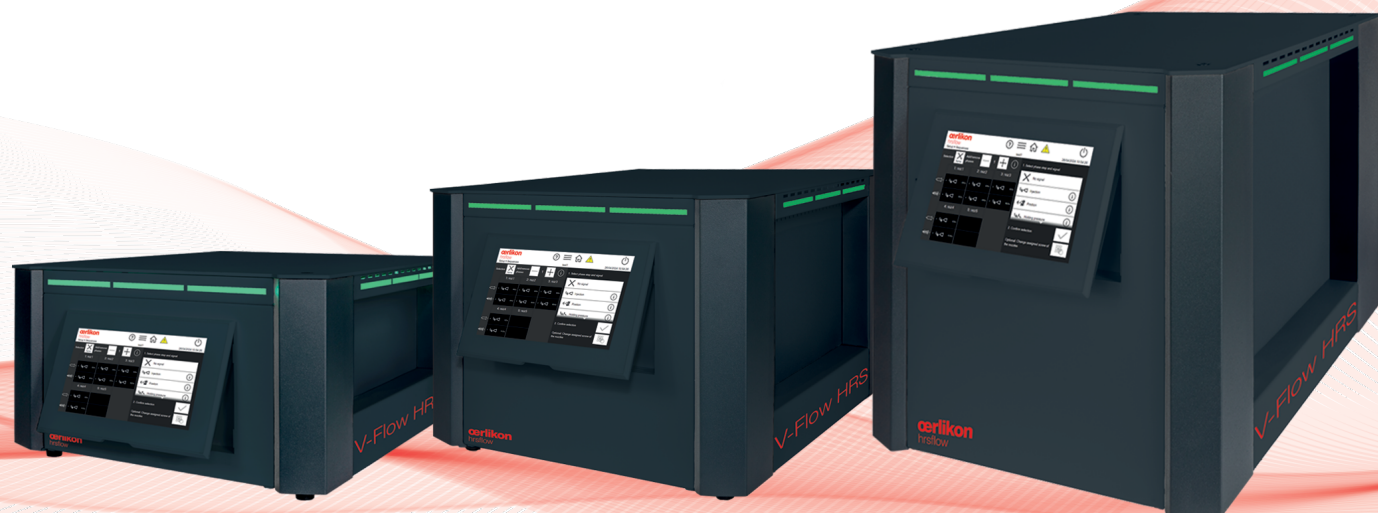


**oerlikon**  
hrsflow

# V-Flow HRS

Precision in Every Drop, Excellence in Every Part





# Effortless Process Control

Introducing the V-Flow HRS from Oerlikon HRSflow, the next-generation sequential multi-zone controller designed for unmatched precision and reliability in valve gate nozzle control. Engineered to elevate part quality, streamline cycle times, and boost overall productivity, the V-Flow HRS sets a new benchmark in performance.

Universally adaptable for all valve gate systems, including the most demanding high-performance applications, these controllers offer configurations ranging from 6 to 30 valves, in multiples of 6, and can efficiently manage up to 4 phases per cycle.

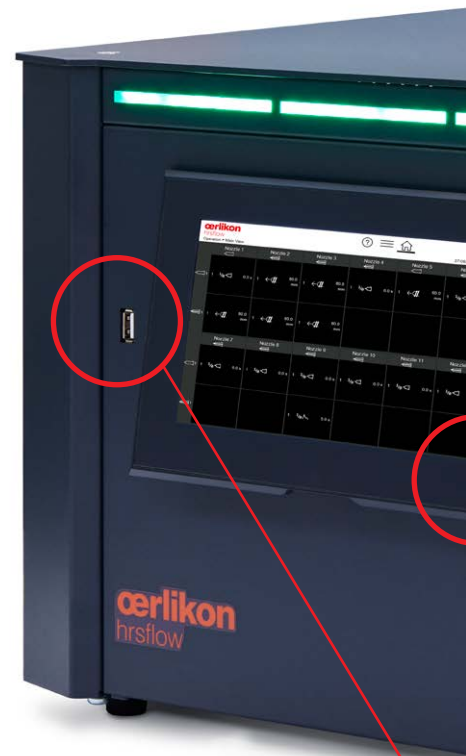
Experience the future of valve gate control with V-Flow HRS—where precision meets perfection.

