## GLOBAL PUMP SOLUTION DOOCH

### 60Hz









# VARIABLE FREQUENCY DRIVE

**ALL-IN-ONE INTELLIGENT PUMP CONTROLLER** 



#### **VARIABLE FREQUENCY DRIVE (V.F.D)**

#### ALL-IN-ONE INTELLIGENT PUMP CONTROLLER

## MOTOR-INDEPENDENT, MICROPROCESSOR BASED ENERGY SAVING PUMP CONTROL SYSTEM.



**XQ-Drive** 





**SQ2-Drive** 

**NSQ-Drive** 

	XQ-Drive	NSQ-Drive	SQ2-Drive
Single phase model	-	-	Available power: 1.1~2.2kW Input power: 1Phase, 200~230V Output power: 3Phase, 200~230V
Three phase model	Available power: 0.75~22kW Input power: 3Phase, 380~440V Output power: 3Phase, 380~440V	Available power: 0.75~22kW Input power: 3Phase, 380~440V Output power: 3Phase, 380~440V	-
Main frequency	50/60Hz	50/60Hz	50/60Hz
IP Class	IP55	IP55	IP55
Ambient temperature	-10~+40 C°	-10~+40 C°	-10~+40 C°
Connections	RS485 port	RS485 port (OPTION)	-
Pressure transmitter	4~20mA	4~20mA	4~20mA
Display	Graphic LCD type (3.5")	FND type (5 digits)	FND type (5 digits)
Built-in-devices	Built-in EMC filter (IEC61800-3) Built-in DC reactor	External (OPTION)	External (OPTION)

#### **VARIABLE FREQUENCY DRIVE (V.F.D)**

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#### **XQ-DRIVE**

XQ-Drives are pump specific variable frequency drive that manage pump performance to match a wide range of system conditions and requirement.

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.

#### **Application**

- Pressure boosting system
- Water treatment and processing
- HVAC applications
- Wash system
- Process water

#### **Technical Specification**

Available power: 0.75~22kWInput power: 3Phase, 380~440VOutput power: 3Phase, 380~440V

Main frequency : 50/60HzMaximum frequency : 60Hz

• IP Class : IP55

- Maximum distance of pressure transmitter from drive 10 meters
- Ambient temperature -10°C to 40°C
- Humidity 50% at 40°C and 90% at 20°C

#### **Protections**

- Dry running
- Low water level detection
- Minimum flow stop
- Over/under voltage
- Inverter over temperature
- Pressure setting
- Sensor failure
- Pump freezing
- Pump overload

#### **Features**

- New hardware design (LCD display type)
- Energy savings up to 70%
- Multipump control capability up to 6 pumps
- Control mode pressure/differential pressure
- Hydraulic control functions included
- Electrical and hydraulic pump protections
- Automatic recovery after power failure
- Easy retrofitting on existing pump system
- Mounted directly on standard I.E.C. motors
- Flexible installation(motor, wall)
- Built-in EMC filter and DC reactor
  - -Reduced noise and harmonic distortion

