



## Technical specifications

Model	u.m.	TG1-250 GC	TG1-400 GC	TG1-500 GC	TG1-750 GC
Medium		pressurized water			
Max temperature	°C	180	180	180	180
Heating power kW	kW	24	36	48	72
Number of heaters	N.	2	3	4	6
Cooling capacity*	kW	105	105	105	105
Pump power	kW	2,2	2,2	2,2	2,2**
Max pump flow	l/min	200	200	200	200**
Max pump pressure	bar	3,8	3,8	3,8	3,8
Dimensions (LxWxH)	mm	660x1110x1470	660x1110x1470	760x1110x1470	760x1110x1470
Weight	kg	240	240	240	330

## Options

- 10 way remote distribution manifold
- 20 way remote distribution manifold
- 10/20 temperature probes in the return manifold
- 10/20 pressure sensors in the return manifold
- \*Cooling larger capacities
- \*\*Pumps larger pumps
- High temperature flexible hoses

## Additional components on request

- Stainless steel cooling tanks with dimensions from mm 1000x1250x880 to 1500x2000x1000. Different dimensions on request
- Robot for automatic readings of the die temperatures



## Greencasting





# Greencasting temperature controllers

**Pressurized water at 180°C**

## The future of die-casting is now

The new range of innovatory temperature control units of the Greencasting series gives Green Box a leading role in the world of the aluminium die-casting.

The complete control of the temperature of the die-casting moulds is granted by the innovative design of the new Greencasting series.

The completely new cooling system (**patented**) reduces to minimum the electrical energy consumption.

The process is completely controlled by a PLC.

### Minimum electrical consumption

Less than 2.35 kW of electrical energy in the cooling phase

### High temperature

Operating temperature up to 180°C

### Multizone unit

10/20 independent zones of control of the mould temperatures

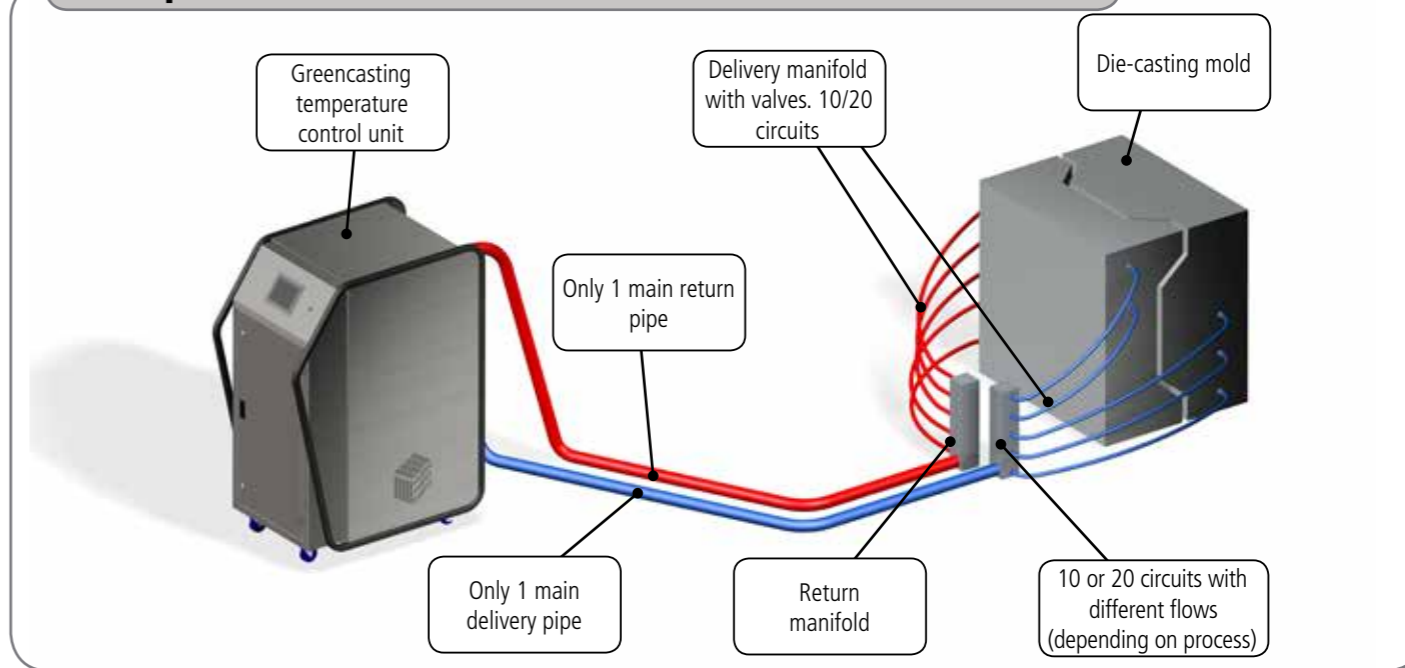
### City water

Softened water can be used, but also city water

### Stainless steel cabinet



## Example of installation of 10/20 zones distribution manifolds



## Greencasting is innovation

- Innovative cooling system
- Extremely high operation flexibility
- Simple installation
- 180°C max operating temperature
- Immediate commutation between heating and cooling phase and viceversa
- The lowest electrical energy consumption

## Greencasting is savings

- Softened water can be used, but also city water
- Negligible use of compressed air
- Minimum thermal losses
- Minimum number of temperature control units per casting machine
- Minimum quantity of connecting hoses
- No compressed air in the piping system

## Cycle time of an aluminium casting mould