## Product range:

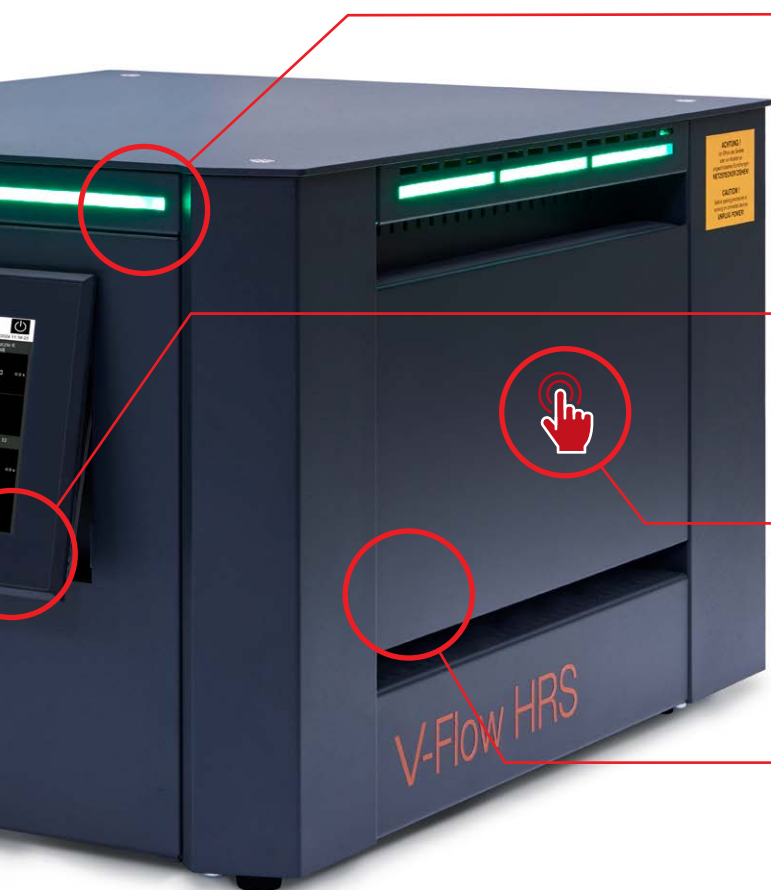
Small version: from 6 up to 12 zones

Medium version: from 18 up to 24 zones

Large version: 30 zones



# Controller Structure: Built to Last with Unparalleled Reliability



## Led stripe

the operational status can be easily identified from a distance according to alarms colour identification.

## Tiltable & Integrated touch display

easy reading from any angle.

## Service Friendly

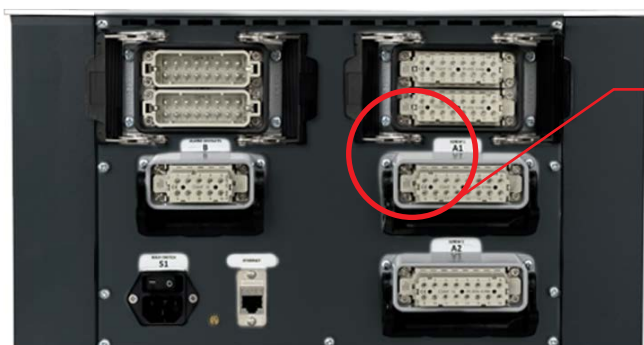
control cards with outputs electronically protected

## Robust metal Housing

solid structure to assure reliable operations.

## USB Port

it simplifies update installation, transfer of recipes and test protocols.



