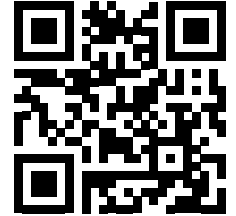


TECHNOFORCE e-HVX & e-HVXR

Variable Speed Pumping Systems

THE MANUAL IS AVAILABLE AT:
<https://qr.xylemsales.com/hijesr>



For safety and correct product usage, read the manual before this product is used.

1 Introduction

NOTICE:



Read the installation, operation and maintenance instructions located on the Xylem website before use. Improper use of the product can cause personal injury and damage to property and may void the warranty. See e-HVX/e-HVXR Booster System Instruction Manual for complete Product Warranty.



WARNING:

Always lock out power to the driver before you perform any installation of maintenance tasks. Failure to disconnect and lock out driver power will result in serious injury.



WARNING:

Personal protective equipment should be worn when handling this equipment. Only use properly sized certified lifting equipment & lifting devices, including slings, suitably rated for the weights to be lifted. Slings, when used, must be of identical materials to avoid differences in stretch rates. Do not use lifting devices that are frayed, kinked, unmarked, or worn.



WARNING:

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov.

2 Transportation requirements



WARNING:

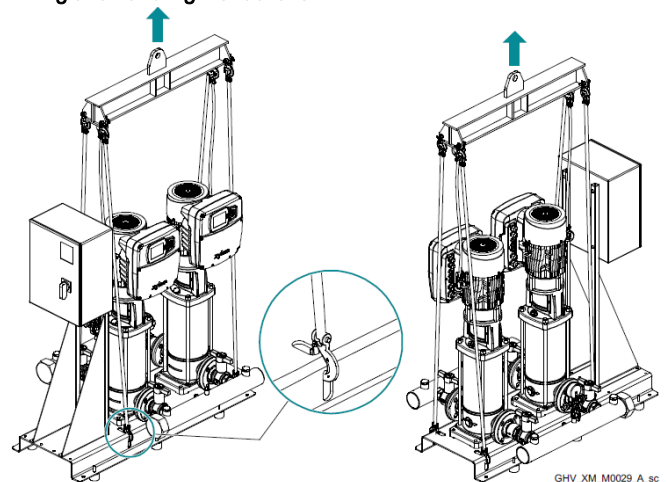
- Assembled units and their components are heavy. Failure to properly lift and support this equipment can result in serious physical injury and/or equipment damage. Lift equipment only at the specifically identified lifting points. Lifting devices such as eyebolts, slings, and spreaders must be rated, selected, and used for the entire load being lifted.
- Crush hazard. The unit and the components can be heavy. Use proper lifting methods and wear steel-toed shoes at all times.



CAUTION:

Care should be taken to prevent damage due to dropping or jolting when moving the controller. Transportation damage should be brought to the carrier's attention immediately upon receipt.

Lifting and handling instructions



NOTICE:

Eyebolts located on the motors must not be used to lift the entire packaged system unit.

- Remove packing materials from the product.
- Release the pump set from the pallet by removing the screws and /or cutting the straps.

! For safety and correct product usage, read the manual before this product is used.

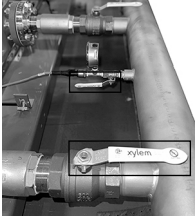
3. Fasten the ropes or lifting hooks to the base plate as indicated in the lifting diagram.
4. Fix the sling and separator bar to the lifting crane.
5. Attach additional safety ropes, slightly slackened, to the lifting eye bolts of the motors for additional safety.
6. Slightly lift the spreader bar to establish tension in the primary lifting ropes attached to the base. Ensure the ropes attached to the motors still contain slack.
7. Proceed to lift the unit.

3 Pre-start checklist

The full e-HVX/e-HVXR IOM must be consulted for more details while reviewing the following checklists:

Mechanical

- Supply (Inlet) and Discharge plumbing have been connected to the respective suction and discharge manifolds.
- Manifold header isolation valves have been opened to let water flow through the booster system.
- All individual pump branch isolation valves (2 for each pump - one on the pump inlet and one on the pump discharge) are in the open position. See image below.
- Pressure transducer isolation valve(s) are in the open position. See image below.



- Each booster pump has been purged of air by using bleed valves.
- All connection points have been checked for leaks.

Electrical – to be reviewed/performed by qualified personnel

- Electric power feed voltage ratings match the e-HVX/e-HVXR system nameplate along with the overcurrent protection and wire sizing requirements for each the NEC, local codes/ordinances, and factory electrical schematics.
- Individual pump circuit breakers are closed (in the ON position)
- BMS (building management system) and/or SCADA communications/signal connections have been made to the appropriate connection point(s) for the type(s) in use on site.

4 Power On

The following actions shall only be taken by qualified personnel. The full e-HVX/e-HVXR IOM shall be consulted for more details.

