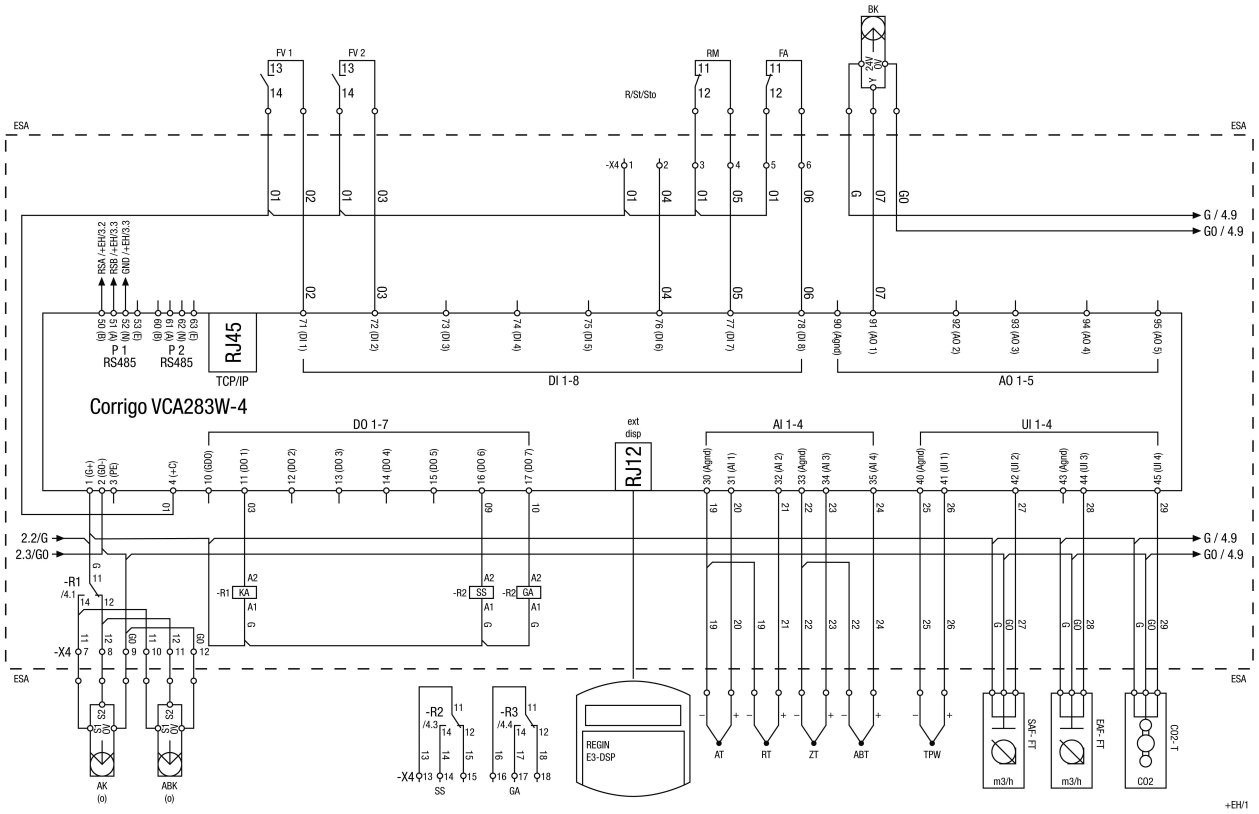
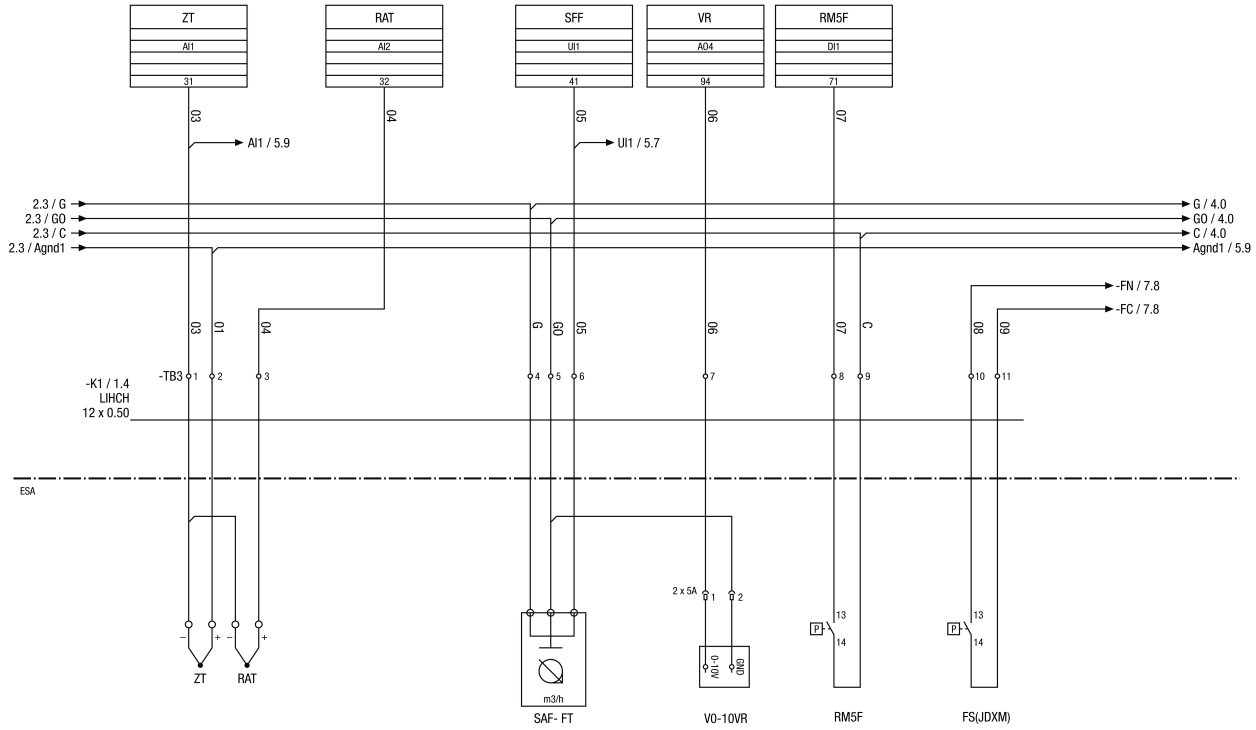
WIRING DIAGRAM