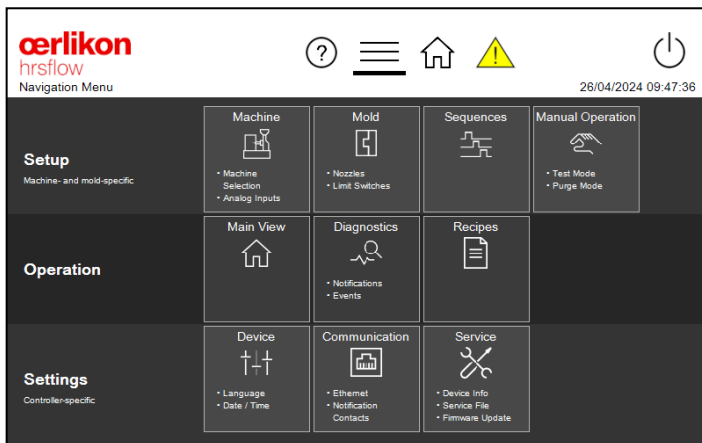
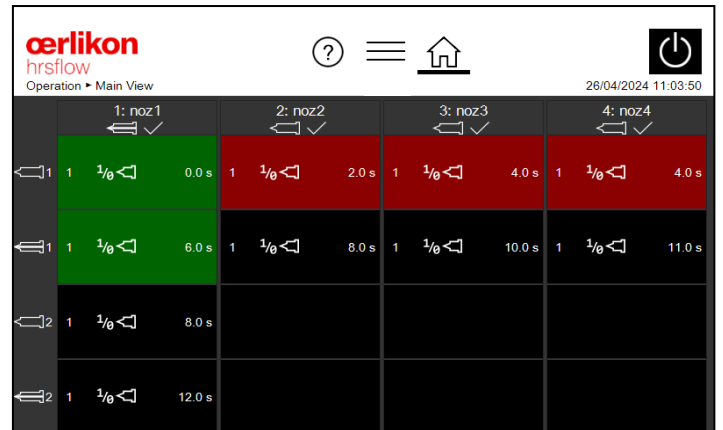
## Flexible connection to the machine

- Valve outputs,
- Signal from injection molding machine Barrel 1 and 2
- Limit switch detection
- Ethernet and VNC
- Safety Contacts

# Streamlined Features: Effortless Simplicity and Intuition

## 1. Intuitive user interface

It allows the controller to be operated without instructions or prior knowledge thanks to the self-explaining icons: the toolbar, buttons and text are clear and visible.

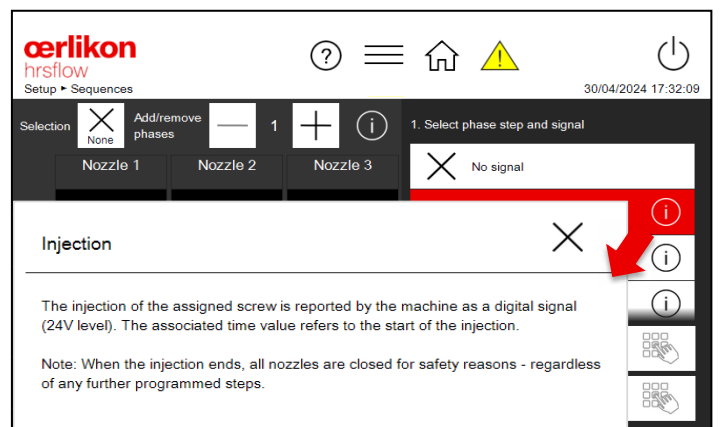


## 2. Smart navigation

All functions, zones and setpoints are well visible on the menu bar and reachable with one click.

