

DOOCH PUMP



BOOSTER PUMP SYSTEM

50Hz BOOSTER PUMP SYSTEM



- Water supply system
- Washing system
- Industrial plants
- Cooling and air conditioning system
- Boiler feed system
- Sprinkler

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www.doochpump.com

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GLOBAL PUMP SOLUTION DOOCH

50Hz



BOOSTER PUMP SYSTEM

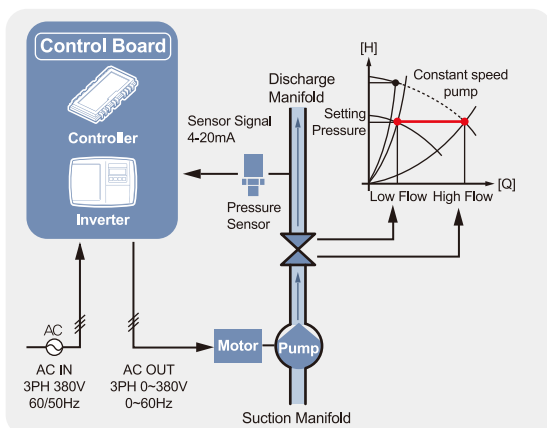
XQP, MQ, N747D, NSQP, NSQ SERIES

Booster System

DOOCH booster system supplies the constant pressurized water to the residential buildings and high rise office buildings, where it is required.

Features

- High reliability
- High efficiency
- Fully integrated, all-in-one systems
- Systems to match every need and requirement
- Easy installation and operation



Applications

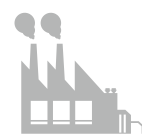
- Apartments
- Residential Buildings
- Office Buildings
- Hotels
- Industry



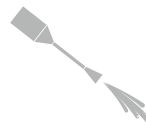
Pressurization



Boiler System



Industrial Circulation Pump Cooling System



High Pressure Washing System



Sprinkler



R/O Filtration

System Specification

Method of Control	Individual VFD	General Inverter
Models	XQP, NSQ(P), MQ-Series	747D-Series
Operation Method	Controlled by a VFD installed on each and every pumps	Controlled by one inverter on one pump
Installation	Indoor	
Temperature	-10°C~+40°C	
Liquid Type	Clean Water	
Liquid Temp.	0°C~70°C	
Pump	Vertical Multi-stage Pump	
No. Of Pumps	2~6	
Power	3PH×380V×50Hz 1PH×220V×50Hz (XQP Exception)	3PH×220/380V×50Hz
Inlet/Outlet Manifold	Stainless Steel	

Definition of model

XQ P - 3 XRL 10-6 - 80A



Manifold Dimensions

Pump Model





- * Pump Type - XR : Cast iron(Pump Head, Pump Casing)
- XRL : Stainless steel(Pump Head, Pump Casing)

Number of Pumps

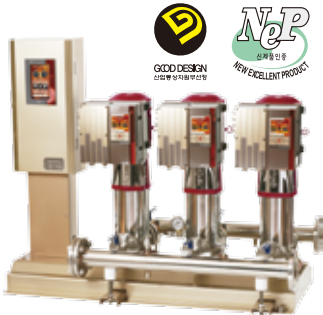











Premium Model

"P" Indicates	Without "T" Indicates
7" Touch screen LCD monitor	3.5" Color display
	









Inverter Type

MODEL	XQ-Drive	NSQ-Drive	MQ	N747D
Features	V.F.D. for pumps 	V.F.D. for pumps 	V.F.D. installed within the panels 	General inverter in a control panel 
Specification	Motor Power : 0.75~22kW Input : 3Φ×380~440V Output : 3Φ×380~440V Frequency : 50/60Hz	Motor Power : 0.75~22kW Input : 1Φ×200~230V (0.75~2.2kW) 3Φ×380~440V (0.75~22kW) Output : 3Φ×380V Frequency : 50/60Hz	Motor Power : 0.75~22kW Input : 1Φ×200~230V (0.75~2.2kW) 3Φ×380~440V (0.75~22kW) Output : 3Φ×380V Frequency : 50/60Hz	Motor Power : 0.75~45kW Input : 3Φ×220/380V Output : 3Φ×380V Frequency : 50/60Hz

Control Specifications/Features

	XQP-Series Individual Inverter Booster System	MQ-Series Multi-Inverter Booster System	N747D-Series Single Inverter Booster System
Appearance			
Features	<ul style="list-style-type: none"> All pumps are fitted with an integrated V.F.D. which are directly mounted unto the motor Newly designed V.F.D. hardware (XQ Drive) Pumps ranges from 0.75kW~22kW 2~6 Electronically speed controlled pumps Equipped with a 7.0" Touch Monitor Low energy consumption (Above 30kW, 747D-Series is required) 	<ul style="list-style-type: none"> All pumps are connected via an integrated V.F.D. which are located within the MQ Panel Pumps ranges from 0.75kW~22kW 2~6 Electronically speed controlled pumps Constant discharge pressure Low energy consumption (Above 30kW, 747D-Series is required) 	<ul style="list-style-type: none"> Control panel is integrated with a general inverter which controls the pumps within the system. Pumps ranges from 0.75kW~45kW 2~6 Electronically speed controlled pumps Constant discharge pressure Low energy consumption Equipped with Dooch's own N747D controller
Inverters	<p>V.F.D. for pumps(XQ-Drive)</p> 	<p>V.F.D. installed within the Panels(MQ)</p> 	<p>General Inverter</p> 
Type of Manifolds	 <p>Standard Manifold</p>	 <p>Standard Manifold</p>	 <p>Standard Manifold</p>
Panel	 <p>7" LCD Touch Screen Monitor</p>	 <p>V.F.D. within the panel</p>	 <p>General Inverter within the Panel</p>

Control Specifications/Features

	NSQ ⁺ -Series Individual Inverter Booster System	NSQ-Series Individual Inverter Booster System
Appearance		
Features	<ul style="list-style-type: none"> • All pumps are fitted with an integrated V.F.D. which are directly mounted unto the motor • Newly designed V.F.D. hardware (NSQ Drive) • Pumps ranges from 0.75kW~22kW • 2~6 Electronically speed controlled pumps • Equipped with a 7.0" Touch Monitor • Low energy consumption 	<ul style="list-style-type: none"> • 3.5" Color display(The latest GUI is applied) • All pumps are fitted with an integrated V.F.D. which are directly mounted unto the motor • Newly designed V.F.D. hardware (NSQ Drive) • Pumps ranges from 0.75kW~22kW • 2~6 Electronically speed controlled pumps • Low energy consumption
Inverters	<p>V.F.D. for pumps(NSQ-Drive)</p> 	<p>V.F.D. for pumps(NSQ-Drive)</p> 
Type of Manifolds	 <p>Standard Manifold</p>	 <p>Standard Manifold</p>
Panel	 <p>7" LCD Touch Screen Monitor</p>	 <p>Side Panel with individual circuit breakers (The latest GUI is applied)</p>

Control Specifications/Features

	XQ-XR(L) Series Premium V.F.D. Multi-stage Vertical Pump	NSQ-XR(L) Series V.F.D. Multi-stage Vertical Pump
Appearance		
Features	<ul style="list-style-type: none"> • Integrated V.F.D. which are directly mounted unto the motor • Newly designed V.F.D. hardware (XQ Drive) • Low energy consumption • Compact Design, no need for additional control panels 	<ul style="list-style-type: none"> • Integrated V.F.D. which are directly mounted unto the motor • Newly designed V.F.D. hardware (NSQ Drive) • Low energy consumption • Compact Design, no need for additional control panels
Inverters	 <p>Premium V.F.D. for pumps (XQ-Drive)</p>	 <p>V.F.D. for pumps (NSQ-Drive)</p>
Manifolds	 <p>Exclusive piping for V.F.D. pumps</p>	 <p>Exclusive piping for V.F.D. pumps</p>

History Of Dooch's Booster Systems

Generation: 1



Pressure Control Booster System

- Pressure ON/OFF switch
- Pressure Diviation
- Pressure Differences : $\pm 1.2 \text{ kgf/cm}^2$

1985~

Generation: 2



General Inverter Booster System

- Single pump RPM controlled
- General Inverter
- Centralized Control
- Stable Pressure
- Pressure Differences : $\pm 0.7 \text{ kgf/cm}^2$

1995~

Generation: 2.5



V.F.D. Booster System (Partial)

- Specific pumps RPM controlled via V.F.D.
- Stable Pressure
- Pressure Differences : $\pm 0.5 \text{ kgf/cm}$
- Half pump system
- Max. power saving

2005~

Generation: 3



Individual V.F.D. Booster System

- All pumps equipped with V.F.D.
- Stable Pressure
- Color 7" LCD Touch Monitor
- High Reliability
- Pressure Differences : $\pm 0.3 \text{ kgf/cm}^2$

2005~

Generation: 3.5



Individual Premium V.F.D. Booster System

- All pumps RPM controlled
- All pumps equipped with V.F.D.
- EMC Filter/DC reactor internally installed
- Color 7" LCD Touch Monitor
- Stable Pressure, power saving
- Pressure Differences : $\pm 0.3 \text{ kgf/cm}^2$

2015~

Premium XQ-Drive

XQ-DRIVES are pump specific variable frequency drive that manages pump performance to match a wide range of system conditions and requirements. Adjusting the pump speed is the most efficient means of controlling pump flow and reducing the energy consumption. As the drives are self-cooling and motor-independent structure, it can be mounted directly on the motor or on the wall. XQ DRIVES are equipped with the latest GUI 3.5" color LCD display. A noise filtering EMC filter and DC reactor is also installed within the XQ DRIVES.



Technical Specification

Available Power	0.75~22kW
Input Power	3Φ×380V~440V
Output Power	3Φ×380V~440V
Frequency	50/60Hz
Max. Frequency	60Hz
IP Class	IP 55
Max. Distance Of Pressure Transmitter	Max. 10m
Ambient Temp.	-10℃~+40℃

Protections

- Dry Running
- Low Water Level Detection
- Over/Under Voltage Inverter
- Min. Flow Stop
- Temp. Pressure Setting
- Sensor Failure
- Pump Freezing
- Pump Overload

XQ-Drive Features

- 1 3.5" LCD Display (Graphical User Interface)
- 2 Energy Savings up to 70%
- 3 Multi-pump control capacity of up to 6 pumps
- 4 Hydraulic control functions included
- 5 Electrical and hydraulic pump protections
- 6 Automatic recovery after power failure
- 7 Easy retrofitting on existing pump system
- 8 Flexible installation either directly on a standard I.E.C. motors or on walls
- 9 EMC filter and DC reactor built-in
 - Reduce noise and harmonic distortion

NSQ-Drive

NSQ-DRIVES are pump specific variable frequency drive that manages pump performance to match a wide range of system conditions and requirements. Adjusting the pump speed is the most efficient means of controlling pump flow and reducing the energy consumption

As the drives are self-cooling and motor-independent structure, it can be mounted directly on the motor or on the wall.



