Instruction Manual



RING BLOW VFZ Standard Model Series

- Read the instruction manual carefully before you install, put into operation and maintain the Ring Blow and handle it properly.
- For the sake of safety, never modify the Ring Blow. We take no responsibility for the troubles caused by repairing or modifying the product.
- Hand over this instruction manual surely to the end users, who actually install, operate and maintain the Ring Blow.
- After having read the instruction manual, keep it at the place, where can be accessed by the persons, who use it.
- The specification of the product may be changed without prior notification.

Atai Fuji Motor Co., Ltd.

Introduction

Thank you for your purchasing of the Ring Blow.

It is required for the Ring Blow for give full play to its performance, for preventing troubles from occurring and for continuing its satisfactory operation for a long period not only to maintain and inspect it after putting it into service but also to handle it properly in every stage after its delivery until its actual operation.

This instruction manual illustrates the essential items for handling the Ring Blow.

If you find any question, please inquire of our special agent, dealer or business office about it.

Cautions for safety ------

- Read this instruction manual and the other attached documents carefully before you use (install, transport, maintain, inspect etc.) the Ring Blow and then use it properly. Acquire first the machine knowledge, safety information and all caution items and use the machine. Keep this instruction manual at the place, where can be accessed by the persons, who use it.
- The ranks for safety items are classified into alarms and cautions and described in this instruction manual.



: those items, for which the possibility of human **DEATH** and **HEAVY INJURY** are feared, if they are mishandles.



those items, for which hazardous condition may occur and **MEDIUM HAZARD** and **SLIGHT INJURY** are feared and/or material damage are feared, if they are mishandles.

Even those items marked with situation.



may lead to serious results depending upon the

As every item describes serious contents, be sure to keep it always.

Furthermore, the following symbols are applied according to necessity in this instruction manual, so that the essential points of indication can be grasped at a glance.

Symbol	Meaning	
\bigcirc	Notification of a general prohibition	
Ð	Always connect a protective earthing terminal!	
	Take care of an electrical shock!	

Symbol	Meaning
	Do not touch!
	Take care of ignition!
	Take care of a high temperature!

	Alarm
	• The works of transport, installation, piping, wiring, operation, control, maintenance and inspection may only be executed by the experts, who are well skilled of handling the Ring Blows. Otherwise, an ELECTRIC SHOCK , an INJURY or a FIRE is feared.
General	 Hot line works are forbidden. Work always with the power supply switched off. Otherwise, an ELECTRIC SHOCK or a FIRE is feared.
	 Do not use the Ring Blow in an explosive atmosphere. Otherwise, an INJURY or a FIRE is feared.
Installation	 Ground the protective earthing terminal surely. Otherwise, an ELECTRIC SHOCK or a FIRE is feared.
Installation, Adjustment	• In the Ring Blow is used as mounted on a ceiling or a wall, its fall is feared depending on its mounting condition. Observe the catalog or instruction manual for the details of usable range. An INJURY due to a FIRE is feared.
	 Connect it to the power supply cable according to the wiring diagram within terminal box and the instruction manual. An ELECTRIC SHOCK or a FIRE due to incorrect connection is feared.
	 Use it always at the voltage and frequency indicated in the nameplate on its main body. A BURNOUT or a FIRE is feared.
Piping, Wiring	 Do not bend, stretch or pinch the power supply cable and the lead wire for the Ring Blow by force. An ELECTRIC SHOCK or a FIRE is feared.
	 Restore the cover for terminal box to the original position after completion of every work. Otherwise, an ELECTRIC SHOCK is feared.
	• Dismount the emblem for middle bracket surely before installing the main body. Otherwise, a BURN or an INJURY is feared.
	 Never access or touch any rotating body (cooling fan etc.) during running. A CATCH-IN on an INJURY is feared.
Operation	 Switch off the power supply always in case of power failure. An INJURY is feared due to sudden work of the machine at restoration of power supply.
	• Switch off the power supply always when the Ring Blow is stopped because the protection unit belonging to it worked. An INJURY is feared due to sudden work of Ring Blow at recovery of the protection unit.

A Caution		
	• Do not use the Ring Blow out of the specifications described in the nameplate, catalog and instruction manual. An ELECTRIC SHOCK , an INJURY or a DAMAGE is feared.	
	• Do not use the damaged Ring Blow. An ELECTRIC SHOCK , an INJURY or a FIRE is feared.	
General	• Do not insert any foreign material or finger into the opening (opening in fan cover, admission and discharge ports) of Ring Blow. An ELECTRIC SHOCK an INJURY or DAMAGE is feared.	
	• We take no responsibility for modification by the customer, as they are out of the scope of our responsibility.	

	A Caution
	• Take full care of fall and tumbling down during transportation. An INJURY is feared.
Transportation	 Lift up the Ring Blow equipped with a hanger bolt always after getting rid of loosening of the hanger bolt. But after mounting the Ring Blow on a machine, do not lift up the entire machine using the mounted hanger bolt. Verify the mass of motor based in the nameplate, package box, outline drawing, catalog or the like before lifting it and do not lift any more mass than the rated load of lifting tool. The gravity center of the Ring Blow is located at motor side, therefore, the Ring Blow inclines to one side during lift-up. Exert tension gradually on the wire and do not lift up suddenly. This lift-up work may only be executed by the qualified workers. Do not stay under the Ring Blow during the lifting work. An INJURY or FIRE caused by FALL or TUMBLING DOWN is feared for all of these cases. Ambient temperature should be kept -20°C~+60°C during transportation.
	 Open the package after verifying the top and bottom of product. An INJURY is feared.
Opening the Package	 Open the wooden frame package taking care of the used nails. Wear glove when opening the wooden package. An INJURY is feared.
	 Verify if the product is just the ordered one. An INJURY, DAMAGE or a FIRE due to use of the incorrect product is feared.
	• Never place any inflammable material around the Ring Blow. A FIRE is feared.
	 Do not place any obstacle against ventilation around the Ring Blow. A BURN or a FIRE caused by abnormal heating due to disturbed cooling is feared.
Installation, Adjustment	 Fasten the foundation bolts surely. Insufficient fastening may cause an INJURY and DAMAGE due to shift of the Ring Blow.
	• Never get on or hang on the Ring Blow. An INJURY is feared.
	 Ring Blow shell be always mounted on suitable place in order to see its nameplate easily and do not put any obstacle in front of it. Do not dismount the nameplate.
	 Construct the piping and wiring according to the technical standard for electrical equipment and the internal wiring provisions. A BURNOUT or a FIRE is feared.
	 For wiring to the terminal base in terminal box, fasten the terminal screws with a torque of 1.0 to 1.3 N • m. Otherwise, DAMAGE of the terminal box is feared.
Piping, Wiring	 For measuring the insulation resistance, do not touch the terminal. An ELECTRIC SHOCK is feared.
	• No protection unit belongs to the Ring Blow except for some models. The installing of overcurrent protection unit is obliged based upon the technical standard for electrical equipment. For preventing a FIRE and DAMAGE due to a motor burnout, we recommend to install the protection unit other then overcurrent protection units (including a ground fault interrupter) based upon consulting with us.
Operation	• If any abnormality occurs, stop the operation immediately and switch off the power supply. An ELECTRIC SHOCK an INJURY or a FIRE is feared.
	 The Ring Blow becomes considerably hot during its operation. Take care not to touch it by your hand or body. A BURN is feared.
	 Do not insert your finger or any others material into the opening of Ring Blow. An ELECTRIC SHOCK an INJURY or FIRE is feared. Wear stopples during operation to shut the big noise.

\land Caution		
Maintenance , Inspection	 Do not touch the terminal for measuring the insulation resistance. An ELECTRIC SHOCK is feared. 	
	 The Ring Blow becomes considerably hot during its operation. Take care not to touch by your finger and body. A BURN is feared. 	
	 Take care, if you use a solvent or the like for cleaning the Ring Blow. A POISONING is feared. Further, the use of thinner or benzene may cause discoloring or exfoliation of coating on the Ring Blow. 	
Disassembly, Repair, Modification	 The repair, disassembling and modification shall be executed only by experts. An INJURY due to the edge of Impeller or key groove, an ELECTRIC SHOCK or a FIRE is feared. 	
Disposal	Handle the Ring Blow as a general industrial waste, when it is be disposed.	

Package Opening and Product Verification ------

When the Ring Blow has been delivered, verify the following points.

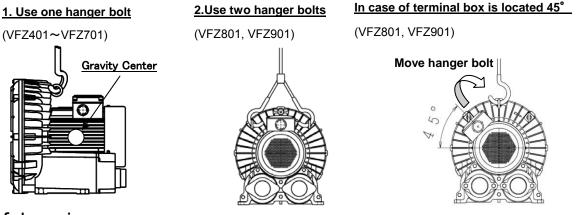
A Caution		
\triangle	1.	Verify the top and the bottom of product and open the package. Otherwise, an INJURY is feared.
\triangle	2.	Open the wooden frame package taking care of the used nails. Wear glove when opening the wooden package. An INJURY is feared.
\bigwedge	3.	Verify if the delivered product is just the ordered one. (Check the output voltage, frequency, model etc. with the description on face plate.) An INJURY , DAMAGE or a FIRE is feared, if an incorrect product is used.
	4.	Verify if any part is damaged and if any bolt or nut is loosened during the transport.

Transport-

Take care of the following points for transporting the Ring Blow.

▲ Caution		
\bigotimes^{\land}	 Take full care of fall and tumbling down during transportation. An INJURY is feared. Lift up the Ring Blow equipped with a hanger bolt always after getting rid of loosening of the hanger bolt. But after mounting the Ring Blow on a machine, do not lift up the entire machine using the mounted hanger bolt. Verify the mass of motor based in the nameplate, package box, outline drawing, catalog or the like before lifting it and do not lift any more mass than the rated load of lifting tool. The gravity center of the Ring Blow is located at motor side, therefore, the Ring Blow inclines to one side during lift-up. Exert tension gradually on the wire and do not lift up suddenly. This lift-up work may only be executed by the qualified workers. Do not stay under the Ring Blow during the lifting work. An INJURY or FIRE caused by FALL or TUMBLING DOWN is feared for all of these cases. Ambient temperature should be kept -20°C~+60°C during transportation. 	