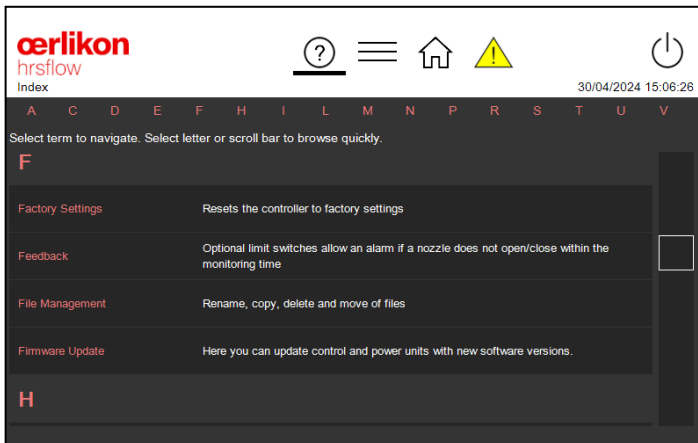
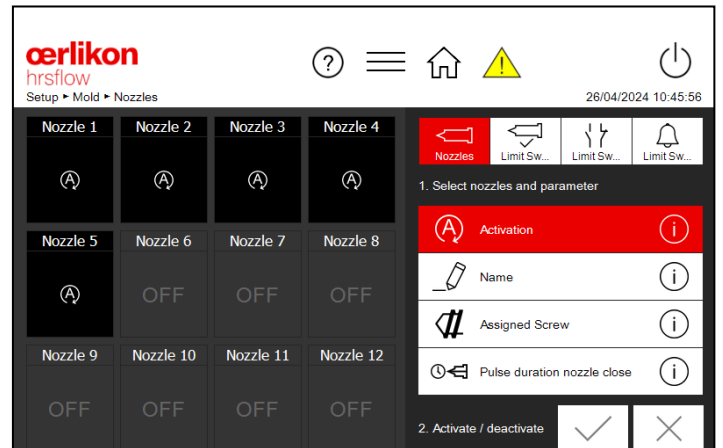
## 3. Explanation at the touch of a button

All the functions and description are available with the touch of a button.



## 4. Guided operation

The controllers guide you step by step (1 > 2...)

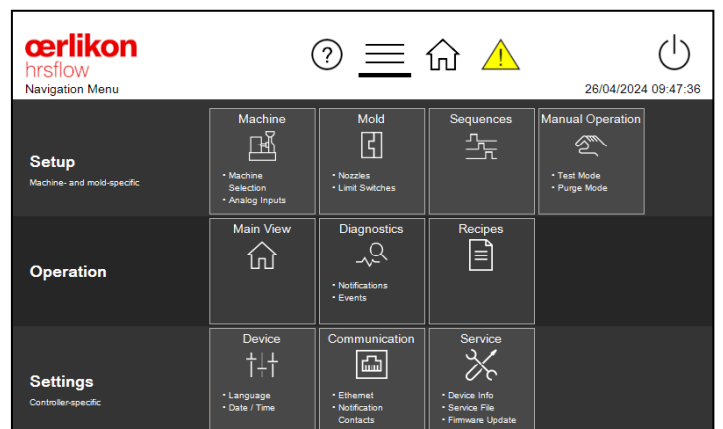


## 5. Keyword Index

List of the available functions. Pressing a function will send the user directly to the desired submenu.






## 6. Quick Set Up

Assisted configuration for Machine, Mold, Sequences.





## 7. Clear display of status

-  Nozzle open
-  Nozzle closed
-  Current status
-  Trigger signal and value
-  All steps of a phase completed

	1: noz1	2: noz2	3: noz3	4: noz4
←1	1 1/2 0.0 s	1 1/2 2.0 s	1 1/2 4.0 s	1 1/2 4.0 s
←1	1 1/2 6.0 s	1 1/2 8.0 s	1 1/2 10.0 s	1 1/2 11.0 s
←2	1 1/2 8.0 s			
←2	1 1/2 12.0 s			

## 8. Easy to use sequence editor

“Graphical and tabular visualization of the sequence:

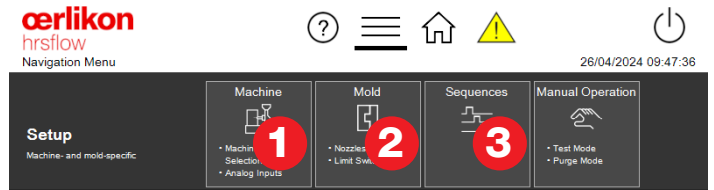
- Select phase quantity
- Select the valve and the desired opening/closing phase
- Select the trigger signal
- Confirm selection and insert the trigger signal value (example: delay, screw position value, etc.)”

## 9. Languages

German, English, Spanish, French, Italian, Czech, Polish, Russian, Japanese, Chinese, Turkish, Portuguese.