RLT FLAT 1200 M4012H R Mode 4



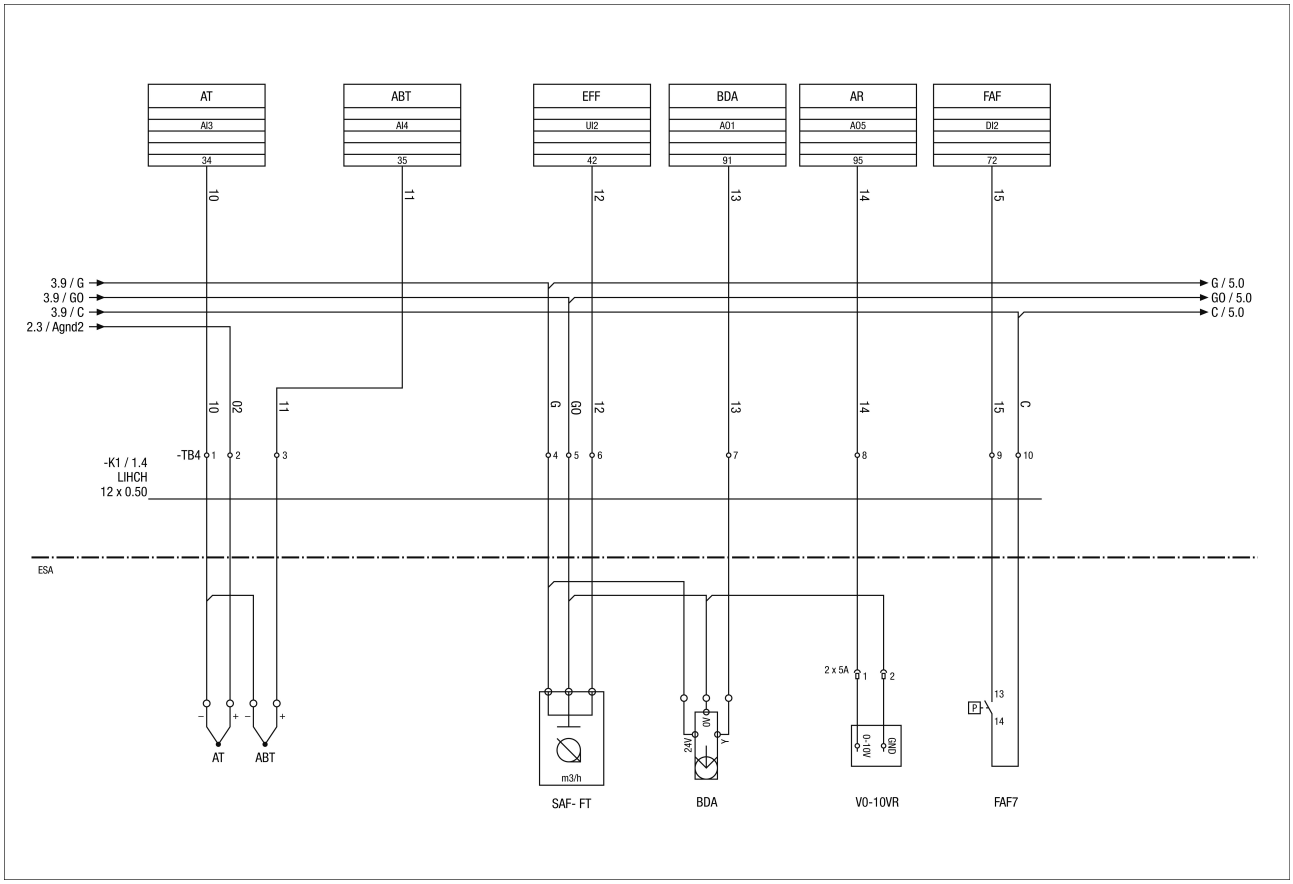
ESA – Outside switchboard
FV 1 – Filter 1 dirty
FV 2 – Filter 2 dirty
R/St/Sto – Remote control/Start/Stop
RM – Smoke detector
FA – Fire alarm
BK – Bypass shutter
ext – External
disp – Display
KA – Shutter drives
SS – System status
GA – General alarm
AK – External shutter
o – Optional
ABK – Exhaust air shutter
AT – Outside air temperature
RT – Exhaust air temperature
ZT – Supply air temperature
ABT – Outgoing air temperature
TPW – Temperature of the plate heat exchanger
FT – Flow Measuring Transducer
T – Sensor
P1 – Connection 1
P2 – Connection 2

RLT FLAT 1200 M4012H R Mode 4



Sensor circuit diagram – main unit
ZT - AI1 - Supply air temperature
RAT - AI2 - Exhaust air temperature
SFF - UI1 - Supply air fan volumetric flow
VR 0-10V R - AO4 - Fan 0-10V reference
RM5F - DI1 - Exhaust air filter M5
FS (JDXM) - Fan status