Lifting method of the Ring Blow



Safekeeping-

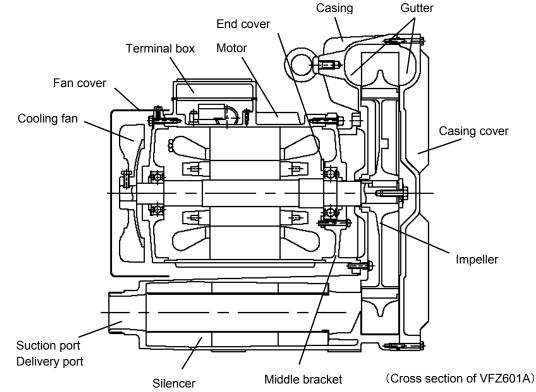
Take care of following points for safekeeping the Ring Blow or suspending its operation for a long period.

1. For safekeeping in the packed.

Keep the Ring Blow in an indoor dry place (Ambient temperature: -20°C~+50°C). Do not keep it on such a place, as is exposed to water or dust, or with vibration, or place it on a bare ground directly.

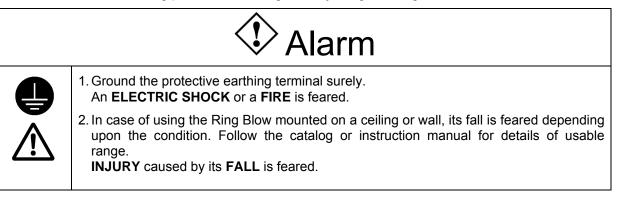
- 2. For keeping it in the installed condition.
 - (a) Cover the entire Ring Blow with a sheet for protecting it from invasion of moisture foreign materials.
 - (b) Keep the Ring Blow with its hanger bolt mounted. If it is kept with the hanger bolt dismounted, water may sometimes invade into through the screw hole.
 - (c) Run the Ring Blow for some minutes keeping it and every 3 months, for protecting the bearings from rusting.
 - (d) If the operation of Ring Blow is suspended for a long period, measure the insulation resistance of its winding every 6 months and verify that it is kept at higher than 1 M Ω . If the resistance is not higher then 1 M Ω at normal temperature, such measures are required as to dry the winding.
 - (e) Keep the Ring Blow in an indoor dry place (Ambient temperature: -20°C~+50°C).

Name of parts-----

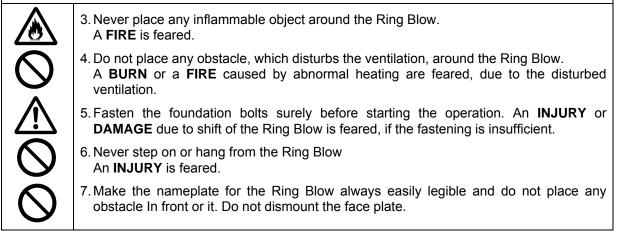


Installation and Piping -----

1 Take care of the following points for installing and adjusting the Ring Blow.

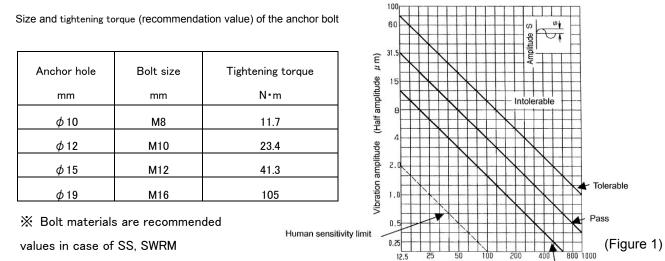


A Caution



2 Take care of the following ranges for the installation site and the gas to be transported.

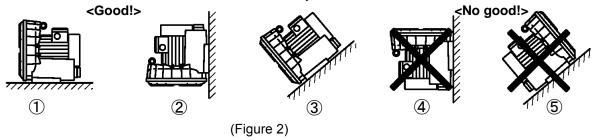
		A Caution
\triangle	1. Outdoor/indoor:	Install at an indoor site, which is exposed to no wind and rain Otherwise, an ELECTRIC SHOCK or a FAULT is feared.
	2. Ambient temp./ transport gas:	Use it in the range from -10 to 40°C. Otherwise, shortening of life and a FAULT is feared. (No freezing is allowed.)
	3. Relative humidity / altitude:	Use relative humidity in 80% or less and 1000m above sea level or less. Shortening of life or FAULT is feared.
\oslash	4. Atmosphere / gas to be transported :	If can neither be used in a place, where any such corrosive liquid or gas as an acid or an alkali or any inflammable or explosive gas exists, nor trans port such material. A FIRE , a FAULT or a INJURY is feared.
	5. Dusts :	Evade a place, where a lot of dusts, wastes or thread chips exist. If inevitable, clean the dusts and wastes adhered in the blower regularly. A FIRE or a FAULT is feared
\bigcirc	6. Ventilation :	Select a well ventilated place. It shell not be used in a closed room or in a case. A FIRE , a BURN or a FAULT is feared.
\bigcirc	7. Ambient air:	Evade a narrow place, for the convenience of maintenance and inspection.
	8. Vibration :	Select a place, where no external vibration is added to the blower. If inevitable, take anti-vibration measures for protecting from addition of vibration the blower. A FAULT , DAMAGE or an INJURY is feared. The value in Figure 1 is recommended as the tolerable vibration value.



 Install the Ring Blow so as to be used in horizontal shaft condition. For installing it in vertical or slant shaft condition, install it so that its blower side lies under its motor side (Figure 2).
 WVFZ701~VFZ901: Horizontal shaft condition only

Vibration frequency (f · Hz)

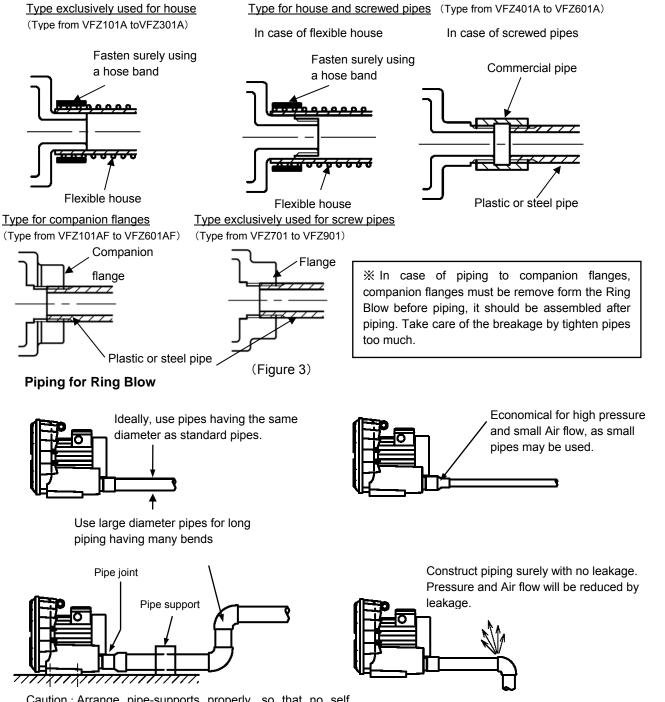
Good

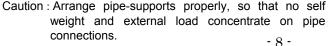


- For using VFZ501 or VFZ601 in fully closed suction operation, dismount the emblem at the top of middle bracket before installation. Dismount the emblem on the middle bracket surely before installation of the body.
- Emblem Screw
- 11. The tone quality of blower noise in this product changes depending on the Air flow rate, pressure and fully closed suction operation.
- 12. Use such pipes as PVC-pipes, gas pipes, flexible hoses etc., which can hold the Ring Blow pressure and hoses other then metallic one for discharge side, use those once, which have a sufficient high-temperature resistance.

Lay piping so surely as to have no leakage (Figure 3).

Kind of piping for suction port and delivery port.



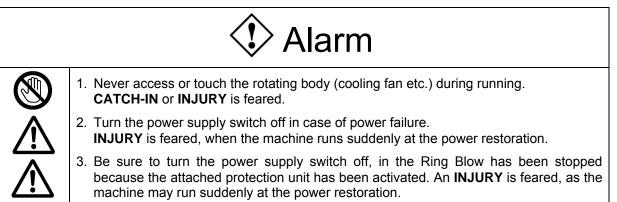


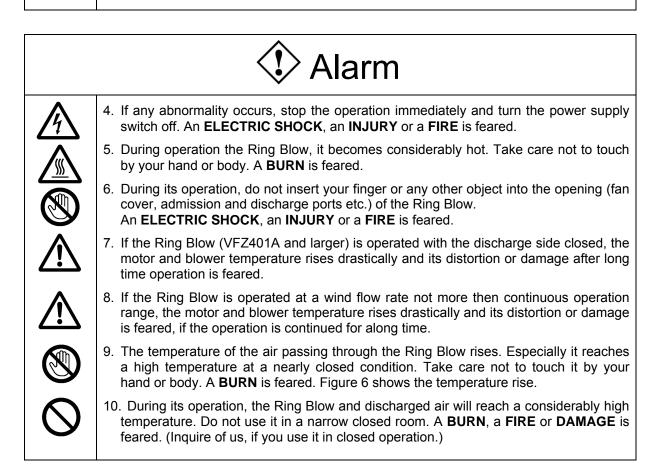
- 13. Do not allow any foreign material to intrude into the blower.
- 14. The rotation direction shall be the arrow direction on the casing. The rotation direction can be seen at the shaft end at counter-blower side and it is also correct, if the wind direction coincides with the IN and OUT indicated at the pipe connection port. Reverse rotation is allowed, although the performance is reduced.
- 15. Connect the power cables by using gland or electrical conduit at wiring hole of the terminal box to protect dust, foreign objects, water and etc. into the terminal box inside. Do not remove the unused rubber bushes of VFZ501~VFZ901. Do not use the rubber bushes to wiring.
- 16. Take care of edge of wiring holes at the terminal box. An **INJURY** is feared.

Recommended gland VFZ101~VFZ701: Multi hole type seal connector VFZ801. VFZ901: Seal connector

Operation ----

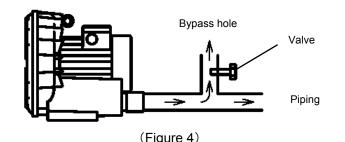
Verify the following points for operating the Ring Blow.



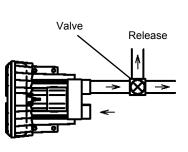


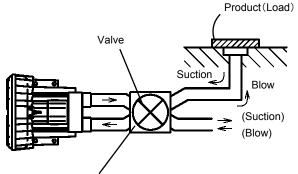
11. The Ring Blow will be continuously at within the operation range shown on the wind flow rate to static pressure curve (shown in the catalog). This operation range is so wide that the machine can be operated at nearly closed pressure but, if you operate it at high pressure, especially take care not to exceed the operation range. If you must operate it at closed condition, arrange a bypass hole on the way, so that a more wind than required range flows through the blower even if the suction port is closes (Figure 4).