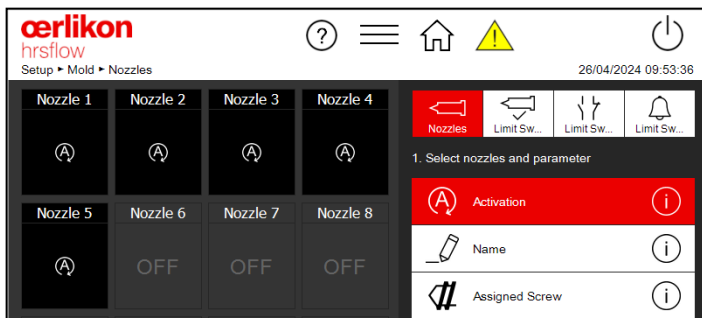
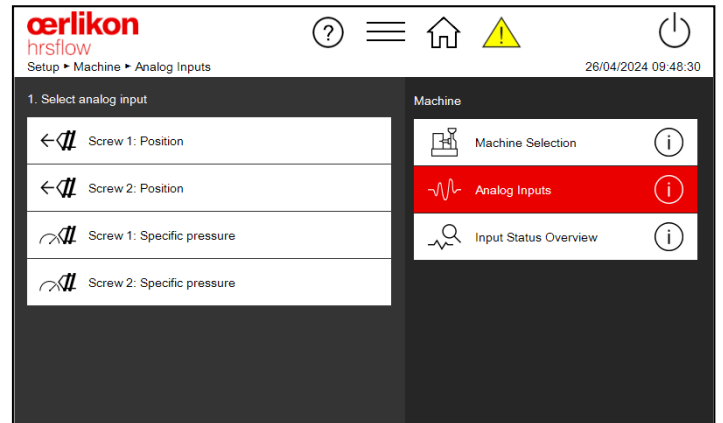
# V-Flow

## Quick Set up



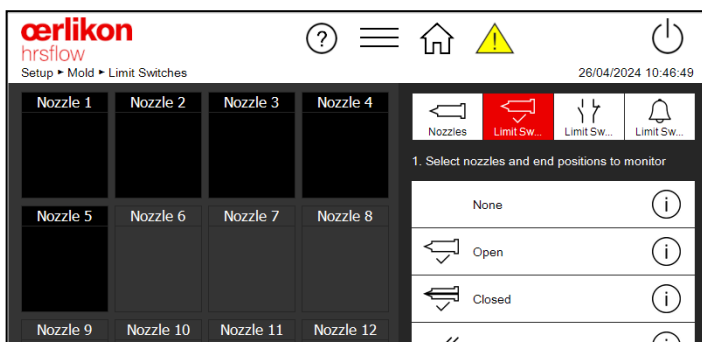
### 1. Machine

Define and configure IMM signals such as injection status, screw position, pressures, etc..



### 2. Mold

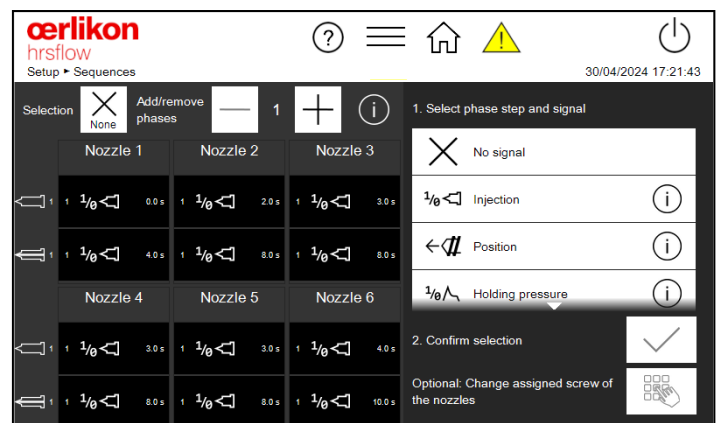
- **Nozzles:** Activate, name, assigned screw
- Configure **limit switches** (if the controller is equipped with the limit switches)



### 3. Edit opening/closing sequences

#### Phase steps:

- Start injection signal
- Screw position
- Switch-over signal
- Polymer volume injected



# Controller Operation Industry 4.0

Operation via injection molding machine



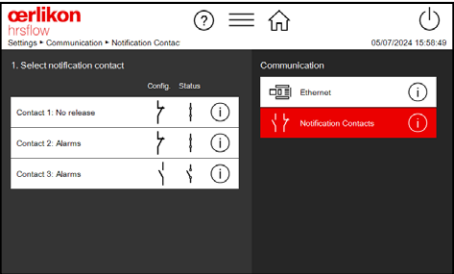
The controllers can be operated via the injection molding machine, that has installed a VNC client, without any restriction.

