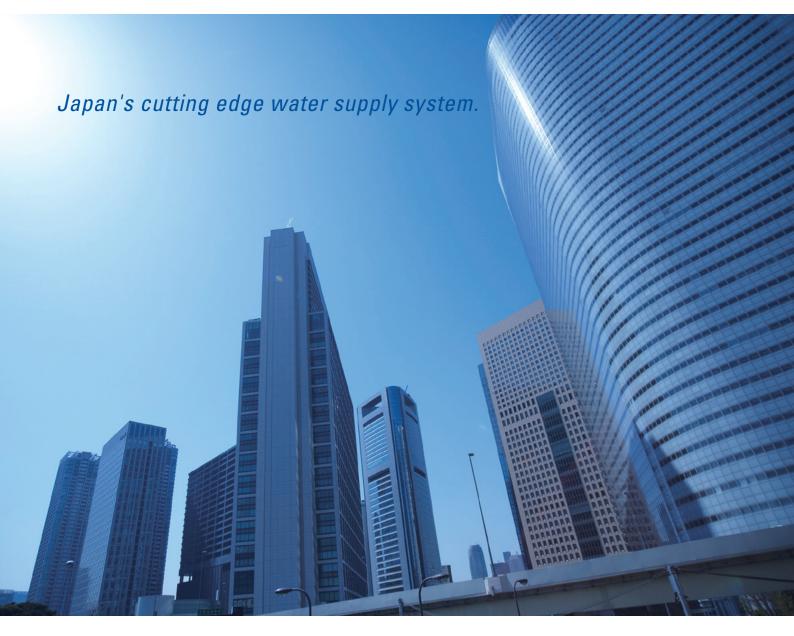


TERAL WATER SUPPLY SERIES

NX-VFC NXV | MC4 | NX-PCL | NX-LAT | THP5-V

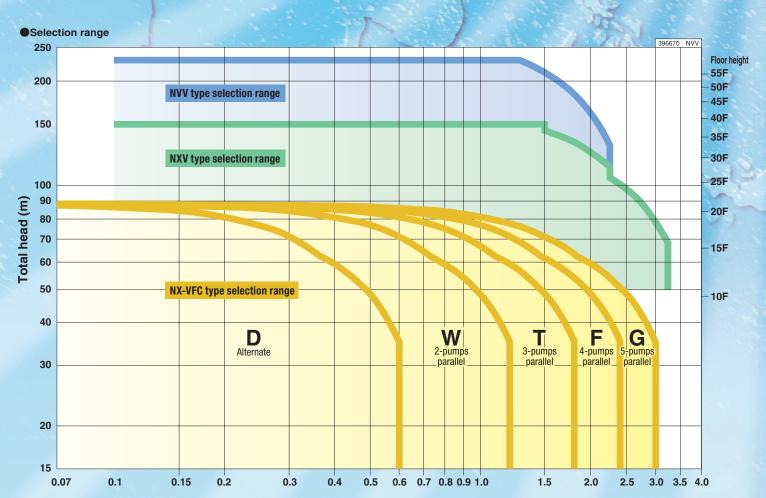
50Hz/60Hz



TERALWATER

TERAL's newest water supply system for the world.





SUPPLY SERIES

In population centres the life style of the people becomes increasingly diverse, and they put higher demands on the availability of safe water.

When a short term solution is installed, it inevitably leads to high maintenance and running costs.

This catalog introduces the wide range of water supply systems offered by TERAL, Japan's leading water supply systems maker.

Advanced technological power that beats the severe Japanese competition from small home pumps to large volume or high head pumps, providing you with a comfortable and anxiety- and trouble-free future.

	Estimated constant terminal-pressure control	Constant pressure control	ON/OFF control	Small inverter pump
	Estimated constant terminal-pressure control	Constant pressure control	CINOTICULAR	omaninoter pump
	Direct connecting Booster pump	Small type v	vater supply	Domestic Water Supply
	MC4	NX-PCL	NX-LAT	THP5-V
Max number of operable pumps	2	2	2	1
Voltage (V)	3-phase • 200/220	3-phase • 380/400/440	3-phase • 380/400/440	Single-phase • 100/200
Output range (kW)	0.4~7.5	0.4~7.5	1.1~7.5	0.15~0.75
Flow (m³/min)	0.015~0.45	0.02~1.18	0.02~1.2	0.019~0.058
Head (m)	26~76	11~69	12~81	12~20
Operating sound	Low	Low	Low	Low
Installation space	Very compact	Very compact	Very compact	Very compact
Installation site	w/outdoor specifications	w/outdoor cover	w/outdoor cover	w/outdoor cover
Features	Space saving	Space saving	Space saving	Space saving
	Energy saving			Energy saving
	Quite			Quite
	Complete pump protection	Complete pump protection	Complete pump protection	
	Clean water	Clean water	Clean water	Clean water

Today is the age to the estimated constant

Estimated constant terminal-pressure control water supply system

X-VFC

This compact! This high performance!

In 1975, TERAL was the first in the world to unitize a water supply system. Substantial compactness was achieved by integrating the pump, control panel, pressure tank, and base that previously were manufactured separately Installation space and volume became smaller and the range of applications also spread widely.

The use of high quality materials and precision finish increases reliability even more.

TERAL, the pump maker, has unitized the pump, control panel, pressure tank, and base.

- >> All parts are high-quality.
- >>> Cutting edge functions and performance
- >>> Long product life and low maintenance costs



Can be installed anywhere because of its compact size.

- >> Can even be installed under a stairs or under the receiving tank.
- >> Replacing an existing pump provides a surplus of machinery room space.
- >> If there is no machinery room, the unit can be installed outdoors by using a special outdoor cover (option).





terminal-pressure control water supply system.

This is the age to the clean, safe, and energy saving estimated constant terminal-pressure control water supply system.

With the old elevated water tank system popularized by its simple mechanism and ease of installation, sanitation and construction cost problems are encountered and it can no longer What TERAL proposes here is the <<NX-VFC Series>> estimated terminal pressure the need for an elevated water tank and also makes a large contribution to electricity and energy saving by using an inverter for exact control of the pump speed.

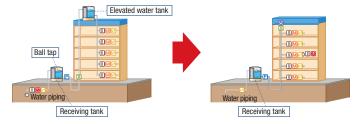
Sanitation and construction cost with the conventional elevated water tank system.

All eyes are on the new TERAL water supply system.

meet the complex and advanced needs of current times.

constant control water supply unit. This unit eliminates

This system collects water in an elevated water tank on the roof of the building and supplies it to users by gravity. It is popular because both its mechanism and control are simple. However, the water tank is easily contaminated by birds, insects, and the mixing in of dust. In addition, rooftop installation work is large scale, the piping is 2 systems (up and down) and complex, and the larger the building, the more difficult work becomes.



The mainstream of the future will be a water pressure system that does not require an elevated water tank.

System that supplies water not by gravity, but by pressurizing by pump. A rooftop elevated water tank is unnecessary, and the demerits of the elevated water tank system are all overcome. However, since stopping of the pump immediately leads to water interruption, the introduction of a highly reliable maker who consistently provides everything from design to manufacture is recommended.

Unit for trustworthy. clean drinking water.

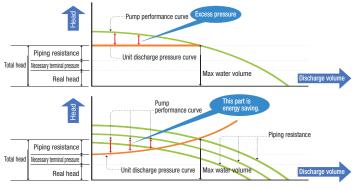
- >>> Pump uses "rust-free" precision stainless steel Investment casting
- >> All wet parts other than the pump are made of stainless steel, resin. or "rust-free" material.
- >> Leakage-free mechanical seal, resulting in clean and water free surroundings.



Mechanical sea

Estimated constant terminal-pressure control system saves energy and eliminates CO₂!

"Discharge pressure constant control" keeps the discharge pressure constant even if the amount of water used changes by controlling the speed of each pump by means of an inverter. "Estimated constant terminal-pressure control" used with the <<NX-VFC Series>> is more advanced and also adjusts the piping resistance pressure. Since surplus pressure is not generated, electricity and energy saving characteristics are excellent and the electricity consumption is suppressed to approximately 50% that of a conventional system.



NX-VFC Fully loaded with advance functions

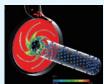
>> Quiet and ease of installation.

This system is aimed on the future by minimizing the burden on the environment.

Precision finish contributes to noise reduction.

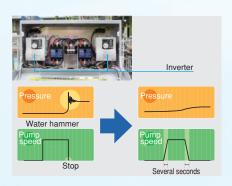
As a result of the use of high precision stainless steel forging and pump fluid analysis and design with a 3-dimensional model, the noise generated by the pump has been substantially reduced. In addition, inverter control of pump speed reduces noise during low speed operation still more, thus allowing confident installation even in densely populated areas.





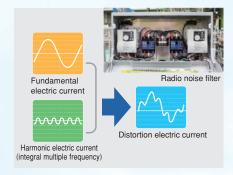
Inverter control reduces noise and also prevents water hammer.

The biggest advantage of inverter control is the low noise during starting and stopping. Soft start and stop also prevent water hammer by reducing the sudden pressure applied to the piping.



Complete harmonics countermeasures suppress ambient electromagnetic interference.

The harmonics generated by the inverter are reduced by various innovative measures and the unit and surrounding devices are protected against burnout. In addition, a radio noise filter is equipped as standard to farther suppress ambient electromagnetic interference.



>> Operability and maintainability.

Easy-to-use interface continually improved by anticipating site needs.

Easy-to-use, easy-to-read operation panel.

Pump operating states such as pump operation mode, water tank and solenoid valve operation, various settings can be checked with one glance at the operation panel. Automatic operation can be continued with confidence. Most settings can also be made at the operation panel without opening the control panel cover. Maintenance ease is highly evaluated by maintenance personnel.



Various alarms and information are displayed on the operation panel.

Error information is displayed on the operation panel together with generation of a buzzer sound and Caution is raised. Because the error history of the last 5 errors can be called at any time, troublesome referencing of operation recordings is unnecessary. The operating time and accumulated number of time each pump was started, which are the criteria for consumables replacement, can also be displayed and action can be taken before trouble occurs.



Various innovations make maintenance easy.

Innovation of the layout of the control panel and its internal control devices make access to the inside of the control panel extremely easy.



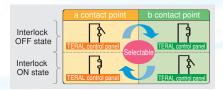
that meet the needs of all users.

>> Advanced control and confidence.

Precision control and complete trouble countermeasures eliminate various operational misgivings.

Emergency stop, backup operation, and other trouble countermeasures are perfect.

An interlock function that protects the pump by automatically stopping it when trouble or a disaster occurs is provided. Five different emergency signal transmission patterns are available. The pattern most suitable for the environment and operation can be selected. The system is also equipped with an operation backup function that automatically switches to a standby pump if trouble is detected.



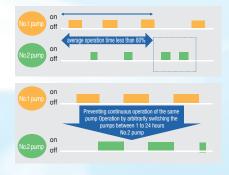
Retry function recovers from trouble by self-diagnosis.

The unit is equipped with a retry function that emergency-stops the pump and immediately switches to backup operation if a trouble is heavy, but repeats restarting and automatically recovers to normal operation if the problem is solved when the trouble is light. Since troubles are handled automatically, there is no inconvenience to the user and maintenance trouble and costs are also substantially reduced.

Various pump protection functions extend the life of the product.

A continuous operation prevention function that protects the pump by preventing continuous operation of the pump is provided. In addition, equalizing the operating time of 2 pumps is also possible by operating time equalization function. In addition, the life of the product is extended by racing prevention function that stops

operation beforehand when the water in the tank decreases, etc. and preventing large troubles in advance.



>> High quality and reliability.

The reliability that can be achieved due to the high quality of the product meets the requirements of the new age.

Absolute reliability based on severe standards.

Quality, performance, after-sales service — TERAL has played the role of an industry leader in positive improvement of quality and proposal of official certification standards within Japan. We have received extremely high praise from wary government agencies and consumers of Japan. The TERAL factory has also acquired the international quality management standard ISO9000 and is continuing efforts in quality management and improvement.