For using VFZ401A-VFZ601A with the discharge side closed



12. For using air intermittently, the switching by means of a valve is recommended rather than the switching on and off of the motor (Figure 5). The standard for start and stop frequency of Ring Blow shall be not higher than the values in table below.





(Figure 5)

Switch suction and blow using the valve.

|--|

Model	Value for frequency of 50/60Hz
VFZ101 – VFZ301	30/20
VFZ401 – VFZ601	20/15
VFZ701 – VFZ901	15/10
	*1 switch: one cycle of ON and OFF

- 13. The characteristics differ a little when the machine is used at suction side and when used at discharge side, as shown in the characteristics curve. As the air specific weight becomes larger, when the discharge side is throttled, the static pressure becomes also larger.
- 14. Remove any solid object, dust, thread chip, water drop or the like before entering into the Ring Blow. Even if make no dust be sucked directly, take measures not to suck any dust staying around by mistake. Use of the dust staying around by mistake. Use of the dust collection sack in a vacuum cleaner or the like is recommended. Also, it is recommended to use a filter having considerably large space. Remove sometimes the dust collected in the filter. It may also be possible to make the dust blow off by reversing the Ring

Blow, if it is possible.15. If dusts adhered inside and outside of the blower (especially in the cooling air path for cooling fan cover), remove them. If adhered dusts increase, it causes such troubles as a temperature rise, a

- sink of wind flow rate and an increase vibration. 16. As the motor load (current) changes depending upon the air flow used by the Ring Blow, refer to
- 16. As the motor load (current) changes depending upon the air flow used by the Ring Blow, refer to the characteristics curve for setting the wiring capacity and protection relay.

17. The bearing, oil seal and silencer are consumables and need to be changed when their lives are arrived. Depending on the environment, in which the machine was used, the Impeller, casing, casing cover, and wire net are also included in consumables. (Please notice delivery and suction material is different from VFZ50's and VFZ60's silencers when you exchange them.)

Part name	Inspection/exchange interval
Bearing	2 years
Oil seal	At the same time as bearings
Silencer	2 years

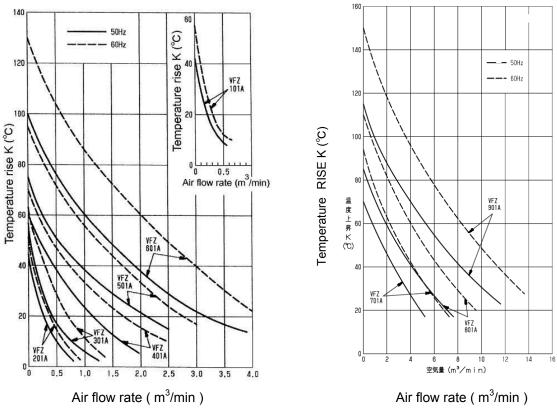
Intervals for inspection and exchange of consumables

*Standard for use in a standard environment. They may be shorter depending on the environment.

Table of bearing and oil seal

	Ве	aring		Oil seal		
Model	Load side	No-load side	Grease	Model	Material	
VFZ081PN	6201ZZ	6201ZZ	Urea	-	-	
VFZ101PN	6202ZZ	6202ZZ	Urea	VCH20-30-5	Nitrile rubber	
VFZ201PN	6202ZZ	6202ZZ	Urea	SC20-30-7	Nitrile rubber	
VFZ301PN	6202ZZ	6202ZZ	Urea	SC20-30-7	Nitrile rubber	
VFZ401PN	6204ZZ	6203ZZ	Urea	-	-	
VFZ081A	6201ZZ	6201ZZ	Urea	-	-	
VFZ101A	6202ZZ	6202ZZ	Urea	VCH20-30-5	Nitrile rubber	
VFZ201A	6202ZZ	6202ZZ	Urea	SC20-30-7	Nitrile rubber	
VFZ301A	6202ZZ	6202ZZ	Urea	SC20-30-7	Nitrile rubber	
VFZ401A	6204ZZ	6203ZZ	Urea	-	-	
VFZ501A	6206ZZC3	6303ZZ	Urea	-	-	
VFZ601A	6206ZZC3	6205ZZ	Urea	-	-	
VFZ701A	6306ZZC3	6206ZZ	Urea	-	-	
VFZ801A	6308ZZC3	6207ZZ	Urea	-	-	
VFZ901A	6308ZZC3	6306ZZ	Urea	-	-	

*Common to VFZ-A, VFZ-AF, VFZ-AN, VFZ-A-4Z



(Figure 6) Discharged air-temperature rise curve

18. Wire the power cables with motor terminals surely according to wiring figure in the terminal box or Figure 7.

(%Wiring type of VFZ801 and VFZ901 is direct start type at shipping, therefore, change wiring type from direct start type to star-delta start type in case of using star-delta start type.)

Model	VFZ101PN~VFZ401PN	VFZ101~VFZ701	VFZ801, VFZ901		
Wires	2 wires	3 wires		6 wires	
	Motor terminal	Motor terminal	Direct start type (At shipping)	Star-delta start type	
	UV	UVW	Motor terminal	Motor terminal	
Connecting				$(V_2)(U_1)(W_2)(V_1)(U_2)(W_1)$	
method	RS	RST	(U1) (V1) (W1) $(U1) (V1) (W1)$	↑ ↑ ↑ ↑ ↑ V2 U1 W2 V1 U2 W1	
	Power supply	Power supply	R S T Power supply	Power supply	

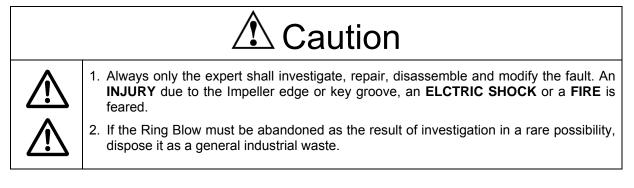
(Figure 7) Wiring diagram

19. Confirm below items at test running, if inverter is applied for the Ring Blow operation.

- •Resonance is feared by install condition of the Ring Blow. Avoid the frequency of the resonance
- Vibration and noise become bigger by using inverter. Stop the operation immediately, if abnormal temperature rise or vibration occurs.
- Do not use over 60Hz to protect motor burning.

(Maximum frequency of the 50Hz exclusive model is 50Hz.)

In case of occurrence of any fault in the Ring Blow, handle it properly referring to Table 1 "Fault States of Ring Blow and Countermeasures" (page 12) and taking care of the following points.



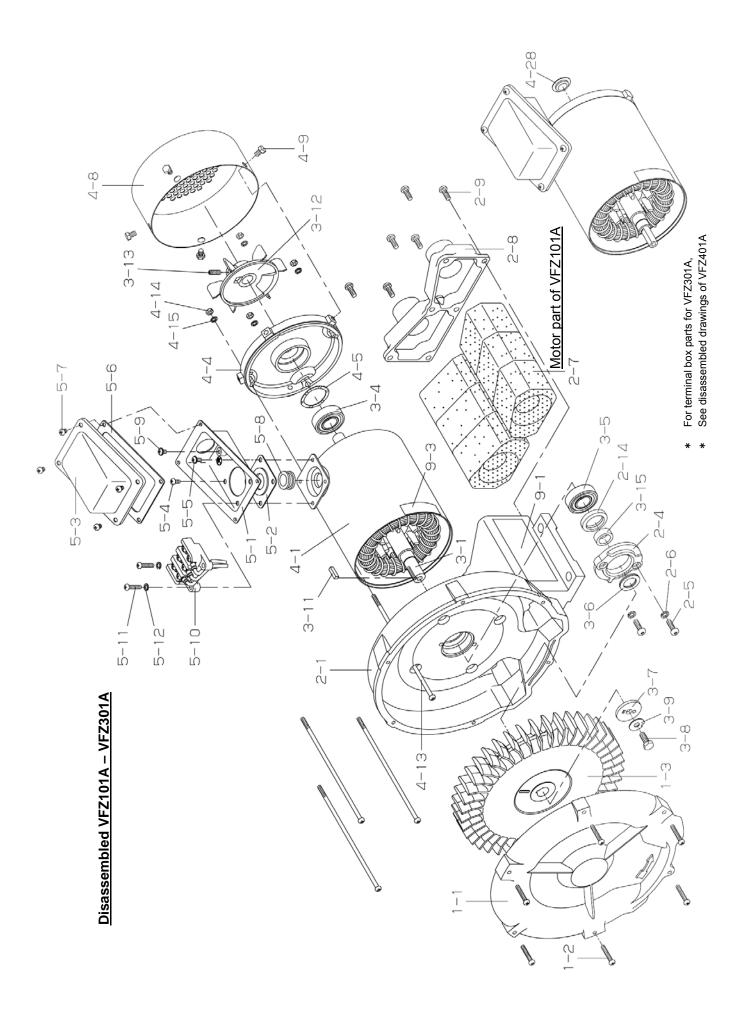
- 3. If the investigation result shows that the machine cannot be easily repaired, if you will request any spare part or you have any trouble, contact our agent, dealer or business office at any time. In case of contacting us, please verify following items in advance:
 - (a) Model indicated in the nameplate,
 - (b) SER. No.,
 - (c) Details of the fault,
 - (d) Name of faulty part, name of spare parts,
 - (e) Required quantity and
 - (f) Kind of gas to be transported (e.g.Air)

