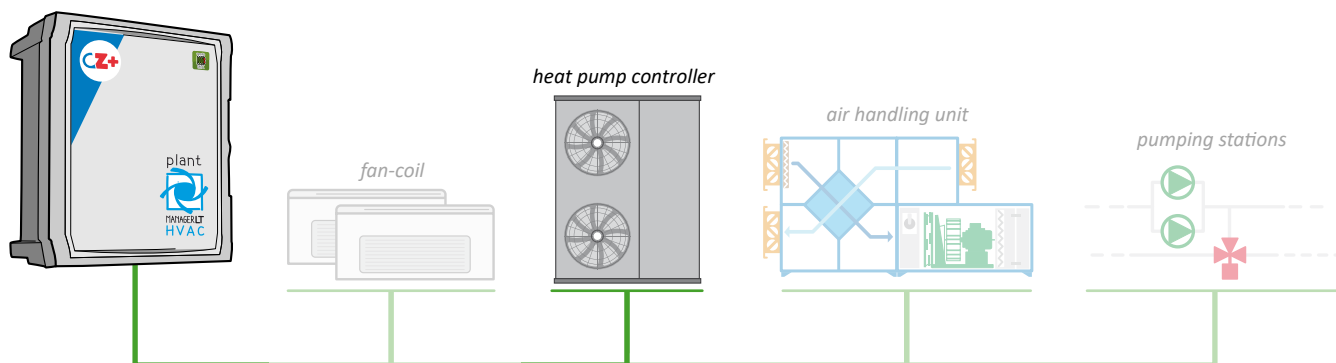




# HEAT PUMP acquirer

State/alarm acquisition and control for heat pumps

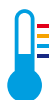


Control unit for **cumulative alarm acquisition**, also **on/off and mode change** (heating/cooling) commands to heat pumps.

It also allows the acquisition of delivery and return temperatures to the users.

**Up to 2 heat pumps** can be managed for each control unit.

Available in **stand-alone** version or on **electrical box** equipped with electrical protections and decoupling relays.



## FLUID TEMPERATURES

Temperature acquisition FROM and TO UTILITIES generated by heat pumps, using NTC type transducers



## ALARMS

Acquisition of heat pump alarm status via digital input (clean contact)



## SET-POINT

Signal generation 0..10V for modulation of heat pump operation (if provided by heat pump)



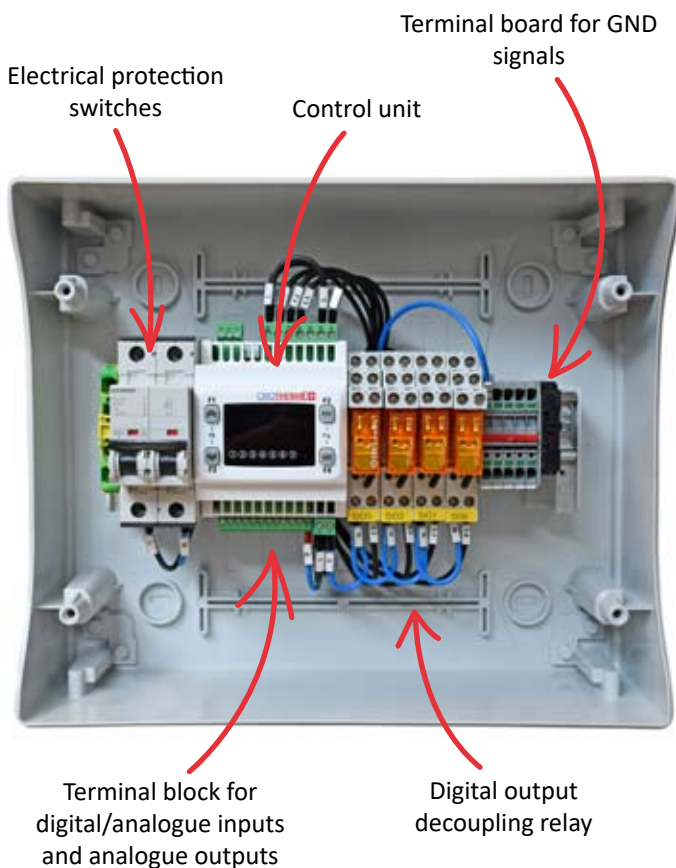
## ON-OFF

Relay digital output management for heat pump on/off control



## SEASON CHANGE

Relay digital output management for operating mode change (SUMMER / WINTER)



### ANALOGUE INPUTS

AI1	Heat pump 1 temperature IN
AI2	Heat pump 2 temperature OUT
AI3	Heat pump 1 temperature IN
AI4	Heat pump 2 temperature OUT

### ANALOGUE OUTPUTS

AO3	Heat pump 1 Set-point
AO4	Heat pump 2 Set-point
AO5	-

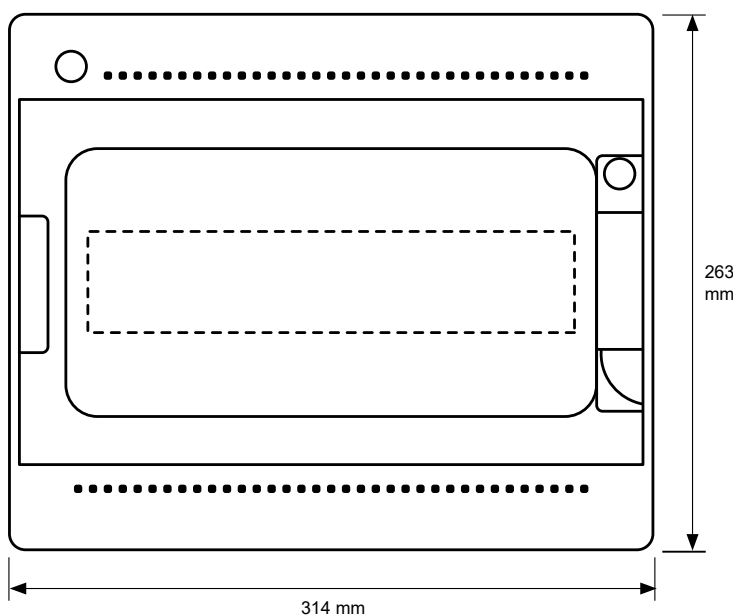
### DIGITAL INPUTS

DI1	Heat pump 1 alarm
DI2	Heat pump 2 alarm

### DIGITAL OUTPUTS

DO1	Heat pump 1 On/Off
DO2	Heat pump 1 summer/winter
DO3	Heat pump 2 On/Off
DO6	Heat pump 2 summer/winter

## DIMENSIONS



### Notes:

- 230 Vac electrical unit/box power supply
- Analogue inputs of NTC type
- Dry contact type digital inputs
- Analog outputs 0..10 V
- RS485 serial connection (MODBUS RTU protocol)