Consistent manufacture and service system with clear responsibilities.

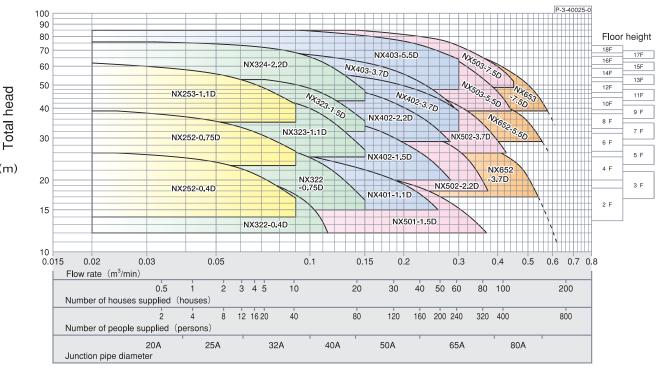
Even if a system is assembled with a variety of parts, you can hardly ask for more than advanced control. When trouble occurs, determining the cause such as which part has failed or whether or not the control software is faulty is especially difficult. Since the <<NX-VFC Series>> is consistently manufactured and sold by TERAL, the area of responsibility is clear. There is almost no fear of the system stopping and water interruption continuing because the faulty part is quickly located and replaced with a spare based on our abundant experience in maintenance service.



Selection chart / specifications table < Automatic alternate pump operation | Positive suction | >

NX-VFC-D_{Alternate}

▼ Positive suction



- Total head indicates the pump total head when the water level was made the standard instead of the pressure set value.
- 2. When selecting the model from the selection chart, calculate the total head based on the water level.

 3. The pressure set value (total head and minimum sustained head) is the value with the head from the water level to the pressure transmitter installation position adjusted. (When the water level is lower than the pressure transmitter installation position, only that portion is subtracted and when it is higher, only that portion is added.)

	Nominal	dia. mm					Standa	ard specification	ons	Specification	ons range	Pressure
Suction	Pump suction	Unit discharge	Model	Output kW	Phase and voltage V	Max. flow rate m³/min	Total head m	Min. sustained head m	Stop pressure (approximate value) MPa (kgf/m²)	Flow rate m³/min	Discharge head selection range m	tank loading MPa (kgf/m²)
			NX-VFC252-0.4D	0.4		0.06	22	19	0.24 (2.4)	0.02~0.09	14~26	0.12 (1.2)
	25	25	NX-VFC252-0.75D	0.75		0.06	33	28	0.32 (3.3)	0.02~0.09	23~39	0.20 (2.0)
			NX-VFC253-1.1D	1.1		0.06	52	44	0.51 (5.2)	0.02~0.09	35~62	0.30 (3.1)
			NX-VFC322-0.4D	0.4		0.10	15	13	0.18 (1.8)	0.02~0.11	12~21	0.10 (1.0)
			NX-VFC322-0.75D	0.75		0.10	24	20	0.25 (2.5)	0.02~0.15	15~26	0.12 (1.2)
	32	32	NX-VFC323-1.1D	1.1		0.10	40	34	0.39 (4.0)	0.02~0.15	25~42	0.22 (2.2)
			NX-VFC323-1.5D	1.5		0.10	48	41	0.47 (4.8)	0.02~0.15	32~53	0.27 (2.8)
_			NX-VFC324-2.2D	2.2		0.10	65	55	0.64 (6.5)	0.02~0.15	43~76	0.37 (3.8)
suction			NX-VFC401-1.1D	1.1		0.20	19	16	0.21 (2.1)	0.02~0.25	15~26	0.12 (1.2)
ct			NX-VFC402-1.5D	1.5		0.20	28	24	0.28 (2.9)	0.02~0.28	20~34	0.17 (1.7)
	40	40	NX-VFC402-2.2D	2.2	3-phase,	0.20	40	34	0.39 (4.0)	0.02~0.28	29~48	0.25 (2.5)
Positive	40	40	NX-VFC402-3.7D	3.7	380-440	0.20	49	42	0.48 (4.9)	0.02~0.30	32~57	0.27 (2.8)
 			NX-VFC403-3.7D	3.7		0.20	55	47	0.54 (5.5)	0.02~0.30	39~70	0.33 (3.4)
ĕ			NX-VFC403-5.5D	5.5		0.20	76	65	0.75 (7.6)	0.02~0.30	48~85	0.42 (4.3)
_			NX-VFC501-1.5D	1.5		0.30	15	13	0.18 (1.8)	0.02~0.36	12~20	0.10 (1.0)
			NX-VFC502-2.2D	2.2		0.30	26	22	0.26 (2.7)	0.02~0.37	18~31	0.15 (1.5)
	50	50	NX-VFC502-3.7D	3.7		0.30	41	35	0.40 (4.1)	0.02~0.42	26~47	0.23 (2.3)
			NX-VFC503-5.5D	5.5		0.30	61	52	0.60 (6.1)	0.02~0.44	39~64	0.34 (3.5)
			NX-VFC503-7.5D	7.5		0.30	73	62	0.72 (7.3)	$0.02 \sim 0.45$	49~85	0.42 (4.3)
			NX-VFC652-3.7D	3.7		0.45	24	20	0.25 (2.5)	0.02~0.54	17~31	0.15 (1.5)
	65	65	NX-VFC652-5.5D	5.5		0.45	39	33	0.38 (3.9)	0.02~0.55	29~48	0.25 (2.5)
			NX-VFC653-7.5D	7.5		0.45	55	47	0.54 (5.5)	0.02~0.58	39~64	0.34 (3.5)

Note 1) When the water level is more than 5m below the pump inlet, please consult us.

Note 2) The pressure tank loading may vary depending on the total discharge head

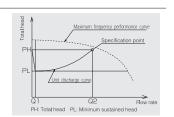
How to read the selection chart and specifications table



- 1. The total head is displayed by the difference of the unit piping pressure loss subtracted from the pump performance.
- 2. The displayed head shows the case of 0 m push-in head. The value varies depending on the suction side conditions.
- 3. The discharge head specifications range is the settable range of the total head and minimum sustained head.

Description of operation (automatic alternate pump operation)

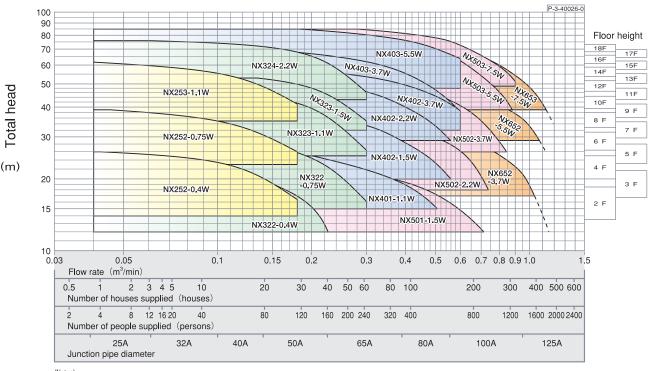
- 1. When water is not used, the pump stops.
- 2. When water is used and the pressure inside the piping drops below the specified pressure, the pump immediately starts.
- 3. Up to maximum flow rate Q2, the speed is controlled by an inverter to match the change of the amount of water used and estimated end pressure fixed control is implemented.
- 4. If the amount of water used decreases and drops below the specified flow rate for operation, the pump stops.
- 5. When water is used again, the pump that previously entered the standby state starts and the same operation as that described above is performed.



Selection chart / specifications table < Automatic parallel pump operation Positive suction

NX-VFC-W_{Parallel}

▼ Positive suction

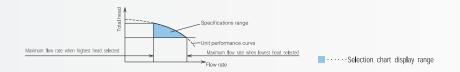


- Total head indicates the pump total head when the water level was made the standard instead of the pressure set value.
- When selecting the model from the selection chart, calculate the total head based on the water level. The pressure set value (total head and minimum sustained head) is the value with the head from the water level to the pressure transmitter installation position adjusted. (When the water level is lower than the pressure transmitter installation position, only that portion is subtracted and when it is higher, only that portion is added.)

	Nominal	l dia. mm					Standa	ard specifica	ations	Specificat	ions range	Pressure
Suction	Pump suction	Unit discharge	Model	Output kWx2	Phase and voltage V	Max. flow rate m³/min	Total head m	Min. sustained head m	Stop pressure (approximate value) MPa (kgf/m²)	Flow rate m³/min	Discharge head selection range m	tank loading MPa (kgf/m²)
			NX-40VFC252-0.4W	0.4		0.12	22	19	0.24 (2.4)	0.04~0.18	14~26	0.12 (1.2)
	25	40	NX-40VFC252-0.75W	0.75		0.12	32	27	0.31 (3.2)	0.04~0.18	23~39	0.20 (2.0)
			NX-40VFC253-1.1W	1.1		0.12	52	44	0.51 (5.2)	0.04~0.18	35~62	0.30 (3.1)
			NX-50VFC322-0.4W	0.4		0.20	15	13	0.18 (1.8)	0.04~0.22	12~21	0.10 (1.0)
			NX-50VFC322-0.75W	0.75		0.20	24	20	0.25 (2.5)	0.04~0.30	15~26	0.12 (1.2)
	32	50	NX-50VFC323-1.1W	1.1		0.20	39	33	0.38 (3.9)	0.04~0.30	25~42	0.22 (2.2)
			NX-50VFC323-1.5W	1.5		0.20	48	41	0.47 (4.8)	0.04~0.30	32~53	0.27 (2.8)
_			NX-50VFC324-2.2W	2.2		0.20	65	55	0.64 (6.5)	0.04~0.30	43~76	0.37 (3.8)
suction			NX-65VFC401-1.1W	1.1		0.40	18	15	0.20 (2.0)	0.04~0.50	15~26	0.12 (1.2)
ct			NX-65VFC402-1.5W	1.5		0.40	28	24	0.28 (2.9)	0.04~0.56	20~34	0.17 (1.7)
	40	65	NX-65VFC402-2.2W	2.2	3-phase,	0.40	40	34	0.39 (4.0)	0.04~0.56	29~48	0.25 (2.5)
_ ^e	40	05	NX-65VFC402-3.7W	3.7	380-440	0.40	49	42	0.48 (4.9)	0.04~0.60	32~57	0.27 (2.8)
i i			NX-65VFC403-3.7W	3.7		0.40	55	47	0.54 (5.5)	0.04~0.60	39~70	0.33 (3.4)
Positive			NX-65VFC403-5.5W	5.5		0.40	76	65	0.75 (7.6)	0.04~0.60	48~85	0.42 (4.3)
_			NX-65VFC501-1.5W	1.5		0.60	14	12	0.17 (1.7)	0.04~0.71	12~20	0.10 (1.0)
			NX-65VFC502-2.2W	2.2		0.60	26	22	0.26 (2.7)	0.04~0.73	18~31	0.15 (1.5)
	50	65	NX-65VFC502-3.7W	3.7		0.60	40	34	0.39 (4.0)	0.04~0.84	26~47	0.23 (2.3)
			NX-65VFC503-5.5W	5.5		0.60	61	52	0.60 (6.1)	0.04~0.87	39~64	0.34 (3.5)
			NX-65VFC503-7.5W	7.5		0.60	73	62	0.72 (7.3)	0.04~0.90	49~85	0.42 (4.3)
			NX-80VFC652-3.7W	3.7		0.90	22	19	0.24 (2.4)	0.04~1.04	17~31	0.15 (1.5)
	65	80	NX-80VFC652-5.5W	5.5		0.90	37	31	0.36 (3.7)	0.04~1.07	29~48	0.25 (2.5)
			NX-80VFC653-7.5W	7.5		0.90	54	46	0.53 (5.4)	0.04~1.12	39~64	0.34 (3.5)

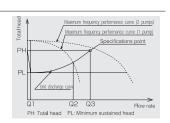
Note 1) When the water level is more than 5m below the pump inlet, please consult us.