Technical Specification

Available Power	0.75~22kW
Input Power	1Φ×200~230V (0.75~2.2kW) 3Φ×380~440V (0.75~22kW)
Output Power	3Φ×380V
Frequency	50/60Hz
Max. Frequency	60Hz
IP Class	IP 55
Max. Distance Of Pressure Transmitter	Max. 10m
Ambient Temp.	-10℃~+40℃

Protections

- Dry Running
- Low Water Level Detection
- Over/Under Voltage Inverter
- Min. Flow Stop
- Temp. Pressure Setting
- Sensor Failure
- Pump Freezing
- Pump Overload

NSQ-Drive Features

- 1 Energy Savings up to 70%
- 2 Multi-pump control capacity of up to 6 pumps
- 3 Hydraulic control functions included
- 4 Electrical and hydraulic pump protections
- 5 Automatic recovery after power failure
- 6 Easy retrofitting on existing pump system
- 7 Flexible installation either directly on a standard I.E.C. motors or on walls

One Pump Controller OPC-1000/OPC-1001

One pump controller OPC-1000 and OPC-1001 are applicable for any general inverter, and this product enables the latest pump control function of pump inverter.

Since this product is applicable for any general inverter, it can be utilized without limitation of pump power.

Also, this product is easy to set-up the pressure and provides various pump protection functions.



Specification

Input Power	1Φ×200~240V / 50~60Hz
Communication Port	RS485 communication MOD BUS-RTU CAN communication (Internal communication)
Display	3.5" TFT TRUE COLOR LCD(320×240) : OPC-1001 3×LED : OPC-1000
Multi-function Input/Output	RUN/STOP, RESET, EMSTOP, Pressure sensor input(2ea), Low water level sensor, Multi-function digital input(3ea), Multi-function analogue input (1ea), RUN/STOP, FAULT relay output, Multi-function analogue output(1ea)
Control Signal	RUN/STOP, RESET, EMSTOP, Analogue signal input, Frequency command analogue output RUN/STOP, FAULT relay signal

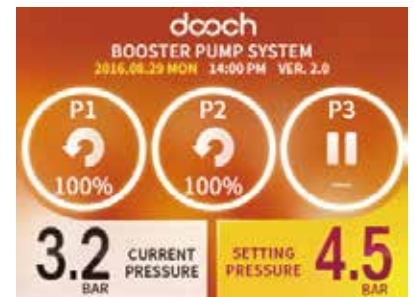
Properties

- Control for Static pressure and Differential pressure
- 2 pressure sensor wiring available
- Pump control with General inverter available
(No limitation for inverter capacity)
- Interactive control available up to 6 pumps
(Maximization of system stability)
- Pump protection function available
(High pressure, Low pressure, and Pressure sensor error)
- Control parameter set-up via Keypad
(For the case of OPC-1000, optional item)
- Log indication for Pump/Inverter operation
(Key pad type only)

Color Monitor TM3.5

TM 3.5 monitor receives the data from pumps with inverters, and provides the integrated information for user's easy understanding.

Also, it is easy to set the system pressure, and user can understand the various pump information such as pump operation log or alarm log, with user-friendly UX and GUI.



Specification

Input Power	1Φ×200~240V / 50~60Hz
Communication Port	RS485 communication MOD BUS-RTU
Display	3.5" TFT TRUE COLOR LCD(320×240)
Multi-function Input/Output	SYSTEM RUN output relay contact SYSTEM FAULT output relay contact
Storage Medium	SD card available (Logging data storage)
Update Port	USB ×1EA

Properties

- Full color display
- Easy to set the pressure
- Icons includes; History of Run/Alarm and various information
- Languages includes; Korean/Chinese/English
- RS-485: Integrated communication with each drive information
- USB PORT: Firmware upgrade port
- Available up to 3 pumps
- Logging data records
(Setting pressure, Current setting, Operation data of each pump)



Features

- Full Color Display
- Touch Screen Interface
- User-Friendly/Easy to function
- Icons includes; History of Run/Alarm and other various information
- Languages include; Korean/Chinese/English
- RS 485: Integrated communication
UX & GUI USB
- USB PORT: Firmware upgrade port

Specification

- 7" TFT LCD
- Touch Screen Monitor
- RS-485 PORT : 2 ports
- CAN COM. PORT : 1
- Run/Alarm contact
- Power: 220~440V
- Temp. & Humidity : -10~40℃ / 90%Under
- USB PORT

Model Application

Models	Available	Unavailable
NSQ-Series		●
NSQP-Series	●	
XQP-Series	●	

※ P: Indicates a TM 7.0" Touch Monitor is included with the system

GUI(Graphic User Interface) Introduction



1. Current Date and Time
2. Setting Pressure Value
3. Current Pressure Value
4. Current Output Ratio
5. Icon/Current condition of each pumps (Up to 6 pumps)

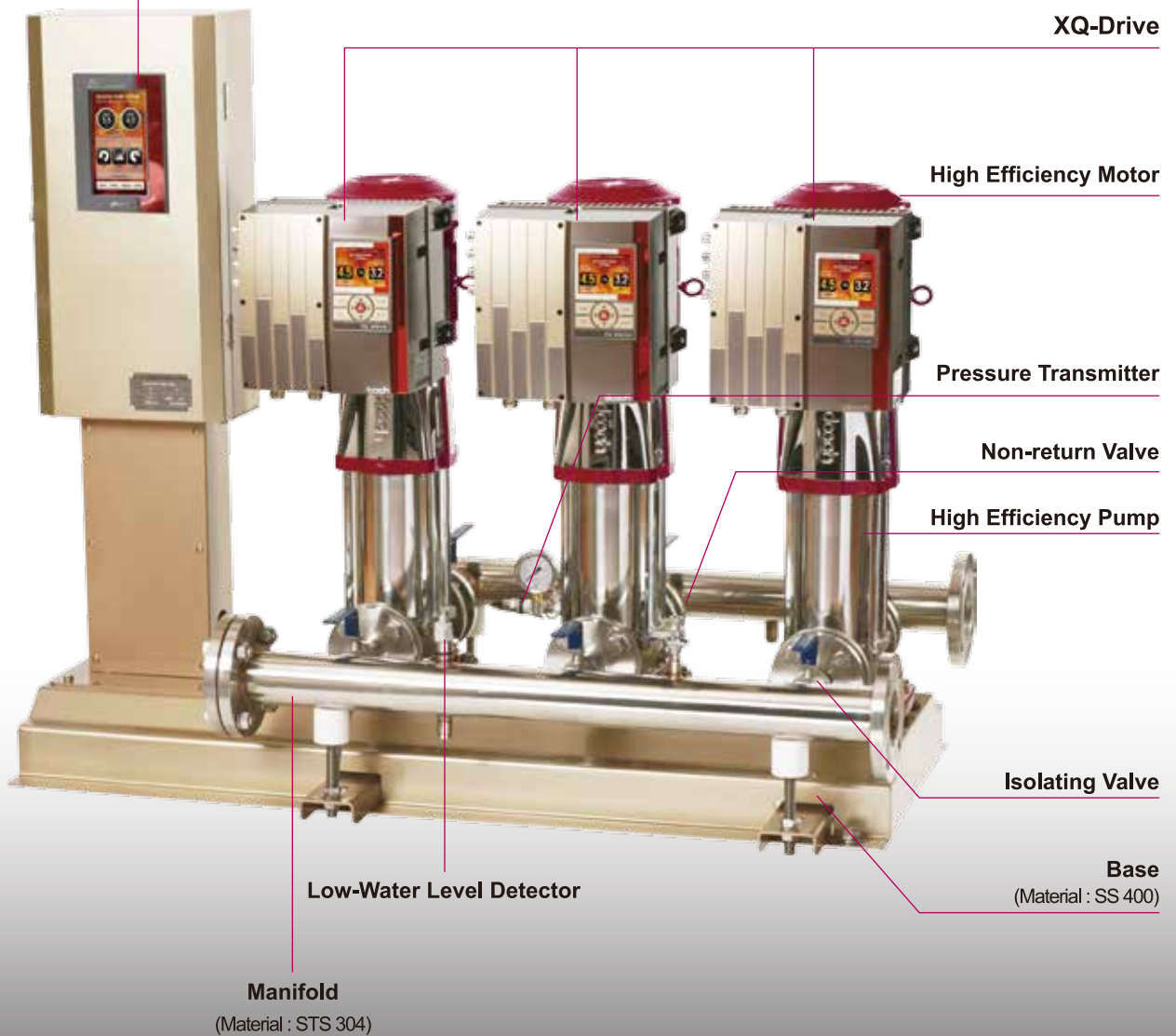
	Ratio Current operating ratio		Current Current Value
	Power Current power consumption		Frequency Current operating frequency
	Accumulated Power Current Power accumulation		Output Power Current Output Power

6. Status
7. Run History
8. Set-Up

XQP Series System



7" LCD Touch Monitor



XQ-Drive

High Efficiency Motor

Pressure Transmitter

Non-return Valve

High Efficiency Pump

Isolating Valve

Base

(Material : SS 400)

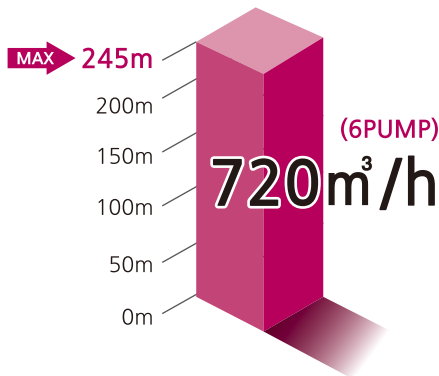
Low-Water Level Detector

Manifold

(Material : STS 304)

Specification

- Max. Flow(Q) : 720m³/h
- Max. Head (H) : 245m
- Pump Connection : Up to 6 Pumps
- Motor Power: 0.75~22kW (1~30HP)



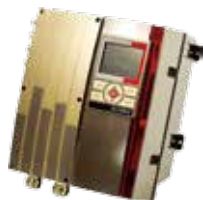
Functions

- Pressure settings
- Alternative operation
- Pump Freeze Protection
- Automatic detection of low flow on discharge
- Automatic recovery after power outage
- XQ drive will protect the pump
- Operation display and storage
- Equipped with an RS485

