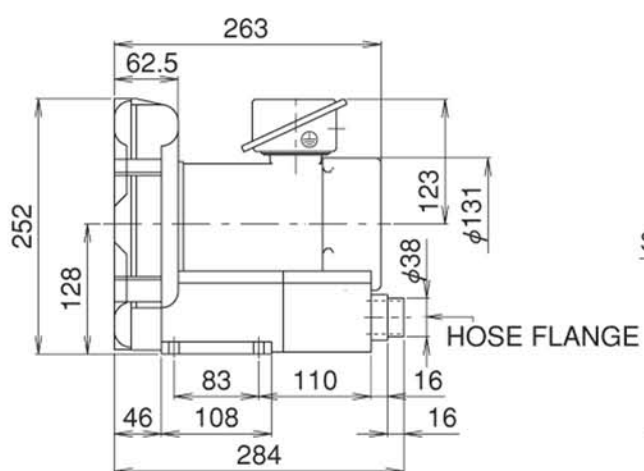
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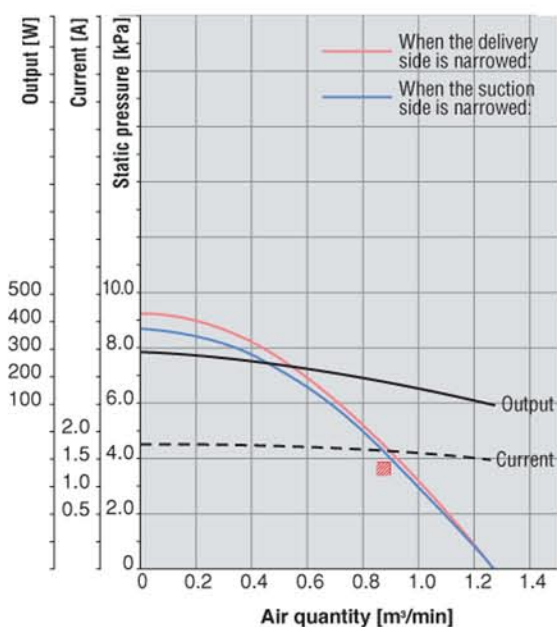
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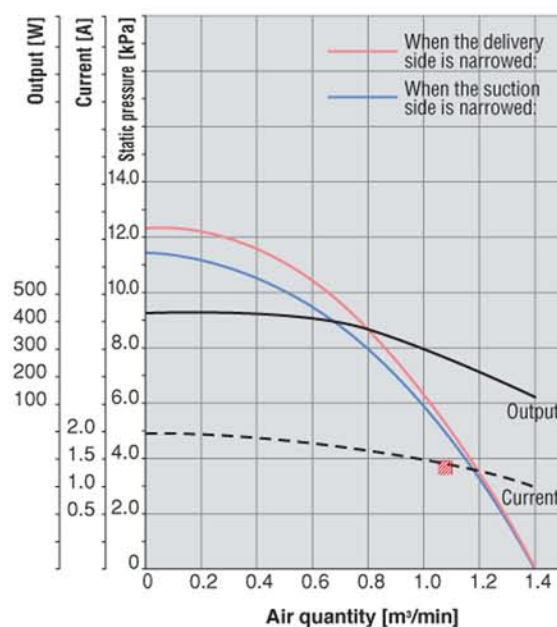
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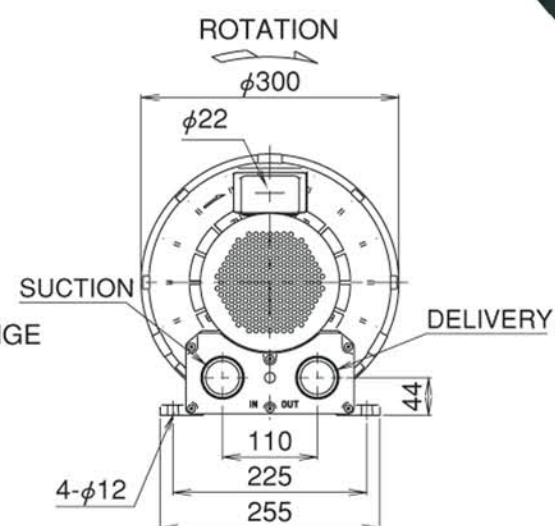
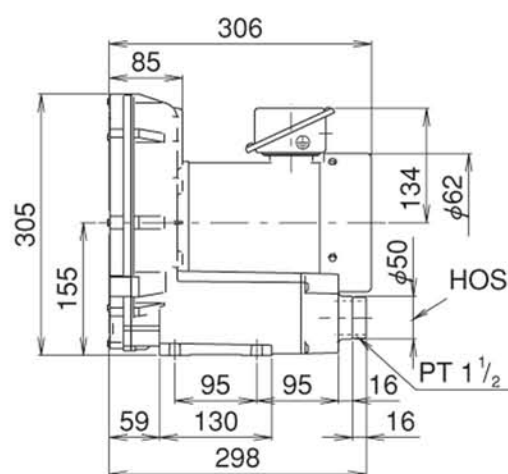
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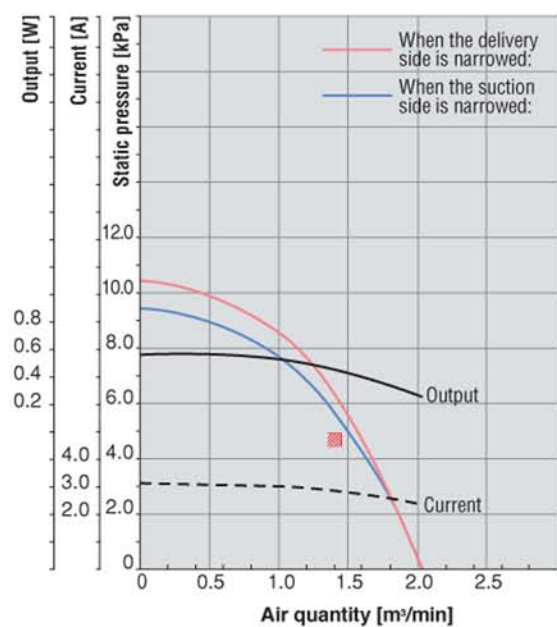
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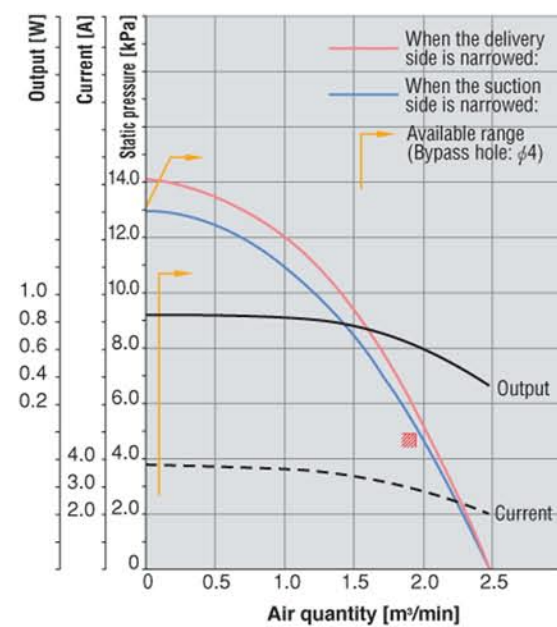
VFZ401A VFZ401A-4Z