Note 2) The pressure tank loading may vary depending on the total discharge head



Description of operation (Automatic alternate and parallel pump operation)

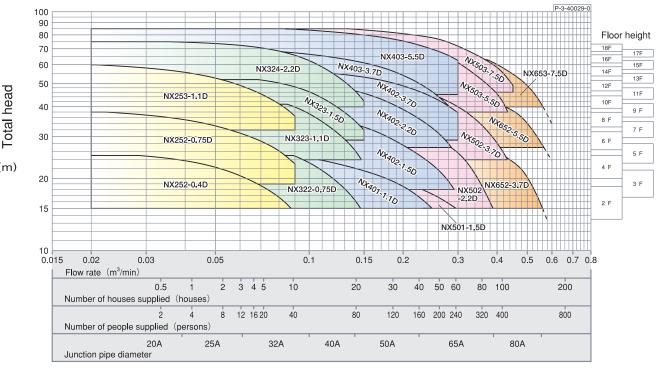
- 2. When water is used and the pressure in the piping drops below the specified pressure, the pump is immediately started.
- 3. Up to maximum flow rate Q3, the speed is controlled by an inverter to match the change of the amount of water used and estimated end pressure fixed control is implemented.
- 4. When the amount of water used during independent operation increases and reaches parallel flow rate Q2, the pump that is standing by is tracking started and estimated end pressure fixed control is continued.
- 5. When the amount of water used drops below the parallel flow rate Q2 during parallel operation, the pump that was tracking started is stopped.
- 6. When the amount of water used during independent operation drops below the specified flow rate, the pump stops.
- 7. When water is used again, the pump that was previously standing by starts and the same operation as that described above is performed.



Selection chart / specifications table < Automatic alternate pump operation | Negative suction | >

NX-VFC-D_{Alternate}

▼ Negative suction



- Total head indicates the pump total head when the water level was made the standard instead of the pressure set value.

 When selecting the model from the selection chart, calculate the total head based on the water level.

 The pressure set value (total head and minimum sustained head) is the value with the head from the water level to the pressure transmitter installation position adjusted. (When the water level is lower than the pressure transmitter installation position, only that portion is subtracted and when it is higher, only that portion is added.)

	Nominal	dia. mm					Standa	ard specificat	ions	Specification	ons range	Pressure
Suction	Pump suction	Unit discharge	Model	Output kW	Phase and voltage V	Max. flow rate m³/min	Total head m	Min. sustained head m	Stop pressure (approximate value) MPa (kgf/m²)	Flow rate m³/min	Discharge head selection range m	tank loading MPa (kgf/m²)
			NX-VFC252-0.4D	0.4		0.06	21	18	0.23 (2.3)	0.02~0.085	15~25	0.09 (0.9)
	25	25	NX-VFC252-0.75D	0.75		0.06	31	26	0.30 (3.1)	0.02~0.09	19~38	0.17 (1.7)
			NX-VFC253-1.1D	1.1		0.06	52	44	0.51 (5.2)	0.02~0.09	32~60	0.27 (2.8)
			NX-VFC322-0.75D	0.75		0.10	23	20	0.25 (2.5)	0.02~0.14	15~25	0.12 (1.2)
	32	32	NX-VFC323-1.1D	1.1		0.10	37	31	0.36 (3.7)	0.02~0.14	24~41	0.21 (2.1)
	32	32	NX-VFC323-1.5D	1.5		0.10	46	39	0.45 (4.6)	0.02~0.15	29~52	0.25 (2.5)
			NX-VFC324-2.2D	2.2		0.10	62	53	0.61 (6.2)	0.02~0.15	40~75	0.34 (3.5)
<u> </u>			NX-VFC401-1.1D	1.1		0.20	18	15	0.20 (2.0)	0.02~0.24	15~25	0.10 (1.0)
suction			NX-VFC402-1.5D	1.5		0.20	27	23	0.27 (2.8)	0.02~0.29	18~34	0.16 (1.6)
l ons	40	40	NX-VFC402-2.2D	2.2	3-phase,	0.20	38	32	0.37 (3.8)	0.02~0.28	27~48	0.24 (2.4)
	40	40	NX-VFC402-3.7D	3.7	380-440	0.20	48	41	0.47 (4.8)	0.02~0.30	29~57	0.25 (2.5)
Negative			NX-VFC403-3.7D	3.7		0.20	54	46	0.53 (5.4)	0.02~0.30	36~70	0.31 (3.2)
l g			NX-VFC403-5.5D	5.5		0.20	73	62	0.72 (7.3)	0.02~0.30	45~85	0.39 (4.0)
ž			NX-VFC501-1.5D	1.5		0.29	15	13	0.18 (1.8)	0.02~0.29	15~20	0.07 (0.7)
			NX-VFC502-2.2D	2.2		0.30	25	21	0.25 (2.6)	0.02~0.38	15~31	0.13 (1.3)
	50	50	NX-VFC502-3.7D	3.7		0.30	40	34	0.39 (4.0)	0.02~0.44	23~47	0.20 (2.0)
		l	NX-VFC503-5.5D	5.5		0.30	61	52	0.60 (6.1)	0.02~0.43	38~64	0.33 (3.4)
			NX-VFC503-7.5D	7.5		0.30	71	60	0.70 (7.1)	0.02~0.45	46~85	0.40 (4.1)
			NX-VFC652-3.7D	3.7		0.45	23	20	0.25 (2.5)	0.02~0.56	15~31	0.12 (1.2)
	65	65	NX-VFC652-5.5D	5.5		0.45	39	33	0.38 (3.9)	0.02~0.56	27~47	0.24 (2.4)
			NX-VFC653-7.5D	7.5		0.45	54	46	0.53 (5.4)	0.02~0.56	40~63	0.34 (3.5)

Note 1) At water temperature 20℃, the suction head becomes total head -6m (actual head -4m).

Note 2) The pressure tank loading may vary depending on the total discharge head. Note 3) 1kgf/cm2=0.098MPa.

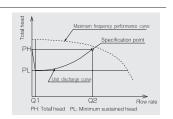
How to read the selection chart and specifications table



- 1. The total head is displayed by the difference of the unit piping pressure loss subtracted from the pump performance.
- 2. The displayed head shows the case of 0 m push-in head. The value varies depending on the suction side conditions.
- 3. The discharge head specifications range is the settable range of the total head and minimum sustained head.

Description of operation (automatic alternate pump operation)

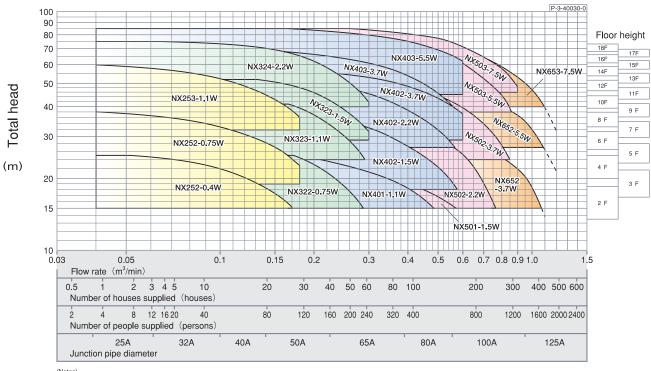
- 1. When water is not used, the pump stops.
- 2. When water is used and the pressure inside the piping drops below the specified pressure, the pump immediately starts.
- 3. Up to maximum flow rate Q2, the speed is controlled by an inverter to match the change of the amount of water used and estimated end pressure fixed control is implemented.
- 4. If the amount of water used decreases and drops below the specified flow rate for operation, the pump stops.
- 5. When water is used again, the pump that previously entered the standby state starts and the same operation as that described above is performed.



Selection chart / specifications table < Automatic parallel pump operation | Negative suction

NX-VFC-W_{Parallel}

▼ Negative suction



- 1. Total head indicates the pump total head when the water level was made the standard instead of the pressure set value.

 2. When selecting the model from the selection chart, calculate the total head based on the water level.

 3. The pressure set value (total head and minimum sustained head) is the value with the head from the water level to the pressure transmitter installation position adjusted. (When the water level is lower than the pressure transmitter installation position, only that portion is subtracted and when it is higher, only that portion is added.)

	Nominal	dia. mm					Standa	rd specificat	ons	Specification	ons range	Pressure
Suction	Pump suction	Unit discharge	Model	Output kWx2	Phase and voltage V	Max. flow rate m³/min	Total head m	Min. sustained head m	Stop pressure (approximate value) MPa (kgf/m²)	Flow rate m³/min	Discharge head selection range m	tank loading MPa (kgf/m²)
			NX-40VFC252-0.4W	0.4		0.12	20	17	0.22 (2.2)	0.04~0.17	15~25	0.09 (0.9)
	25	40	NX-40VFC252-0.75W	0.75		0.12	30	26	0.30 (3.1)	0.04~0.18	19~38	0.17 (1.7)
			NX-40VFC253-1.1W	1.1		0.12	48	41	0.47 (4.8)	0.04~0.18	32~60	0.27 (2.8)
			NX-50VFC322-0.75W	0.75		0.20	23	20	0.25 (2.5)	0.04~0.28	15~25	0.12 (1.2)
	32	50	NX-50VFC323-1.1W	1.1		0.20	37	31	0.36 (3.7)	0.04~0.29	24~41	0.21 (2.1)
	32	"	NX-50VFC323-1.5W	1.5		0.20	45	38	0.44 (4.5)	0.04~0.30	29~52	0.25 (2.5)
			NX-50VFC324-2.2W	2.2		0.20	62	53	0.61 (6.2)	0.04~0.30	40~75	0.34 (3.5)
E .			NX-65VFC401-1.1W	1.1		0.40	18	15	0.20 (2.0)	0.04~0.48	15~25	0.10 (1.0)
suction			NX-65VFC402-1.5W	1.5		0.40	27	23	0.27 (2.8)	0.04~0.57	18~34	0.16 (1.6)
l ä	40	65	NX-65VFC402-2.2W	2.2	3-phase,	0.40	38	32	0.37 (3.8)	0.04~0.56	27~48	0.24 (2.4)
	40	65	NX-65VFC402-3.7W	3.7	380-440	0.40	48	41	0.47 (4.8)	0.04~0.60	29~57	0.25 (2.5)
Negative			NX-65VFC403-3.7W	3.7		0.40	54	46	0.53 (5.4)	0.04~0.60	36~70	0.31 (3.2)
g			NX-65VFC403-5.5W	5.5		0.40	73	62	0.72 (7.3)	0.04~0.60	45~85	0.39 (4.0)
ž			NX-65VFC501-1.5W	1.5		0.57	14	12	0.17 (1.7)	0.04~0.57	15~20	0.07 (0.7)
			NX-65VFC502-2.2W	2.2		0.60	25	21	0.25 (2.6)	0.04~0.76	15~31	0.13 (1.3)
	50	65	NX-65VFC502-3.7W	3.7		0.60	39	33	0.38 (3.9)	0.04~0.85	23~47	0.20 (2.0)
		[NX-65VFC503-5.5W	5.5		0.60	60	51	0.59 (6.0)	0.04~0.86	38~64	0.33 (3.4)
			NX-65VFC503-7.5W	7.5		0.60	71	60	0.70 (7.1)	0.04~0.90	46~85	0.40 (4.1)
			NX-80VFC652-3.7W	3.7		0.90	22	19	0.24 (2.4)	0.04~1.06	15~31	0.12 (1.2)
	65	80	NX-80VFC652-5.5W	5.5		0.90	36	31	0.35 (3.6)	0.04~1.08	27~47	0.24 (2.4)
			NX-80VFC653-7.5W	7.5		0.90	53	45	0.52 (5.3)	0.04~1.10	40~63	0.34 (3.5)

Note 1) At water temperature 20°C, the suction head becomes total head -6m (actual head -4m).