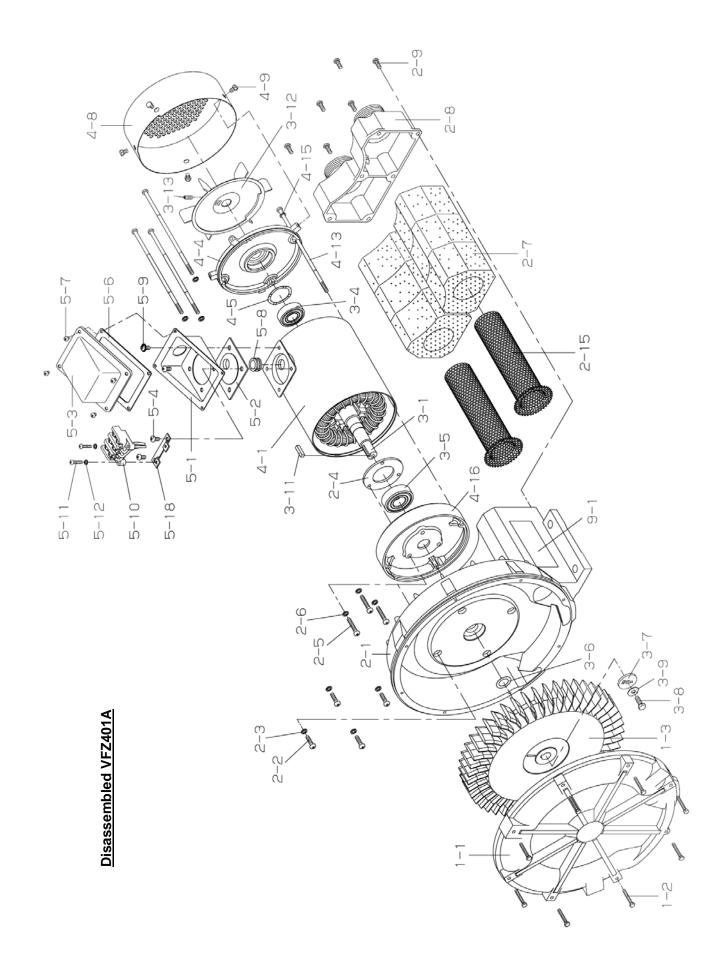
States of Fault		Causes	Countermeasures	
		Switch-contact fault	Repair switch-contact.	
		Fuse blown	Replace it.	
		One phase of power supply connection wires disconnected.	Replace it.	
	Whining sound	One phase of stator coils disconnected.	Request factory to repair it.	
Does not rotate		Stator and rotor come into contact due to bearing fault.	Replace bearing.	
		Foreign material involved in blades.	Remove it.	
		Power failure	Consult with utility company.	
	No sound	2 phases of power supply connection wires disconnected.	Replace them.	
		2 phases of stator coils disconnected.	Request factory to repair them.	
		Switch fault	Replace or replace it.	
	Europhieum	Insufficient fuse capacity	Replace it with lager capacity.	
	Fuse blown	Short-circuit in circuit	Repair or replace it.	
	Motor overheated	Power supply voltage fell	Consult with utility company.	
		Single phase operation	Request factory to repair it.	
		Impeller rubbing	Adjust wheel.	
		1 phase short circuit in stator coils.	Request factory to repair it.	
	Whining sound	Uneven space between stator and rotor.	Request factory to repair it.	
Rotates		Blade wheel rubbing	Adjust it.	
	Abnormal noise	Blade damaged due to foreign material.	Request factory to repair it.	
		Bearing fault	Replace it.	
		Leakage in piping.	Fasten tightly.	
	Motor rotates but fan works improperly.	Piping blocked	Ventilate sufficiently.	
		Reverse rotation direction	Correct connection (2 out of 3 wires).	
		Closure equipment fault	Replace it.	

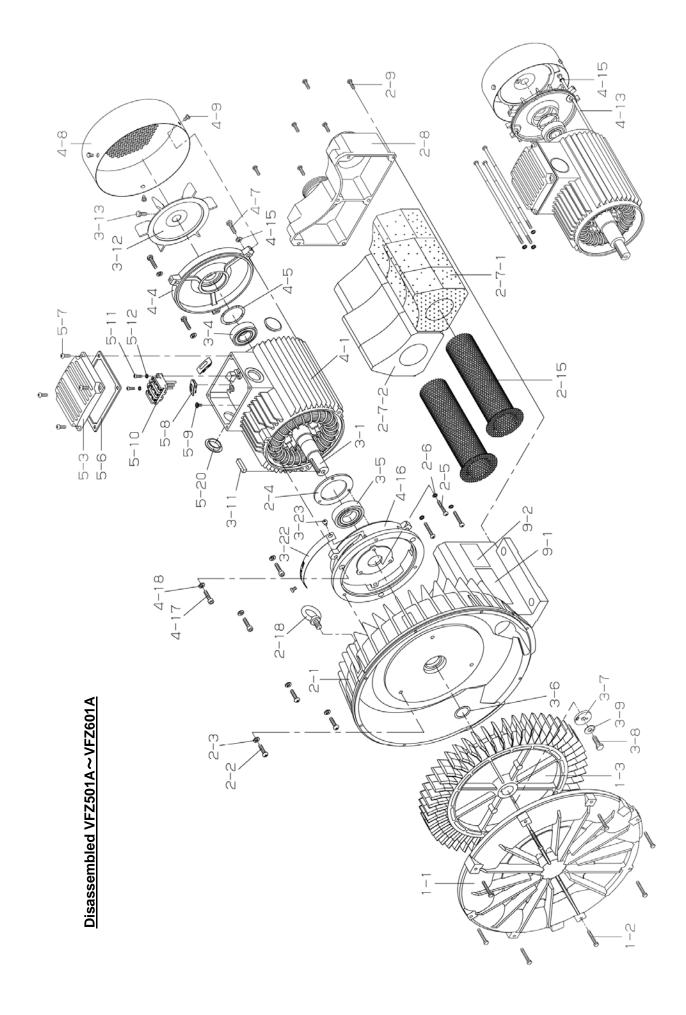
Parts List and Disassembled Drawings ------

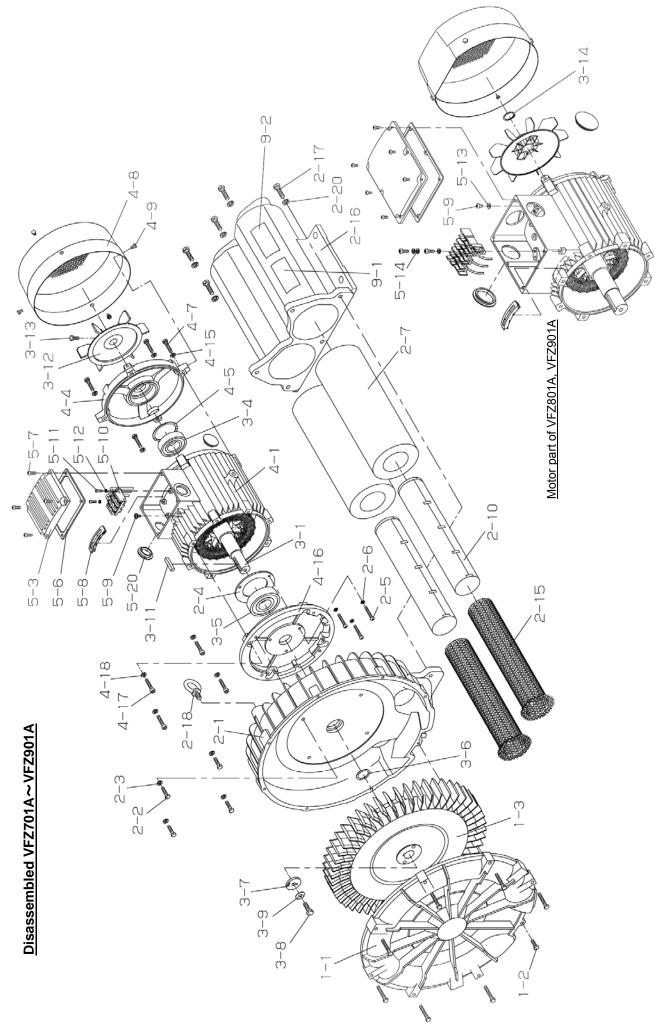
The Parts List of Ring Blow is shown below. The Parts No. in Parts List corresponds to those in Disassembled Drawings. Caution: Some parts are not used for some machine models.

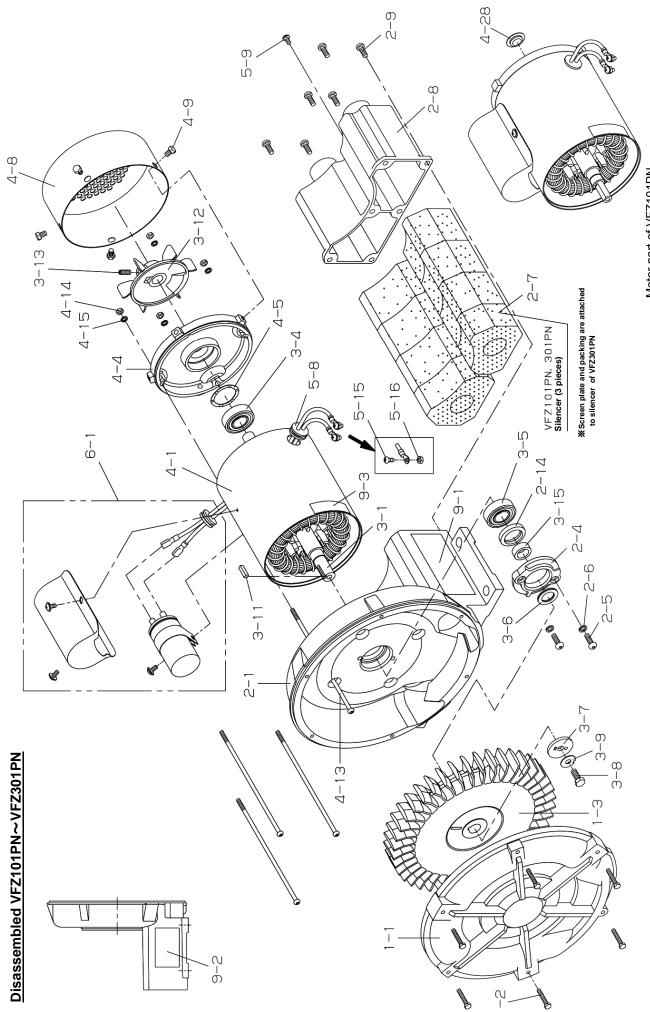
Part No.	Name of Part	Part No.	Name of Part	Part No.	Name of Part
1-1	Casing cover	3-6	Spacer	4-17	Bolt (Middle bracket, frame)
1-2	Bolt (for Casing cover)	3-7	Press ring	4-18	Spring washer
1-3	Impeller	3-8	Bolt(for fastening Fan wheel)	4-28	Сар
2-1	Casing	3-9	Claw washer	5-1	Terminal box
2-2	Bolt (for Casing)	3-11	Key(for Fan Wheel)	5-2	Packing (for Terminal box)
2-3	Spring washer	3-12	Motor cooler fan	5-3	Terminal box cover
2-4	End cover	3-13	Bolt(for Motor cooler fan)	5-4	Bolt(for Terminal box)
2-5	Bolt (for End cover)	3-15	Collar	5-5	Bolt (for Terminal box conduction)
2-6	Spring washer	3-22	Emblem	5-6	Packing (for Terminal box cover)
2-7	Silencer (1 set)	3-23	Bolt (for Emblem)	5-7	Bolt (for Terminal box cover)
2-7-1	Silencer (Suction side)	4-1	Frame/Stator assembly	5-8	Bush (for Terminal box)
2-7-2	Silencer (Delivery side)	4-4	Shield at counter-driving side	5-9	Bolt (for Protective earthing terminal)
2-8	Flange	4-5	Waved washer	5-10	Terminal base
2-9	Bolt(for Flange)	4-7	Bolt (for Shield)	5-11	Bolt (for Terminal base)
2-14	Oil seal	4-8	Cooler fan cover	5-12	Spring washer
2-15	Silencer Retaining Net	4-9	Bolt (for Cooler fan cover)	5-18	Base plate(for Terminal base)
2-18	Hanger bolt	4-13	Bolt(Shield, frame)	5-20	Bush (for Leader mouth for Terminal box)
3-1	Shaft/Rotor assembly	4-14	Nut (Shield, frame)	9-1	Nameplate (Rating)
3-4	Bearing at counter-driving side	4-15	Spring washer (Shield, frame)	9-2	Nameplate (Caution)
3-5	Bearing at driving side	4-16	Middle bracket	9-3	Nameplate (PSE mark)