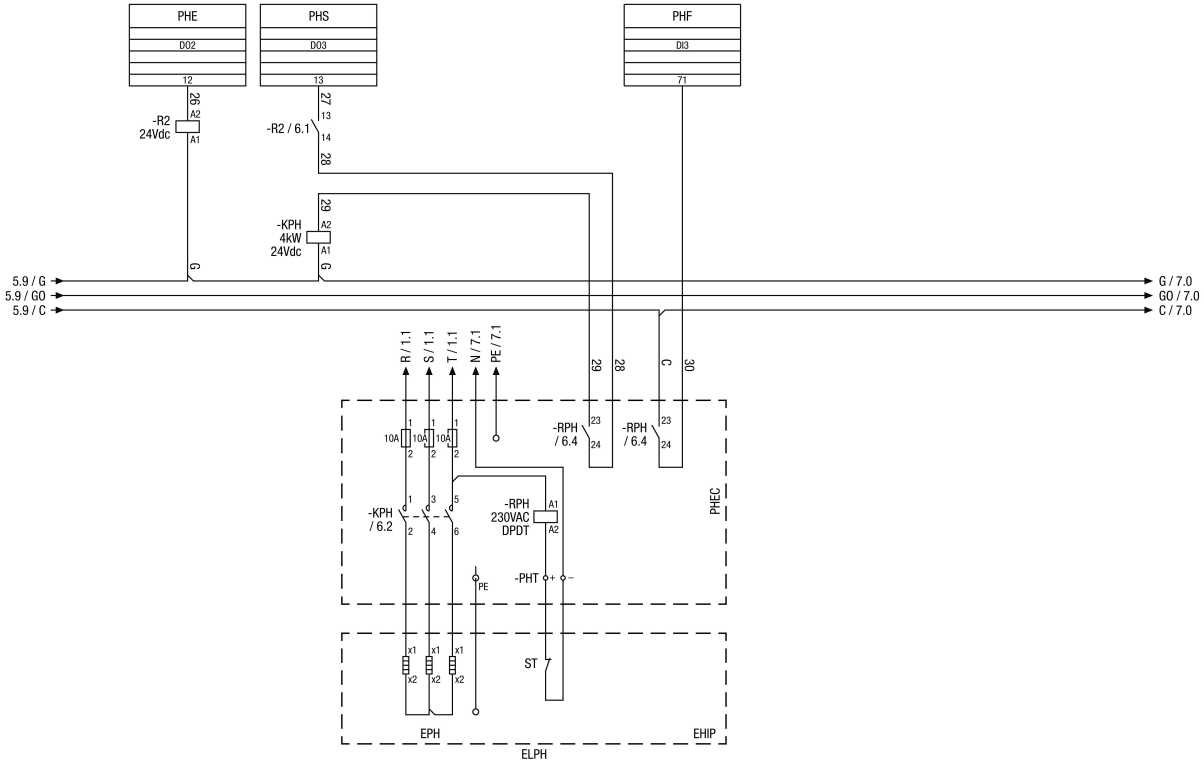
RLT FLAT 1200 M4012H R Mode 4



RLT FLAT sensor circuit diagram – main unit
AT - AI3 - Outside air temperature
ABT - AI4 - Outgoing air temperature
EFF - UI2 - Outgoing air fan air flow
BDA - AO1 - Bypass damper actuator
AR - AO5 - Suction side reference pressure
FAF - DI2 - Outside air filter F7
V010VR - Fan 0-10V reference