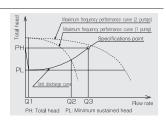
Note 2) The pressure tank loading may vary depending on the total discharge head

Note 3) 1kgf/cm2=0.098MPa



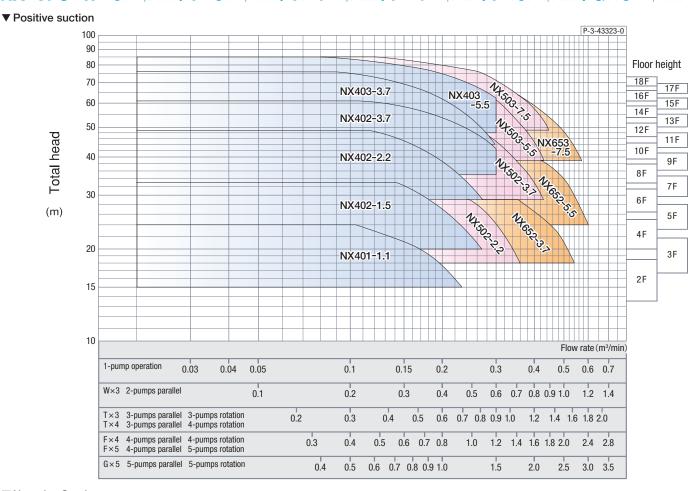
Description of operation (Automatic alternate and parallel pump operation)

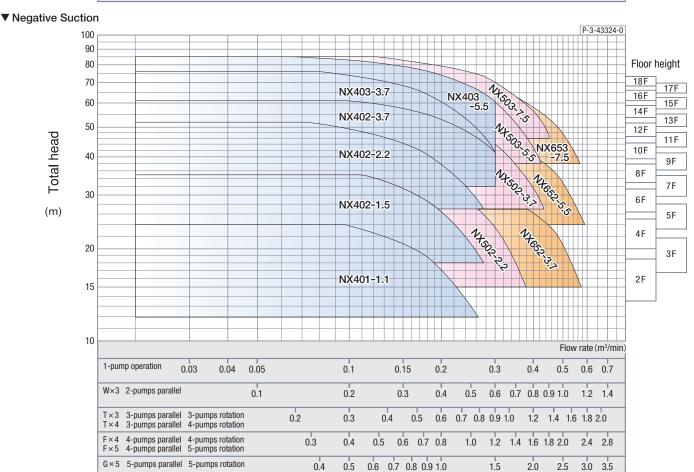
- 2. When water is used and the pressure in the piping drops below the specified pressure, the pump is immediately started
- 3. Up to maximum flow rate Q3, the speed is controlled by an inverter to match the change of the amount of water used and estimated end pressure fixed control is implemented.
- 4. When the amount of water used during independent operation increases and reaches parallel flow rate Q2, the pump that is standing by is tracking started and estimated end pressure fixed control is continued.
- 5. When the amount of water used drops below the parallel flow rate Q2 during parallel operation, the pump that was tracking started is stopped.
- 6. When the amount of water used during independent operation drops below the specified flow rate, the pump stops.
- 7. When water is used again, the pump that was previously standing by starts and the same operation as that described above is performed.



Selection chart < Multiple pump control >

NX-VFC-W×3²-Pumps Parallel / T×3³-Pumps Rotation / T×4³-Pumps Rotation / F×4⁴-Pumps Rotation / F×5⁵-Pumps Rotation / G×5⁵-Pumps Rotation /





Specifications table < Multiple pump control >

NX-VFC-W×3^{2-Pumps Parallel}/T×3^{3-Pumps Parallel}/T×4^{3-Pumps Parallel}/F×4^{4-Pumps Parallel}/F×5^{4-Pumps Parallel}/G×5^{5-Pumps Parallel}/G×5^{5-Pumps Parallel}/G×5^{5-Pumps Parallel}/G×5^{5-Pumps Parallel}/G×5^{5-Pumps Parallel}/F×5^{6-Pumps Parallel}/G×5^{6-Pumps Parallel}/F×5^{6-Pumps Parallel}/G×5^{6-Pumps Parallel}/F×5^{6-Pumps Par}

▼ Positive suction

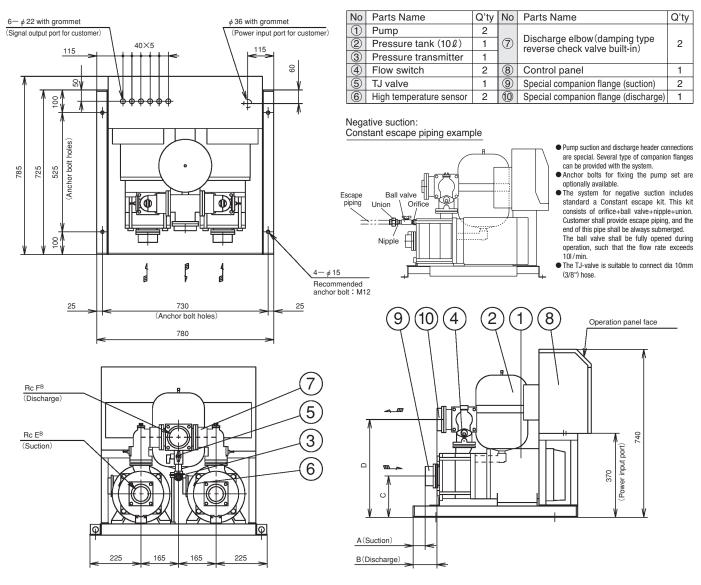
	Diamete	er (mm)				Phase		Standard	d Specificati	ons		Specifi	ed range	Pressu	re tank
Suction	Pump suction	Unit discharge		Model	Output (kW)	and Voltage	Max. flow rate (m³/min)	Total head (m)	Min. sustained head(m)	Stop pr (approxim	ressure late value)	Flow rate (m³/min)	Discharge head selection range(m)	loa	ding (gf/cm²)
				NX-65VFC401-1.1W×3	1.1		0.4	17	14	0.19	(1.9)	0.04~0.46	15~24	0.12	(1.2)
				NX-65VFC402-1.5W×3	1.5	1	0.4	27	23	0.27	(2.8)	0.04~0.53	20~33	0.17	(1.7)
	40			NX-65VFC402-2.2W×3	2.2	1	0.4	38	32	0.37	(3.8)	0.04~0.54	29~49	0.25	(2.5)
	40		<u>e</u>	NX-65VFC402-3.7W×3	3.7	1	0.4	53	45	0.52	(5.3)	0.04~0.60	35~61	0.30	(3.1)
		0-	<u> </u>	NX-65VFC403-3.7W×3	3.7]	0.4	61	52	0.60	(6.1)	0.04~0.59	44~76	0.38	(3.9)
		65	Parallel	NX-65VFC403-5.5W×3	5.5		0.4	74	63	0.73	(7.4)	0.04~0.60	48~85	0.42	(4.3)
			S	NX-65VFC502-2.2W×3	2.2		0.6	24	20	0.25	(2.5)	0.04~0.71	18~29	0.15	(1.5)
	50		Ĕ	NX-65VFC502-3.7W×3	3.7		0.6	45	38	0.44	(4.5)	0.04~0.85	29~47	0.25	(2.6)
	- 00		2-Pumps	NX-65VFC503-5.5W×3	5.5		0.6	61	52	0.60	(6.1)	0.04~0.85	39~61	0.34	(3.5)
			7	NX-65VFC503-7.5W×3	7.5		0.6	71	60	0.70	(7.1)	0.04~0.89	49~85	0.42	(4.3)
				NX-80VFC652-3.7W×3	3.7		1.0	21	18	0.23	(2.3)	0.04~1.08	18~29	0.15	(1.5)
	65	80		NX-80VFC652-5.5W×3	5.5		1.0	34	29	0.33	(3.4)	0.04~1.20	24~39	0.21	(2.1)
				NX-80VFC653-7.5W×3	7.5		1.0	48	41	0.47	(4.8)	0.04~1.14	39~64	0.34	(3.5)
				NX-80VFC401-1.1T×3(4)	1.1		0.6	17	14	0.19	(1.9)	0.06~0.69	15~24	0.12	(1.2)
				NX-80VFC402-1.5T×3(4)	1.5 2.2		0.6	27 38	23	0.27	(2.8)	0.06~0.80 0.06~0.81	20~33 29~49	0.17	(1.7)
	40	80	_	NX-80VFC402-2.2T×3(4)	3.7		0.6	53	32	0.37	(3.8)	0.06~0.81	35~61	0.25	(2.5)
			Parallel	NX-80VFC402-3.7T×3(4) NX-80VFC403-3.7T×3(4)	3.7		0.6	61	45 52	0.52	(6.1)	0.06~0.89	44~76	0.30	(3.1)
			ar	NX-80VFC403-3.71X3(4)	5.5	-	0.6	74	63	0.60	(7.4)	0.06~0.89	48~85	0.36	(4.3)
			<u> </u>	NX-100VFC502-2.2T×3(4)	2.2		0.9	24	20	0.75	(2.5)	0.06~1.07	18~29	0.15	(1.5)
			3-Pumps	NX-100VFC502-3.7T×3(4)	3.7	+	0.9	45	38	0.23	(4.5)	0.06~1.28	29~47	0.15	(2.6)
=	50	100	Ë	NX-100VFC503-5.5T×3(4)	5.5	1	0.9	61	52	0.60	(6.1)	0.06~1.29	39~61	0.34	(3.5)
.9			4	NX-100VFC503-7.5T×3(4)	7.5	1	0.9	71	60	0.70	(7.1)	0.06~1.33	49~85	0.42	(4.3)
t			က်	NX-125VFC652-3.7T×3(4)	3.7		1.5	21	18	0.23	(2.3)	0.06~1.62	18~29	0.15	(1.5)
suction	65	125		NX-125VFC652-5.5T×3(4)	5.5	1	1.5	34	29	0.33	(3.4)	0.06~1.80	24~39	0.21	(2.1)
				NX-125VFC653-7.5T×3(4)	7.5	3-phase.	1.5	48	41	0.47	(4.8)	0.06~1.71	39~64	0.34	(3.5)
O				NX-80VFC401-1.1F×4(5)	1.1	380-440	0.8	17	14	0.19	(1.9)	0.08~0.92	15~24	0.12	(1.2)
.≥				NX-80VFC402-1.5F×4(5)	1.5		0.8	27	23	0.27	(2.8)	0.08~1.07	20~33	0.17	(1.7)
#	40	80		NX-80VFC402-2.2F×4(5)	2.2		0.8	38	32	0.37	(3.8)	0.08~1.08	29~49	0.25	(2.5)
၂	40	00	<u>=</u>	NX-80VFC402-3.7F×4(5)	3.7		0.8	53	45	0.52	(5.3)	0.08~1.20	35~61	0.30	(3.1)
Positive			Parallel	NX-80VFC403-3.7F×4(5)	3.7		8.0	61	52	0.60	(6.1)	0.08~1.19	44~76	0.38	(3.9)
_			P _B	NX-80VFC403-5.5F×4(5)	5.5		0.8	74	63	0.73	(7.4)	0.08~1.20	48~85	0.42	(4.3)
			SC	NX-100VFC502-2.2F×4(5)	2.2		1.2	24	20	0.25	(2.5)	0.08~1.43	18~29	0.15	(1.5)
	50	100	Ē	NX-100VFC502-3.7F×4(5)	3.7	ļ	1.2	45	38	0.44	(4.5)	0.08~1.71	29~47	0.25	(2.6)
			4-Pumps	NX-100VFC503-5.5F×4(5)	5.5		1.2	61	52	0.60	(6.1)	0.08~1.71	39~61	0.34	(3.5)
			4	NX-100VFC503-7.5F×4(5) NX-125VFC652-3.7F×4(5)	7.5		1.2	71 21	60 18	0.70	(7.1)	0.08~1.78 0.08~2.16	49~85 18~29	0.42	(4.3)
	65	125		NX-125VFC652-3.7FX4(5) NX-125VFC652-5.5FX4(5)	5.5		2.0	34	29	0.23	(3.4)	0.08~2.16	24~39	0.15 0.21	(2.1)
	05	125		NX-125VFC652-5.5FX4(5)	7.5		2.0	48	41	0.33	(4.8)	0.08~2.40	39~64	0.21	(3.5)
				NX-100VFC401-1.1G×5	1.1		1.0	17	14	0.47	(1.9)	0.1~1.15	15~24	0.12	(1.2)
				NX-100VFC401-1.1GX5	1.5		1.0	27	23	0.19	(2.8)	0.1~1.34	20~33	0.12	(1.7)
				NX-100VFC402-2.2G×5	2.2	1	1.0	38	32	0.37	(3.8)	0.1~1.35	29~49	0.25	(2.5)
	40	100	<u> </u>	NX-100VFC402-3.7G×5	3.7	1	1.0	53	45	0.52	(5.3)	0.1~1.50	35~61	0.30	(3.1)
			Parallel	NX-100VFC403-3.7G×5	3.7	1	1.0	61	52	0.60	(6.1)	0.1~1.48	44~76	0.38	(3.9)
			a	NX-100VFC403-5.5G×5	5.5	1	1.0	74	63	0.73	(7.4)	0.1~1.50	48~85	0.42	(4.3)
			S	NX-125VFC502-2.2G×5	2.2	1	1.5	24	20	0.25	(2.5)	0.1~1.79	18~29	0.15	(1.5)
	50	125	윤	NX-125VFC502-3.7G×5	3.7		1.5	45	38	0.44	(4.5)	0.1~2.14	29~47	0.25	(2.6)
	50	125	٦	NX-125VFC503-5.5G×5	5.5		1.5	61	52	0.60	(6.1)	0.1~2.14	39~61	0.34	(3.5)
			5-Pumps	NX-125VFC503-7.5G×5	7.5		1.5	71	60	0.70	(7.1)	0.1~2.23	49~85	0.42	(4.3)
			4,	NX-150VFC652-3.7G×5	3.7		2.5	21	18	0.23	(2.3)	0.1~2.70	18~29	0.15	(1.5)
	65	150		NX-150VFC652-5.5G×5	5.5		2.5	34	29	0.33	(3.4)	0.1~3.00	24~39	0.21	(2.1)
				NX-150VFC653-7.5G×5	7.5		2.5	48	41	0.47	(4.8)	0.1~2.85	39~64	0.34	(3.5)