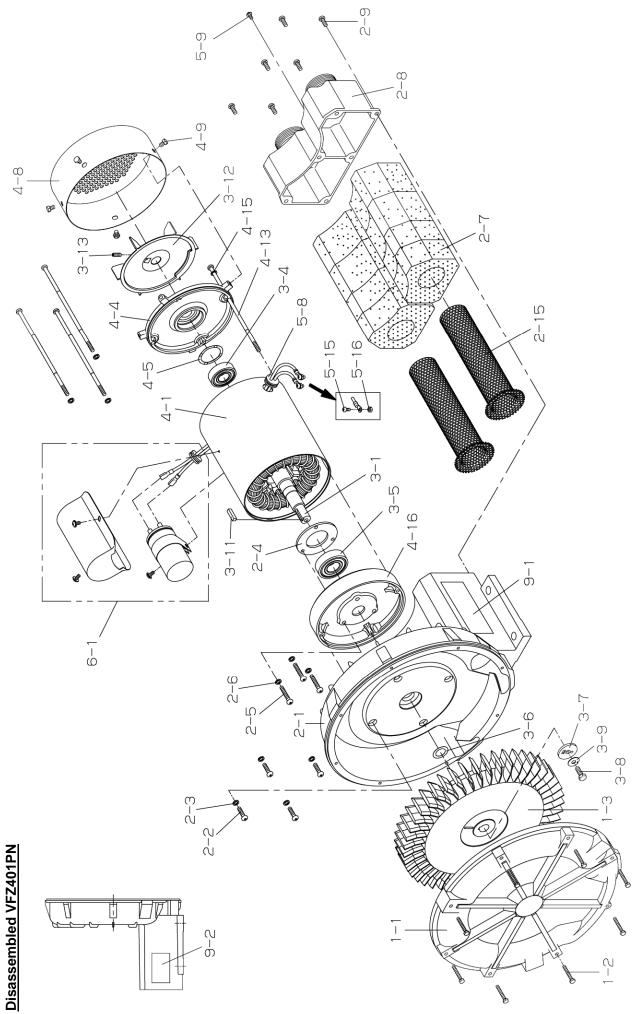












Specification

				Del i verv character				Suct i on character		
	Voltage	Frequency	Maximum value			Rated value		Maximum Value		
Model	Model [V]		Output ^(*) 【kW】	Current ^(*) 【A】	Static pressure 【kPa】	Static pressure ^(*) [kPa]	Delivery air quantity ^(*) [m ³ /min]	Output 【kW】	Current [A]	Static pressure [kPa]
VFZ081PN			0.06/0.08	1.3/1.4-1.3	3.73/4.85	1.96	0.25/0.35	0.05/0.07	1.2/1.3-1.3	3.43/4.60
VFZ101PN	1φ		0.09/0.12	1.5/2.0-1.9	5.10/6.86	2.94	0.35/0.50	0.08/0.10	1.5/1.8-1.7	4.91/6.55
VFZ201PN	100/	50/60	0.17/0.28	4.5/4.4-4.2	6.67/8.63	2.94	0.64/0.84	0.17/0.25	4.3/4.2-4.1	6.05/7.85
VFZ301PN	100-110		0.25/0.38	5.0/5.8-5.6	9.61/12.0	3.92	0.9/1.1	0.25/0.38	5.0/5.8-5.6	8.8/11.2
VFZ401PN			0.50/0.75	7.0/11.0-10.0	9.81/13.2	4.90	1.45/1.95	0.48/0.70	7.0/11.0-10.0	9.36/12.3
VFZ081A			0.06/0.08	0.37/0.42-0.40	3.73/4.85	1.96	0.25/0.35	0.06/0.08	0.37/0.42-0.40	3.43/4.60
VFZ101A			0.09/0.12	0.52/0.64-0.62	5.15/6.37	2.94	0.35/0.50	0.09/0.12	0.52/0.64-0.62	4.90/6.21
VFZ201A			0.17/0.28	1.4/1.4-1.4	6.67/9.02	2.94	0.64/0.84	0.17/0.28	1.4/1.4-1.4	6.27/8.19
VFZ301A			0.28/0.42	1.8/1.9-1.8	9.32/12.4	3.92	0.9/1.1	0.28/0.42	1.8/1.9-1.8	8.73/11.4
VFZ401A	3φ 200/	50/60	0.55/0.85	3.1/3.7-3.6	10.4/14.1	4.90	0.45/1.95	0.53/0.83	3.0/3.5-3.4	9.4/12.9
VFZ501A	200-220	00,00	1.3/1.9	5.4/7.4-6.8	14.7/19.6	6.86	2.4/3.0	1.3/1.9	5.4/7.4-6.8	13.7/17.3
VFZ601A			2.3/3.4	11.5/13.0-12.5	21.1/27.5	9.81	3.2/4.4	2.3/3.4	11.5/13.0-12.5	18.2/23.6
VFZ701A			3.3/5.0	16/20-19	21.6/28.4	9.81	4.4/5.7	3.1/5.4	14/19-18	18.3/22.9
VFZ801A			5.0/7.0	21/28-26	25.5/33.3	9.81	6.3/8.5	5.2/7.6	20/30-28	21.6/26.6
VFZ901A			7.0/11.0	31/40-38	25.5/31.4	14.7	7.5/10.8	7.0/13	30/41-40	21.4/27.6
VFZ101AF			0.09/0.12	0.52/0.64-0.62	5.15/6.37	2.94	035/0.50	0.09/0.12	0.52/0.64-0.62	4.90/6.21
VFZ201AF	2.0		0.17/0.28	1.4/1.4-1.4	6.67/9.02	2.94	0.64/0.84	0.17/0.28	1.4/1.4-1.4	6.27/8.19
VFZ301AF	3φ 200/	50/60	0.28/0.42	1.8/1.9-1.8	9.32/12.4	3.92	0.9/1.1	0.28/0.42	1.8/1.9-1.8	8.73/11.4
VFZ401AF	200-220		0.55/0.85	3.1/3.7-3.6	10.4/14.1	4.90	1.45/1.95	0.53/0.83	3.0/3.5-3.4	9.4/12.9
VFZ501AF			1.3/1.9	5.4/7.4-6.8	14.7/19.6	6.86	2.4/3.0	1.3/1.9	5.4/7.4-6.8	13.7/17.3
VFZ601AF			2.3/3.4	11.5/13.0-12.5	21.1/27.5	9.81	3.2/4.4	2.3/3.4	11.5/13.0-12.5	18.2/23.6
VFZ101AN			0.09/0.12	0.52/0.64-0.62	5.15/6.37	2.94	0.35/0.50	0.09/0.12	0.52/0.64-0.62	4.90/6.21
VFZ201AN			0.17/0.28	1.4/1.4-1.4	6.67/9.02	2.94	0.64/0.84	0.17/0.28	1.4/1.4-1.4	6.27/8.19
VFZ301AN			0.28/0.42	1.8/1.9-1.8	9.32/12.4	3.92	0.9/1.1	0.28/0.42	1.8/1.9-1.8	8.73/11.4
VFZ401AN	3φ		0.55/0.85	3.1/3.7-3.6	10.4/14.1	4.90	1.45/1.95	0.53/0.83	3.0/3.5-3.4	9.4/12.9
VFZ501AN	200/ 200-220	50/60	1.3/1.9	5.4/7.4-6.8	14.7/19.6	6.86	2.4/3.0	1.3/1.9	5.4/7.4-6.8	13.7/17.3
VFZ601AN	200 220		2.3/3.4	11.5/13.0-12.5	21.1/27.5	9.81	3.2/4.4	2.3/3.4	11.5/13.0-12.5	18.2/23.6
VFZ701AN			3.3/5.0	16/20-19	21.6/28.4	9.81	4.4/5.7	3.1/5.4	14/19-18	18.3/22.9
VFZ801AN			5.0/7.0	21/28-26	25.5/33.3	9.81	6.3/8.5	5.2/7.6	20/30-28	21.6/26.6
VFZ901AN			7.0/11.0	31/40-38	25.5/31.4	14.7	7.5/10.8	7.0/13	30/41-40	21.4/27.6
VFZ081A-4Z VFZ101A-4Z			0.06/0.08	0.2-0.2-0.21/0.22-0.21	3.73/4.85 5.15/6.37	1.96 2.94	0.25/0.35	0.06/0.08	0.2-0.2-0.21/0.22-0.21	3.43/4.60 4.90/6.21
						-				
VFZ201A-4Z VFZ301A-4Z	. Зф 380-400- 415/ 400-440	400- 50/60	0.17/0.28	0.6-0.63-0.66/0.7-0.68	6.67/9.02 9.32/12.4	2.94 3.92	0.64/0.84	0.17/0.28	0.6-0.63-0.66/0.7-0.68	6.27/8.19 8.73/11.4
VFZ401A-4Z			0.55/0.85	1.7-1.6-1.5/1.9-1.8	10.4/14.1	4.90	1.45/1.95	0.53/0.83	1.7-1.6-1.5/1.9-1.8	9.4/12.9
VFZ501A-4Z			1.3/1.9	2.6-2.7-2.8/3.7-3.4	14.7/19.6	6.86	2.4/3.0	1.3/1.9	2.6-2.7-2.8/3.7-3.4	
VFZ601A-4Z			2.3/3.4	5.6-5.8-6/6.5-6.3	21.1/27.5	9.81	3.2/4.4	2.3/3.4	5.6-5.8-6/6.5-6.3	18.2/23.6
VFZ701A-4Z			3.3/5.0	8.1-8-8/10-9.5	21.6/28.4	9.81	4.4/5.7	3.1/5.4	8.1-8-8/10-9.5	18.3/22.9
VFZ801A-4Z			5.0/7.0	11-10.5-10/14-13	25.5/33.3	9.81	6.3/8.5	5.2/7.6	11-10.5-10/14-13	21.6/26.6
VFZ901A-4Z			7.0/11.0	16-15.5-15/19-18	25.5/31.4	14.7	7.5/10.8	7.0/13	16-15.5-15/19-18	21.4/27.6