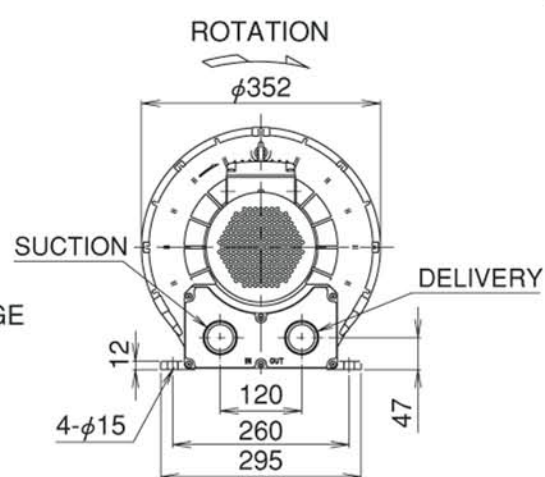
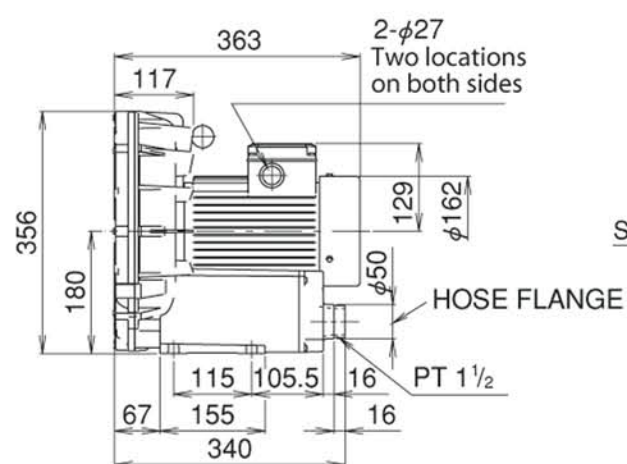
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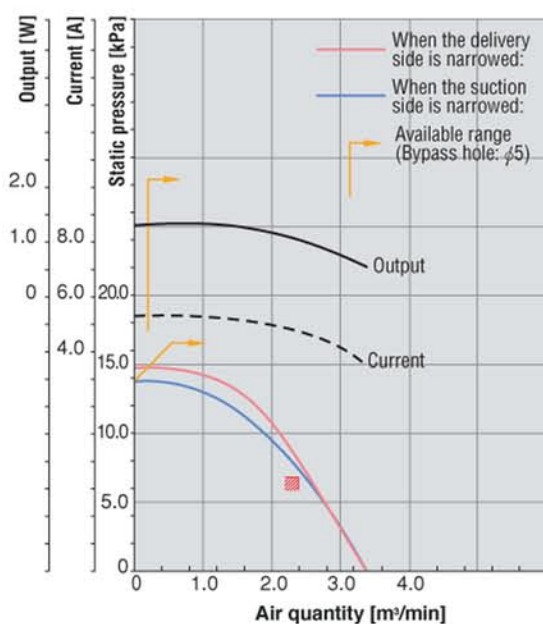
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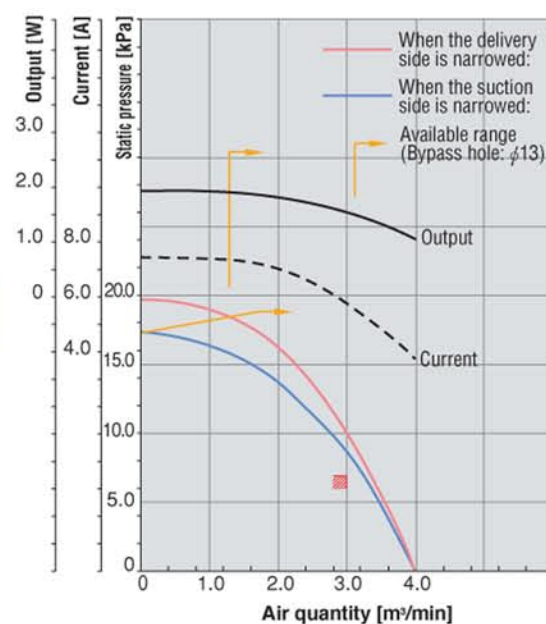
VFZ501A VFZ501A-4Z