1. Close (Turn On) the feeder circuit switch or breaker.
2. Close (Turn On) the main disconnect switch on the e-HVX/e-HVXR enclosure door.
3. Once powered on, hydrovar X smart motor displays will automatically power on and display the quick-start genie. See the hydrovar X programming manual to select the right settings for the intended application.

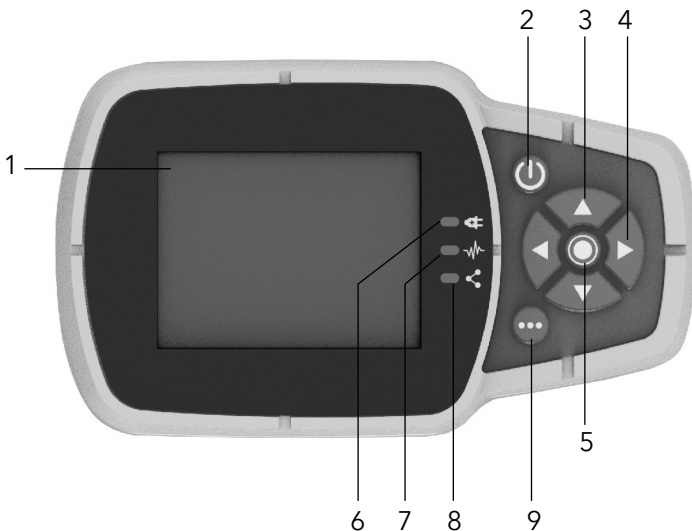


Table 1: Navigating the hydrovar X display

Position number	Name	Function
1	Display	
2	ON/OFF button	<ul style="list-style-type: none"> • Start and stop the unit • Reset the errors by pressing for 5 seconds.
3	UP and DOWN arrow keys	<ul style="list-style-type: none"> • Move vertically between menu options • Perform a manual switch-over on a multi-pump system by pressing the DOWN arrow (extended pressure) • Rotate the display 180° by simultaneously pressing ENTER and the UP arrow (extended pressure).



For safety and correct product usage, read the manual before this product is used.

Position number	Name	Function
4	RIGHT and LEFT arrow keys	<ul style="list-style-type: none"> Move horizontally to navigate home screens and menus Lock and unlock the display by simultaneously pressing the RIGHT and LEFT arrows (extended pressure).
5	SEND button	<ul style="list-style-type: none"> Advancing through the menu levels Confirm the selection of a parameter Confirm the value of a parameter.
6	Unit LED on	Indicate that the unit is powered.
7	Unit status LED	Indicate: <ul style="list-style-type: none"> Motor no powered (off) Alarm active and motor stopped (yellow) Unit error and motor stopped (red) Motor started (green) Alarm active and motor started (yellow alternating green).
8	Connection status LED	Indicate <ul style="list-style-type: none"> BMS communication disabled (off) BMS communication active (green) Wireless communication with mobile device established (fixed blue) Wireless communication with mobile device being established (flashing blue) Wireless communication and BMS communication active (blue alternating green).
9	Multifunction button	<ul style="list-style-type: none"> Access the parameter menu or additional functions according to the screen on the display. Enable the unit to a mobile device (extended pressure)

5 Connectivity

The e-HVX/e-HVXR packaged system is equipped with the following smart technologies: hydrovar X smart motors, optimize condition monitoring sensors, and Xylem Avensor.

- The hydrovar X smart motors are supported by the Xylem X app.
- To wake up and connect to the optimize condition monitoring sensors installed on this product, follow the optimize quick start guide shipped alongside the e-HVX/e-HVXR or follow the QR code below. (Insert a QR code below that leads to the optimize landing page).
- The e-HVX contains the Xylem Avensor gateway installed within the unit control panel. Scan the QR code below to set up an account and get started. (insert QR code that leads to Xylem Avensor landing page).

Xylem X App

Available for mobile devices with wireless technology operating system.

Use the App to:

- Check the status of the unit
- Configure parameters
- Interact with the unit and obtain data during installation and maintenance
- Generate a work report
- Contact the assistance service.

Download the App and connect the mobile device with the unit

- Download the Xylem X App to the mobile device from App Store¹ or Google Play² by scanning the QR code:



¹ Compatible with iOS® operating systems with version 15.0 and above.

² Compatible with Android operating system with version 10.0 and above.

6 Startup

Certain critical settings will have factory default values which may or may not apply to a given installation site. Take care when changing these settings. The full e-HVX/e-HVXR IOM shall be consulted for more details.

Pump commissioning:

Commission the pumps. Press the On/Off button to start. Or choose to keep the system offline.

7 Xylem Product Cybersecurity

Xylem values system security and resilience. Defending against cybersecurity threats is a shared responsibility. Xylem builds products that are secure by design. Our customers have a responsibility to understand the risks inherent in their processes and take steps to operate and maintain their solutions securely. For details and updates on Xylem product cybersecurity visit xylem.com/security



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