Main Componets



7" LCD Touch Screen Monitor
embedded into the Panel



V.F.D.
XQ-Drive



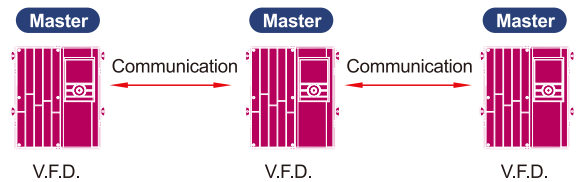
High Efficiency Pump
XR(L) Series



Standard Manifold

Features

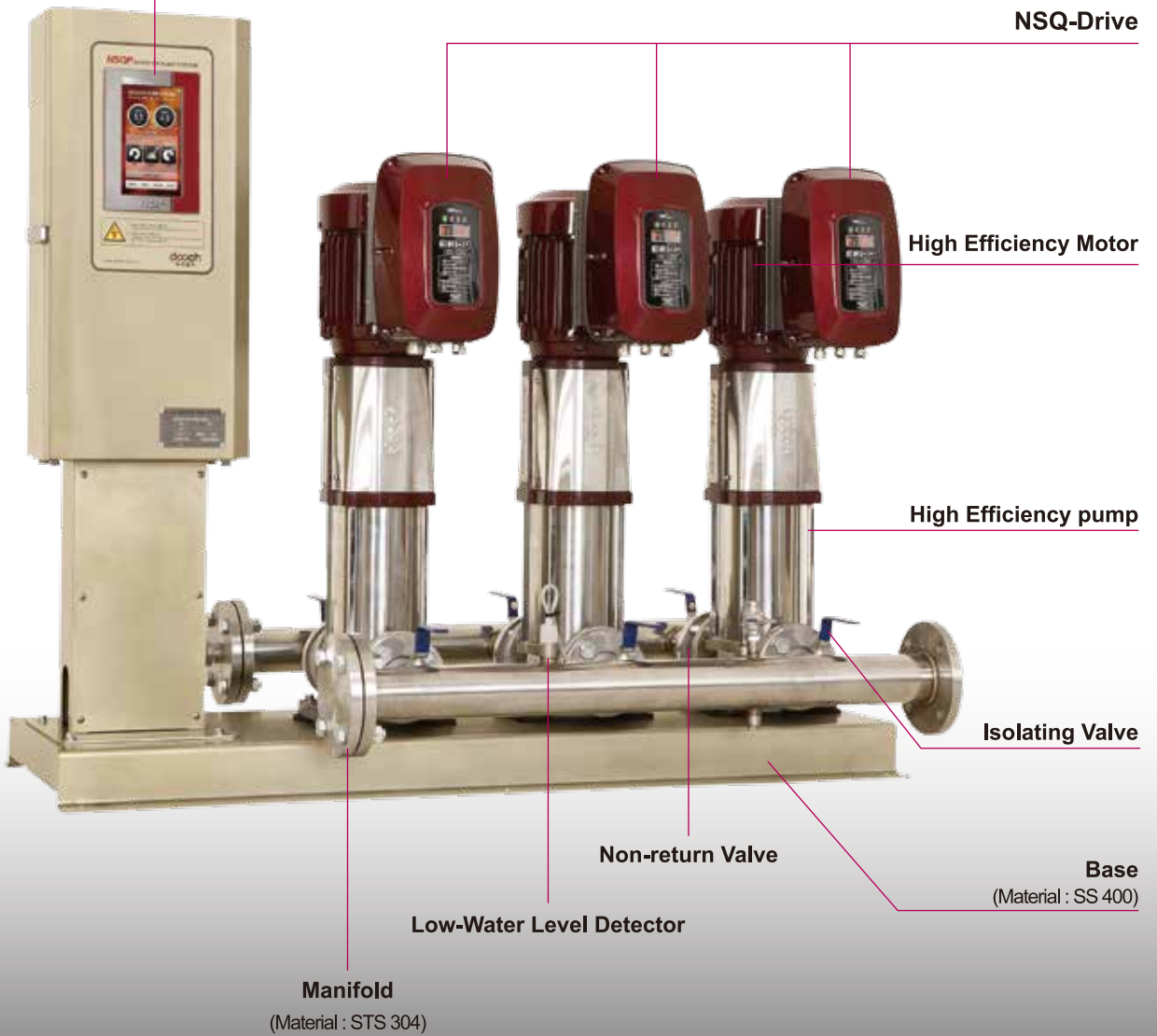
- 7" color LCD touch monitor
- Each pump are individually controlled by a XQ drive
- High reliability (Multi-master control)
- Constant discharge pressure
- Reduced tank and panel sizes
- Less wear of the system during operation
- Compact assembly and installation
- High reliability with an installation of two pressure transmitter
- Lowest possible energy consumption
- Up to 22kW and connection of up to 6 pumps



- Alternative Operation
 - Alternative operation refers to the total sum of the power accumulated
 - This in-return ensures that the operating of each pump will be the same and extends the life-line of each pump as the wear is evenly distributed amongst the pumps.

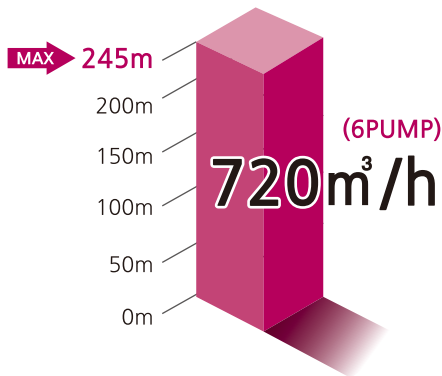
NSQP Series System

7" LCD Touch Monitor



Specification

- Max. Flow(Q) : 720m³/h
- Max. Head (H) : 245m
- Pump Connection : Up to 6 Pumps
- Motor Power: 0.75~22kW (1~30HP)



Functions

- Pressure settings
- Alternative operation
- Pump Freeze Protection
- Automatic detection of low flow on discharge
- Automatic recovery after power outage
- NSQ drive will protect the pump
- Operation display and storage
- Equipped with an RS485

Main Components



7" LCD Touch Screen Monitor
embedded into the Panel



V.F.D.
NSQ-Drive



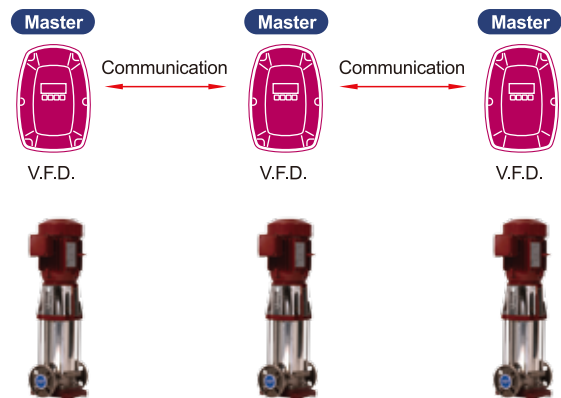
High Efficiency Pump
XR(L) Series



Standard Manifold

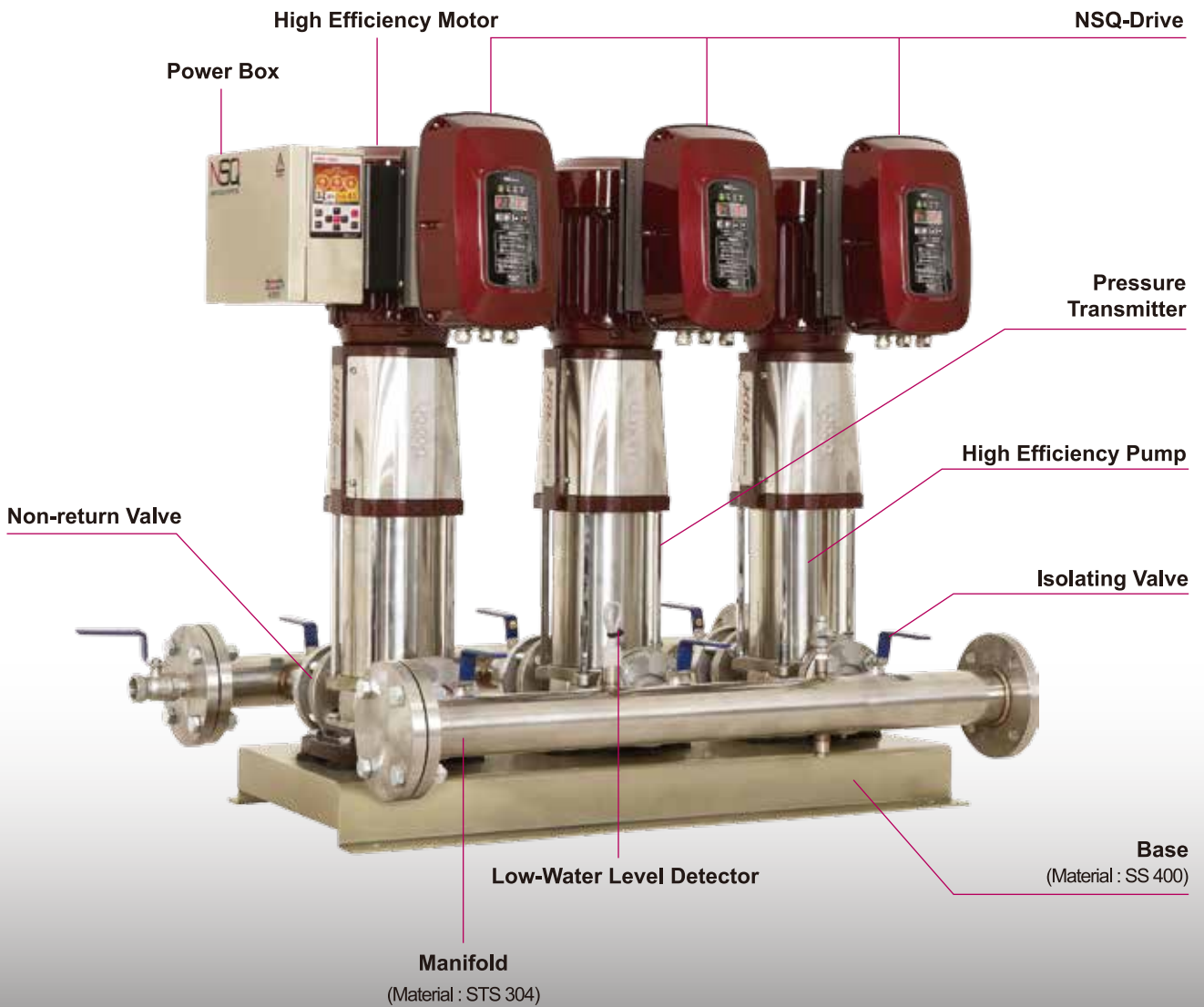
Features

- 7" color LCD touch monitor
- Each pump are individually controlled by a NSQ drive
- High reliability (Multi-master control)
- Constant discharge pressure
- Reduced tank and panel sizes
- Less wear of the system during operation
- Compact assembly and installation
- High reliability with an installation of two pressure transmitter
- Lowest possible energy consumption
- Up to 22kW and connection of up to 6 pumps



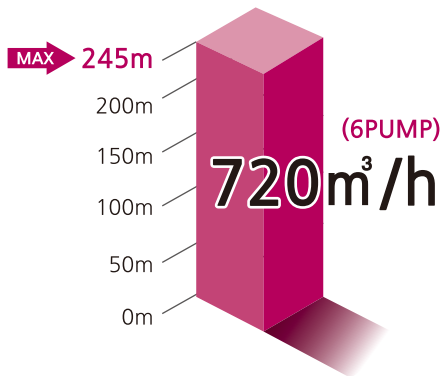
- Alternative Operation
 - Alternative operation refers to the total sum of the power accumulated
 - This in-return ensures that the operating of each pump will be the same and extends the life-line of each pump as the wear is evenly distributed amongst the pumps.

