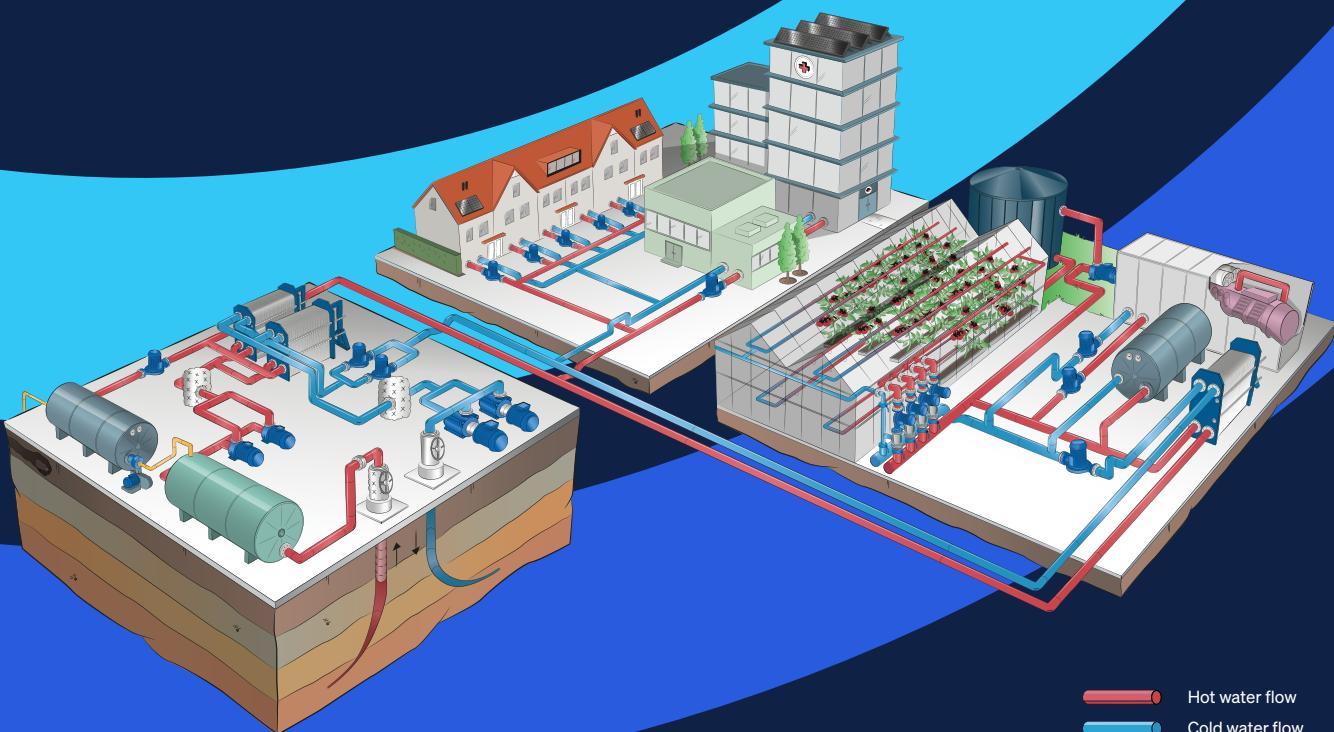


# HEATING & COOLING

## a complete package



 **LOWARA**  
a xylem brand

 **Danfoss**

**HORA** **econ<sup>®</sup>**

**For all your Heating & Cooling projects, Van der Ende Group offers you a complete package. This includes efficient Lowara heating pumps, high-quality Danfoss variable frequency drives, robust Hora control valves, Econ butterfly valves, and a wide range of accessories, such as flange sets, pressure sensors, and more. In addition to supplying all products, we offer 24/7 service and have all the expertise needed for the right customized advice.**

## **HORTI VALVE 3-WAY**

control valve powered by Hora

Van der Ende Group offers an extensive range of high-quality control valves with servomotors for greenhouse heating, cooling, and air treatment systems. The control valve features excellent and reliable control characteristics. This complete range is essential for any installation to optimally regulate the climate. The well-known Hora control valves have been used in the industry for many years. Van der Ende Group has now, in collaboration with Hora, set up a special line that perfectly matches the horticultural market.

- High quality according to German standards
- Excellent control behavior
- KVS value: from 4 to 1600
- System connection: from DN15 to DN300
- Servomotor voltage: 24VAC/DC or 230VAC
- Control: 3-point control, 0(4)-20mA or 0(2)-10VDC



## **ECON BUTTERFLY VALVES**

67 series



With the Econ butterfly valve, we have a high-quality valve in our range. The Econ butterfly valve has previously proven itself in various industries. The valve is available as a manually operated valve, as well as with electric or pneumatic actuation.

- High-quality butterfly valve
- Tested according to the EN13774 standard
- From DN25 to DN400
- Available in manual, electric, or pneumatic versions
- Standard suitable for temperature range: -10 °C to +110 °C

# INLINE AND BLOCK CENTRIFUGAL PUMPS AVAILABLE WITH OPTIMYZE

The Lowara e-LNE and e-NSC series are pumps made from high-quality materials (cast iron/stainless steel/duplex). The inline (e-LNE) and block pumps (e-NSC) cover the full needs of your system, from 1.8 to 1900 m<sup>3</sup>/h. These pumps are suitable for circulation systems for warm and/or cold fluids and are designed for continuous use. In addition to the complete line of low to high capacities, we have the largest stock (50 Hz and 60 Hz) in the Netherlands.