▼ Negative Suction

	Diamete	er (mm)				Phase		Standar	d Specificati	ons		Specifi	ed range	Pressu	re tank
Suction condition	Pump suction	Unit discharge		Model	Output (kW)	and Voltage	Max. flow rate (m³/min)	Total head (m)	Min. sustained head(m)		ressure nate value)	Flow rate (m³/min)	Discharge head selection range(m)	loa	ding agf/cm²)
				NX-65VFC401-1.1W×3	1.1		0.4	17	14	0.19	(1.9)	0.04~0.52	12~24	0.10	(1.0)
				NX-65VFC402-1.5W×3	1.5		0.4	26	22	0.26	(2.7)	0.04~0.54	18~35	0.16	(1.6)
	40			NX-65VFC402-2.2W×3	2.2		0.4	37	31	0.36	(3.7)	0.04~0.54	27~52	0.24	(2.4)
	40		<u> </u>	NX-65VFC402-3.7W×3	3.7		0.4	53	45	0.52	(5.3)	0.04~0.60	32~61	0.28	(2.9)
		65	Parallel	NX-65VFC403-3.7W×3	3.7		0.4	60	51	0.59	(6.0)	0.04~0.60	41~76	0.35	(3.6)
		65	Ъ	NX-65VFC403-5.5W×3	5.5		0.4	73	62	0.72	(7.3)	0.04~0.60	41~85	0.39	(4.0)
			2	NX-65VFC502-2.2W×3	2.2		0.6	23	20	0.25	(2.5)	0.04~0.75	15~27	0.13	(1.3)
	50		2-Pumps	NX-65VFC502-3.7W×3	3.7		0.6	43	37	0.42	(4.3)	0.04~0.86	27~43	0.24	(2.4)
	50		ጆ	NX-65VFC503-5.5W×3	5.5		0.6	60	51	0.59	(6.0)	0.04~0.85	38~60	0.33	(3.4)
			Ψ.	NX-65VFC503-7.5W×3	7.5	1	0.6	70	60	0.69	(7.0)	0.04~0.89	46~85	0.40	(4.1)
			2	NX-80VFC652-3.7W×3	3.7	1	1.0	20	17	0.22	(2.2)	0.04~1.14	15~27	0.13	(1.3)
	65	80		NX-80VFC652-5.5W×3	5.5	1	1.0	32	27	0.31	(3.2)	0.04~1.18	24~38	0.21	(2.1)
				NX-80VFC653-7.5W×3	7.5	1	1.0	47	40	0.46	(4.7)	0.04~1.13	38~62	0.33	(3.4)
				NX-80VFC401-1.1T×3(4)	1.1		0.6	17	14	0.19	(1.9)	0.06~0.79	12~24	0.10	(1.0)
				NX-80VFC402-1.5T×3(4)	1.5	1	0.6	26	22	0.26	(2.7)	0.06~0.82	18~35	0.16	(1.6)
	4.0			NX-80VFC402-2.2T×3(4)	2.2	1	0.6	37	31	0.36	(3.7)	0.06~0.82	27~52	0.24	(2.4)
	40	80	Parallel	NX-80VFC402-3.7T×3(4)	3.7	1	0.6	53	45	0.52	(5.3)	0.06~0.90	32~61	0.28	(2.9)
			77	NX-80VFC403-3.7T×3(4)	3.7	1	0.6	60	51	0.59	(6.0)	0.06~0.90	41~76	0.35	(3.6)
			ď	NX-80VFC403-5.5T×3(4)	5.5	i	0.6	73	62	0.72	(7.3)	0.06~0.90	41~85	0.39	(4.0)
			<u></u>	NX-100VFC502-2.2T×3(4)	2.2		0.9	23	20	0.25	(2.5)	0.06~1.13	15~27	0.13	(1.3)
_			3-Pumps	NX-100VFC502-3.7T×3(4)	3.7	1	0.9	43	37	0.42	(4.3)	0.06~1.30	27~43	0.24	(2.4)
Suction	50	100	듬	NX-100VFC503-5.5T×3(4)	5.5	1	0.9	60	51	0.59	(6.0)	0.06~1.27	38~60	0.33	(3.4)
÷			4	NX-100VFC503-7.5T×3(4)	7.5	1	0.9	70	60	0.69	(7.0)	0.06~1.35	46~85	0.40	(4.1)
Ö			က်	NX-125VFC652-3.7T×3(4)	3.7		1.5	20	17	0.22	(2.2)	0.06~1.72	15~27	0.13	(1.3)
Ξ	65	125		NX-125VFC652-5.5T×3(4)	5.5	1	1.5	32	27	0.31	(3.2)	0.06~1.76	24~38	0.21	(2.1)
	00	120		NX-125VFC653-7.5T×3(4)	7.5	3-phase,	1.5	47	40	0.46	(4.7)	0.06~1.70	38~62	0.33	(3.4)
Negative				NX-80VFC401-1.1F×4(5)	1.1	380-440	0.8	17	14	0.19	(1.9)	0.08~1.05	12~24	0.10	(1.0)
.≥				NX-80VFC402-1.5F×4(5)	1.5	360-440	0.8	26	22	0.26	(2.7)	0.08~1.10	18~35	0.16	(1.6)
モ				NX-80VFC402-2.2F×4(5)	2.2	-	0.8	37	31	0.36	(3.7)	0.08~1.09	27~52	0.10	(2.4)
9	40	80	<u></u>	NX-80VFC402-3.7F×4(5)	3.7	-	0.8	53	45	0.52	(5.3)	0.08~1.20	32~61	0.24	(2.9)
ω,			Parallel	NX-80VFC402-3.7F×4(5)	3.7	-	0.8	60	51	0.52	(6.0)	0.08~1.20	41~76	0.35	(3.6)
~			ä	NX-80VFC403-5.7FX4(5)	5.5	-	0.8	73	62	0.59	(7.3)	0.08~1.20	41~85	0.39	(4.0)
_			Δ.	NX-100VFC502-2.2F×4(5)	2.2		1.2	23	20	0.72	(2.5)	0.08~1.51	15~27		(1.3)
			g	NX-100VFC502-2.2FX4(5)		-	1.2	43			(4.3)	0.08~1.73	27~43	0.13	(2.4)
	50	100	트	NX-100VFC502-3.7FX4(5)	3.7 5.5	-	1.2	60	37 51	0.42	(6.0)	0.08~1.70	38~60	0.24	(3.4)
			4-Pumps		7.5		1.2	70	60	0.59	(7.0)	0.08~1.70	46~85	0.33	(4.1)
			4	NX-100VFC503-7.5F×4(5) NX-125VFC652-3.7F×4(5)	3.7		2.0	20	17	0.69	(2.2)	0.08~1.80	15~27	0.40	(1.3)
	65	125		NX-125VFC652-5.7FX4(5)	5.5	-		32			(3.2)	0.08~2.29	24~38		(2.1)
	65	125					2.0		27	0.31				0.21	
				NX-125VFC653-7.5F×4(5)	7.5		2.0	47	40	0.46	(4.7)	0.08~2.27	38~62	0.33	(3.4)
				NX-100VFC401-1.1G×5	1.1		1.0	17	14	0.19	(1.9)	0.1~1.32	12~24	0.10	(1.0)
				NX-100VFC402-1.5G×5	1.5		1.0	26	22	0.26	(2.7)	0.1~1.37	18~35	0.16	(1.6)
	40	100	_	NX-100VFC402-2.2G×5	2.2		1.0	37	31	0.36	(3.7)	0.1~1.37	27~52	0.24	(2.4)
			₽	NX-100VFC402-3.7G×5	3.7		1.0	53	45	0.52	(5.3)	0.1~1.50	32~61	0.28	(2.9)
			<u>a</u>	NX-100VFC403-3.7G×5	3.7		1.0	60	51	0.59	(6.0)	0.1~1.50	41~76	0.35	(3.6)
			Parallel	NX-100VFC403-5.5G×5	5.5		1.0	73	62	0.72	(7.3)	0.1~1.50	41~85	0.39	(4.0)
				NX-125VFC502-2.2G×5	2.2		1.5	23	20	0.25	(2.5)	0.1~1.88	15~27	0.13	(1.3)
	50	125	5-Pumps	NX-125VFC502-3.7G×5	3.7		1.5	43	37	0.42	(4.3)	0.1~2.16	27~43	0.24	(2.4)
		120	٦	NX-125VFC503-5.5G×5	5.5		1.5	60	51	0.59	(6.0)	0.1~2.12	38~60	0.33	(3.4)
			Ī	NX-125VFC503-7.5G×5	7.5		1.5	70	60	0.69	(7.0)	0.1~2.25	46~85	0.40	(4.1)
			4,	NX-150VFC652-3.7G×5	3.7		2.5	20	17	0.22	(2.2)	0.1~2.87	15~27	0.13	(1.3)
	65	150		NX-150VFC652-5.5G×5	5.5		2.5	32	27	0.31	(3.2)	0.1~2.94	24~38	0.21	(2.1)
	I	1		NX-150VFC653-7.5G×5	7.5		2.5	47	40	0.46	(4.7)	0.1~2.84	38~62	0.33	(3.4)

Dimensional outline drawing

NX-VFC-DAlternate / W Parallel



Caution

- The drawings are typical, shape may vary somewhat depending on the pump type and specifications.
- Specifications may change due to design modifications. Updated delivery specifications are available upon request.

(Units	mn
(UIIIIS	111111

	nal dia	Model	A	В	С	D	E	F	Approx. weigh
Suction	Discharge						inch	inch	kg
		NX-VFC252-0.4D	116						104
25	25	NX-VFC252-0.75D	110	133			1	1	113
		NX-VFC253-1.1D	84						121
		NX-VFC322-0.4D%	114			387			104
		NX-VFC322-0.75D	114			307			112
32	32	NX-VFC323-1.1D	82	131	162		1 1/4	1 1/4	121
		NX-VFC323-1.5D	02		102				122
		NX-VFC324-2.2D	51						135
		NX-VFC401-1.1D	136						115
		NX-VFC402-1.5D							121
40	40	NX-VFC402-2.2D	89	110		411	1 1/0	1 1 10	132
40	40	NX-VFC402-3.7D		116			1 1/2	1 1/2	148
		NX-VFC403-3.7D	42						154
		NX-VFC403-5.5D	42		182	431			194
		NX-VFC501-1.5D	132						116
		NX-VFC502-2.2D	٥٢		162	411			126
50	50	NX-VFC502-3.7D	85	112			2	2	148
		NX-VFC503-5.5D	00		100	404			195
		NX-VFC503-7.5D	38		182	431			199
		NX-VFC652-3.7D	54		162	411			145
65	65	NX-VFC652-5.5D	54	108	100	401	2 1/2	2 1/2	191
		NX-VFC653-7.5D	-2		182	431			202

[%] This model is only for positive suction use.

