





## THETA\* system components

	0-4-	Description
	Code	Description
	013060X0	THETA* Set Central unit control for the thermoregolation of the heating system and cascade manager.  Supplied as standard complete of:  - Connection terminal block - 1 External probe - 1 Immersion probe (2 meters) - 1 Immersion probe (5 meters) - 2 Contact probes (4 meters)
2	013061X0	THETA* RS-L Room unit per temperature control and parameters setting, from remote, of the heating system
() #	013062X0	THETA RFF Room sensor
	013064X0	WG 500 Kit for wall installation
	013063X0	<b>THETA ZM KM-OT</b> Kit for boiler cascade management via Opentherm
0	013065X0	<b>TF A20-50-03</b> Immersion probe (DHW tank) 5 meters
0	013066X0	VF 204 B Contact probe (Mixed zone) 4 meters
0	043007X0	<b>PT 1000</b> Immersion probe (Solar thermal) 2,5 meters
90	013068X0	AF 200 External probe

# Theta+

# Thermo-control for heating system and cascade manager

- 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 multy-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

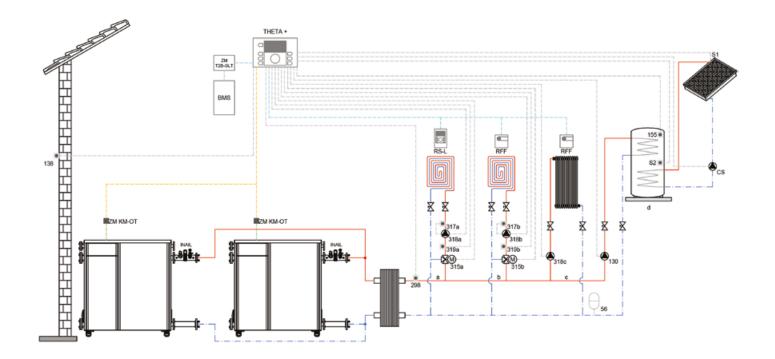
### - Kit cascade management ZM KM-OT

- 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 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\*) 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 standar