

# TractionElite $fl^2$ MRL-S

## Machine room less - in Shaft

TractionElite H2 MRL-S is everything you love from Hydroware, now for traction lifts. Already, with hundreds of projects world-wide. With Hydroware you get fast and reliable delivery, market leading support, and outstanding installation and commissioning time. Take the guess work out of traction lift modernisation.



### MRL-S | Shaft

- Controller inside shaft, manoeuvre panel (MAP) outside of shaft
- Frequency inverter wall-mounted in shaft
- Can be installed vertically or horizontally
- Max 25 m between controller and MAP-cabinet



### MAP-cabinet | The user interface box

- Includes HMI
- Evacuation procedures and emergency stop
- Resetting of fuses
- Intercom unit



### Perfectly suited for MRL MOD

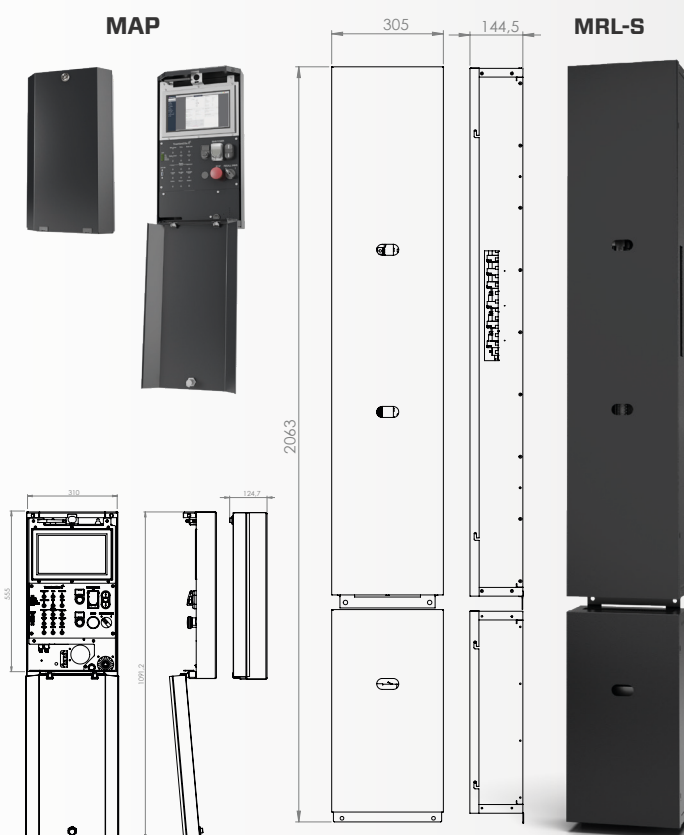
- Monospace, Gen2, Schindler S-series, Thyssen and many more



### TractionElite H2 ECO

- With energy regeneration

### Standard measurements



## TractionElite $fl^2$ - One for All: Same user interface for HydroElite and TractionElite



**Sustainable lift**  
Modernisation of  
traction lifts



**Superior installation**  
Reduced  
installation time



**10" touch display**  
Simple navigation  
and clear overview



**CANopen Lift**  
Flexibility and  
less cables



**HydroCloud connection**  
Surveillance, access and  
updates with cloud connection

# ff<sup>2</sup> - What sets it apart



## Installation - fast and simple

- CANopen Lift technology
- No floor zone sensors needed
- Decentralised lift control system
- Less cables and hardware
- Innovative pit box
- Simple commissioning
- SIL3 certified - Position Supervisor Unit



## 10" touch display

- Easy to navigate
- Language options
- Instruction movies in display
- Training sessions simplified
- Integrated diagnostic tool
- Real time and historical data
- Safety circuit overview
- Full accountability



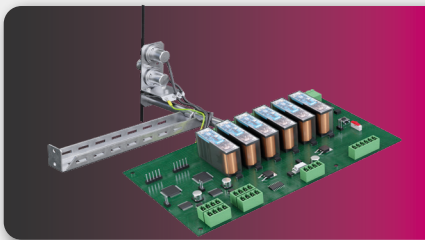
## Stay connected - HydroCloud

- HydroCloud connection
- Always updated documentation
- Remote software updates
- Remote monitoring
- Access from anywhere
- Live internal drawings
- Better planning of maintenance
- Constantly evolving IoT



## Modernise traction lifts with minimal aesthetic impact

With **TractionElite H² MRL-S** decentralised user interface, the aesthetic impact will be held to a minimum after a modernisation. The decentralised MAP, housing the 10-inch touch display and user interface, is placed on a wall outside of the shaft and measures approximately 310x555 mm. The main controller, and the frequency inverter, is placed inside the shaft.



## PSU ff² DILIGENS

A safe absolute positioning system with UCM and overspeed tripping functions. Activates electrical safety gears and **replaces all safety-relevant limit switches and floor sensors.**

- SIL3 compliant and certified according to EN81-20/50 PESSRAL
- Certified for low top and low pit
- Replaces mechanical props for low pit/top in combination with electrical safety gears



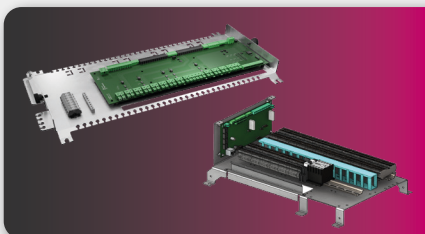
## 10" touch display and accessibility

The control unit is fitted with a 10-inch high resolution touch display. Among other features, the user will be able to find documentation, schematics, historical data and error logs directly in the display. Furthermore, there are instruction movies and language options available. The lift controller is accessible from any smart device and enables the user to connect to the controller from anywhere in the lift shaft.



## Surveillance, access and updates with cloud connection

All units come with HydroCloud readiness. Thanks to the HydroCloud connection, the unit can be accessed from anywhere. The unit can be updated remotely, and documentation will always be up to date. The system is open and can be adapted to work with other monitoring systems on the market.



## Pit and car node - improved

Our new innovative pit node is installed in the shaft pit (place anywhere below floor node 1) cuts down the number of wires that run between shaft and machine room. A new version of the pit node is available for machine rooms on-top, with a connectable cable, allowing for a smoother and faster installation. The improved car node allows for a neater and more professional looking installation.