NSQ Series System



Specification

- Max. Flow(Q) : 720m³/h
- Max. Head (H) : 245m
- Pump Connection : Up to 6 Pumps
- Motor Power: 0.75~22kW (1~30HP)



Functions

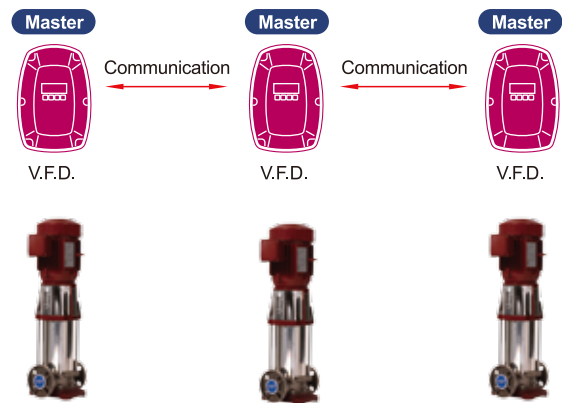
- Pressure settings
- Alternative operation
- Pump Freeze Protection
- Automatic detection of low flow on discharge
- Automatic recovery after power outage
- NSQ drive will protect the pump
- Operation display and storage
- Equipped with an RS485

Main Components



Features

- 3.5" Color display(The latest GUI is applied)
- Each pump are individually controlled by a NSQ drive
- High reliability (Multi-master control)
- Constant discharge pressure
- Reduced tank and panel sizes
- Less wear of the system during operation
- Compact assembly and installation
- High reliability with an installation of two pressure transmitter
- Lowest possible energy consumption
- Up to 22kW and connection of up to 6 pumps

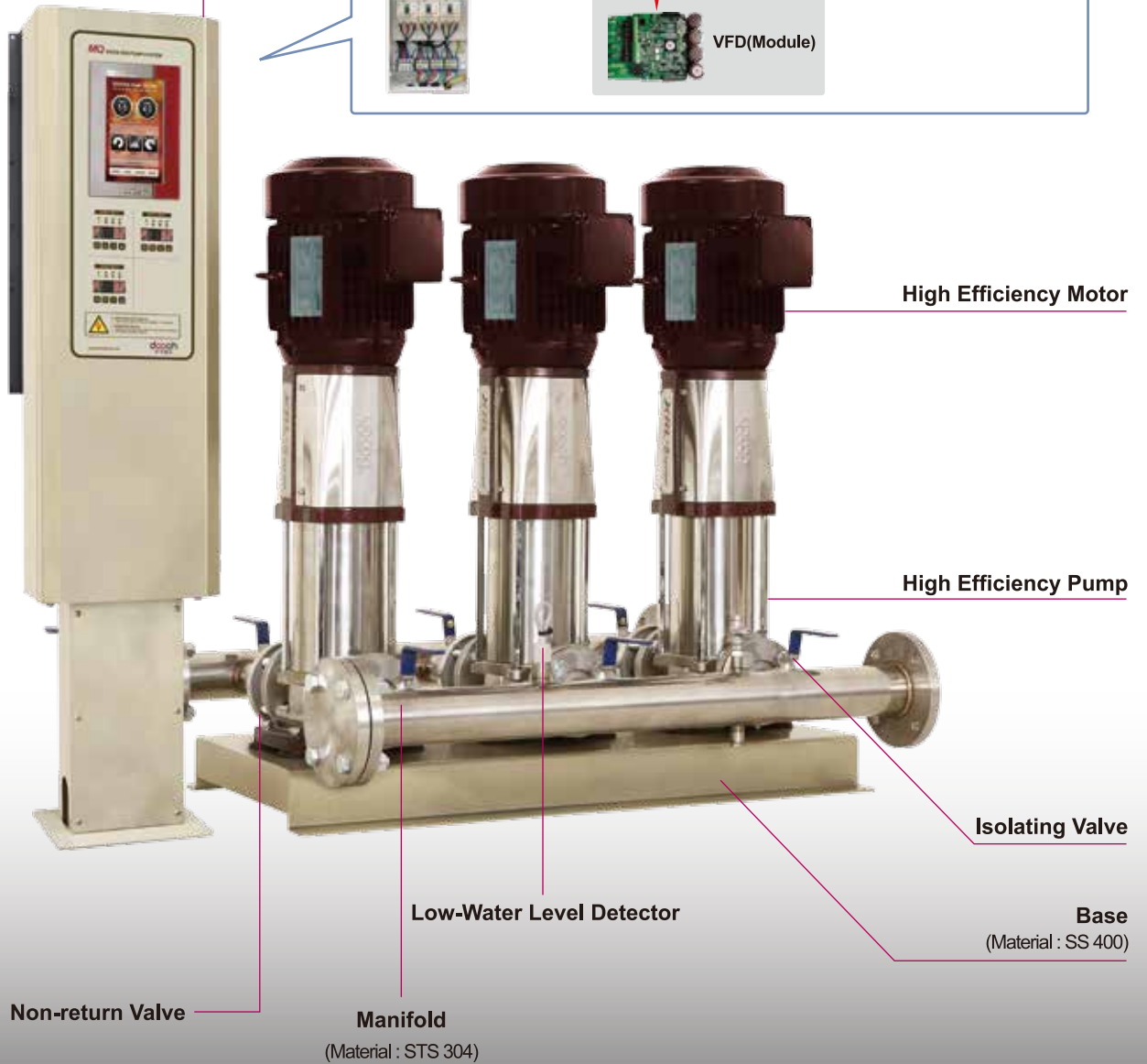
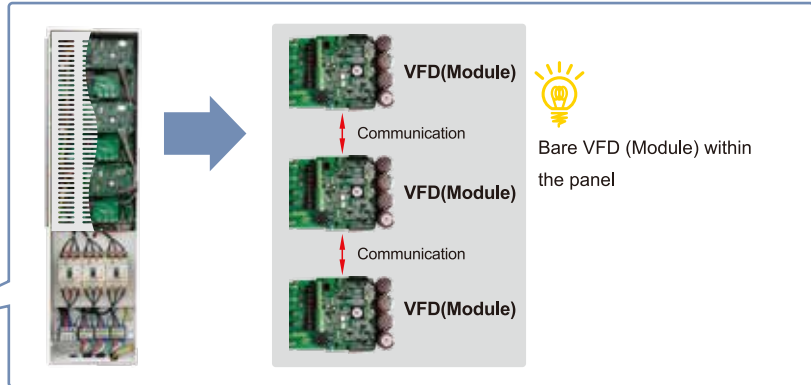


Alternative Operation

- Alternative operation refers to the total sum of the power accumulated
- This in-return ensures that the operating of each pump will be the same and extends the life-line of each pump as the wear is evenly distributed amongst the pumps.

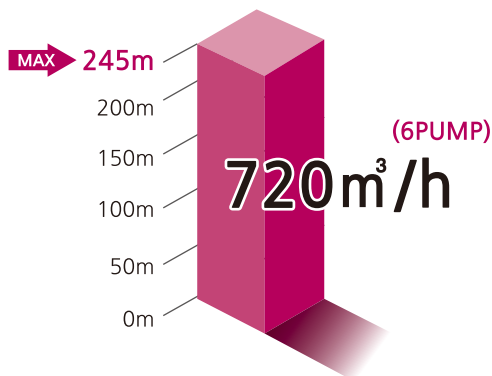
MQ Series System

V.F.D. within the panel



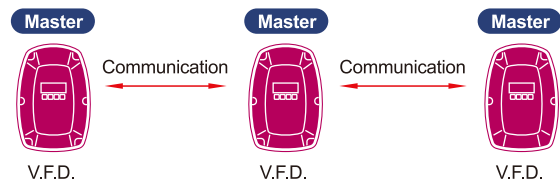
Specification

- Max. Flow(Q) : 720m³/h
- Max. Head (H) : 245m
- Pump Connection : Up to 6 Pumps
- Motor Power: 0.75~22kW (1~30HP)



Features

- 7" color LCD touch monitor
- Each pump are individually controlled by a VFD module within the panel
- High reliability (Multi-master control)
- Constant discharge pressure
- Reduced tank and panel sizes
- Less wear of the system during operation
- Compact assembly and installation
- High reliability with an installation of two pressure transmitter
- Lowest possible energy consumption
- Up to 22kW and connection of up to 6 pumps



Functions

- Pressure settings
- Alternative operation
- Pump Freeze Protection
- Automatic detection of low flow on discharge
- Automatic recovery after power outage
- Operation display and storage
- Equipped with an RS485

Alternative Operation

- Alternative operation refers to the total sum of the power accumulated
- This in-return ensures that the operating of each pump will be the same and extends the life-line of each pump as the wear is evenly distributed amongst the pumps.

