

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

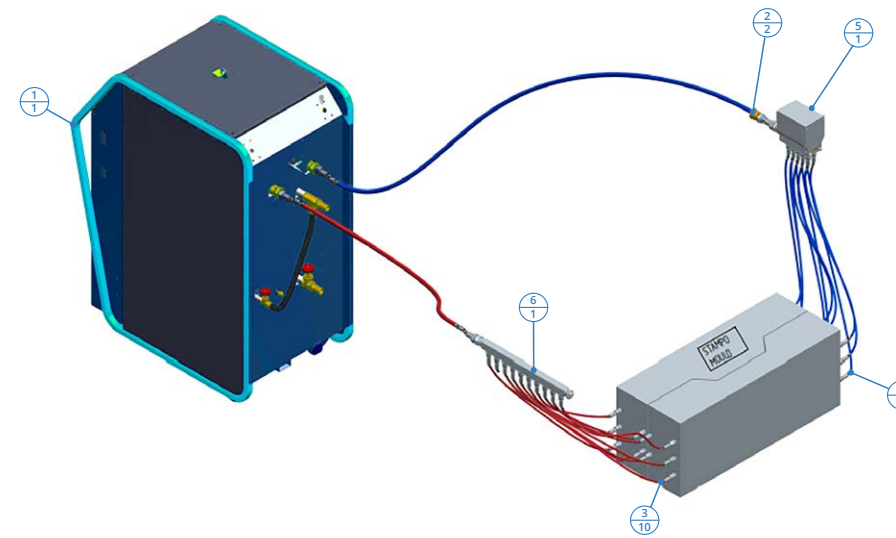
**Multi-circuit**  
30 independent mould temperature control zones

**Easy configuration and use**

**Industry 4.0 Predictive maintenance**  
[www.gefond.it/perpetuo](http://www.gefond.it/perpetuo)

**PATENTED**

**pressurized water 180°C**



N°	TG1 GC 400-600	Q.tà
1	GREENCASTING TG1	1
2	PIPE PTFE MAGL. 1" 200" 5 M T916H00016	2
3	PIPE PTFE MAG. 3/8" OR 1/2" 200" 1.5M	10
4	PIPE PTFE MAG. 3/8" OR 1/2" 200" 2.5M	10
5	KIT MANIFOLD 10 WAYS	1
6	MANIFOLD ON RETURN 10 WAYS	1

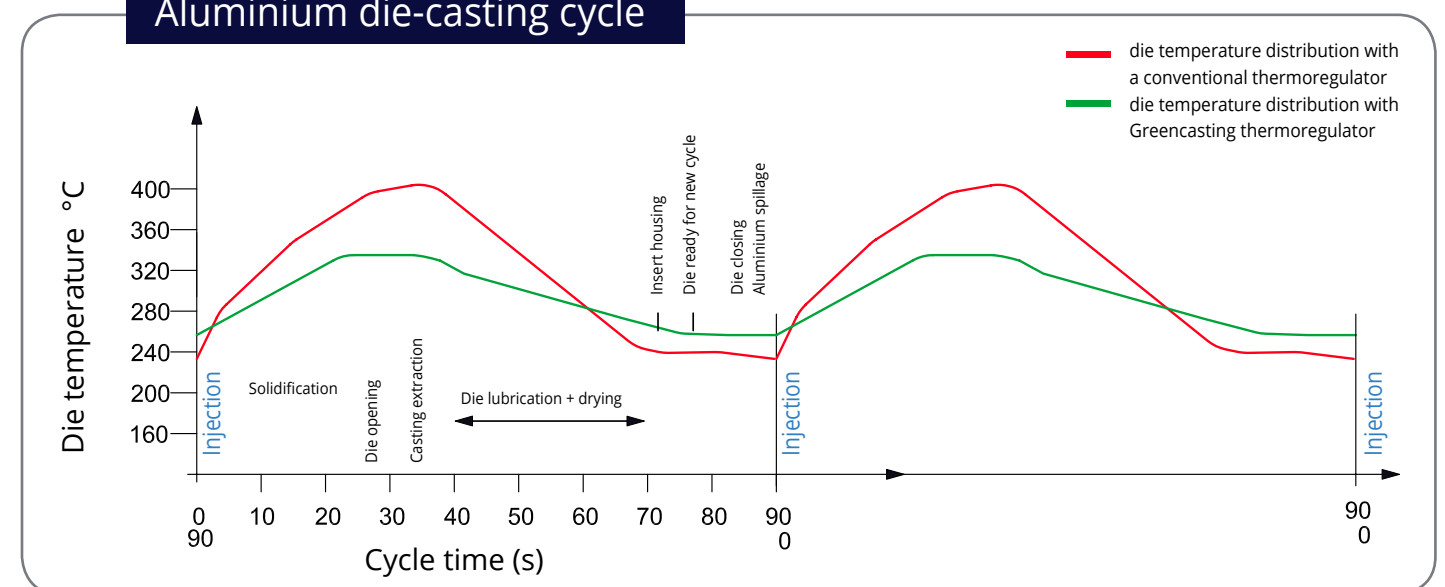
## Greencasting is INNOVATION

- 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

## Aluminium die-casting cycle



## 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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