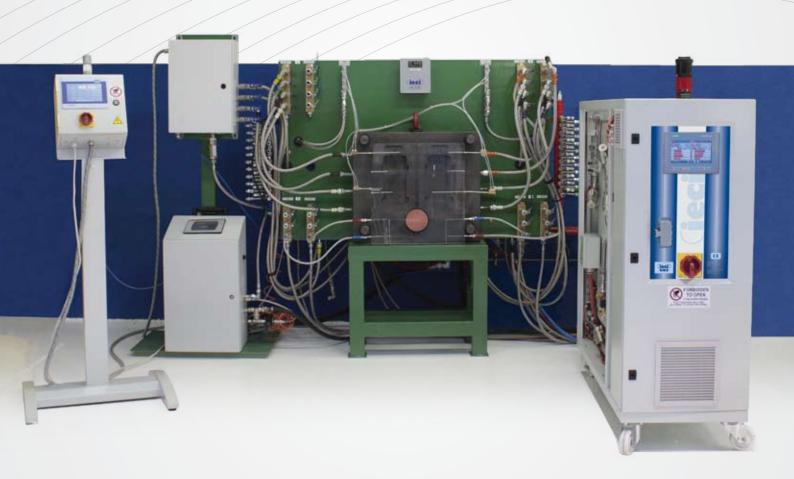




## DIE TEMPERATURE CONTROLLERS TEMPERATURE CONTROLLERS MANAGEMENT & ENHANCEMENT

# NEW

# PIONEER 3



Peculiar characteristics of this innovative system are:

- Simplicity. This system is conceived to work by very simple control operations.
- Robustness. Long lasting life and resistance to prolonged work time in demanding conditions.
- Limited encumbrance. Filling streams to the mould grouped by 4 from one sole source.
- High flexibility in positioning the TCUs on the cell perimeter, by an ease and quick installation.



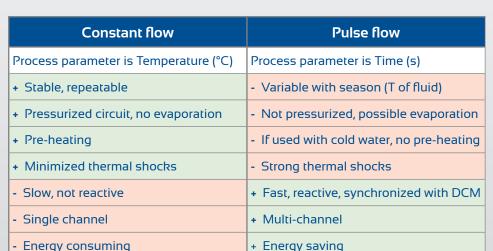


DIE TEMPERATURE CONTROLLERS
TEMPERATURE CONTROLLERS MANAGEMENT & ENHANCEMENT

### PIONEER 3

#### Temperature controllers management & enhancement

Comparison between Constant flow TCUs and Pulse Flow TCUs:





The Channel Multiplier PIONEER III combines the advantages of both technologies:

IECI	PION	JEER III	

Process parameter: Temperature (°C) for gross tuning, Time (s) for fine tuning

- + Stable, repeatable since T is controlled
- + Pressurized circuit, no evaporation
- + Pre-heating
- + Minimized thermal shocks
- + Fast, reactive, synchronized with DCM
- + Multi-channel
- Energy saving

#### CHANNELS MULTIPLIER - MODULAR SYSTEM FOR 4 - 8 - 12 CHANNELS

Pioneer 3 is an innovative system to control different channels independently. Combined with a pressurized water TCU, it allows to differentiate the thermoregulation on each channel. The system measures the return temperature of each channel and controls the flow by means of pneumatic valves. Flow metering is also possible for each channel. The version Pioneer 3/PWM controls the flow through ON/OFF pneumatic valves, while in the version Pioneer 3/PROP, the flow is controlled by proportional valves. The system works with pressurized water up to a temperature of 180°C (356°F).

Pioneer 3 is a modular system with 4, 8 and 12 channels. Combination of more Pioneer 3 systems extend the number of channels to a maximum of 96 channels, all of them controlled by the same main panel.

#### **Technical features:**

- Including 4-8-12 pneumatic valves for high temperature, threaded fittings;
- ON/OFF or proportional control system;
- Chassis 2mm epossidic painted;
- Size 20x50x60 cm,
- Weight 30 Kg.



#### **GENERAL CONTROL PANEL**

This main control panel may manage 10 (ten) groups of 4-8-12 channels each, up to a max of 96 channels. The system is managed by IECI TD700 PLC + HMI, perfectly fitting each protocol of connection of any kind of DCM. On demand, the entire electronic configuration can be supplied with Siemens PLC + HMI. Thermoregulation software PIONEER 3.



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