Main Componets



VFD Module within the panel



High Efficiency Pump
XR(L) Series



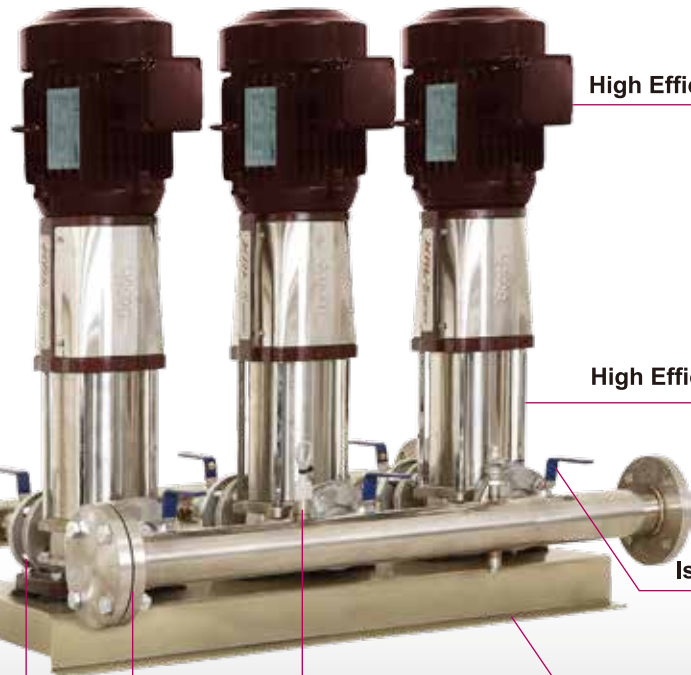
Standard Manifold

N747D Series System

Single-inverter booster pump
(General inverter within the panel)



General Inverter



High Efficiency Motor

High Efficiency pump

Isolating Valve

Base
(Material : SS 400)

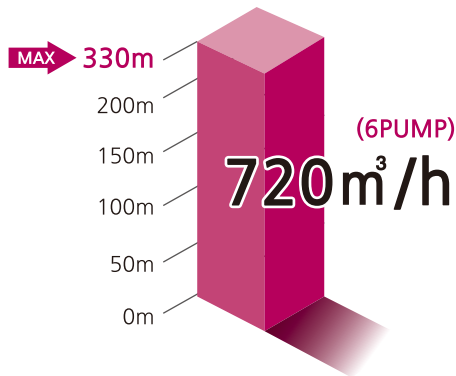
Low-Water Level Detector

Non-return Valve

Manifold
(Material : STS 304)

Specification

- Max. Flow(Q) : 720m³/h
- Max. Head (H) : 330m
- Pump Connection : Up to 6 Pumps
- Motor Power: 0.75~45kW (1~60HP)



Specification

- N747D Controller built within the panel
- System is operated by a single general inverter
- Up to 45kW with a general inverter
- Constant discharge pressure
- Reduced tank and panel sizes
- Less wear of the system during operation
- Compact assembly and installation
- High reliability with an installation of two pressure transmitter
- Lowest possible energy consumption

Functions

- Pressure settings
- Alternative operation
- Pump Freeze Protection
- Automatic detection of low flow on discharge
- Automatic recovery after power outage
- LCD Monitor
- Operation display and storage
- Equipped with an RS485

Main Components



General Inverter within the panel

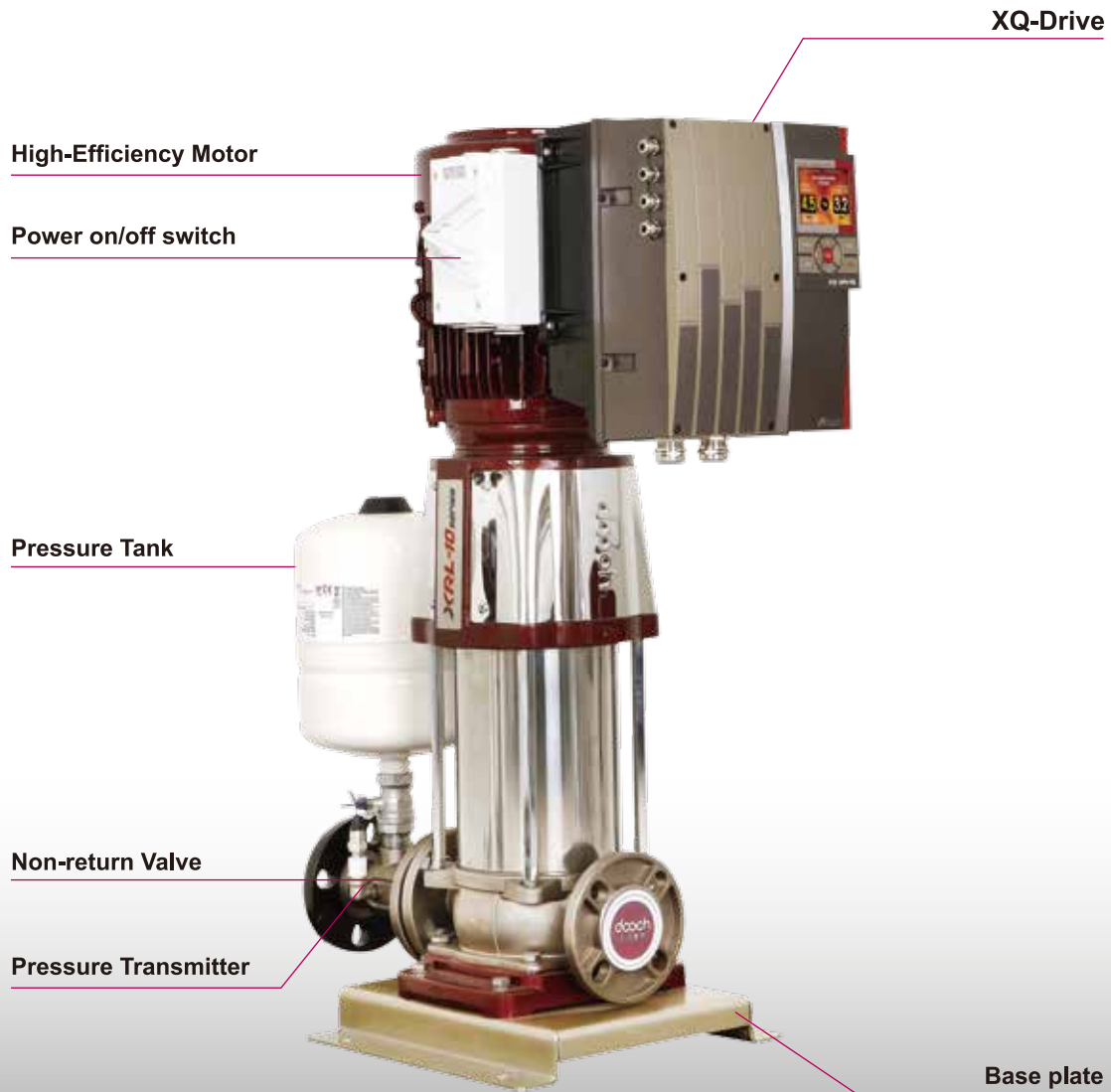


High Efficiency Pump
XR(L) Series



Standard Manifold

XQ-XR(L)

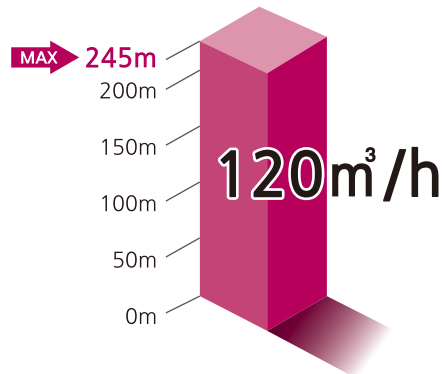


XQ-XR(L)

XQ-XR(L) pumps are built on the basis of XR(L) pumps. Enhanced with the XQ-Drive, the XR(L) pump together with the appropriate sensor is turned into an intelligent, variable speed pumping system. The XQ-Drives are frequency converter integrated into the pump which adjusts the motor speed to provide constant pressure or differential pressure to the flow rate.

Specification

- Max. Flow : 120m³/h
- Max. Head: 245m
- Motor Power : 0.75~22kW (1~30HP)
- Input Power: 3Φ×380V~440V / 50 & 60Hz
- Output Power: 3Φ×380V~440V / 50 & 60Hz



Functions

- Pressure settings
- Alternative operation
- Pump Freeze Protection
- Automatic detection of low flow on discharge
- Automatic recovery after power outage
- XQ drive will protect the pump
- Operation display and storage
- Equipped with an RS485

XQ-XR(L) Benefits

- 3.5" color display
- Built-in EMC filter/DC reactor
- Reduce noise and harmonic distortion
- Energy Saving (Up to 50%)
- Maintains constant pressure
- Simplicity (Eliminates separate control panels)
- Soft start functionality to minimize mechanical stress on the pumping system

Main Components



XR(L) Series



XQ-Drive

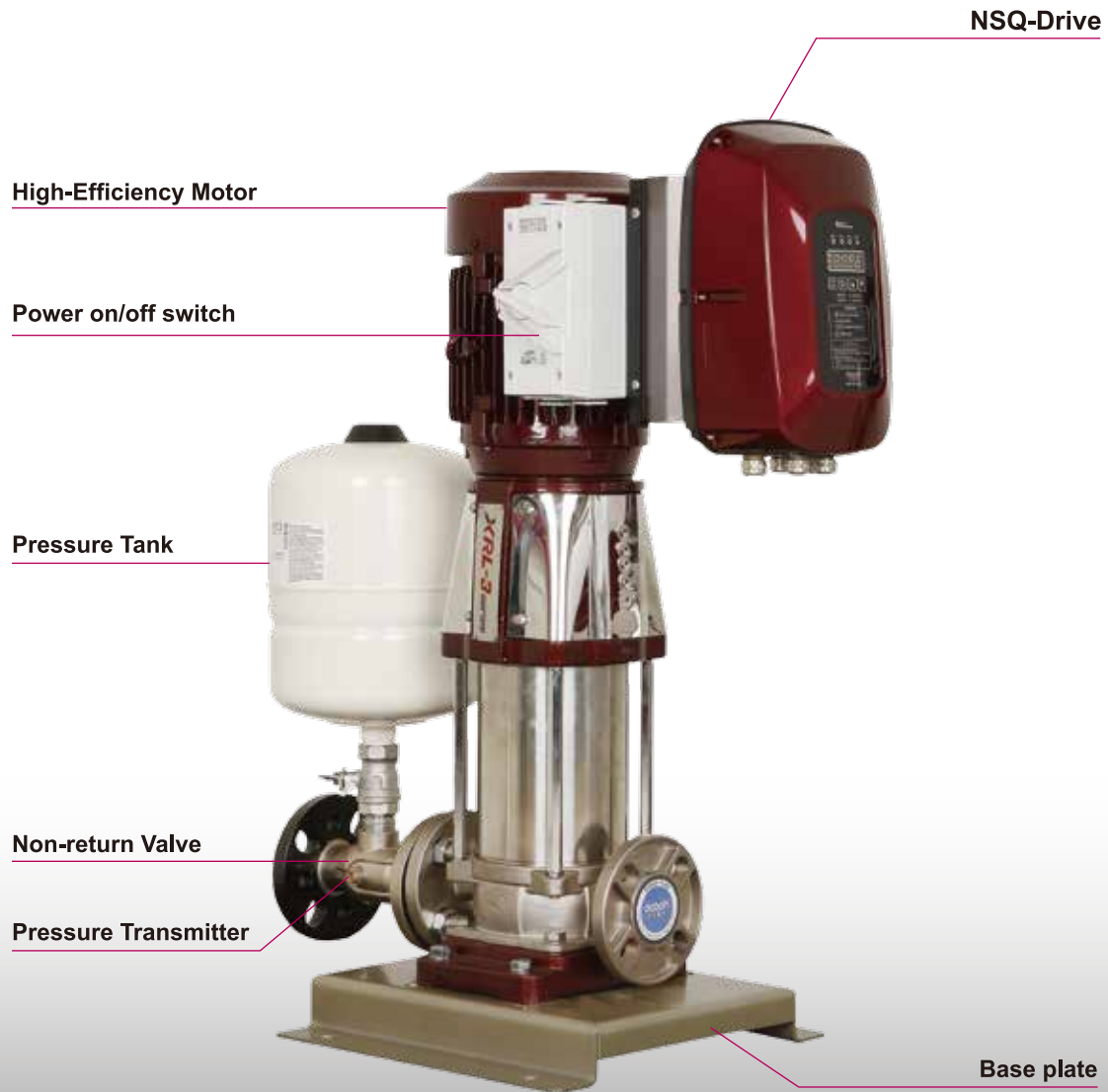


Pressure tank



Non-return Valve

NSQ-XR(L)