VFZ081PN 0.47/0.56 B 53.0/55.5 32 4.0/3.8-4.2 5.5 VFZ010PN 0.58/0.69 B 48.5/51.5 32 9.4/9.2-10.0 8.5 VFZ01PN 0.86/1.05 B 55.0/59.5 32 14.5/13.0-14.5 12.0 VFZ01PN 1.25/1.45 B 55.5/59.5 32 14.5/13.0-14.5 12.0 VFZ01PN 2.05/2.45 B 62.5/66.5 32 2.0/2.0-2.2 5.5 VFZ01A 0.47/0.56 B 53.0/55.5 32 2.0/2.0-2.2 5.5 VFZ01A 0.59/1.09 B 57.5/62.0 32 9.0/8.1-9.0 9.0 VFZ201A 0.90/1.09 B 57.5/62.0 32 9.0/8.1-9.0 9.0 VFZ201A 0.90/1.09 B 57.5/62.0 32 9.0/8.1-9.0 9.0 VFZ201A 1.20/2.5 B 65.5/69.5 50, R1½ 49/46-51 27.5 VFZ601A 4.2/5.5 F 70.074.5 63, R2 100/88.97	Model	Maximum delivery air quantity 【m ³ /min】	Insulation class	Noise value 【dB(A)】	Suction/delivery bore diameter [mm+ inch]	Starting current 【A】	Approximate mass [kg]
VFZ201PN 0.86/1.05 B 55.0/59.5 32 14.5/13.0-14.5 12.0 VFZ301PN 1.26/1.45 B 55.5/59.5 38 18.5/17.5-19.5 12.0 VFZ401PN 2.06/2.45 B 62.5/66.5 50. R1½ 37.0/33.0-37.0 22.0 VFZ01A 0.47/0.56 B 53.0/55.5 32 2.0/2.0-2.2 5.5 VFZ101A 0.58/0.69 B 52.5/66.5 32 4.2/3.9-4.2 7.5 VFZ201A 0.90/1.09 B 57.5/62.0 32 9.0/8.1-9.0 9.0 VFZ301A 1.28/1.40 B 58.0/62.0 38 13.0/12.0-13.5 11.0 VFZ401A 2.0/2.5 B 65.5/69.5 50.R1½ 27.0/25.0-27.5 19.0 VFZ401A 4.2/5.5 F 70.0/74.5 63.R2 100/88-97 43 VFZ701A 6.2/7.2 F 75.0/79.5 Rp2 146/125-136 50 VFZ801A 8.7/10.3 F 78.0/81.0 Rp2½ 175/160-	VFZ081PN	0.47/0.56	В	53.0/55.5	32	4.0/3.8-4.2	5.5
VFZ301PN 1.25/1.45 B 55.5/59.5 38 18.5/17.5-19.5 12.0 VFZ401PN 2.05/2.45 B 62.5/66.5 50, R1½ 37.0/33.0-37.0 22.0 VFZ081A 0.47/0.56 B 53.0/55.5 32 2.0/2.0-2.2 5.5 VFZ101A 0.58/0.69 B 52.5/66.5 32 4.2/3.9-4.2 7.5 VFZ201A 0.90/1.09 B 57.5/62.0 32 9.0/8.1-9.0 9.0 VFZ301A 2.8/1.40 B 58.0/62.0 38 13.0/12.0-13.5 11.0 VFZ301A 2.0/2.5 B 65.5/69.5 50, R1½ 27.0/25.0-27.5 19.0 VFZ501A 3.4/4.0 F 70.5/74.5 50, R1½ 27.0/25.0-27.5 19.0 VFZ201A 62.7.2 F 75.0/79.5 Rp2 146/125-136 50 VFZ201A 8.7/10.3 F 78.0/81.0 Rp2½ 175/160-170 89 VFZ201A 6.2/7.2 F 75.0/79.5 Rp1 4.2/3.	VFZ101PN	0.58/0.69	В	48.5/51.5	32	9.4/9.2-10.0	8.5
VFZ401PN 2.05/2.45 B 62.5/66.5 50.R1½ 37.0/33.0-37.0 22.0 VFZ081A 0.47/0.56 B 53.0/55.5 32 2.0/2.0-2.2 5.5 VFZ101A 0.58/0.69 B 52.5/56.5 32 4.2/3.9.4.2 7.5 VFZ201A 0.90/1.09 B 57.5/62.0 32 9.0/8.1-9.0 9.0 VFZ301A 1.28/1.40 B 58.0/62.0 38 13.0/12.0-13.5 11.0 VFZ401A 2.0/2.5 B 65.5/69.5 50.R1½ 27.0/25.0-27.5 19.0 VFZ501A 3.4/4.0 F 70.5/74.5 63.R2 100/88-97 43 VFZ701A 6.2/7.2 F 75.0/79.5 Rp2 146/125.136 50 VFZ801A 8.7/10.3 F 78.0/81.0 Rp2½ 175/160.170 89 VFZ901A 13/15.5 F 79.5/83.0 Rp3 310/280-300 107 VFZ101AF 0.90/1.09 B 57.5/62.0 Rp1 9.0/8.1-9.0	VFZ201PN	0.86/1.05	В	55.0/59.5	32	14.5/13.0-14.5	12.0
VFZ081A 0.47/0.56 B 53.0/55.5 32 2.0/2.0-2.2 5.5 VFZ101A 0.58/0.69 B 52.5/56.5 32 4.2/3.94.2 7.5 VFZ201A 0.90/1.09 B 57.5/62.0 32 9.0/8.1-9.0 9.0 VFZ301A 1.28/1.40 B 58.0/62.0 38 13.0/12.0-13.5 11.0 VFZ501A 2.0/2.5 B 65.5/69.5 50, R1½ 27.0/25.0-27.5 19.0 VFZ501A 3.4/4.0 F 70.5/74.5 50, R1½ 49/46-51 27.5 VFZ601A 4.2/5.5 F 70.074.5 63, R2 100/88-97 43 VFZ701A 6.2/7.2 F 75.0/79.5 Rp2 146/125-136 50 VFZ801A 8.7/10.3 F 78.0/81.0 Rp2 126/126-170 89 VFZ901A 13/15.5 F 79.5/83.0 Rp3 310/280-300 107 VFZ101AF 0.80/0.69 B 52.5/56.5 Rp1 4.2/3.9.4.2 <t< td=""><td>VFZ301PN</td><td>1.25/1.45</td><td>В</td><td>55.5/59.5</td><td>38</td><td>18.5/17.5-19.5</td><td>12.0</td></t<>	VFZ301PN	1.25/1.45	В	55.5/59.5	38	18.5/17.5-19.5	12.0
VFZ101A 0.58/0.69 B 52.5/56.5 32 4.2/3.94.2 7.5 VFZ201A 0.90/1.09 B 57.5/62.0 32 9.0/8.1-9.0 9.0 VFZ301A 1.28/1.40 B 58.0/62.0 38 13.0/12.0-13.5 11.0 VFZ301A 2.20/2.5 B 65.5/69.5 50, R1½ 27.0/25.0-27.5 19.0 VFZ501A 3.4/4.0 F 70.5/74.5 50, R1½ 49/46-51 27.5 VFZ601A 4.2/5.5 F 70.0/74.5 63, R2 100/88-97 43 VFZ701A 6.2/7.2 F 75.0/79.5 Rp2 146/125-136 50 VFZ801A 8.7/10.3 F 78.0/81.0 Rp2½ 175/160-170 89 VFZ201AF 0.90/1.09 B 57.5/62.0 Rp1 9.0/81.9.0 9.0 VFZ201AF 0.90/1.09 B 57.5/62.0 Rp1 ½ 20.02.6.27.5 19.0 VFZ201AF 0.90/1.09 B 55.5/59.5 Rp1½ 49/46-51	VFZ401PN	2.05/2.45	В	62.5/66.5	50, R1½	37.0/33.0-37.0	22.0
VFZ201A 0.90/1.09 B 57.5/62.0 32 9.0/8.1-9.0 9.0 VFZ301A 1.28/1.40 B 58.0/62.0 38 13.0/12.0-13.5 11.0 VFZ301A 2.0/2.5 B 65.5/69.5 50, R1½ 27.0/25.0-27.5 19.0 VFZ501A 3.4/4.0 F 70.5/74.5 50, R1½ 49/46-51 27.5 VFZ601A 4.2/5.5 F 70.0/74.5 63, R2 100/88-97 43 VFZ701A 6.2/7.2 F 75.0/79.5 Rp2 146/125-136 50 VFZ801A 8.7/10.3 F 78.0/81.0 Rp2½ 175/160-170 89 VFZ201AF 13/15.5 F 79.5/83.0 Rp3 310/280-300 107 VFZ101AF 0.90/1.09 B 57.5/62.0 Rp1 4.2/3.9-4.2 7.5 VFZ201AF 1.28/1.40 B 58.0/62.0 Rp1½ 27.0/25.0-27.5 19.0 VFZ501AF 4.2/5.5 F 70.0/74.5 Rp1½ 29.0	VFZ081A	0.47/0.56	В	53.0/55.5	32	2.0/2.0-2.2	5.5
VFZ301A 1.28/1.40 B 58.0/62.0 38 13.0/12.0-13.5 11.0 VFZ401A 2.0/2.5 B 65.5/69.5 50, R1½ 27.0/25.0-27.5 19.0 VFZ501A 3.4/4.0 F 70.5/74.5 50, R1½ 49/46-51 27.5 VFZ601A 4.2/5.5 F 70.0/74.5 63, R2 100/88-97 43 VFZ701A 6.2/7.2 F 75.0/79.5 Rp2 146/125-136 50 VFZ801A 8.7/10.3 F 78.0/81.0 Rp2½ 175/160-170 89 VFZ901A 13/15.5 F 79.5/83.0 Rp3 310/280-300 107 VFZ101AF 0.58/0.69 B 52.5/56.5 Rp1 4.2/3.9-4.2 7.5 VFZ01AF 0.90/1.09 B 57.5/2.0 Rp1 ¹ /4 13.0/12.0-13.5 11.0 VFZ201AF 3.4/4.0 F 70.5/74.5 Rp1 ^{1/2} 27.0/25.0-27.5 19.0 VFZ501AF 3.4/4.0 F 70.5/74.5 Rp2 100/88	VFZ101A	0.58/0.69	В	52.5/56.5	32	4.2/3.9-4.2	7.5
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	VFZ201A	0.90/1.09	В	57.5/62.0	32	9.0/8.1-9.0	9.0
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	VFZ301A	1.28/1.40	В	58.0/62.0	38	13.0/12.0-13.5	11.0