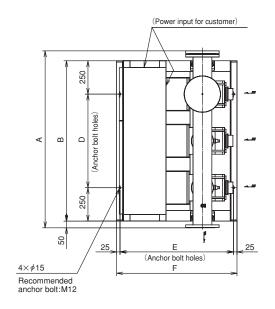
		/ \
		(Units mm)

Nomi	nal dia	Model	Α	В	С	D	Е	F	Approx. weigh
Suction	Discharge	Wodel					inch	inch	kg
		NX-40VFC252-0.4W	116						104
25	40	NX-40VFC252-0.75W	110	121			1	1	113
		NX-40VFC253-1.1W	84						121
		NX-50VFC322-0.4W **	114			387			104
		NX-50VFC322-0.75W	114			307			112
32	50	NX-50VFC323-1.1W	82	127	162		1 1/4	2	121
		NX-50VFC323-1.5W	02		102				122
		NX-50VFC324-2.2W	51						135
		NX-65VFC401-1.1W	136						115
		NX-65VFC402-1.5W							121
40	65	NX-65VFC402-2.2W	89			411	1 1/2	2 1/2	132
40	05	NX-65VFC402-3.7W					1 1/2	2 1/2	148
		NX-65VFC403-3.7W	42						154
		NX-65VFC403-5.5W	42	109	182	431			194
		NX-65VFC501-1.5W	132	109					116
		NX-65VFC502-2.2W	85		162	411			126
50	65	NX-65VFC502-3.7W	00				2	2.5	148
		NX-65VFC503-5.5W	00		100	404	1		194
		NX-65VFC503-7.5W	38		182	431			199
		NX-80VFC652-3.7W	54		162	411			145
65	80	NX-80VFC652-5.5W	54	105	100	401	2 1/2	3	191
		NX-80VFC653-7.5W	-2		182	431			202
% Thio	model	is only for positive suction	no.o						

 $[\]ensuremath{\mathbb{X}}$ This model is only for positive suction use.

Dimensional outline drawing

NX-VFC-W×3^{2-Pumps} Parallel /T×3^{3-Pumps} Parallel 3-Pumps Rotation

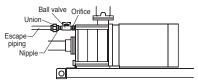


No	Parts Name	Q'ty	No	Parts Name	Q'ty
1	Pump	3	7	Check valve	3
2	Pressure tank (20ℓ)	1		(with flow switch)	٥
3	Pressure transmitter	1	8	Stop valve	3
4	Flow switch	3	9	Control panel	1
(5)	TJ valve	1	10	Special flange (Suction)	3
6	High temperature sensor	3	11	Blind Flange	1

Dis. flange $d\times\phi$ e

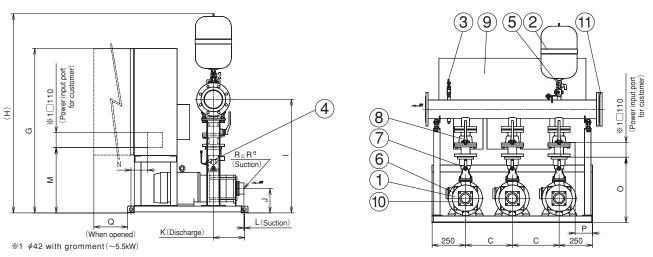
dis. flange	а	b	С	d	е
DN65	65	145	185	4	18
DN80	80	160	200	8	18
DN100	100	180	220	8	18
DN125	125	210	250	8	18

Negative suction: Constant escape piping example



- Pump suction and discharge header connections are special. Several type of companion flanges can be provided with the system.

 • Anchor bolts for fixing the pump set are optionally available
- The system for negative suction includes standard a Constant escape kit. This kit consists of orifice+ball valve+nipple+union. Customer shall provide escape piping, and the end of this pipe shall be always submerged. The ball valve shall be fully opened during operation, such that the flow rate exceeds 10/min.
- The TJ-valve is suitable to connect dia 10mm (3/8") hose.



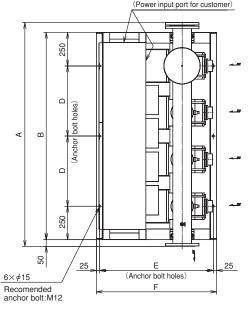
- The drawings are typical, shape may vary somewhat depending on the pump type and specifications.
- Specifications may change due to design modifications. Updated delivery specifications are available upon request.

(1	Inite	mm)

Operation	Nomin	al dia.	Model	А	В	С	D	Е	F	G	н	- 1	J	к		м	N	0	Р	0	R	Approx. weight
mode	Suction	Discharge	Wodel	^	6	U	D	_	'	u	"	•	J	IX.		IVI	IV	"	'	u	inch	kg
			NX-65VFC401-1.1W×3												111.5							339
			NX-65VFC402-1.5W×3																			349
	40	65	NX-65VFC402-2.2W×3	1122	1000	250	500	750	800	1070	1438	828	162	202	64.5	515		510	150		1 1/2	356
2-Pumps	40	05	NX-65VFC402-3.7W×3																		1 1/2	381
Parallel			NX-65VFC403-3.7W×3												17.5		160			458		389
•			NX-65VFC403-5.5W×3	1322	1200	350	700	800	850	1100	1458	848	182	233	48.5	545		540	250			445
3-Pumps			NX-65VFC502-2.2W×3	1122	1000	250	500	750	800	1070	1438	828	162	202	60.5	515		510	150			356
Rotation	50	65	NX-65VFC502-3.7W×3	1122	1000	250	500		800		1436	020	102	202	00.5						2	381
	30	03	NX-65VFC503-5.5W×3	1322	1200	350	700	800	850	1100	1458	848	182	233	44.5	545		540	250			445
			NX-65VFC503-7.5W×3	1022	1200	330		850	900	1230					44.5	490	125	490	130	658		488
			NX-80VFC652-3.7W×3	1122	1000	250	500	750	800	1070	1447	828	162	202	30.5	515	160	510	150	458		388
	65 80		NX-80VFC652-5.5W×3	1322	1200	350	700	800	850	1100	1465	848	182	233	61.5	545		540	250		2 1/2	443
			NX-80VFC653-7.5W×3	1022	1200	330	700	850	900	1230	1400	040	102	200	5.5	490	125	490	130	658		496
			NX-80VFC401-1.1T×3											111.5	111.5							342
			NX-80VFC402-1.5T×3												1						352	
	40	80	NX-80VFC402-2.2T×3	1122	1000	250	500	750	800	1070	1447	828	162	202	64.5	515		510	150		1 1/2	359
3-Pumps	10	00	NX-80VFC402-3.7T×3														160			458	1 1/2	384
Parallel			NX-80VFC403-3.7T×3												17.5		100			450		392
			NX-80VFC403-5.5T×3	1322	1200	350	700	800	850	1100	1465	848	182	233	48.5	545		540	250			447
3-Pumps			NX-100VFC502-2.2T×3	1124	1000	250	500	750	800	1070	1458	828	162	202	60.5	515		510	150			365
Rotation	- · · · ·	100	NX-100VFC502-3.7T×3	1127	1000	200	000				1400	020	102	202	00.0						2	389
			NX-100VFC503-5.5T×3	1324	1200	350	700	800	850	1100	1478	848	182	233	44.5	545		540	250		- 4	453
			NX-100VFC503-7.5T×3	-				850	900	1230						490	125	490	130	658		496
			NX-125VFC652-3.7T×3	1124	1000	250	500	750	800	1070	1470	828	162	202	30.5	515	160	510	150	458		402
	65	125	NX-125VFC652-5.5T×3	1324	1200	350	700	800	850	1100	1490	848	182	233	61.5	545		540	250		2 1/2	458
			NX-125VFC653-7.5T×3	. JL	00	550	. 50	850	900	1230	00	010	.52	_50	5.5	490	125	490	130	658		511

Dimensional outline drawing

NX-VFC-T×4 3-Pumps Parallel /F×4 4-Pumps Parallel



No	Parts Name	Q'ty	No	Parts Name	Q'ty
1	Pump	4	7	Check valve	4
2	Pressure tank (20ℓ)	1		(with flow switch)	4
3	Pressure transmitter	1	8	Stop valve	4
4	Flow switch	4	9	Control panel	1
(5)	TJ valve	1	10	Special flange (Suction)	4
6	High temperature sensor	4	11)	Blind Flange	1

Dis. flange d×∲e

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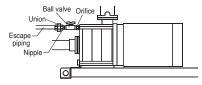
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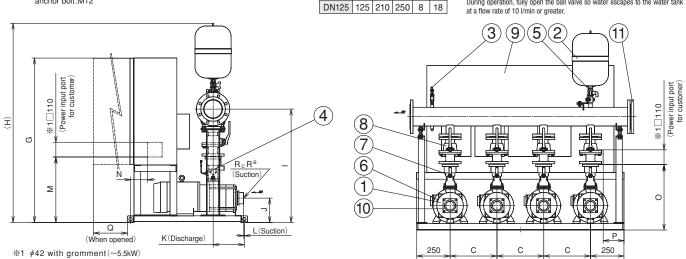
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Negative suction: Constant escape piping example



- Since suction flanges of this unit are special, use the companion flange supplied. Discharge flanges are not supplied.
- ullet The TJ valve can connect ϕ 10mm(3/8 $^{\rm B}$) hose.
- The anchor bolts are special accessories.
- When negative suction specification is selected, the constant escape kit (orifice + ball valve + nipple + union) is added to the standard specifications. Always provide escape piping and submerge the end of the piping into a water tank.

During operation, fully open the ball valve so water escapes to the water tank at a flow rate of 10 I/min or greater.



dis. flange

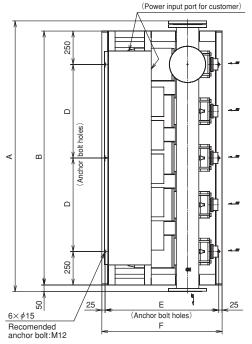
DN80 80

- The drawings are typical, shape may vary somewhat depending on the pump type and specifications.
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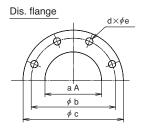
(Units mm)