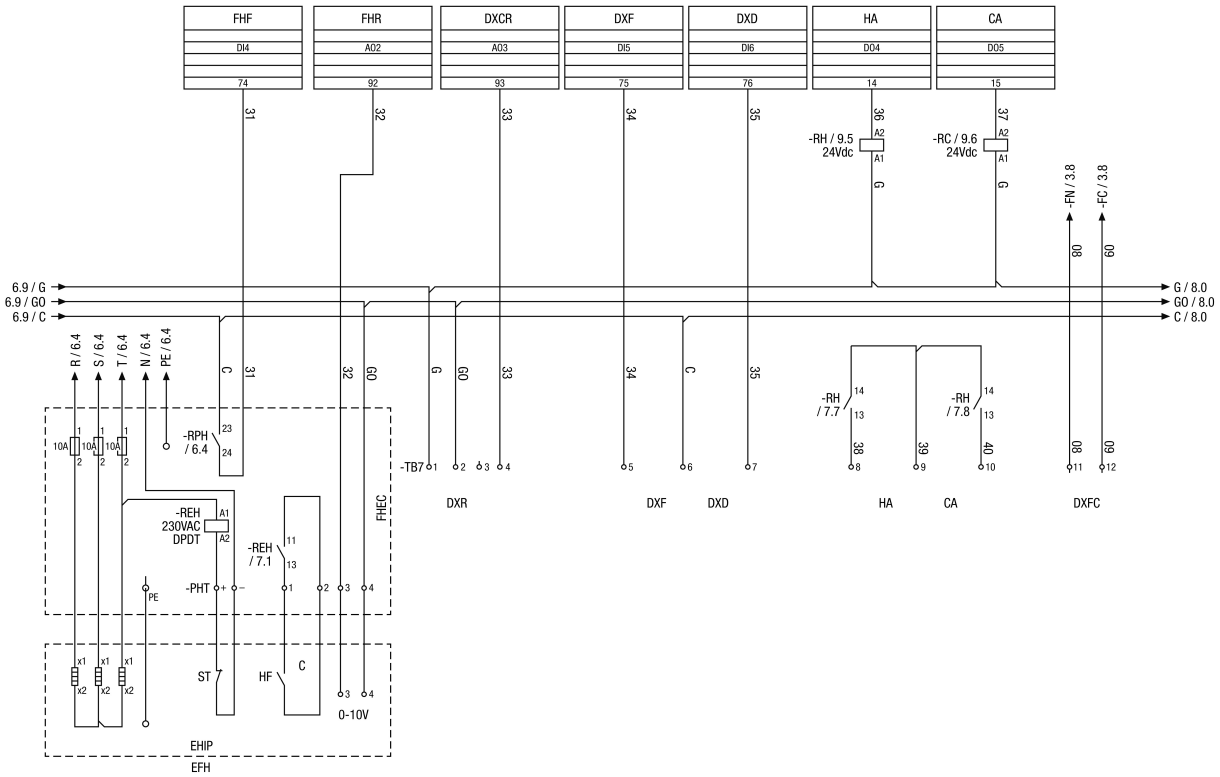
WIRING DIAGRAM

RLT FLAT 1200 M4012H R Mode 4



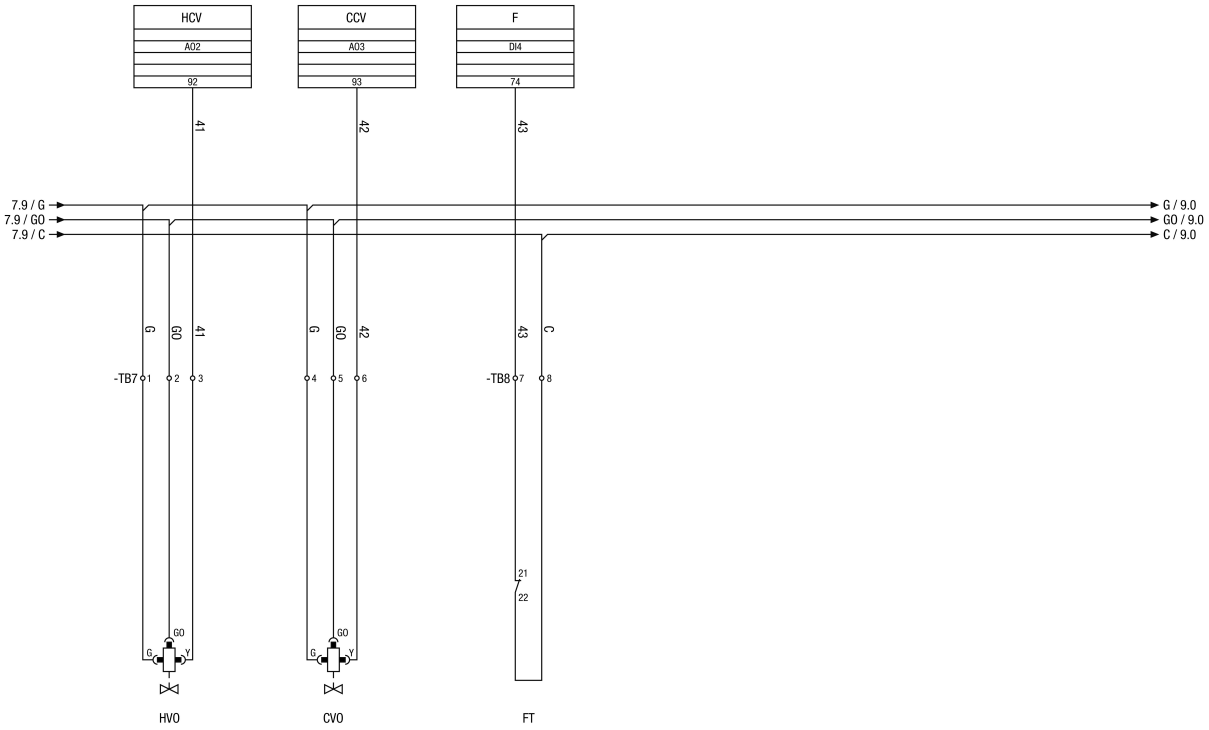
RLT FLAT circuit diagram for electric preheater
PHE - DO2 - Activate preheater
PHS - DO3 - Preheating register start
PHF - DI3 - Preheater fault
PHEC - preheating register expansion card
ST - Safety thermostat
EPH/ELPH – electric preheater
EHIP – electric preheater, internal panel

