



Climatic thermo-unit control for heating systems, active management of heating generators cascade and direct control of one stage, two stage and modulating burners.

Every single unit control THETA+ can manage a heating system with:

- 2 Low temperature mixed zones
- 1 High temperature direct zone
- 1 Hot domestic water tank
- Thermal solar system or biomass generator or multi-energy puffer, via two variable output
- Cascade of heating generators up to 8 units.

The unit control THETA+ is supplied complete as standard with:

- Connection terminal block
- 1 External probe
- 1 Immersion probe (2 meters)
- 1 Immersion probe (5 meters)
- 2 Contact probes (4 meters)

The thermoregulation system, in addition to the unit control THETA+, is accompanied with other accessories to complete the heating system control:

### Room unit RS-L

- Manages temperature of dedicated zone
- It can manage from remote system setting
- Two-wire bus

### Room sensor RFF

- Manages room temperature
- Two-wire bus

### Installation wall kit WG 500

- On/Off switch
- Totally wired
- 6,3 A safety fuse

### Kit cascade management ZM KM-OT

- Install one kit ZM KM-OT in each boiler of the cascade
- Up to 8 boiler in cascade

For the heating system with more three zones, is possible to make a cascade of THETA+ unit control (max 5 units). THETA+ system can manages directly a one-stage, two stage or modulating burner.



## > THETA+ SYSTEM COMPONENTS

| DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                     | CODE     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|  <b>THETA+ SET</b><br>Central unit control for the thermoregulation of the heating system and cascade manager.<br>Supplied as standard complete of:<br>- Connection terminal block<br>- 1 External probe<br>- 1 Immersion probe (2 meters)<br>- 1 Immersion probe (5 meters)<br>- 2 Contact probes (4 meters) | 013060X0 |
|  <b>THETA+ RS-L</b><br>Room unit per temperature control and parameters setting, from remote, of the heating system                                                                                                                                                                                          | 013061X0 |
|  <b>THETA RFF</b><br>Room sensor                                                                                                                                                                                                                                                                             | 013062X0 |
|  <b>WG 500</b><br>Kit for wall installation                                                                                                                                                                                                                                                                  | 013064X0 |