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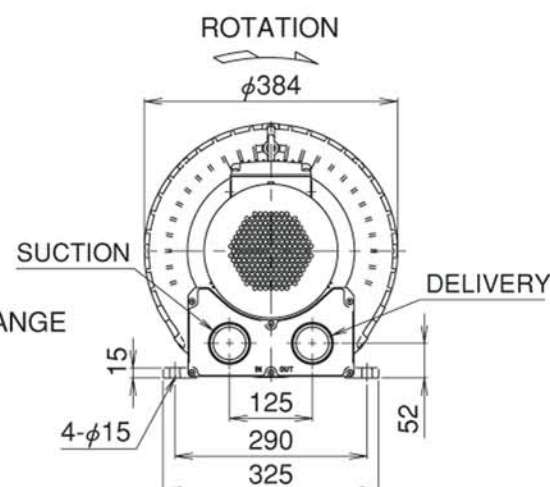
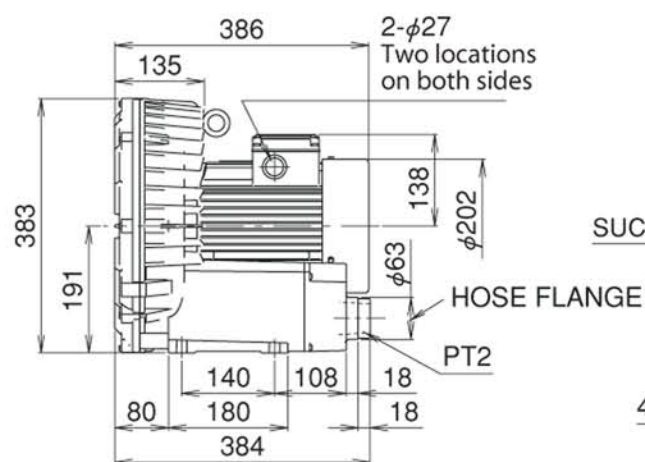


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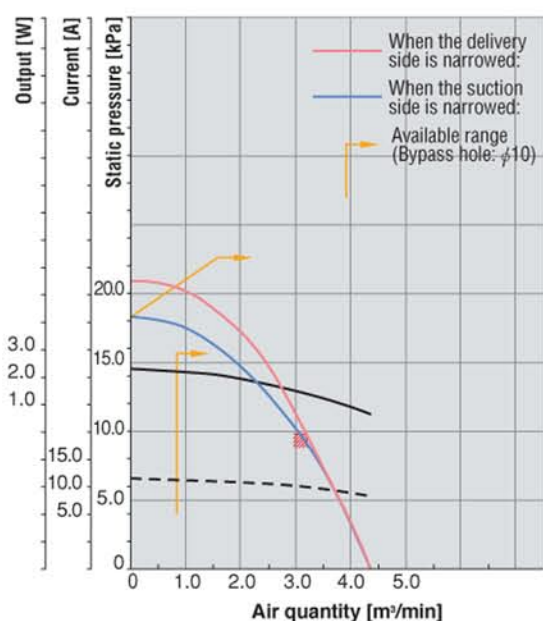


* Note) When using the product for suction totally-enclosed shutoff operation, be sure to remove the emblem.

