



## 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

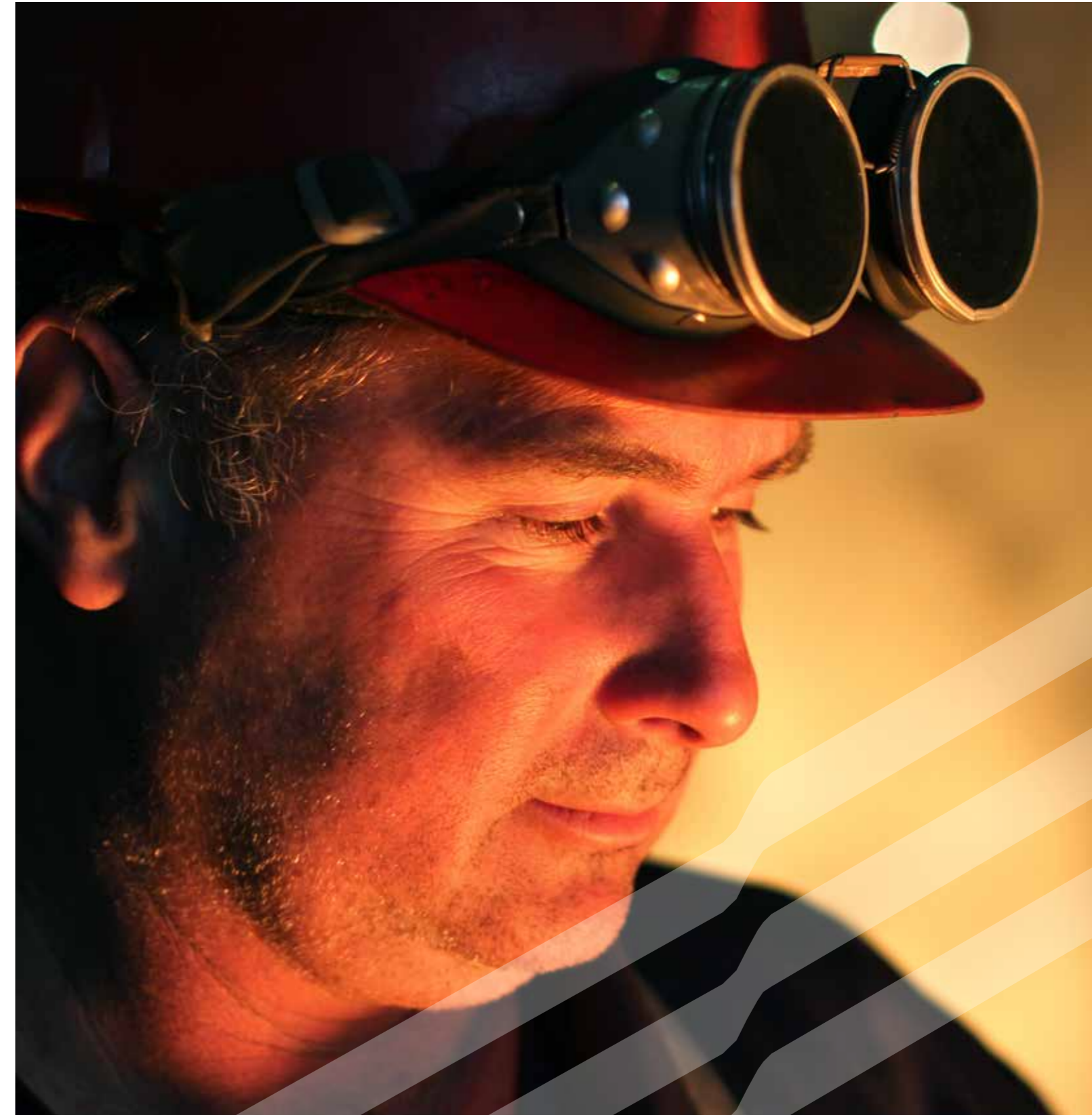
## Options

- 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 (patent pending) 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

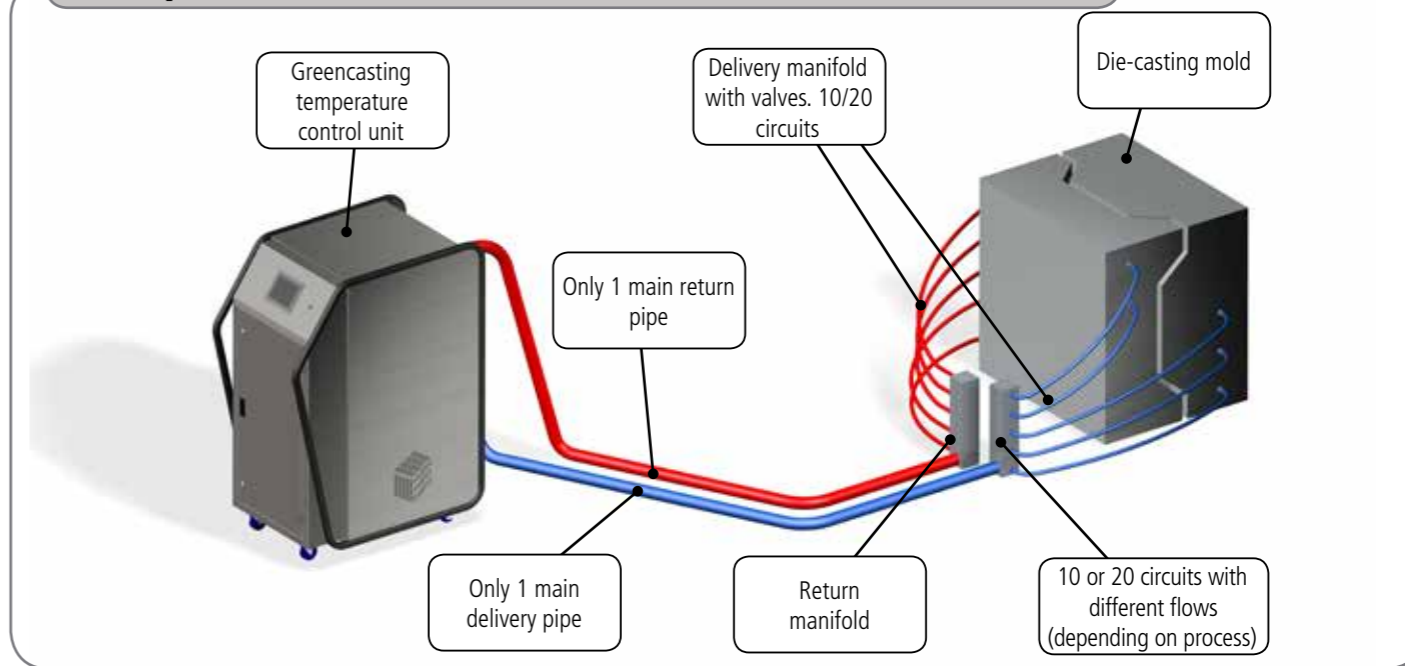
### City water

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