## Inline pump

Capacity: from 1.8 to 900 m<sup>3</sup>/h

Connection: DN32 to DN250

- e-LNEE (close-coupled with extended motor shaft)
- e-LNES (standard motor with stub shaft)



## Block pump

Capacity: from 5 to 1900 m<sup>3</sup>/h

Connection: DN32 to DN350

- e-NSCE (close-coupled with extended motor shaft)
- e-NSCS (standard motor with stub shaft)
- e-NSCF (on foundation plate with shaft coupling and separate motor)
- e-NSCC (on foundation plate with extended shaft coupling)
- e-NSC (separate pump part with free shaft end)



### The pumps are characterized as follows:

- ✓ High efficiency motors
- ✓ High efficiency hydraulic design
- ✓ Available in the desired connection voltage (50 Hz and 60 Hz)
- ✓ Multi Voltage version (208-230 + 400-480V 60 Hz)

### Multi Voltage motors

The pumps are available in any desired connection voltage and come with the corresponding certifications according to local standards. We also offer our Multi Voltage motors, developed in collaboration with Xylem, which are equipped with a 9-pin connection (208-480V, 60 Hz). Together with our 575-600V motor, we can serve 90% of the 60 Hz market.



## Optimyze

With this smart sensor solution, you continuously monitor the condition of your pumps and pump systems. Optimyze measures vibration, temperature and pressure and signals deviations at an early stage. This prevents unnecessary downtime and you plan maintenance at the right time. This increases reliability and extends the life of your installation.

# USEFUL COMBINATIONS

## Danfoss VLT & Vacon Drives

With a complete line of drives, we offer you the capability to automate and optimize your processes. This way, the system is efficiently structured, monitored, and secured. With this, you achieve significant energy savings and minimize the chance of repairs or unnecessary interruptions in the process. Thanks to our large inventory of both Danfoss VLT and Vacon drives, we can deliver immediately.



- ✓ Easy to commission and start up, thanks to the graphical control panel and wizard-assist function.
- ✓ Extended lifespan and minimized lifecycle costs due to electrolyte-free DC link capacitors.
- ✓ Fast and efficient system integration thanks to specific features for pump, fan, and compressor applications.
- ✓ Common applications include up-and-down control, full control 0-10V 4-20mA, and PID control.

## Pressure Sensors

Measuring pressure difference in a transport line is the best way to perfectly control your installation. By using pressure sensors, the variable frequency drive becomes integrated with the system. The pressure sensor is also available as a differential pressure sensor and is optionally supplied with a connection set and water hammer arrestor.



## Flange Sets

On request, we also supply flange sets with the pumps, control valves, and butterfly valves. These sets include flanges with corresponding bolts, nuts, and gaskets. The flanges are supplied in PN6, PN10, and PN16 versions depending on the counter flange. This ensures that you have the correct flange set on-site for the appropriate pump, control valve, or butterfly valve.

# curves

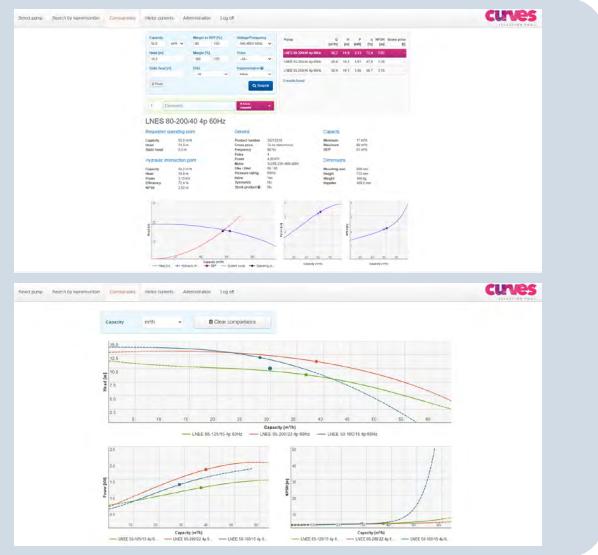
SELECTION TOOL

Curves is our online selection tool that allows you to easily and quickly select the right heating pump. You make the selection based on the desired operating point (capacity and head), DN size, and/or voltage.

## Compare pumps

Do you want to compare pumps based on technical specifications or price? This can be easily done via the comparison button.

Additionally, it's possible to create a project, add fittings such as butterfly valves and control valves, and directly request a quote for a complete project.



## WORKSHOP & SERVICE

You can count on our technicians 24 hours a day, 7 days a week. If you have a malfunction, a call to our breakdown service (also available at night) is enough. In our workshop, our colleagues are always ready to assist you. You can always rely on our service for pump maintenance, pump overhaul, and pump repair. Van der Ende Group is not only your go-to for a defective pump but also for valves, motors, fans, variable frequency drives, and gear motors. We are familiar with all brands and have many spare parts in stock, enabling us to respond quickly.



## SEAL SERVICE KITS

As an addition to our service department, we supply seal service kits containing the mechanical seal, O-rings, assembly fluid, and a tool, enabling service technicians on-site to easily and quickly replace a seal. A QR code is displayed on the packaging, [linking](#) to a service video that shows step-by-step how to replace the seal and what tools are required. Seal service kits are available in 14, 22, 28, 38, and 48 mm.



**Vander Ende  
Group**