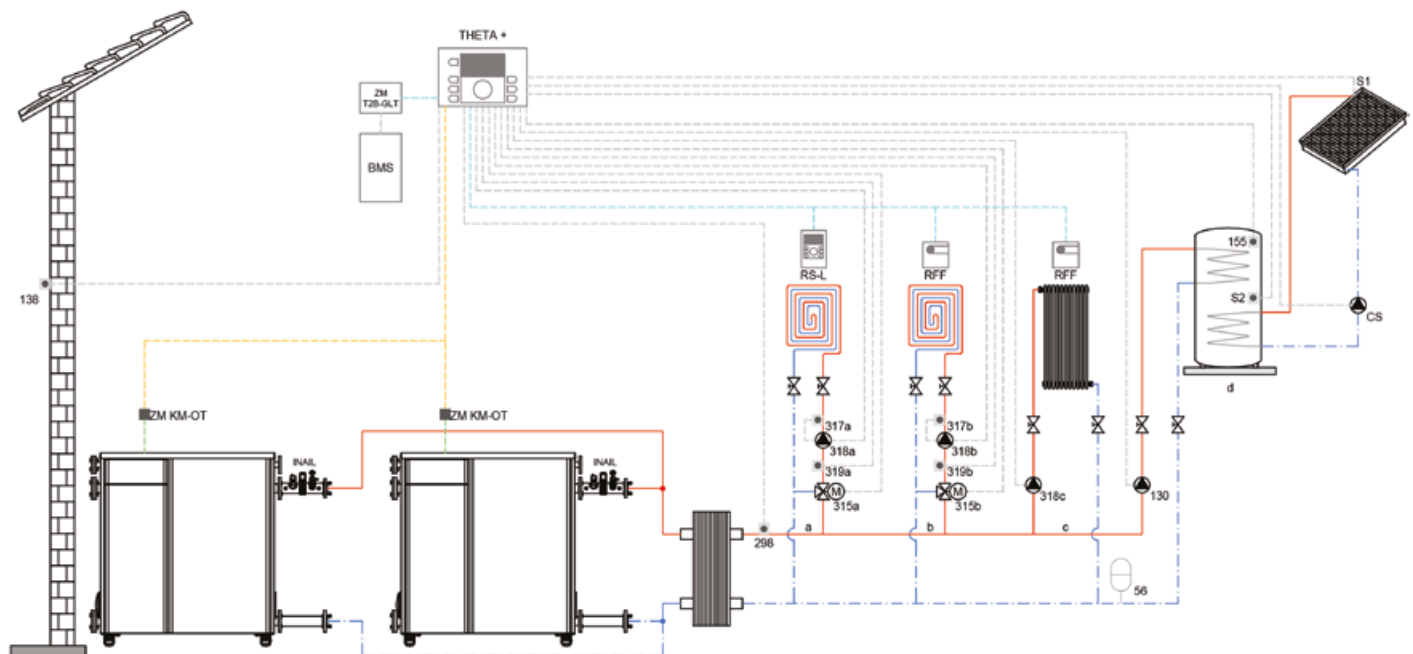
| DESCRIPTION                                                                                                                                                  | CODE     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|  <b>THETA ZM KM-OT</b><br>Kit for boiler cascade management via Opentherm | 013063X0 |
|  <b>TF A20-50-03</b><br>Immersion probe (DHW tank)<br>5 meters            | 013065X0 |
|  <b>VF 204 B</b><br>Contact probe (Mixed zone)<br>4 meters                | 013066X0 |
|  <b>PT 1000</b><br>Immersion probe (Solar thermal)<br>2,5 meters          | 043007X0 |
|  <b>AF 200</b><br>External probe                                          | 013068X0 |

### THETA+ SYSTEM APPLICATION EXAMPLE OF DIAGRAM

The first ring was designed with a cascade of two MACH controlled by a central unit THETA+ via Open Therm (1 ZM KM-OT for each boiler of cascade). The central unit can manage up to 8 boilers in cascade. For installation with more of 8 boilers will have to install two or more THETA+ (max 5).

The second ring consist in three heating circuits (two mixed at low temperature and one direct at high temperature), a storage with double exchanger for the DHW and a thermal solar system.

The central unit THETA+ in combination with room units/sensors can manage each component of the heating system included the thermal solar system. In case of heating system with several zones and systems is possible manage all with a cascade of THETA+ (max 5), up to 10 mixed zones and 5 direct zones. The heating zone can be managed by three remote room unit (RS-L) or by three room sensors (RFF) or a mix of the two.



**THETA+** Central unit control for the thermoregulation and cascade manager **ZM KM-OT** Accessories for the cascade management via Open-Therm **RS-L** Remote room unit **RFF** Room sensor **ZM T2B-GLT** Interface for Building Management System (BMS) **BMS** Building Management System **S1** Flow probe for solar system (PT 1000) **S2** Temperature probe for DHW tank (supplied as standard with THETA+) **155** Temperature probe for DHW tank (supplied as standard with THETA+) **130** DHW circulator **CS** Solar system circulator **a** Low temperature mixed zone **b** Low temperature mixed zone **c** High temperature direct zone **d** DHW circuit with tank, double exchanger type **315 a/b** Motorized mixing valve **318 a/b/c** Heating system circulator **317 a/b** Safety thermostat **319 a/b** Flow probe for mixed zone (supplied as standard with THETA+) **298** Probe for flow heating system collector (supplied as standard with THETA+) **138** External sensor (supplied as standard with THETA+) \* - - - ZM KM-OT \* - - - RS-L/RFF/ZM T2B-GLT \* - - - OpenTherm