

GREENCASTING by GEFOND

The new frontier
of thermoregulation



GEFOND

FOR A LONG LIFE INDUSTRY

Greencasting: energy saving and process optimisation

GreenCasting temperature control units represent:



Sustainability - thanks to patented energy saving technology that saves up to 80% of electricity compared to conventional control units.



Digitalisation - thanks to the possibility of integrating Perpetuo, the first software for predictive maintenance in foundries.

Minimum energy consumption
less than 2.35kW of consumption in the cooling phase

High temperature
operating temperature up to 180°C

Multi-circuit
30 independent mould temperature control zones

Easy configuration and use

Industry 4.0 Predictive maintenance
www.gefond.it/perpetuo



pressurized water at 180°C

PATENTED

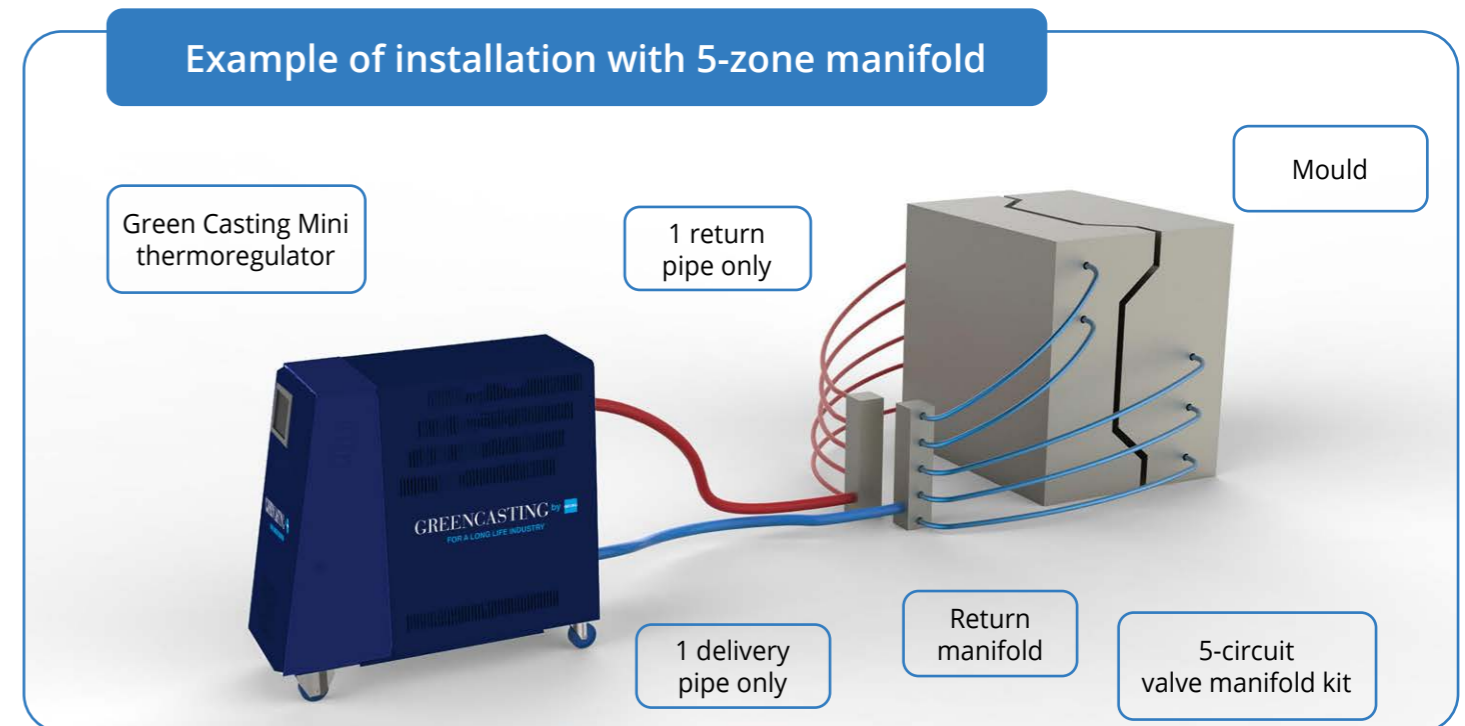
Greencasting is INNOVATION

- Innovative cooling system
- Highest operating flexibility
- Multichannel with 1 pump
- Extremely easy to install
- Maximum working temperature 180°C
- Immediate switching of heating/cooling phases
- Flow tests

Greencasting is SAVING

- Lowest power consumption
- Fewer control units for cell
- Minimum air consumption
- Minimal heat dispersion
- Connection pipes reduced to a minimum
- No compressed air in the pipes

Example of installation with 5-zone manifold



Technical data

Model		Gc Mini	TG1 400	TG1 600
Fluid		Pressurized tap water		
Maximum temperature	°C	180	180	180
Heating power	kW	18	36	54
Cooling power	kW	70	105	105
Pump power	kW	2,2	2,2	2,2
Maximum pump flow rate	l/min	90	200	200
Maximum pump pressure	bar	8	3,8	3,8
Dimensions (LxPxH)	mm	400x920x890	660x1110x1470	660x1110x1470
Empty weight	kg	110	240	240

The future of die casting

HPDC manufactures multi-circuit water cooling and temperature control systems for industrial applications. Based on Greenbox technology, HPDC by Gefond, develops a **complete line of machines dedicated to light alloy foundries.**

HPDC by Gefond offers innovative and reliable, sustainable and integrated 4.0 solutions for the die-casting, low pressure and gravity industries. Greencasting is the ideal technology to be **combined with minimal lubrication and the production of structural castings.**



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