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	VFZ401A	2.0/2.5	В	65.5/69.5	50, R1½	27.0/25.0-27.5	19.0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	VFZ501A	3.4/4.0	F	70.5/74.5	50, R1½	49/46-51	27.5
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	VFZ601A	4.2/5.5	F	70.0/74.5	63, R2	100/88-97	43
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	VFZ701A	6.2/7.2	F	75.0/79.5	Rp2	146/125-136	50
VFZ101AF 0.58/0.69 B 52.5/56.5 Rp1 4.2/3.9-4.2 7.5 VFZ201AF 0.90/1.09 B 57.5/62.0 Rp1 9.08.1-9.0 9.0 VFZ301AF 1.28/1.40 B 58.0/62.0 Rp1½ 13.0/12.0-13.5 11.0 VFZ401AF 2.0/2.5 B 65.5/69.5 Rp1½ 27.0/25.0-27.5 19.0 VFZ501AF 3.4/4.0 F 70.5/74.5 Rp1½ 49/46-51 27.5 VFZ601AF 4.2/5.5 F 70.0/74.5 Rp2 100/88-97 43 VFZ101AN 0.58/0.69 B 49.5/51.5 32 4.2/3.9-4.2 9.0 VFZ201AN 0.90/1.09 B 55.5/59.0 32 9.0/8.1-9.0 10.0 VFZ301AN 1.28/1.40 B 55.5/59.5 38 13.0/12.0-13.5 13.0 VFZ401AN 2.0/2.5 B 62.0/66.0 50, R1½ 49/46-51 34.0 VFZ501AN 3.4/4.0 F 66.0/69.5 50, R1½ 49/46-51<	VFZ801A	8.7/10.3	F	78.0/81.0	Rp2 ¹ /2	175/160-170	89
VFZ201AF 0.90/1.09 B 57.5/62.0 Rp1 9.0/8.1-9.0 9.0 VFZ301AF 1.28/1.40 B 58.0/62.0 Rp1 ^{1/4} 13.0/12.0-13.5 11.0 VFZ401AF 2.0/2.5 B 65.5/69.5 Rp1 ^{1/4} 13.0/12.0-13.5 11.0 VFZ501AF 3.4/4.0 F 70.5/74.5 Rp1 ^{1/2} 27.0/25.0-27.5 19.0 VFZ501AF 3.4/4.0 F 70.5/74.5 Rp1 ^{1/2} 49/46-51 27.5 VFZ601AF 4.2/5.5 F 70.0/74.5 Rp2 100/88-97 43 VFZ101AN 0.58/0.69 B 49.5/51.5 32 4.2/3.9-4.2 9.0 VFZ201AN 0.90/1.09 B 55.5/59.0 32 9.0/8.1-9.0 10.0 VFZ301AN 1.28/1.40 B 55.5/59.5 38 13.0/12.0-13.5 13.0 VFZ601AN 2.0/2.5 B 62.0/66.0 50, R1 ^{1/2} 27.0/25.0-27.5 22.0 VFZ501AN 3.4/4.0 F 66.0/69.5 50,	VFZ901A	13/15.5	F	79.5/83.0	Rp3	310/280-300	107
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	VFZ101AF	0.58/0.69	В	52.5/56.5	Rp1	4.2/3.9-4.2	7.5
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	VFZ201AF	0.90/1.09	В	57.5/62.0	Rp1	9.0/8.1-9.0	9.0
VFZ501AF 3.4/4.0 F 70.5/74.5 Rp1½ 49/46-51 27.5 VFZ601AF 4.2/5.5 F 70.0/74.5 Rp2 100/88-97 43 VFZ101AN 0.58/0.69 B 49.5/51.5 32 4.2/3.9-4.2 9.0 VFZ201AN 0.90/1.09 B 55.5/59.0 32 9.0/8.1-9.0 10.0 VFZ301AN 1.28/1.40 B 55.5/59.5 38 13.0/12.0-13.5 13.0 VFZ401AN 2.0/2.5 B 62.0/66.0 50. R1½ 27.0/25.0-27.5 22.0 VFZ501AN 3.4/4.0 F 66.0/69.5 50. R1½ 49/46-51 34.0 VFZ601AN 4.2/5.5 F 67.5/70.5 63. R2 100/88-97 45.0 VFZ701AN 6.2/7.2 F 70.5/74.5 Rp2 146/125-136 62 VFZ801AN 8.7/10.3 F 74.0/75.0 Rp2½ 175/160-170 98 VFZ901AN 13/15.5 F 76.0/79.5 Rp3 310/280-300	VFZ301AF	1.28/1.40	В	58.0/62.0	Rp1 ¹ ⁄4	13.0/12.0-13.5	11.0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	VFZ401AF	2.0/2.5	В	65.5/69.5	Rp1½	27.0/25.0-27.5	19.0
VFZ101AN 0.58/0.69 B 49.5/51.5 32 4.2/3.9-4.2 9.0 VFZ201AN 0.90/1.09 B 55.5/59.0 32 9.0/8.1-9.0 10.0 VFZ301AN 1.28/1.40 B 55.5/59.5 38 13.0/12.0-13.5 13.0 VFZ401AN 2.0/2.5 B 62.0/66.0 50, R1½ 27.0/25.0-27.5 22.0 VFZ501AN 3.4/4.0 F 66.0/69.5 50, R1½ 49/46-51 34.0 VFZ601AN 4.2/5.5 F 67.5/70.5 63, R2 100/88-97 45.0 VFZ701AN 6.2/7.2 F 70.5/74.5 Rp2 146/125-136 62 VFZ801AN 8.7/10.3 F 74.0/75.0 Rp2½ 175/160-170 98 VFZ901AN 13/15.5 F 76.0/79.5 Rp3 310/280-300 140 VFZ081A-4Z 0.47/0.56 B 53.0/55.5 32 1.0-1.1-1.1/1.0-1.1 5.5 VFZ101A-4Z 0.58/0.69 B 52.5/56.5 32	VFZ501AF	3.4/4.0	F	70.5/74.5	Rp1½	49/46-51	27.5
VFZ201AN 0.90/1.09 B 55.5/59.0 32 9.0/8.1-9.0 10.0 VFZ301AN 1.28/1.40 B 55.5/59.5 38 13.0/12.0-13.5 13.0 VFZ401AN 2.0/2.5 B 62.0/66.0 50, R1½ 27.0/25.0-27.5 22.0 VFZ501AN 3.4/4.0 F 66.0/69.5 50, R1½ 49/46-51 34.0 VFZ601AN 4.2/5.5 F 67.5/70.5 63, R2 100/88-97 45.0 VFZ701AN 6.2/7.2 F 70.5/74.5 Rp2 146/125-136 62 VFZ801AN 8.7/10.3 F 74.0/75.0 Rp2½ 175/160-170 98 VFZ901AN 13/15.5 F 76.0/79.5 Rp3 310/280-300 140 VFZ081A-4Z 0.47/0.56 B 53.0/55.5 32 1.0-1.1-1.1/1.0-1.1 5.5 VFZ101A-4Z 0.58/0.69 B 52.5/56.5 32 2.0-2.1-2.1/1.9-2.1 7.5 VFZ201A-4Z 0.90/1.09 B 57.5/62.0 32	VFZ601AF	4.2/5.5	F	70.0/74.5	Rp2	100/88-97	43
VFZ301AN 1.28/1.40 B 55.5/59.5 38 13.0/12.0-13.5 13.0 VFZ401AN 2.0/2.5 B 62.0/66.0 50, R1½ 27.0/25.0-27.5 22.0 VFZ501AN 3.4/4.0 F 66.0/69.5 50, R1½ 49/46-51 34.0 VFZ601AN 4.2/5.5 F 67.5/70.5 63, R2 100/88-97 45.0 VFZ701AN 6.2/7.2 F 70.5/74.5 Rp2 146/125-136 62 VFZ801AN 8.7/10.3 F 74.0/75.0 Rp2½ 175/160-170 98 VFZ901AN 13/15.5 F 76.0/79.5 Rp3 310/280-300 140 VFZ081A-4Z 0.47/0.56 B 53.0/55.5 32 1.0-1.1-1.1/1.0-1.1 5.5 VFZ101A-4Z 0.58/0.69 B 52.5/56.5 32 2.0-2.1-2.1/1.9-2.1 7.5 VFZ201A-4Z 0.90/1.09 B 57.5/62.0 32 3.6-3.9-4.0/3.4-3.7 9.0 VFZ401A-4Z 1.28/1.40 B 58.0/62.0 3	VFZ101AN	0.58/0.69	В	49.5/51.5	32	4.2/3.9-4.2	9.0
VFZ401AN 2.0/2.5 B 62.0/66.0 50, R1½ 27.0/25.0-27.5 22.0 VFZ501AN 3.4/4.0 F 66.0/69.5 50, R1½ 49/46-51 34.0 VFZ601AN 4.2/5.5 F 67.5/70.5 63, R2 100/88-97 45.0 VFZ701AN 6.2/7.2 F 70.5/74.5 Rp2 146/125-136 62 VFZ801AN 8.7/10.3 F 74.0/75.0 Rp2½ 175/160-170 98 VFZ901AN 13/15.5 F 76.0/79.5 Rp3 310/280-300 140 VFZ081A-4Z 0.47/0.56 B 53.0/55.5 32 1.0-1.1-1.1/1.0-1.1 5.5 VFZ101A-4Z 0.58/0.69 B 52.5/56.5 32 2.0-2.1-2.1/1.9-2.1 7.5 VFZ201A-4Z 0.90/1.09 B 57.5/62.0 32 3.6-3.9-4.0/3.4-3.7 9.0 VFZ401A-4Z 2.0/2.5 B 65.5/69.5 50, R1½ 13.0-13.5-14.0/12.5-14.0 19.0 VFZ401A-4Z 2.0/2.5 B 65.5/69.5	VFZ201AN	0.90/1.09	В	55.5/59.0	32	9.0/8.1-9.0	10.0