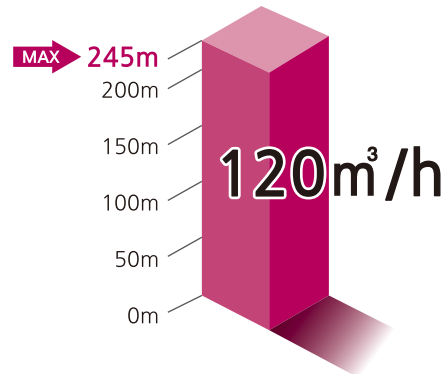
NSQ-XR(L) Series
VFD MULTI-STAGE PUMP

NSQ-XR(L)

NSQ-XR(L) pumps are built on the basis of XR(L) pumps. Enhanced with the NSQ-Drive, the XR(L) pump together with the appropriate sensor is turned into an intelligent, variable speed pumping system. The NSQ-Drives are frequency converter integrated into the pump which adjusts the motor speed to provide constant pressure or differential pressure to the flow rate.

Specification

- Max. Flow : 120m³/h
- Max. Head : 245m
- Motor Power : 0.75~22kW (1~30HP)
- Input Power : 3Φ×380V~440V / 50 & 60Hz
1Φ×200V~230V / 50 & 60Hz
- Output Power : 3Φ×380V~440V / 50 & 60Hz (in case of 3phase)
3Φ×200V~230V / 50 & 60Hz (in case of 1phase)



Functions

- Pressure settings
- Alternative operation
- Pump Freeze Protection
- Automatic detection of low flow on discharge
- Automatic recovery after power outage
- NSQ drive will protect the pump
- Operation display and storage
- Equipped with an RS485

NSQ-XR(L) Benefits

- Energy Saving (Up to 50%)
- Maintains constant pressure
- Simplicity (Eliminates separate control panels)
- Soft start functionality to minimize mechanical stress on the pumping system