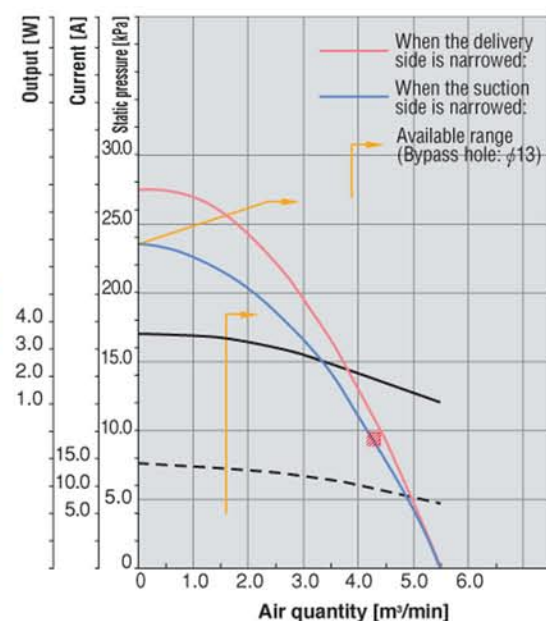
VFZ601A VFZ601A-4Z



50Hz



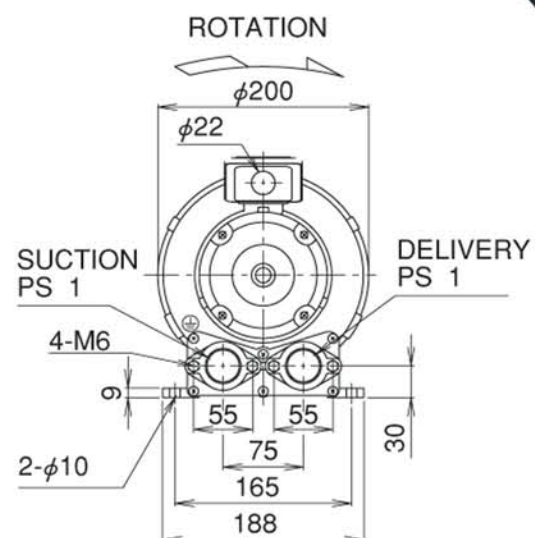
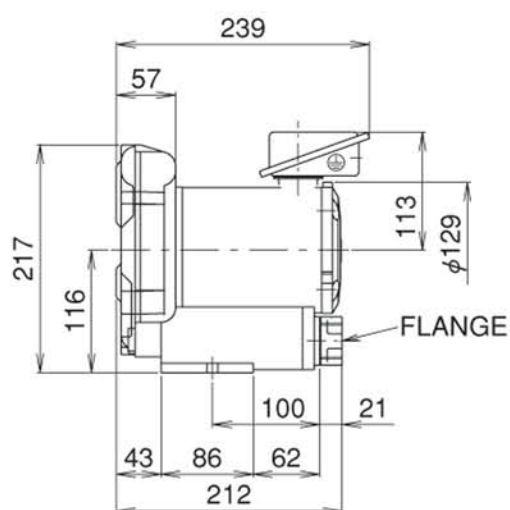
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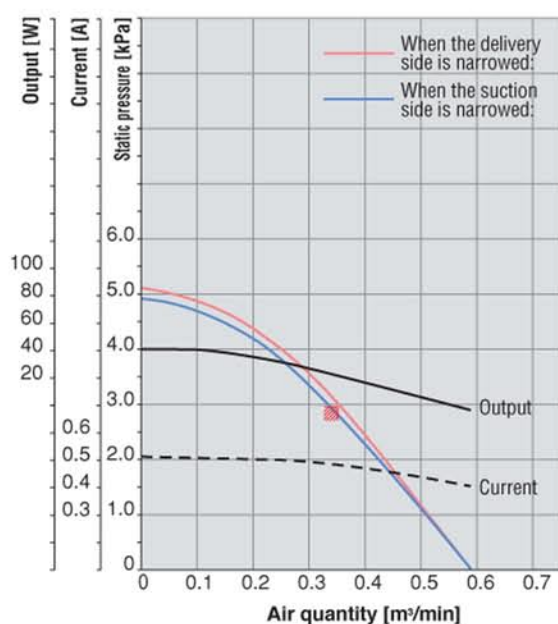
* Note) When using the product for suction totally-enclosed shutoff operation, be sure to remove the emblem.

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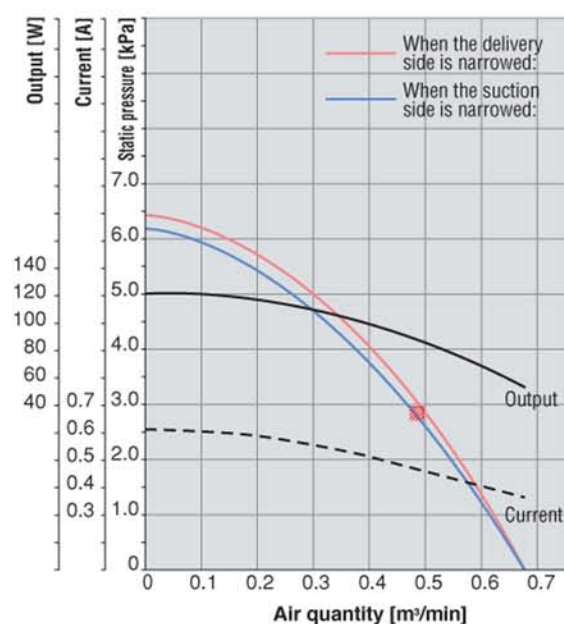
VFZ101AF



50Hz

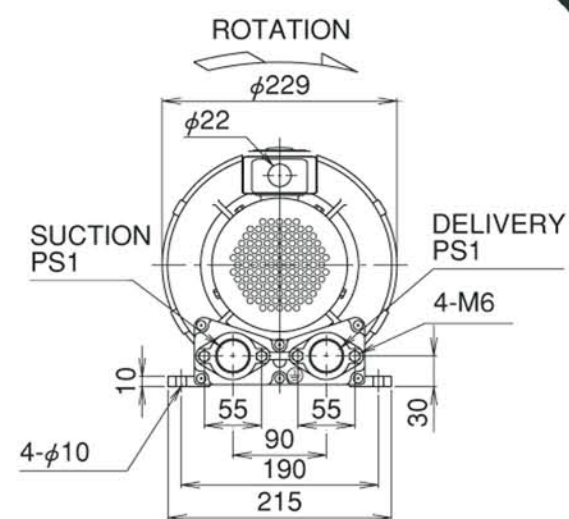
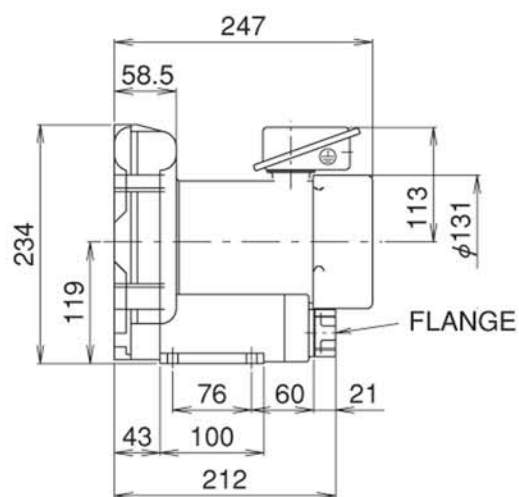


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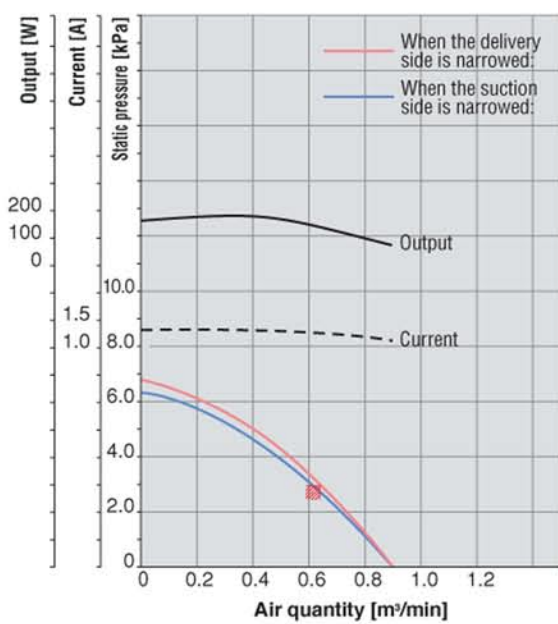