VFZ501AN 3.4/4.0 F 66.0/69.5 50, R1½ 49/46-51 34.0 VFZ601AN 4.2/5.5 F 67.5/70.5 63, R2 100/88-97 45.0 VFZ701AN 6.2/7.2 F 70.5/74.5 Rp2 146/125-136 62 VFZ801AN 8.7/10.3 F 74.0/75.0 Rp2½ 175/160-170 98 VFZ901AN 13/15.5 F 76.0/79.5 Rp3 310/280-300 140 VFZ081A-4Z 0.47/0.56 B 53.0/55.5 32 1.0-1.1-1.1/1.0-1.1 5.5 VFZ101A-4Z 0.58/0.69 B 52.5/56.5 32 2.0-2.1-2.1/1.9-2.1 7.5 VFZ201A-4Z 0.90/1.09 B 57.5/62.0 32 3.6-3.9-4.0/3.4-3.7 9.0 VFZ401A-4Z 2.0/2.5 B 65.5/69.5 50, R1½ 13.0-13.5-14.0/12.5-14.0 19.0 VFZ501A-4Z 2.0/2.5 B 65.5/69.5 50, R1½ 13.0-13.5-14.0/12.5-14.0 19.0 VFZ601A-4Z 3.4/4.0 F 70.	VFZ301AN		В	55.5/59.5		13.0/12.0-13.5	
VFZ601AN 4.2/5.5 F 67.5/70.5 63, R2 100/88-97 45.0 VFZ701AN 6.2/7.2 F 70.5/74.5 Rp2 146/125-136 62 VFZ801AN 8.7/10.3 F 74.0/75.0 Rp2½ 175/160-170 98 VFZ901AN 13/15.5 F 76.0/79.5 Rp3 310/280-300 140 VFZ081A-4z 0.47/0.56 B 53.0/55.5 32 1.0-1.1-1.1/1.0-1.1 5.5 VFZ101A-4z 0.47/0.56 B 52.5/56.5 32 2.0-2.1-2.1/1.9-2.1 7.5 VFZ201A-4z 0.90/1.09 B 57.5/62.0 32 3.6-3.9-4.0/3.4-3.7 9.0 VFZ301A-4z 1.28/1.40 B 58.0/62.0 38 5.9-6.5-6.7/6.1-6.7 11.0 VFZ401A-4z 2.0/2.5 B 65.5/69.5 50, R1½ 13.0-13.5-14.0/12.5-14.0 19.0 VFZ501A-4z 3.4/4.0 F 70.5/74.5 50, R1½ 23.3-24.5-25.5/23.0-25.5 27.5 VFZ601A-4z 4.2/5.5 F	VFZ401AN	2.0/2.5		62.0/66.0		27.0/25.0-27.5	22.0
VFZ701AN 6.2/7.2 F 70.5/74.5 Rp2 146/125-136 62 VFZ801AN 8.7/10.3 F 74.0/75.0 Rp2½ 175/160-170 98 VFZ901AN 13/15.5 F 76.0/79.5 Rp3 310/280-300 140 VFZ081A-4Z 0.47/0.56 B 53.0/55.5 32 1.0-1.1-1.1/1.0-1.1 5.5 VFZ101A-4Z 0.58/0.69 B 52.5/56.5 32 2.0-2.1-2.1/1.9-2.1 7.5 VFZ201A-4Z 0.90/1.09 B 57.5/62.0 32 3.6-3.9-4.0/3.4-3.7 9.0 VFZ301A-4Z 1.28/1.40 B 58.0/62.0 38 5.9-6.5-6.7/6.1-6.7 11.0 VFZ401A-4Z 2.0/2.5 B 65.5/69.5 50, R1½ 13.0-13.5-14.0/12.5-14.0 19.0 VFZ501A-4Z 3.4/4.0 F 70.5/74.5 50, R1½ 23.3-24.5-25.5/23.0-25.5 27.5 VFZ601A-4Z 4.2/5.5 F 70.0/74.5 63, R2 47.5-50.0-52.0/44.0-48.5 43.0 VFZ701A-4Z 6.2/7.2							
VFZ801AN 8.7/10.3 F 74.0/75.0 Rp2½ 175/160-170 98 VFZ901AN 13/15.5 F 76.0/79.5 Rp3 310/280-300 140 VFZ081A-4Z 0.47/0.56 B 53.0/55.5 32 1.0-1.1-1.1/1.0-1.1 5.5 VFZ101A-4Z 0.58/0.69 B 52.5/56.5 32 2.0-2.1-2.1/1.9-2.1 7.5 VFZ201A-4Z 0.90/1.09 B 57.5/62.0 32 3.6-3.9-4.0/3.4-3.7 9.0 VFZ301A-4Z 1.28/1.40 B 58.0/62.0 38 5.9-6.5-6.7/6.1-6.7 11.0 VFZ401A-4Z 2.0/2.5 B 65.5/69.5 50, R1½ 13.0-13.5-14.0/12.5-14.0 19.0 VFZ501A-4Z 3.4/4.0 F 70.5/74.5 50, R1½ 23.3-24.5-25.5/23.0-25.5 27.5 VFZ601A-4Z 4.2/5.5 F 70.0/74.5 63, R2 47.5-50.0-52.0/44.0-48.5 43.0 VFZ701A-4Z 6.2/7.2 F 75.0/79.5 Rp2 67-73-77/63-68 50							
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VFZ301A-4Z 1.28/1.40 B 58.0/62.0 38 5.9-6.5-6.7/6.1-6.7 11.0 VFZ401A-4Z 2.0/2.5 B 65.5/69.5 50, R1½ 13.0-13.5-14.0/12.5-14.0 19.0 VFZ501A-4Z 3.4/4.0 F 70.5/74.5 50, R1½ 23.3-24.5-25.5/23.0-25.5 27.5 VFZ601A-4Z 4.2/5.5 F 70.0/74.5 63, R2 47.5-50.0-52.0/44.0-48.5 43.0 VFZ701A-4Z 6.2/7.2 F 75.0/79.5 Rp2 67-73-77/63-68 50	VFZ101A-4Z	0.58/0.69	В	52.5/56.5	32	2.0-2.1-2.1/1.9-2.1	7.5
VFZ401A-4Z 2.0/2.5 B 65.5/69.5 50, R1½ 13.0-13.5-14.0/12.5-14.0 19.0 VFZ501A-4Z 3.4/4.0 F 70.5/74.5 50, R1½ 23.3-24.5-25.5/23.0-25.5 27.5 VFZ601A-4Z 4.2/5.5 F 70.0/74.5 63, R2 47.5-50.0-52.0/44.0-48.5 43.0 VFZ701A-4Z 6.2/7.2 F 75.0/79.5 Rp2 67-73-77/63-68 50	VFZ201A-4Z	0.90/1.09	В	57.5/62.0	32	3.6-3.9-4.0/3.4-3.7	9.0
VFZ501A-4Z 3.4/4.0 F 70.5/74.5 50, R1½ 23.3-24.5-25.5/23.0-25.5 27.5 VFZ601A-4Z 4.2/5.5 F 70.0/74.5 63, R2 47.5-50.0-52.0/44.0-48.5 43.0 VFZ701A-4Z 6.2/7.2 F 75.0/79.5 Rp2 67-73-77/63-68 50	VFZ301A-4Z	1.28/1.40	В	58.0/62.0	38	5.9-6.5-6.7/6.1-6.7	11.0
VFZ601A-4Z 4.2/5.5 F 70.0/74.5 63, R2 47.5-50.0-52.0/44.0-48.5 43.0 VFZ701A-4Z 6.2/7.2 F 75.0/79.5 Rp2 67-73-77/63-68 50	VFZ401A-4Z	2.0/2.5	В	65.5/69.5	50, R1½	13.0-13.5-14.0/12.5-14.0	19.0
VFZ701A-4Z 6.2/7.2 F 75.0/79.5 Rp2 67-73-77/63-68 50	VFZ501A-4Z	3.4/4.0	F	70.5/74.5	50, R1½	23.3-24.5-25.5/23.0-25.5	27.5
VFZ701A-4Z 6.2/7.2 F 75.0/79.5 Rp2 67-73-77/63-68 50	VFZ601A-4Z	4.2/5.5	F	70.0/74.5	63, R2	47.5-50.0-52.0/44.0-48.5	43.0
						67-73-77/63-68	50
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VFZ901A-4Z 13/15.5 F 79.5/83.0 Rp3 132-134-144/119-130 107					-		

The noise is the value at a position of 1.5m in an open state. Tha values with ^(*)mark are specified on nameplate.

Guarantee Period and Scope of Guarantee ------

<Product guarantee and scope of guarantee>

- The guarantee period of for product shall be 1 year after shipment to the specified destination. If any fault has occurred during the guarantee period in a proper use condition within he product specification range, the faulty part will be exchanged or repaired free of charge.
- However, if the fault corresponds to any of the following cases, it will be excluded from the scope of guarantee:

1) due to improper handling or use by the User

2) due to causes of fault other then of delivered product

3) due to improper repair of modification

4) due to natural calamity or disaster, which does not belong to the responsibility of supplier. The said guarantee means the guarantee for supplied product itself and we take no responsibility for the damage induced from the fault of the product.

<Charged repair>

• The investigation and repair after the expiration of guarantee period will be charged. Even during the guarantee period, we accept the repair of fault and the cause investigation due to reasons out of the scope of guarantee for payment.



Atai Fuji Motor Co., Ltd.

No. 32, Sec. 2, Chang-Hsing Rd., Lu-Chu Dist., Taoyuan City, Taiwan, R.O.C. TEL: +886-3-321-3030 / FAX: +886-3-321-7890 http://www.ataifuji.com.tw/