Operation with notebook/  
tablet

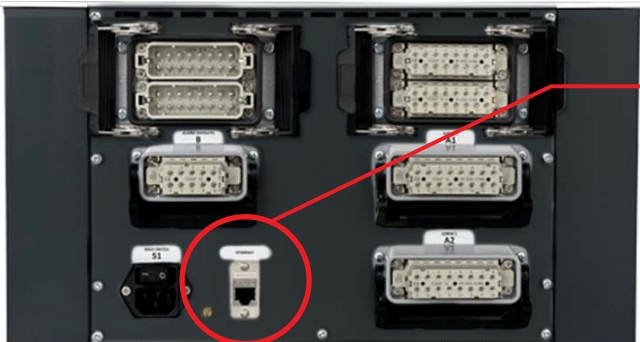


The hot runner controllers have a VNC server. So, they can be operated from an external device such as a notebook or a tablet, just installing a free VNC viewer.

## Control Signals



To ensure safe operation for the user, the V-flow Control Unit needs to be connected to the IMM. The available contacts can be adjusted according to specific requirements.

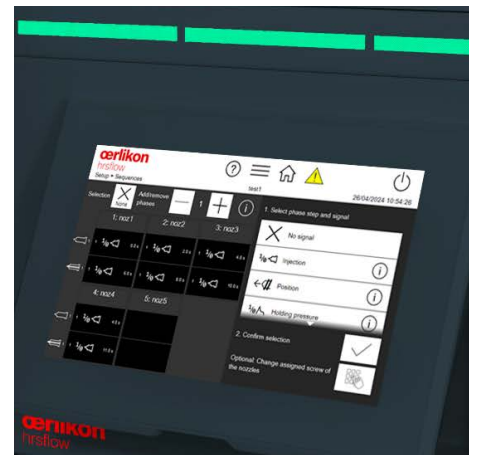


Machine connection  
flexible connection to the machine.



# Functions at a glance: The Essence of Flexibility

- Recipe management
- Manual operation
- User levels with password protection
- Screenshots management
- USB data transfer
- Network drive transfer
- Notifications on warnings and errors
- Events: history of user modifications and errors



# Service and Customer Support for your ultimate satisfaction

Our Customer Support and Service technicians provide the best assistance to ensure customer satisfaction. Fast, experienced and efficient, our team is always available to answer your questions and promptly address any concerns.

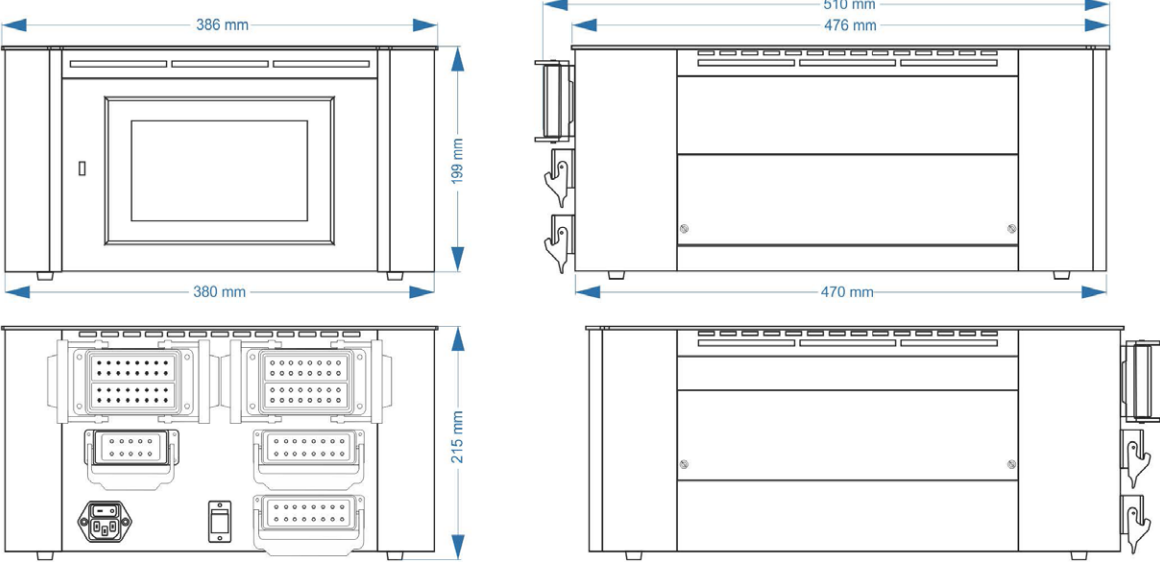
- Qualified Service team will be available for support 24/7
- System integration and control unit best practices
- 2 years of warranty to customers from delivery

