

# Electric and hybrid propulsion

## Cooling system for E-LINE inline motor

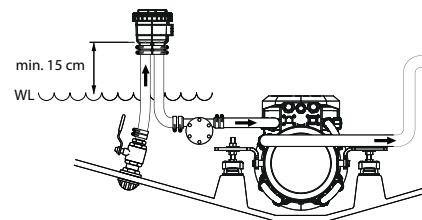
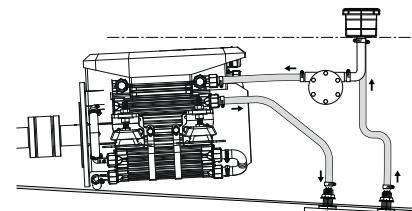
The E-LINE motors can be cooled with fresh surface water or via a keel cooler. In areas with clear fresh water the surface water cooling can be applied. For salty or dirty waters apply the keel cooler.

### Keel cooler

The closed circulation keel cooling system, advised for salt or muddy waters. Using the ELINEKC keel cooler and EIP40SET pump the coolant VOC (VETUS Organic Coolant) transports heat away from the motor and controller.

The ELINEKC, material G-CuSn10Zn, is suitable for use with motors up to 11 kW\* of power, at a water temperature of 25 °C and flow of 6 L per minute.

The EIP40SET contains a powerful extreme silent brushless 12V DC circulation pump. Do not run this pump dry. In the circulated system the EIP40 pump has a low energy consumption of about 8 W (0,67 A at 12 V DC).



### Fresh water cooling

This installation requires the WP1208 12VDC or WP2408 24 VDC pump. Along with FTR140/13 filter with FTR140FM element.

See page 430 for water scoop and hose barbs, page 52 for water strainer, page 466 for hoses and page 440 for hose clamps.

\* For motors above 11 kW, consult your VETUS dealer.

A larger keel cooler set (code EDKCSET2) will be available in 2026.

### Keel cooler

#### EDKCSET



### Fresh water cooling

#### EDFWSET



## Module: Control

The VETUS E-DRIVES (E-LINE and E-POD) work with V-CAN data communication as do the VETUS proportional thrusters (BOW PRO). This in-house designed data communication solution ensures less cables throughout your boat, robust reliable control and simple expandability. All E-LINE, E-AIR, and E-POD propulsion systems come standard with the MPE1KB key switch and the MPE1MBV monitoring panel.

### Key switch for E-DRIVES

The MPE1KB key switch is an all-in-one solution incorporating the V-CAN power supply, 12-VDC cooling-pump power supply, and an anti-theft feature. It powers the V-CAN line, dashboard accessories and 12-VDC cooling pump with a turn of the key.

### Specifications

- Compact design and high quality materials
- Stylish designed aluminium bezel (85 x 85 mm)
- Quick installation in Ø 75 mm cut-out hole
- Can be installed in double frame (XTASF2P 167,5 x 85 mm)
- Waterproof IP65 when mounted
- V-CAN CAN bus protocol certified
- Input wires 12 VDC
- Reverse polarity protection for V-CAN output
- Switched output V-CAN connector 12 VDC, fuse protected 5 A max.
- Switched output 12 VDC, fuse protected 30 A max.
- LED indication when engaged



#### MPE1KB