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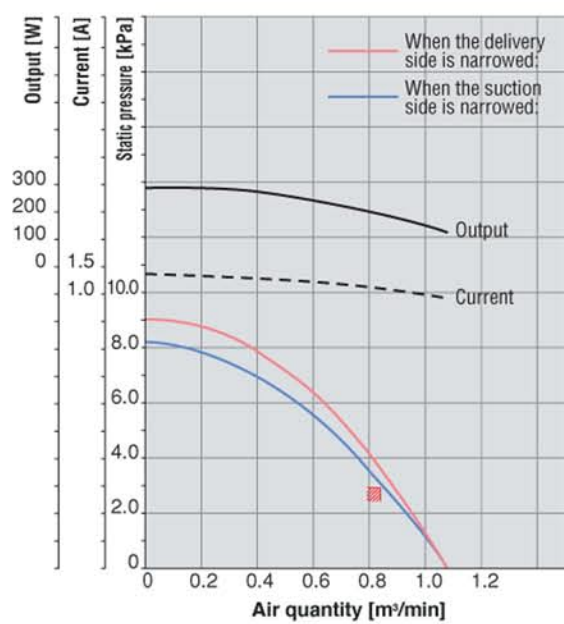
VFZ201AF



50Hz

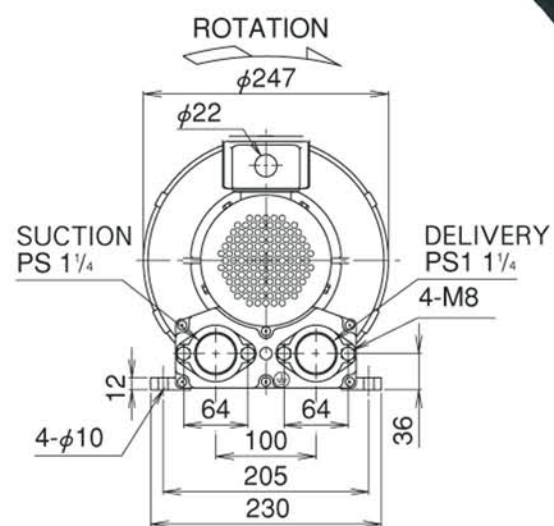
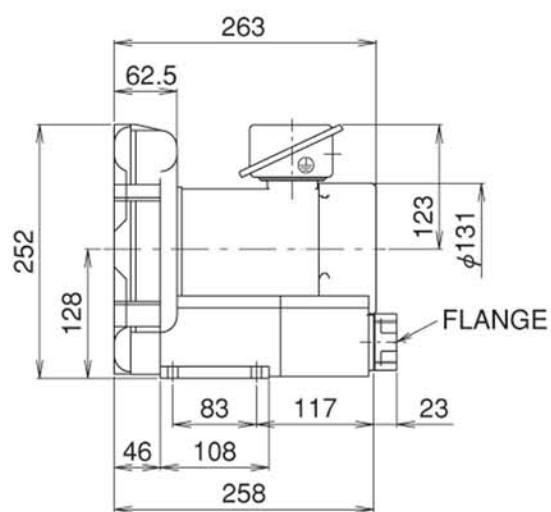


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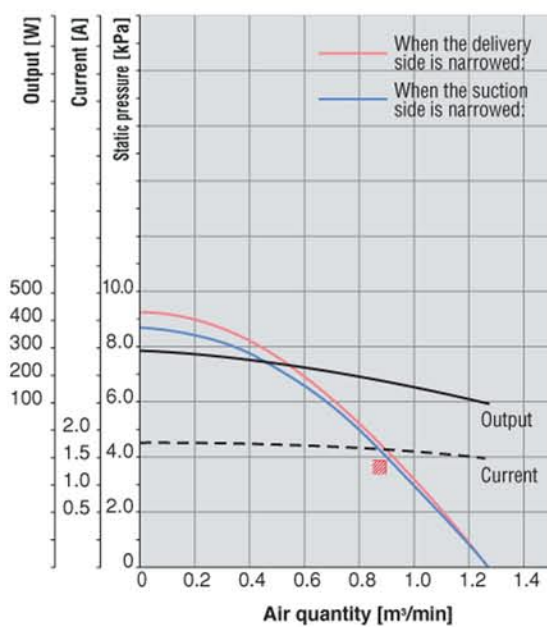


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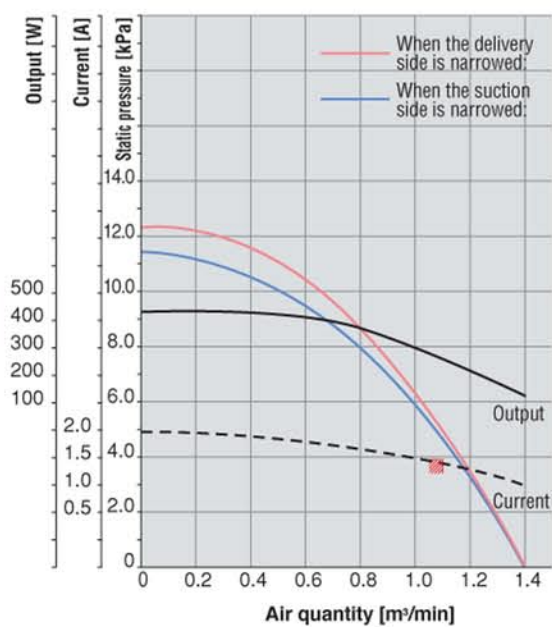
VFZ301AF