Operation	Nomin	nal dia.	Model	A	В	С	n	Е	F	G	н			к		М	N	0	Р	Q	R	Approx. weight
mode	Suction	Discharge	Wodel	^		"	"	_	'	u		'	"	"	-	IVI	''	"	'	u	inch	kg
			NX-80VFC401-1.1T×4												111.5							426
			NX-80VFC402-1.5T×4]																		440
	40	80	NX-80VFC402-2.2T×4	1372	1250	250	375	750	800	1070	1447	828	162	202	64.5	515		510	225		1 1/0	449
3-Pumps	40	80	NX-80VFC402-3.7T×4																		1 1/2	482
Parallel			NX-80VFC403-3.7T×4												17.5		160			558		493
•			NX-80VFC403-5.5T×4	1672	1550	350	525	800	850	1100	1465	848	182	233	48.5	545		540	375			564
4-Pumps			NX-100VFC502-2.2T×4	1374	1250	250	375	750	800	1070	1458	828	162	202	60.5	515		510	225			451
Rotation	50	100	NX-100VFC502-3.7T×4	1374	1250	250	3/5	750	800	1070	1456	020	102	202	60.5	515		510	225		2	483
	50	100	NX-100VFC503-5.5T×4	1674	1550	350	525	800	850	1100	1478	848	182	233	44.5	545		540	375		~	569
			NX-100VFC503-7.5T×4	1074	1550		323	850	900	1230	1476	040	102	233	44.5	490	125	490	155	758		618
			NX-125VFC652-3.7T×4	1374	1250	250 250 375	375	75 750	800	1070	1470	828	162	202	30.5	515	160	510	255	558		500
	65	125	NX-125VFC652-5.5T×4	1674	1550	350	525	800	850	1100	1490	848	182	233	61.5	545	100	540	375	556	2 1/2	578
			NX-125VFC653-7.5T×4	1074	1550	350	525	850	900	1230	1490	040	102	233	5.5	490	125	490	155	758		640
			NX-80VFC401-1.1F×4												111.5							426
			NX-80VFC402-1.5F×4											1111								440
	40	80	NX-80VFC402-2.2F×4	1372	1250	250	375	750	800	1070	1447	828	162	202	64.5	515		510	225		1 1/2	449
4-Pumps	40	00	NX-80VFC402-3.7F×4														160			558	1 1/2	482
Parallel			NX-80VFC403-3.7F×4												17.5		100			556		493
•			NX-80VFC403-5.5F×4	1672	1550	350	525	800	850	1100	1465	848	182	233	48.5	545		540	375			564
4-Pumps			NX-100VFC502-2.2F×4	1374	1250	250	375	750	800	1070	1458	828	162	202	60.5	515		510	225			451
Rotation	50	100	NX-100VFC502-3.7F×4	1374	1230	230	373	730	000	1070	1430	020	102	202	00.5	313		310			2	483
nutation	30	100	NX-100VFC503-5.5F×4	1674	1550	350	525	800	850	1100	1478	848	182	233	44.5	545		540	375	1	2	569
			NX-100VFC503-7.5F×4	1074	1330	330		850	900	1230	1470	040		200	44.5	490	125	490	155	758		618
			NX-125VFC652-3.7F×4	1374	1250	250	375	750	800	1070	1470	828	162	202	30.5	515	160	510	225	558		500
	65	125	NX-125VFC652-5.5F×4	1674	1550	350	525	800	850	1100	1490	848	182	233	61.5	545		540	375			578
			NX-125VFC653-7.5F×4	1074	1550	330	323	850	900	1230	1490	040	102	200	5.5	490	125	490	155	758		640

NX-VFC-F×5 4-Pumps Parallel / G×5 5-Pumps Parallel 5-Pumps Rotation



No	Parts Name	Q'ty	No	Parts Name	Q'ty
1	Pump	5	7	Check valve	5
2	Pressure tank (20ℓ)	1		(with flow switch)	3
3	Pressure transmitter	1	8	Stop valve	5
4	Flow switch	5	9	Control panel	1
(5)	TJ valve	1	10	Special flange (Suction)	5
6	High temperature sensor	5	11	Blind Flange	1



b c d

DN150 150 240 285 8 22

160 200

180 220 8 18

210 250 8 18

8 18

80

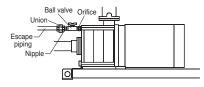
dis. flange

DN80

DN100 100

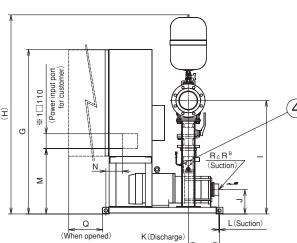
DN125 125

Negative suction:	
Constant escape piping example	

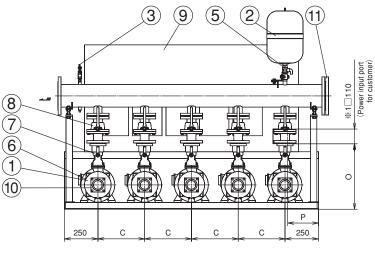


- Since suction flanges of this unit are special, use the companion flange supplied. Discharge flanges are not supplied.
- The TJ valve can connect ϕ 10mm(3/8^B) hose.
- The anchor bolts are special accessories.
- When negative suction specification is selected, the constant escape kit (orifice + ball valve + nipple + union) is added to the standard specifications.
 Always provide escape piping and submerge the end of the piping into a water tank.

During operation, fully open the ball valve so water escapes to the water tank at a flow rate of 10 l/min or greater.



%1 \$\phi42 \text{ with gromment}(\sigmu 5.5kW)



- The drawings are typical, shape may vary somewhat depending on the pump type and specifications.
 Specifications may change due to design modifications. Updated delivery specifications
- Specifications may change due to design modifications. Updated delivery specifications are available upon request.

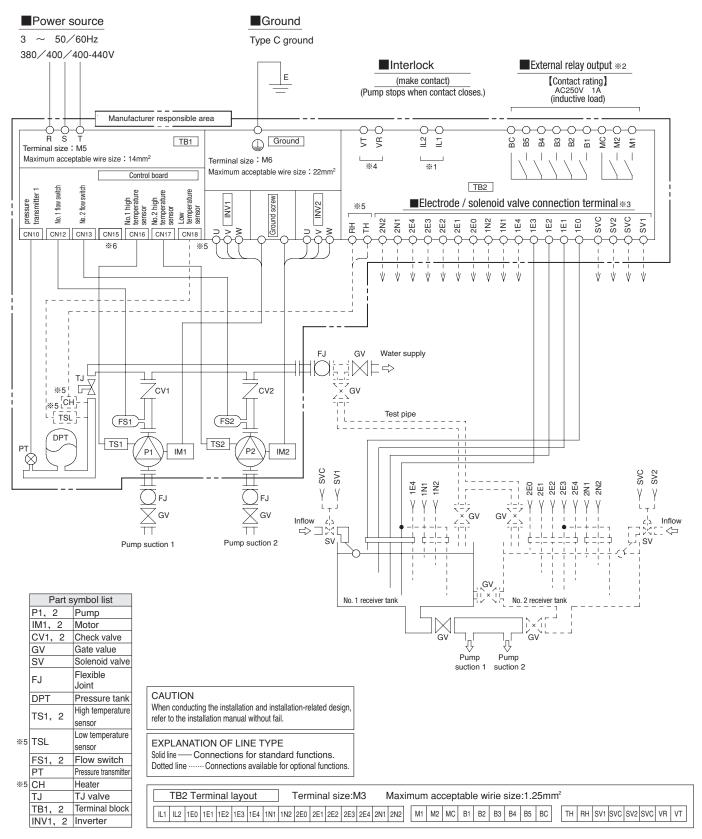
(Units mm)

Operation	Nomin	al dia.	Model	Α	В	С	D	Е	F	G	н	- 1	_	К		М	N	0	Р	O	R	Approx. weight
mode	Suction	Discharge	Wodei	^	6	U	, D	-	'	u		•	J	K		IVI	"	"		۷ ا	inch	kg
			NX-80VFC401-1.1F×5												111.5							503
			NX-80VFC402-1.5F×5																			520
	40	80	NX-80VFC402-2.2F×5	1622	1500	250	500	750	800	1070	1447	828	162	202	64.5	515		510	250		1 1/0	531
4-Pumps	40	80	NX-80VFC402-3.7F×5																		1 1/2	573
Parallel			NX-80VFC403-3.7F×5												17.5		160			558		586
•			NX-80VFC403-5.5F×5	2022	1900	350	700	800	850	1100	1465	848	182	233	48.5	545		540	450			678
5-Pumps			NX-100VFC502-2.2F×5	1624	1500	250	500	750	800	1070	1458	828	162	202	60.5	515		510	250			537
Rotation	50	100	NX-100VFC502-3.7F×5	1024	1500	250	300	750	800	1070	1456	020	102	202	00.5			310			2	578
	30	100	NX-100VFC503-5.5F×5	2024	1900	350	700	800	850	1100	1478	848	182	233	44.5	545		540	450		~	685
			NX-100VFC503-7.5F×5	2024				850	900	1230	1470	040	102	200	44.5	490	125	490	230	758		749
			NX-125VFC652-3.7F×5	1624	1500	250	500		800	1070	1470	828	162	202	30.5	515	160	510	250	558		597
	65		NX-125VFC652-5.5F×5	2024	1900	350	700	800	850	1100		848	182	233	61.5	545	100	540	450	330	2 1/2	689
			NX-125VFC653-7.5F×5	2024	1900	330	700	850	900	1230	1490	040	102	233	5.5	490	125	490	230	758		769
			NX-100VFC401-1.1G×5												111.5							508
			NX-100VFC402-1.5G×5																		525	
	40	100	NX-100VFC402-2.2G×5	1622	1500	250	500	750	800	1070	1458	828	162	202	64.5	515		510	250		1 1/2	536
5-Pumps	40	100	NX-100VFC402-3.7G×5														160			558	1 1/2	5/8
Parallel			NX-100VFC403-3.7G×5												17.5		100			330		591
•			NX-100VFC403-5.5G×5	2022	1900	350	700	800	850	1100	1478	848	182	233	48.5	545		540	450			684
5-Pumps			NX-125VFC502-2.2G×5	1624	1500	250	500	750	800	1070	1470	828	162	202	60.5	515		510	250			549
Rotation	50	125	NX-125VFC502-3.7G×5	1024	1500	200	300	750	000		1470	020	102	202	00.5						2	589
hotation	30	123	NX-125VFC503-5.5G×5	2024	1900	350	700	800	850	1100	1490	848	182	233	44.5	545		540	450			697
			NX-125VFC503-7.5G×5					850	900	1230						490	125	490	230	758		760
			NX-150VFC652-3.7G×5	1626	1500	250	500	750	800	1070	1484	828	162	202	30.5	515	160	510	250	558		606
	65	150	NX-150VFC652-5.5G×5	2026	1900	350	700	800	850	1100	1504	848	182	233	61.5	545		540	450		2 1/2	701
		_	NX-150VFC653-7.5G×5	2020	1500	900 350 7	700	850	900	1230	1004	540	102	200	5.5	490	125	490	230	758		780



Water supply unit connection diagram (ex. D/W type, Positive suction)

[Caution] For installation-related design and installation, please refer to the drawings.



^{*1} This is connected when the interlock function is used. Though the interlock input signal is the make contact when delivered, it can be changed to the break contact by settings

^{*2} Content of the external relay output can be change by settings. For further details, see the connection pattern diagram.

^{*3} Depending on the setting, the system can be expanded to double receiver tanks, 5P electrodes and solenoid valves. For further details on the wiring, see the connection pattern diagram. Voltage of solenoid valve is 200V. Total current of solenoid valve must not exceed 0.3A.

^{#4} This terminal is for the cooling fan of outdoor guard. Please do not use other equipment.

^{%5} The low temperaure sensor and heater for the freeze prevention system are provided as part of special specificaions.

^{%6} Please do not use this connector.

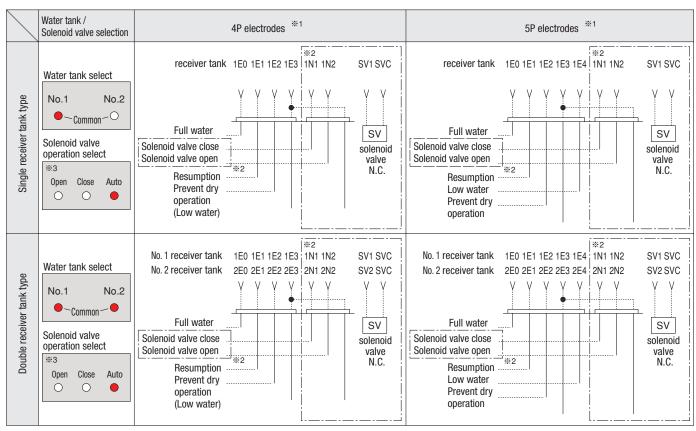
Water supply unit connection pattern diagram

Electrode/solenoid valve connection pattern

For the receiver tank level control, the following combinations are available as user selectable options.

The unit just delivered is not given no selection about the water tank and the solenoid valve operation.

The customer is requested to select them according to their usage after the wiring work. In the water tank and solenoid valve operation selection columns, ocircle shows lighting and ocircle shows lighting off.