Our Control Units are also equipped with a Service File feature: the service file contains technical data that provides all the necessary information for error analysis. It is helpful when a malfunction cannot be solved right away and therefore technical support is needed. The file, generated with one click, can then be sent by e-mail to Technical Support, helping to perform an in-depth analysis based on the data.

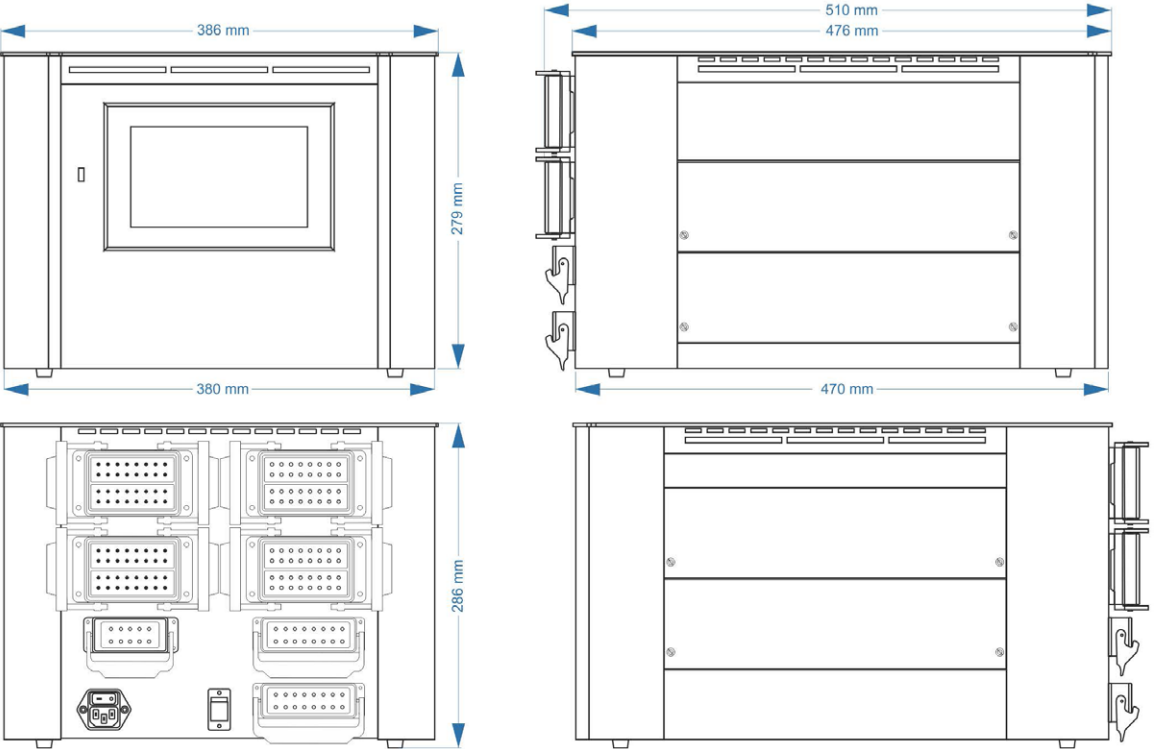


# Sizes

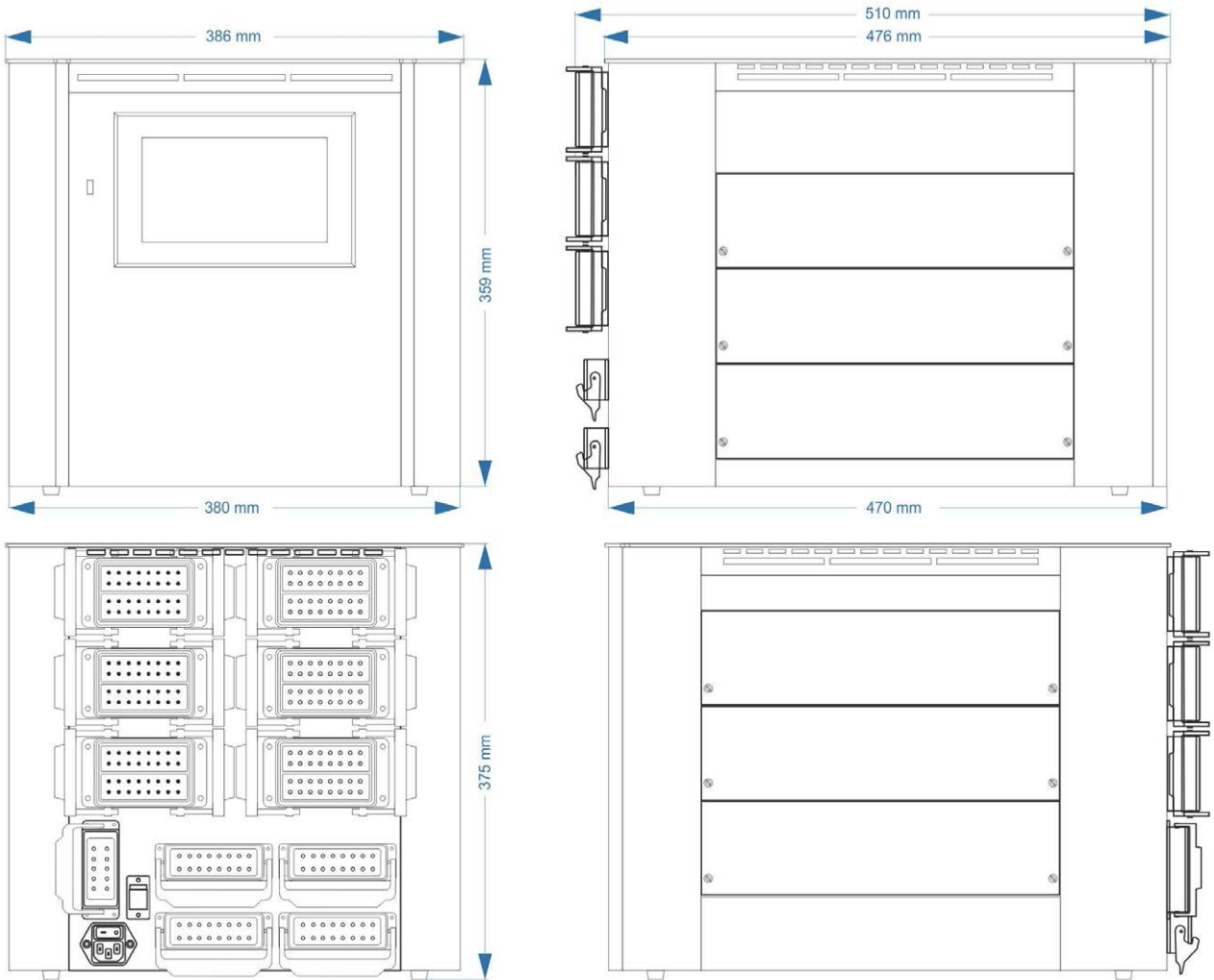
## Tabletop devices 6/12 Zones



## Tabletop devices 18/24 Zones



# Tabletop devices 30 Zones





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