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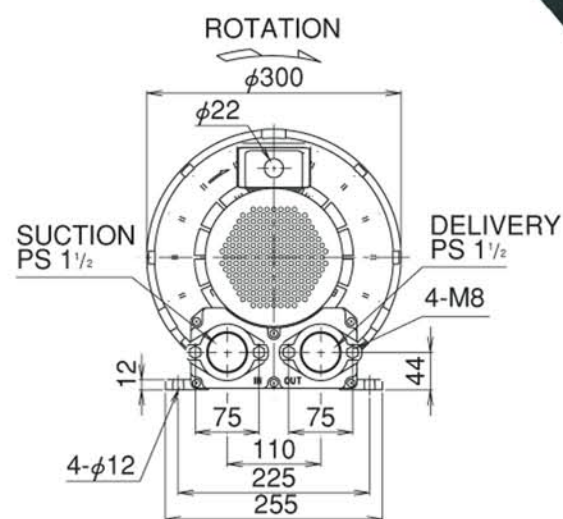
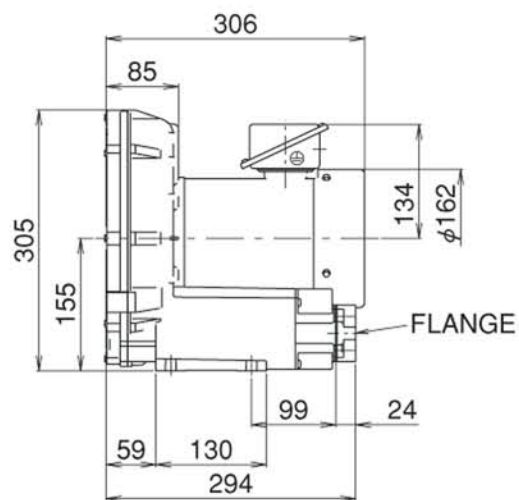


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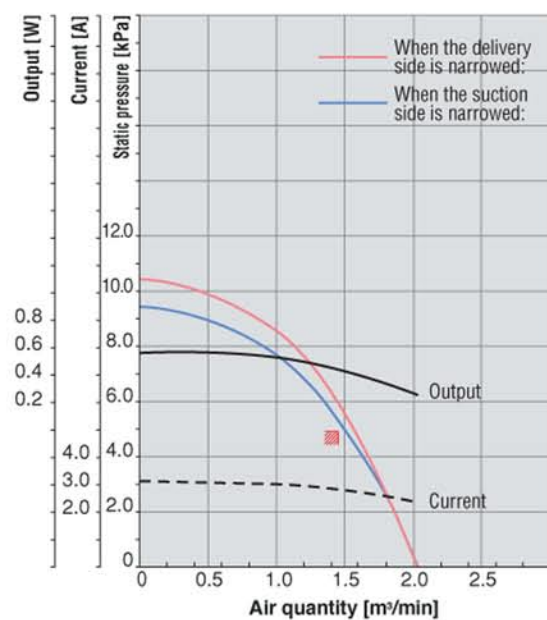


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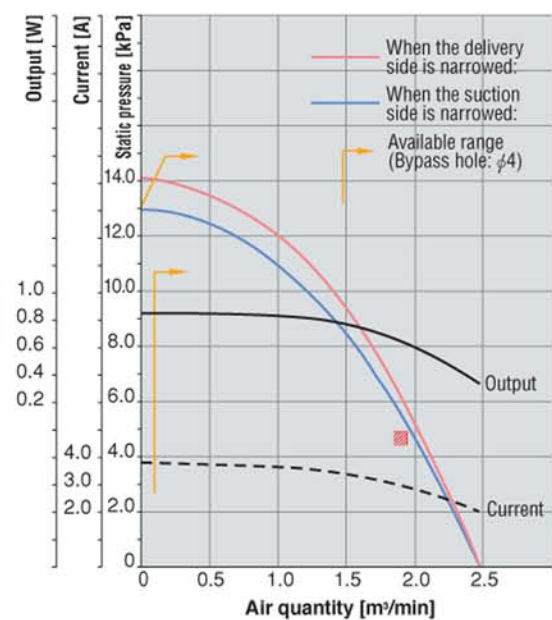
VFZ401AF



50Hz

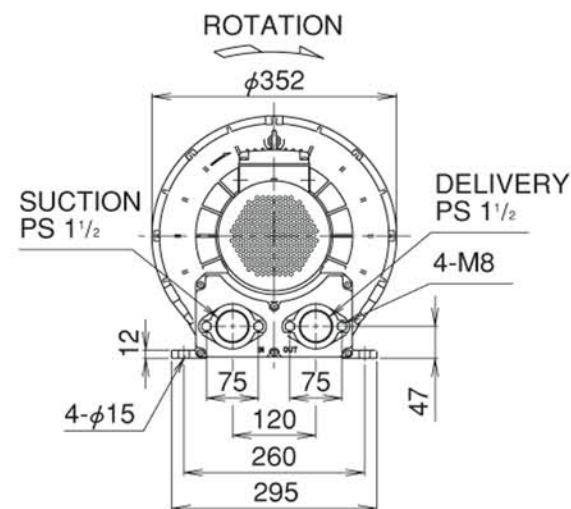
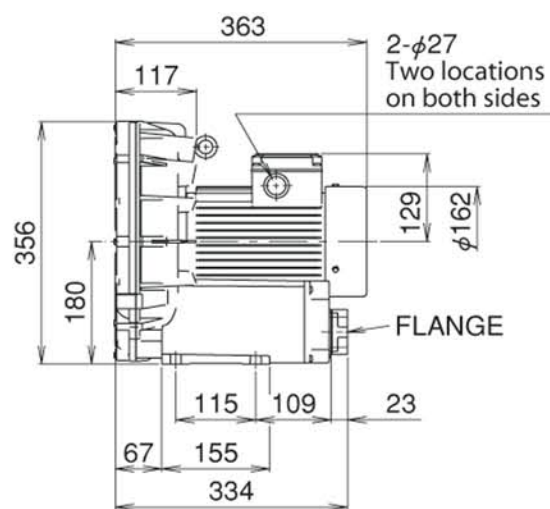