- *1 The selection of 4P or 5P must be set in the micro processor through the control panel operation.(Setting before delivery: 4P)
- *2 To be connected if a solenoid valve is used. The voltage of solenoid valve output is 200V. Total current of solenoid valve must not exceed 0.3A.
- *3 Select Auto if a solenoid valve is used or close if a solenoid valve is not used

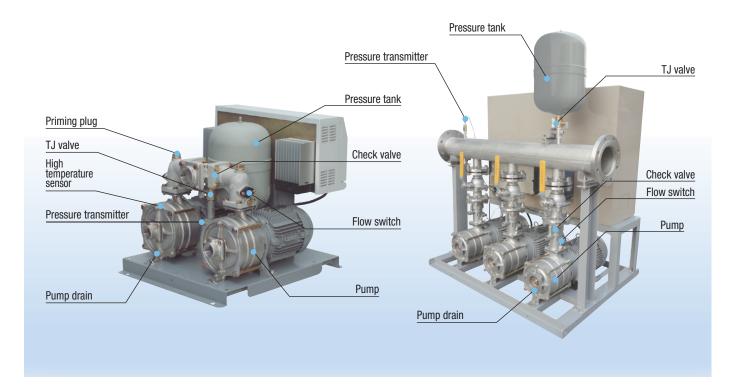
External relay output pattern

For the external relay output, the following patterns are available. (Setting before delivery: pattern=0)

	Set No.	Pattern 0	Pattern 1	Pattern 2	Pattern 3	Pattern 4
	M1	No. 1 run	No. 1 run	No. 1 run	No. 1 run	Run
	M2	No. 2 run	No. 2 run	No. 2 run	No. 2 run	On inspection
NO NO	B1	No. 1 failure **4	Serious failure **7	Overload	Inverter trip *5	No. 1 failure **4
Terminal	B2	No. 2 failure **4	Slightly failure **8	Discharge pressure abnormal drop	Discharge pressure abnormal drop	No. 2 failure **4
Terr	B3	Full water	_	Electric leakage	Electric leakage	Full water
	B4	Low water / Prevent dry operation	_	Abnormal water level **9	Abnormal water level *9	Low water / Prevent dry operation
	B5	Trouble *6	Any failures **10	Any failures **10	Any failures ^{₩10}	Trouble **6

- *4 Contents of No.X failure: No.X discharge pressure abnormal drop, No.X electric leakage, No.X high temperature, No.X flow switch abnormal, No.X inverter trip.*5.
- Contents of inverter trip: Motor overload, overcurrent, overvoltage, Stall prevention, inverter overload,
 - inverter overheat, communication alarm, inverter trouble 1, inverter trouble 2.
- %6 Contents of trouble: start up frequency abnormal, pressure transmitter 1 abnormal, electrode abnormal, EEPROM error,
- Contents of serious failure: This is output if an error occurrence leads to water supply stop.
- Contents of slightly failure: This is output if an error occurs but it does not cause water supply stop.
- ※9 Contents of abnormal water level: full water, low water, prevent dry operation, electrode abnormal
- *10 Any failures is outputted irrelevant of the contents if an abnormal occurs.

Water supply unit specifications



▼ Water supply unit specification

	, and specin								
·	ation mode		D: Automatic alternate W: Automatic alternate parallel WX3:2-pumps Parallel, 3-pumps Rotation TX3:3-pumps Parallel, 3-pumps Rotation TX4:3-pumps Parallel, 4-pumps Rotation FX4:4-pumps Parallel, 4-pumps Rotation FX5:4-pumps Parallel, 5-pumps Rotation GX5:5-pumps Parallel, 5-pumps Rotation Estimated end pressure constant control						
30110	- John System		/Discharge pressure constant control by frequency control						
Liquid to be har	Qu	ality	Clear water						
Liquid to be flat	Temp	erature	0 to 40°C						
Installatio	n environmer	nt	ndoor (0 to 40°C, RH 85% or less, No dew condensation allowed), Ititude 1,000m or less						
Suctio	n condition		Positive suction model: up to 5m for Inflow head Negative suction model: 4m for actual head and 6m (at a water temperature of 20°C) for total head						
Pump	(material)		NX type stainless horizontal multistage centrifugal pump (Impeller:SUS304, Casing:SCS13, Main shaft:SUS304)						
	Туре		Totally-enclosed-fan-cooled motor (TEFC) for indoor use						
Motor	Protection i	meted	IP44						
	Pole num	nber	2 poles						
	Suc.		Frange for exclusive use						
Flange	Dis.		D/W:Flange for exclusive use W3/T3/T4/F4/F5/G5:DN flange (PN10)						
Pow	er supply		3-phase 380-400/400-440V (50/60Hz)						
Pres	Power supply Pressure tank		D/W:DPT10 (10L Diaphragm tank) W3/T3/T4/F5/G5:DPT20 (20L Diaphragm tank)						
Pressu	ıre detector		Pressure transmitter Transmission method: DC5V 3-line type Output voltage: Between 0.5 and 3.5V DC						

Control panel specifications

▼ Control panel specification

		Control panel	type	BQNXC	BQEC					
		Item	3,50	Specification 1 Specification 2	Standard specification					
		Operation me	ode	Automatic alternate (D) Automatic parallel (W)	Automatic rotation (W3/T3/T4/F4/F5/G5)					
		Casing material and e	external color	Steel plate (Munsell 5Y7/1	semi-gloss/baking paint)					
0	utput rar			0.4 – 7.5 kW	1.1 – 15 kW					
Φ	·	Earth leakage breaker	ea. pump system	(
Circuit structure	Pov	ver factor improvement reactor (DCR)	ea. pump system	_	_					
ž		Motor protection	-	Inverter (elect	ronic thermal)					
t st		Double receiver tank circuit	Changeable from the operation panel	()					
.cni		Inflow solenoid valve circuit	Operable from the operation panel	()					
ö		Electrode 5P circuit	_	()					
		Pump preventing dry operation	_	()					
		Automatic change at fault	_	()					
	Pump	continuous operation preventing function	_)					
	Func	tion to equalize the pump operating time	_)					
Function	Appl	icable for external stop signal (interlock)	Applicable for "a" / "b" contact)					
JC.		Buzzer stop timer setting	1 to 60minutes, ∞, no buzzer)					
Ī	Full/low	water level alarm automatic return setting	_)					
	Inflow sole	enoid valve automatic alternate operation setting	_	C)					
		Inspection mode	_)					
		Alarm buzzer	_)					
		Buzzer stop switch	_	(
	ō	Power supply	_)					
	Indicator Iamp	Run (ea. pump)	-	(
	ar	Inhibition (ea. pump)	-)					
	-	Abnormal (all)	_	(
		Discharge pressure	Unit:m•H2O)					
		Supply voltage	Unit:V)					
	ays	Working current (ea. pump)	Unit: 0.1A	0						
	spl	Working frequency (ea. pump)	Unit:0.1Hz (only in the automatic mode)	0						
	Other displays	Accumulated run time (ea. pump)	Unit:hour)					
	the	Accumulated number of start (ea. pump)	Unit: one time)					
	Ó	Number of unit start	Starting frequency on the previous day							
		Alarm history	Past 5 histories	(
_		Interlocking applied	— N		<u>)</u>					
ne		Full water Low water	No.:E001 No.:E002	(
on the control panel		Preventing dry operation	No.:E002)					
tro		Abnormal electrode	No.:E003							
ő		Abnormal starting frequency	No.:E004 No.:E006	(
e l		Abnormal pressure transmitter 1	No.: E000)					
+		EEPROM error	No.:E080)					
		Overload (ea.)	No.: E#01)					
<u>pla</u>		Discharge pressure abnormal drop (ea.)	No.:E#02							
Display	>	Electric leakage (ea.)	No.:E#03)					
_	pla	High temperature (ea.)	No.: E#04	(
	Alarm display	Abnormal flow switch (ea.)	No.:E#05	(
	Ē	Over-current (ea.)	No.: E#11	(
	Ala	Over voltage (ea.)	No.: E#12	(
		Low voltage (ea.)	No.: E#13		0					
		Stall prevention (ea.)	No.: E#14	0	_					
		Input open phase (ea.)	No.: E#14	_	0					
		Inverter overload (ea.)	No.: E#15)					
		Output open phase (ea.)	No.: E#16	_	0					
		Inverter overheating (ea.)	No.: E#17	()					
		Abnormal inverter communication (ea.)	No.: E#18	()					
		Inverter trouble 1 (ea.)	No.: E#19)					
	<u></u>	Inverter trouble 2 (ea.)	No.:E#20)					
ţ		Power supply for alarm	AC200V		0					
l outp		nflow solenoid valve output	AC200V	O (Open/close type is selectable)						
External output		Operation signal	No-voltage "a" contact	O (ea.)						
î		Fault signal	No-voltage "a" contact	O (5 points: patterns 0 to 4)						
	_									

^{※1.} Powe voltage and operating current values are estimated. An approximately 10% difference exists against full scale.
※2. "#" is the number of particular pump.

Home Pumps

Small pumps

Household pumps used in houses and housing complexes. We offer ideas for pressure pumps, deep well pumps, submersible pumps, etc. that are tailored to installation sites and conditions of use.



Abundant suction volume

Inverter control supplies constant discharge pressure water even when the volume of water used fluctuates!!



New DC brushless molded motor used

An advanced functions (safety, low noise, compact size, rust-free) pump has been realized by using an all-new high performance brushless molded motor.





Easier construction work

Since two inlet and two outlet ports are provided, piping and installation freedom has been increased.

Use of sealed cover

The entry of harmful insects and dust has been prevented and noise has been reduced by sealing the outdoor cover.

Low noise

It is a quiet pump.

Noise has been lowered to

(20% reduction at 150W, TERAL products comparison)

Energy saving Electricity cost is

reduced considerably.

50%

(TERAL products comparison)

Safety measures -

Greater safety
has been achieved
by using a molded motor.

Compactness

Overall size has been made smaller and lighter.

25% reduction

(at 250W, TERAL products comparison)

Freezing prevention

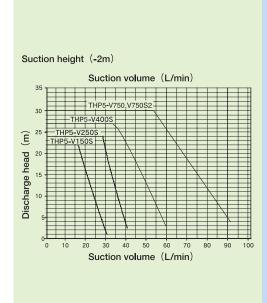
To prevent the pump body from freezing, the motor is run at low speed at 5°C or lower and is stopped at 7°C.

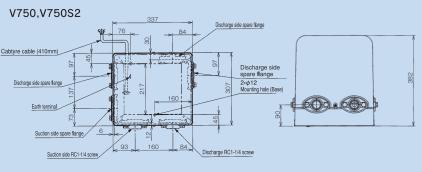
Rust-free

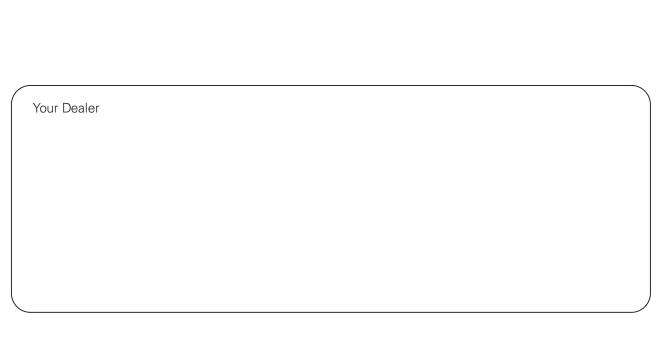
The plumbing and base are made of resin to prevent rust.

Model No.	Output (W)	Voltage(V)	Frequency (Hz)	Suction height(m)		Suction volume (L/min) (Total head) (Suction height 2m)		Outlet port dia. (mm)	Product weight (kg)
THP2-V150S	150	100	50/60	8	12	19	25	25	12
THP2-V250S	250	100	50/60	8	14	30	25	25	12
THP2-V400S	400	100	50/60	8	17	38	25	25	12.5
THP2-V750	750	200	50/60	8	20	58	32	32	19.5

Outline dimensions







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