RLT FLAT 1200 M4012H R Mode 4



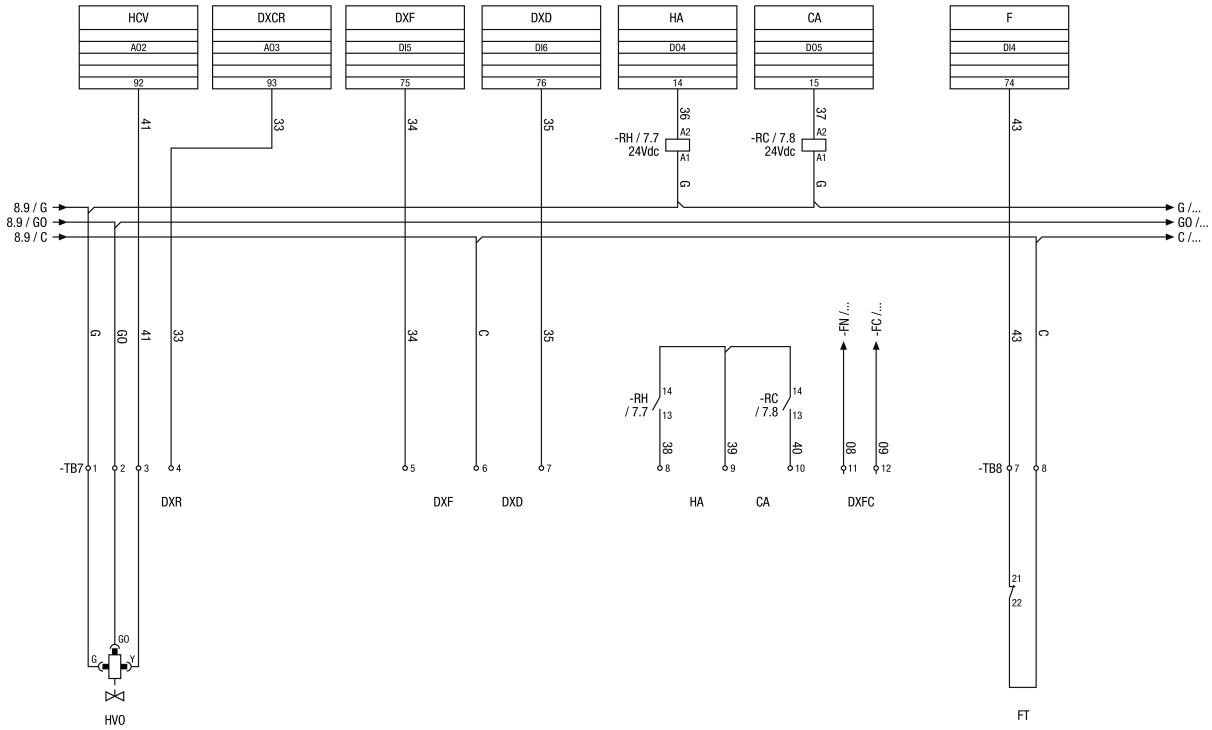
RLT FLAT circuit diagram for electric re-heater
FHF - DI4 -Re-heater fault
FHR - AO2 - Re-heater reference
DXCR - AO3 - DX Cooling register reference
DXF - DI5 - DX Fault
DXD - DI6 - DX Defrosting
HA - DO4 - Heating active
CA -DO5 - Cooling active
ST - Safety thermostat
HF - Heating fault
C - Contact
EHIP – Electric heater, inner panel
EFH – Electric re-heater
DXR - DX Reference 0-10V (terminals 2-4)
DXFC - DX Volumetric flow check

RLT FLAT 1200 M4012H R Mode 4



RLT Flat circuit diagram for water re-heater and cooling register
HCV - AO2 - Valve heat register
CCV - AO3 - Valve cooling register
F - DI4 - Frost
HVO - Valve heat register (optional)
CVO - Valve cooling register (optional)
FT - Frost thermostat

RLT FLAT 1200 M4012H R Mode 4



RLT FLAT circuit diagram DX register
HCV - AO2 Valve heat register
DXCR - AO3 DX Cooling Reference
DXF - DI5 DX Fault
DXD - DI6 DX Defrosting
HA - DO4 Heating active
CA - DO5 Cooling active
F - DII4 Frost
DXR - DX reference 0-10V (terminals 2-4)
DXFC - DX Current check
FT - Frost thermostat