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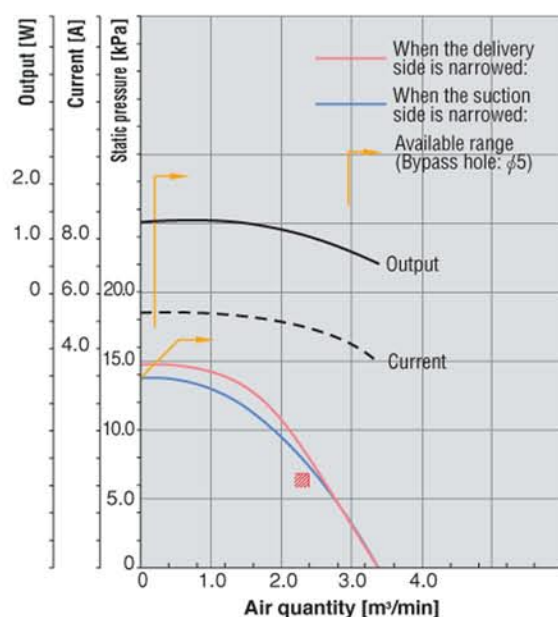


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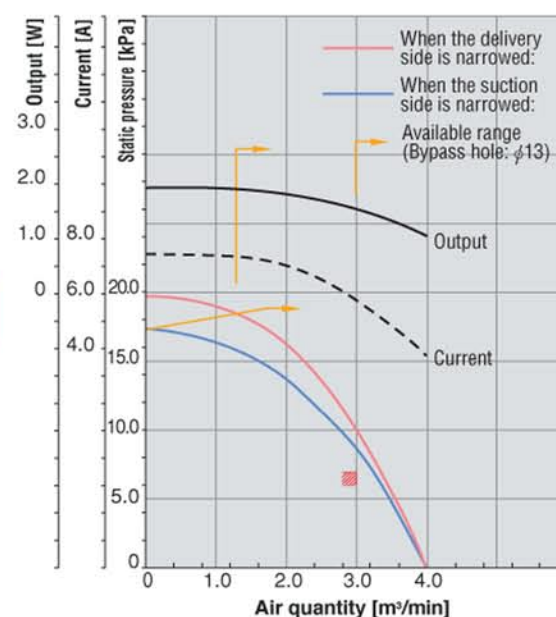
VFZ501AF



50Hz



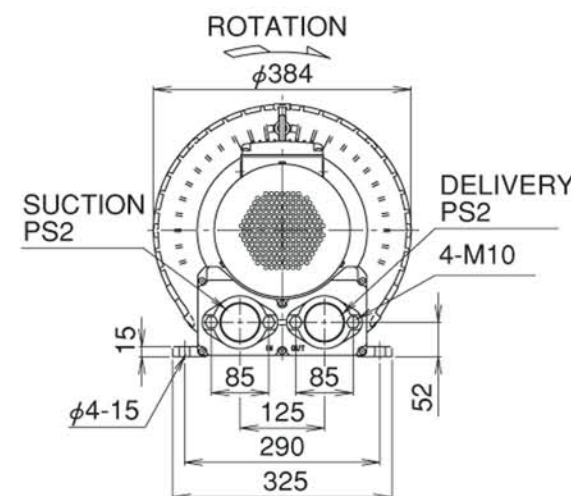
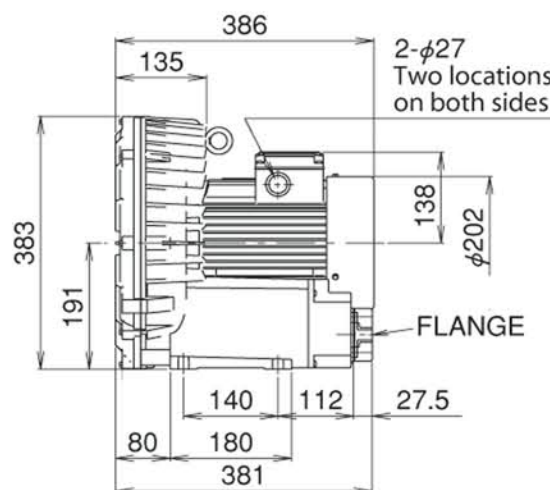
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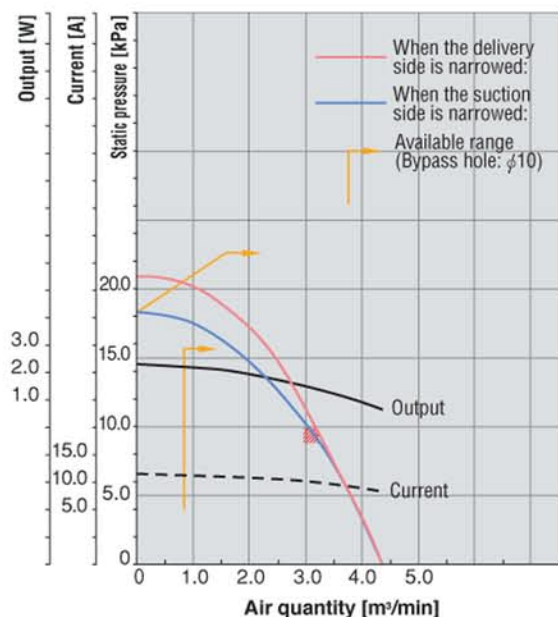
* Note) When using the product for suction totally-enclosed shutoff operation, be sure to remove the emblem.