Main Components



XR(L) Series



NSQ-Drive

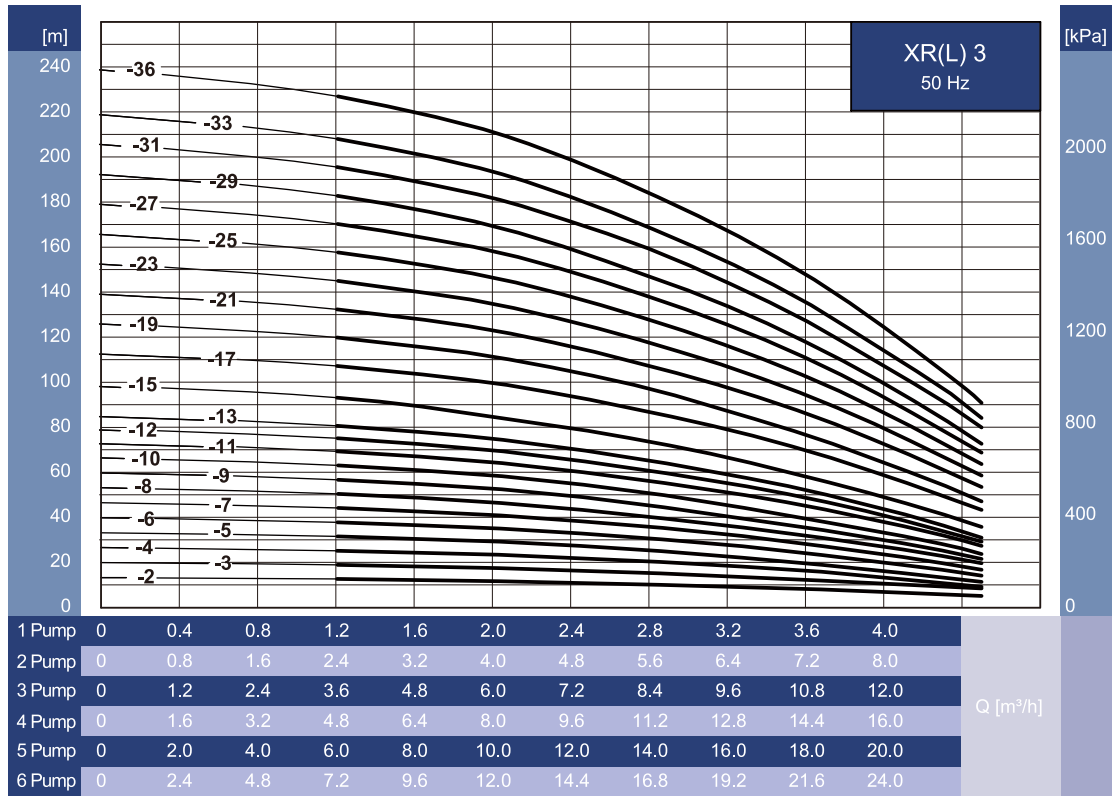


Pressure tank

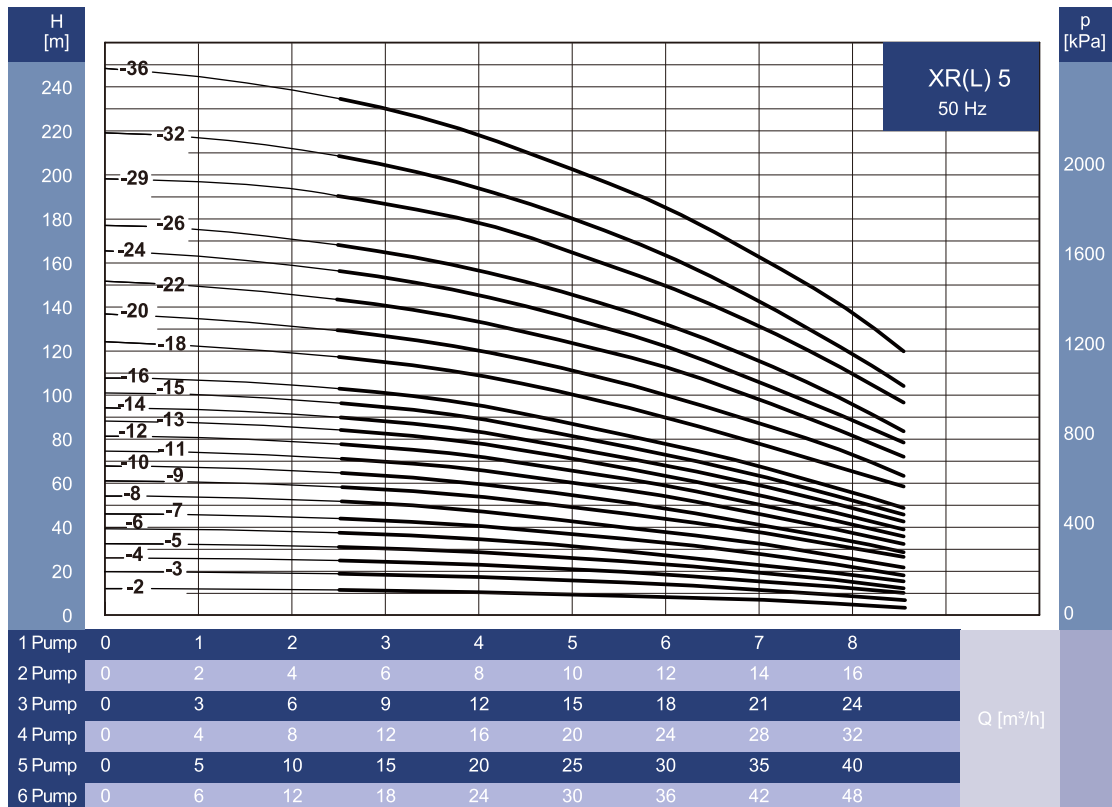


Non-return Valve

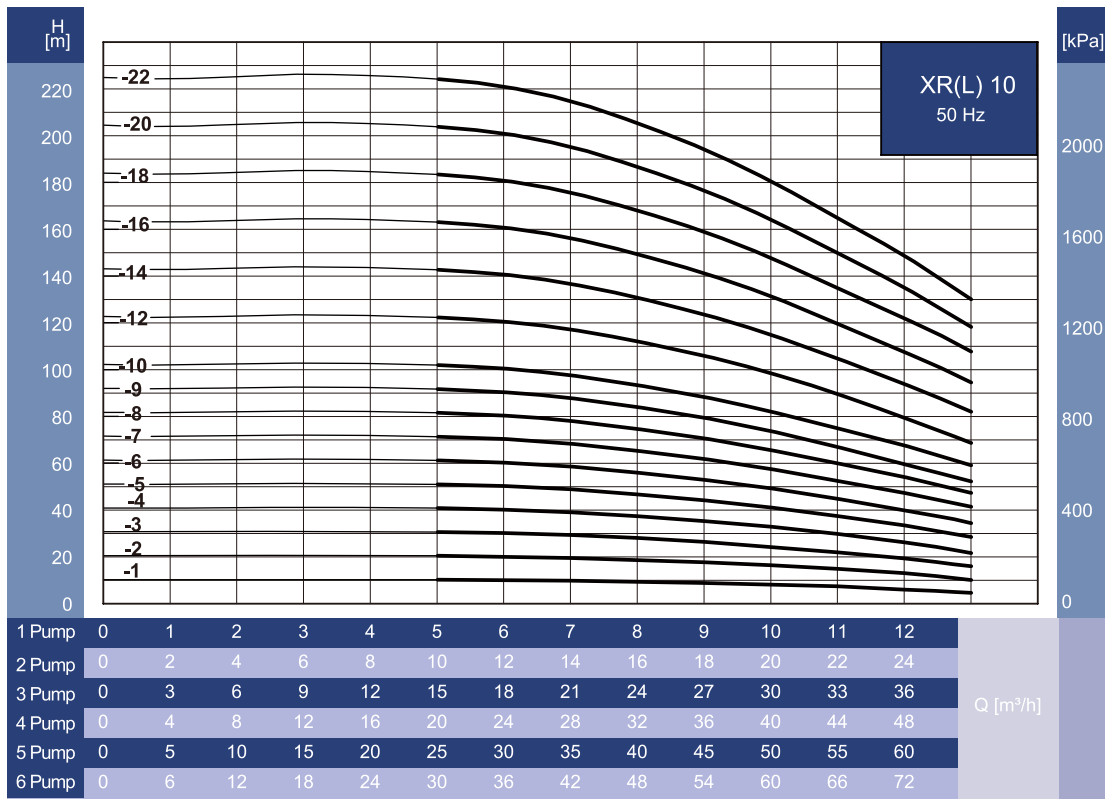
XR(L) 3 Series



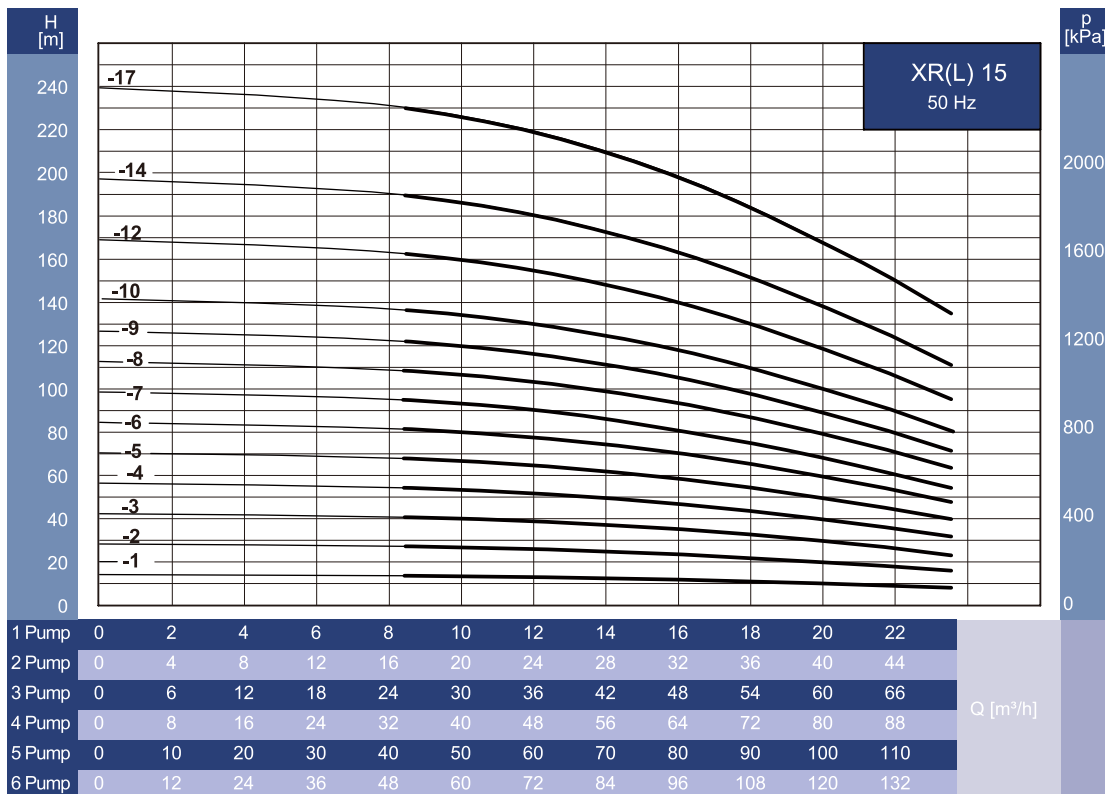
XR(L) 5 Series



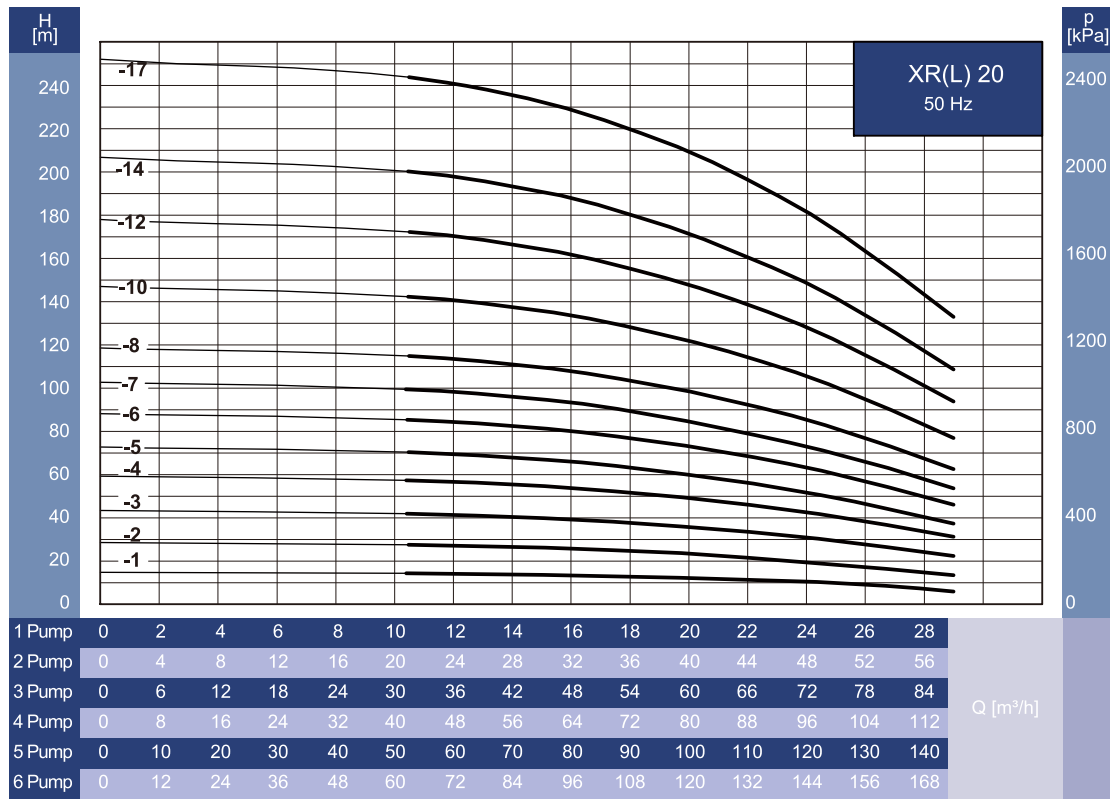
XR(L) 10 Series



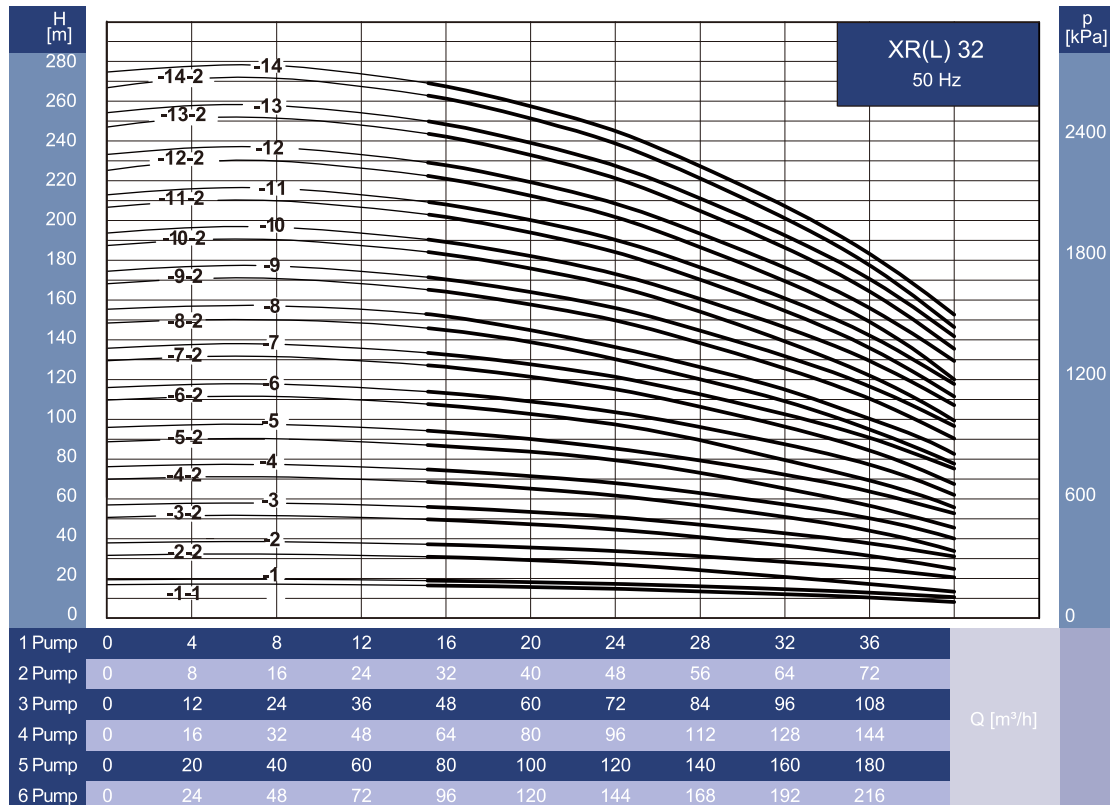
XR(L) 15 Series



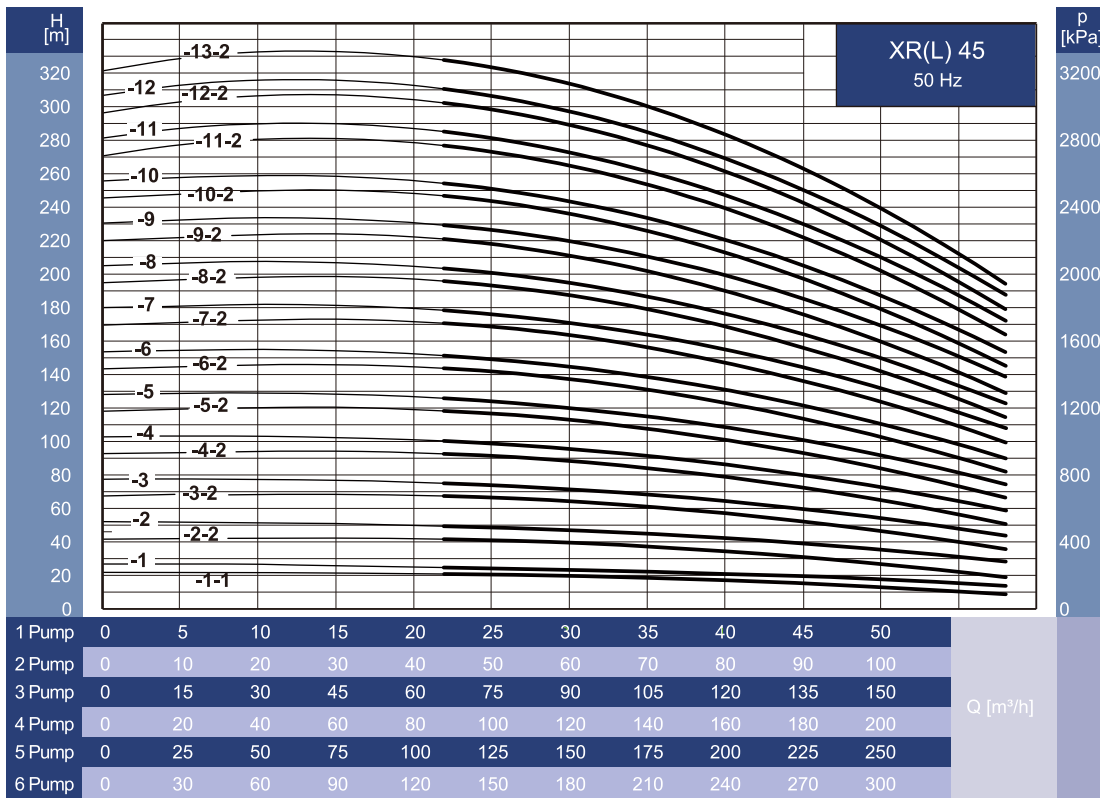
XR(L) 20 Series



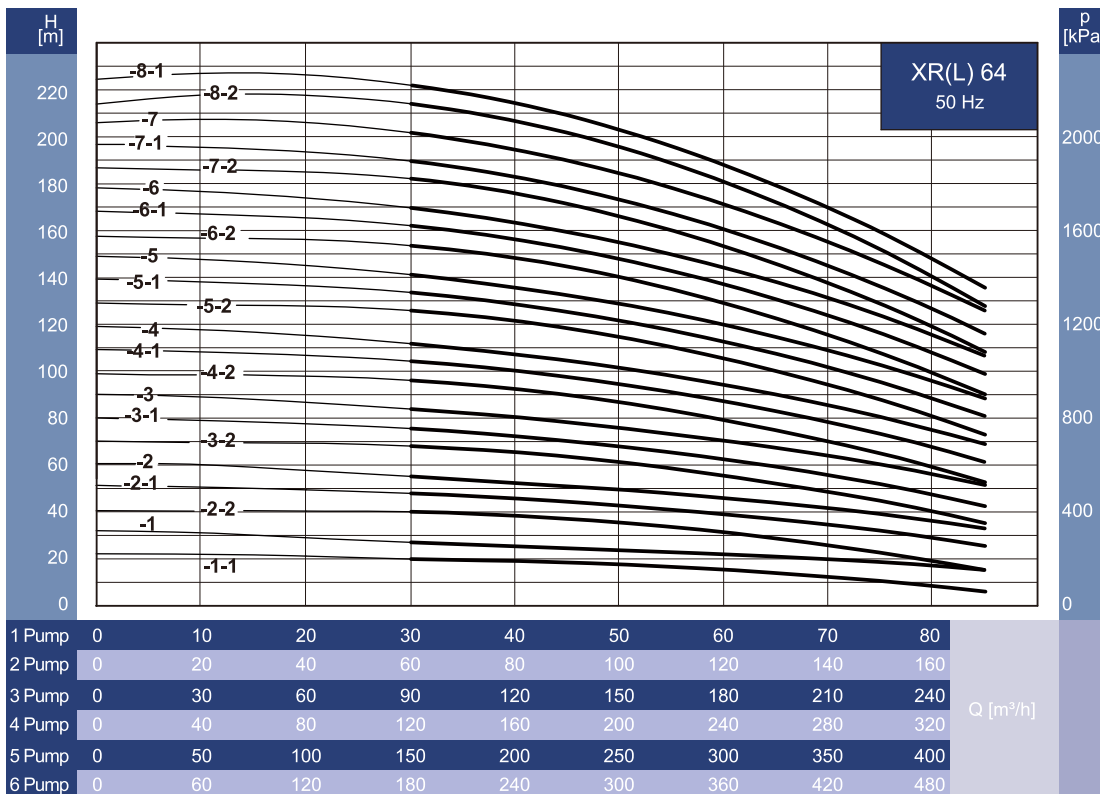
XR(L) 32 Series



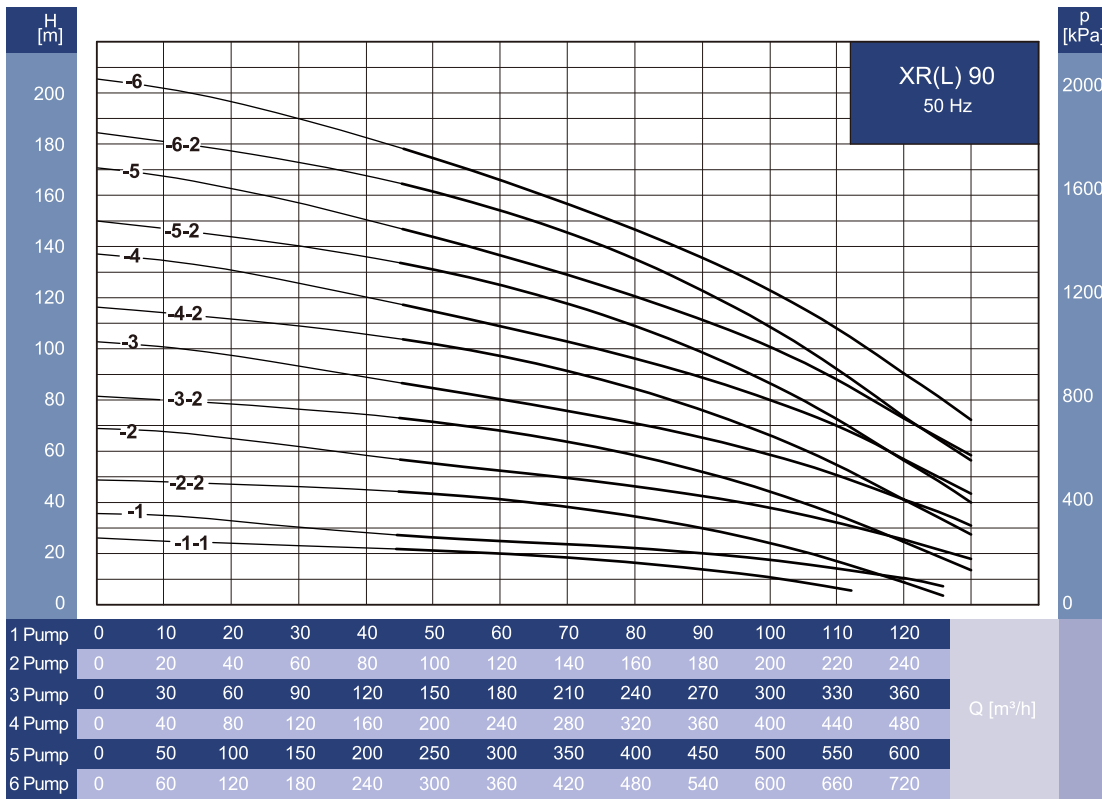
XR(L) 45 Series



XR(L) 64 Series



XR(L) 90 Series



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두크펌프

XQP SERIES

Individual VFD Booster Pump System

Max. Flow (Q) : 720m³/h
 Max. Head (H) : 245m
 Motor Power : 0.75~22kW (1~30HP)



NSQ SERIES

Individual VFD Booster Pump System

Max. Flow (Q) : 720m³/h
 Max. Head (H) : 245m
 Motor Power : 0.75~22kW (1~30HP)



MQ SERIES

Multi-Inverter Booster Pump System

Max. Flow (Q) : 720m³/h
 Max. Head (H) : 245m
 Motor Power : 0.75~22kW (1~30HP)



N747D SERIES

Inverter within Panel Booster Pump

Max. Flow (Q) : 720m³/h
 Max. Head (H) : 330m
 Motor Power : 0.75~45kW (1~60HP)

XQ-XR(L) SERIES

Built-In Inverter Multi-stage Vertical Pump

Max. Flow (Q) : 120m³/h
 Max. Head (H) : 245m
 Motor Power : 0.75~22kW (1~30HP)



