



SERIE DUAL MODULAR SYSTEM THERMOCONTROLLER




MADE IN ITALY



NEWS 2023

A LOOK INTO THE NEAR FUTURE

The Research and Development departments are working to complete by the end of the year, the process of adapting technologies to the dictates and canons of **Industry 4.0**. The interface, which is now being developed, has been specially designed for retroactive connection to the Dual and TLC Series control units in order to guarantee connectivity and performance at a later date. Both series are prepared for network interconnection to factory lines.



DUAL SERIES MODULAR SYSTEM THERMOCONTROLLER

The modular system of the **DUAL SERIES** is designed to reduce the footprint while maintaining the core concept of modularity.

Modularity reduces warehouse spare parts costs and reduces downtime to zero.

The term "Dual" indicates 2 completely autonomous and independent zones, both carrying up to 3500 watts.

The Dual series has made it possible to raise the technological content, improving temperature control and diagnostics.

Today, the management of multi-pressure moulds is made simpler and faster thanks to the "copy" button which allows, with the same manoeuvres and time as with a computerised system, to switch off/on and change the set point simultaneously on all zones.

The **DUAL SERIES** control unit can be networked thanks to an interface and using the "**Data Log**" software.

The Data Log Software is able to monitor and record sensitive technical mould data.



DUAL 48 to 120 zones wheeled

DUAL 24 zones

DUAL 36 zones

DUAL 12 zones

DUAL 12 zones Compact

DUAL 8 zones

DUAL 4 zones

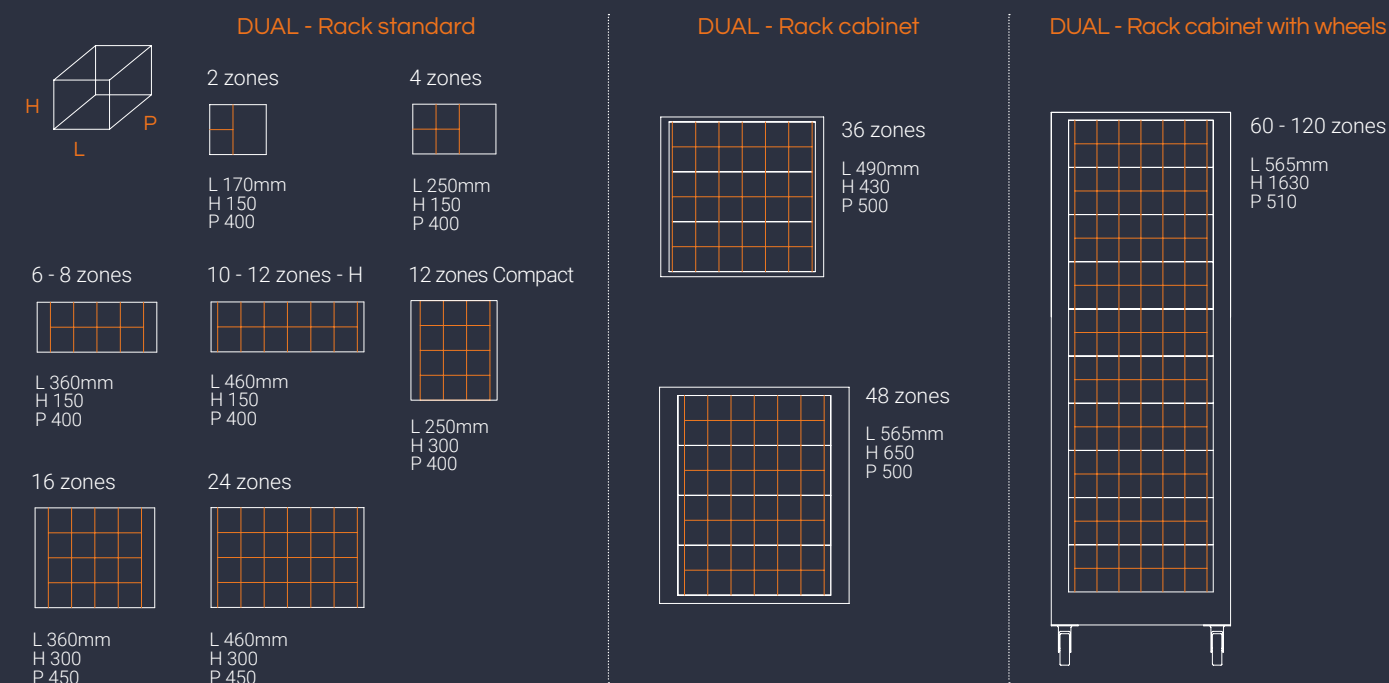
DUAL 2 zones

BENEFITS

- ▶ Copy button for quick settings and boost and stand-by functions on all zones
- ▶ Automatic separation into 2 working groups with LED signalling
- ▶ Direct display of groups with editing possibilities
- ▶ Power circuit opening safety relay per zone
- ▶ Load current reading per zone
- ▶ Percentage reading of instantaneous power output per zone
- ▶ Reading of instantaneous consumption power (KW) delivered per zone
- ▶ Storage of the percentage value of the power supplied at steady state until a new thermoregulation is performed
- ▶ STF= Signalling LED for temporary functions Bost, Stand-By
- ▶ PID parameter self-learning system
- ▶ HBD= Indication of load condition through current reading with temperature reference
- ▶ Paired zone function Master (leader zone) / slave (paired zone)
- ▶ Front pull-out

TECHNICAL CHARACTERISTICS

- ▶ Microprocessor operation
- ▶ Iron-constantana thermocouple (J) protected input
- ▶ Setting range 0-999°C
- ▶ Cold junction compensation
- ▶ Display of temperature, parameters and functions via dual 6-digit displays
- ▶ Data setting with membrane keyboard
- ▶ Automatic/manual operation
- ▶ Static output with ZERO-CROSSING switching system
- ▶ Maximum power 3500W per zone
- ▶ Extra-rapid protection fuse FF 16 A per zone
- ▶ Management of max and min temperature and limit temperature alarms
- ▶ 100 °C pre-heating function with LED signalling
- ▶ Alarm and diagnostic display





LEMAC S.R.L.
Via Copenhagen 34, 20831 Seregno MB - Italy
+39 0362 827120



info@lemacsrl.it
Technical Manager: benedos.marco@lemacsrl.it
commerciale@lemacsrl.it
www.lemacsrl.it