New

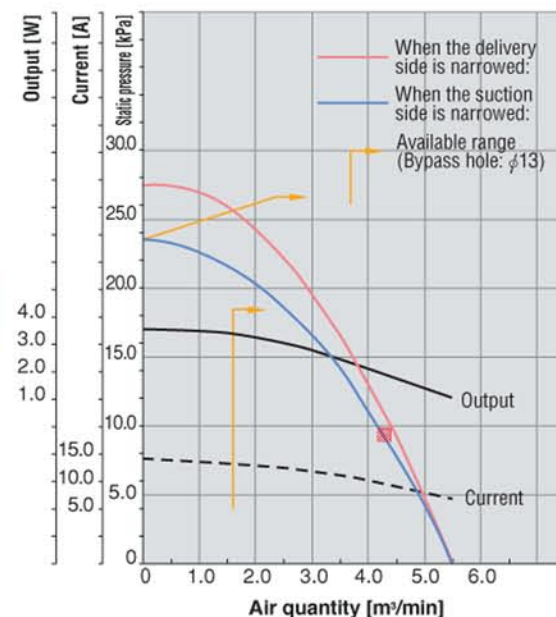
VFZ601AF



50Hz



60Hz

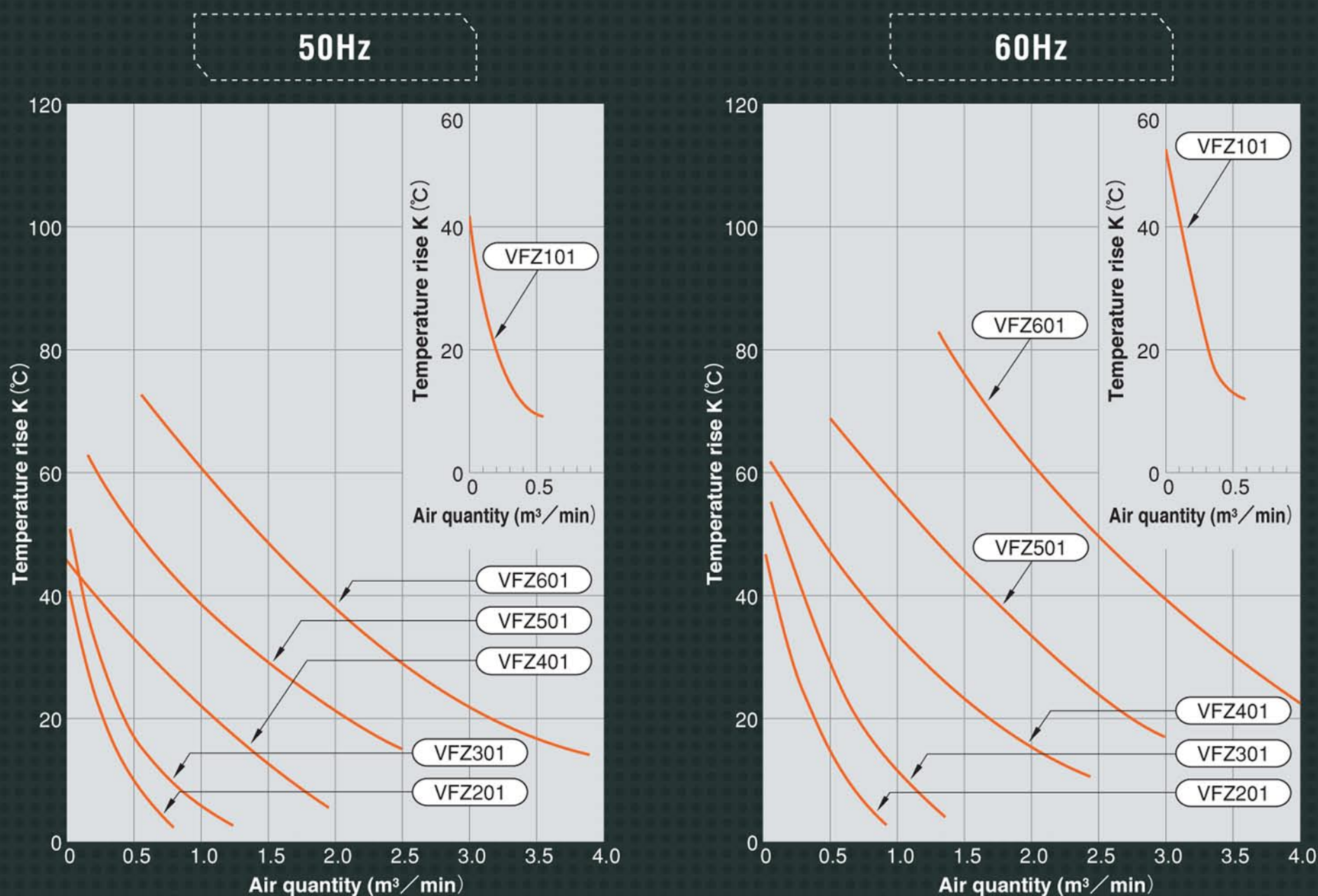


* Note) When using the product for suction totally-enclosed shutoff operation, be sure to remove the emblem.

attention in use

- Use this vacuum Pump at an ambient temperature of -10°C to $+40^{\circ}\text{C}$ and at a relative humidity of 80% or less.
- Air that passes through inside the blower may become very hot. Take sufficient care particularly when performing nearly shutoff operation. (Refer to Fig. 1.)
- When using the product in delivery totally-closed shutoff operation, be sure to prepare a bypass hole near the blower delivery port. (VFZ40 - 60)
- When using the product in suction totally-closed shutoff operation, be sure to remove the supplied emblem from the main body before installation. (VFZ50 - 60)
- When sucking dust and foreign matter, install a filter or the like to prevent them from entering the inside of the blower.
- Do not suck liquid or corrosive gas into the blower.
- Never use the product near flammable, combustible or explosive material because it is very dangerous.
- Horizontal installation is standard. When using another type of installation, be sure to place the blower section facing down. (Refer to Fig. 2.)

Fig. 1 Exhaust gas temperature rise curve



*Note) Since the temperature rise curves shown above have some variation, consider them only as reference values.

Fig. 2 Installation orientation