XR(L) SERIES

Multi-Stage Vertical Pump

Max. Flow (Q) : 120m³/h
 Max. Head (H) : 330m
 Motor Power : 0.37~45kW
 (0.5~60HP)



TOTAL PUMP SOLUTION

SQ-2DHM SERIES

Built-In VFD Horizontal Booster Pump

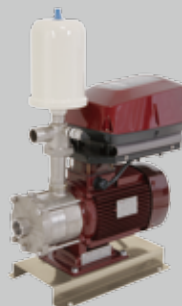
Max. Flow (Q) : 36m³/h
Max. Head (H) : 29m
Motor Power : 0.75~1.1kW (1~1.5HP)



NSQ-DHF(T) SERIES

Built-In VFD Multi-stage Horizontal Pump

Max. Flow (Q) : 29m³/h
Max. Head (H) : 68m
Motor Power : 0.55~5.5kW (0.75~7.5HP)



SQ-DHM SERIES

Built-In VFD Horizontal Unistage Pump

Max. Flow (Q) : 18m³/h
Max. Head (H) : 29m
Motor Power : 0.75~1.1kW (1~1.5HP)



NSQP-DHF(T) SERIES

Built-In VFD Horizontal Booster Pump System

Max. Flow (Q) : 58m³/h
Max. Head (H) : 68m
Motor Power : 0.55~5.5kW (0.75~7.5HP)



NDS SERIES

Submersible Drainage and Sewage Pump

Max. Flow (Q) : 31m³/h
Max. Head (H) : 20.7m
Motor Power : 0.4~1.5kW (0.5~2HP)



NSQ-XR(L) SERIES

Built-In Inverter Multi-stage Vertical Pump

Max. Flow (Q) : 130m³/h
Max. Head (H) : 245m
Motor Power : 0.75~22kW (1~30HP)



NSQ-DP SERIES

Built-In VFD In-line Circulation Pump

Max. Flow (Q) : 480m³/h
Max. Head (H) : 83m
Motor Power : 0.75~22kW
(1~30HP)



DP SERIES

In-Line Circulation Pump

Max. Flow (Q) : 750m³/h
Max. Head (H) : 85m
Motor Power : 1.1~132kW
(1.5~180HP)





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