

TRIGON L PLUS

- Commercial floor standing boiler
- Single boiler 60 to 200 kW
- Cascade solution up to 8 boilers
- Cascade solution up to 1600 kW
- Boiler pump(s) and cascade controller integrated
- External controls (accessory) by on/off, 0-10V or eBus to: Modbus, BACnet, KNX, LONworks

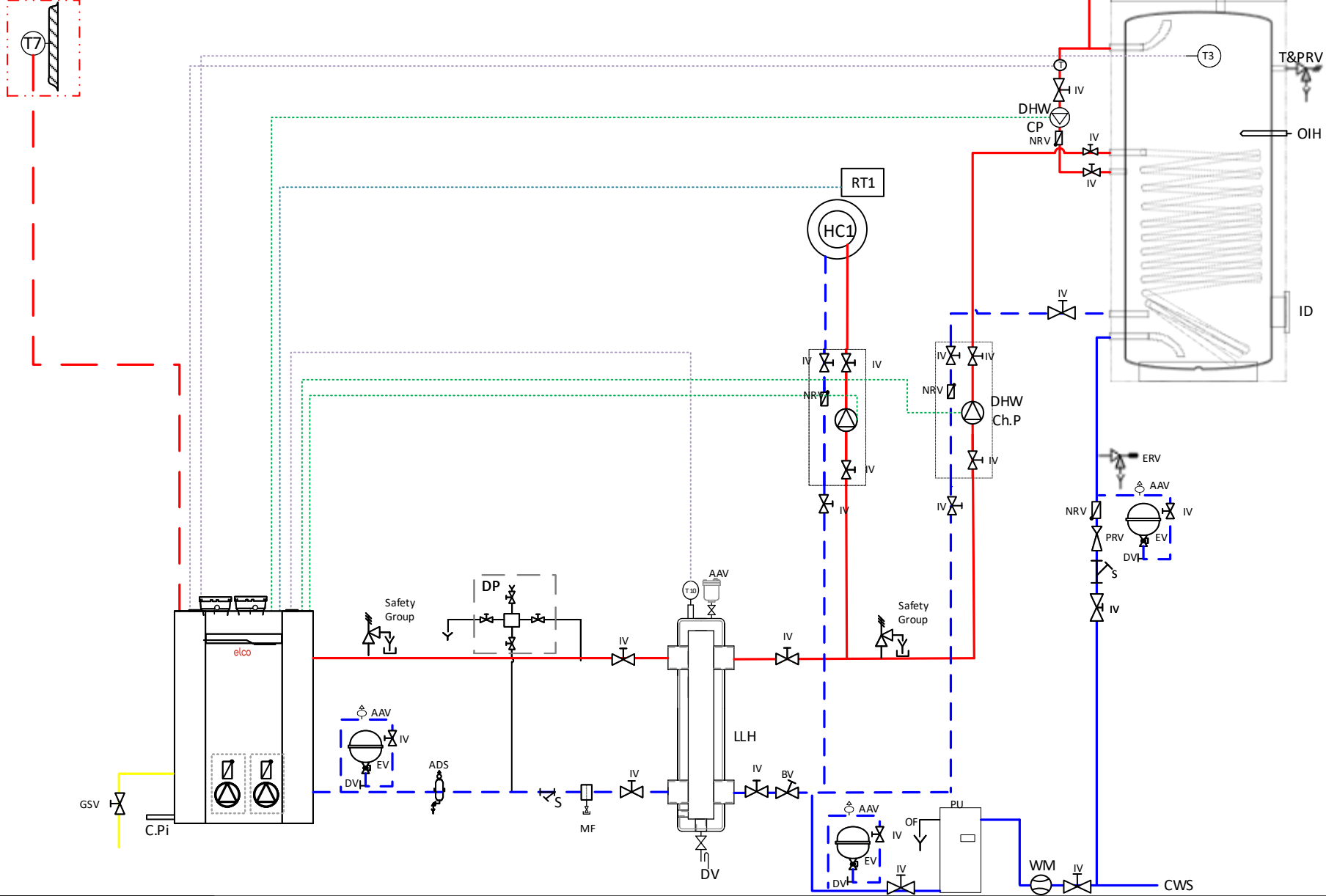
System TRIGON L Plus with one constant temperature heating circuit and one DHW circuit

The condensing gas boiler TRIGON L PLUS operates on the heating circuit with adapted flow temperature corresponding to the outside temperature.

A plate heat exchanger or low loss header provide hydraulic separation between the primary and the secondary circuits.

Hydraulic Schematic

Optional



Legend:

- Gas
- Return
- Flow
- Sensor
- BUS connection cable
- Pump cable
- Optional components
- Mixing valve cable

- AAV Automatic air vent
- ADS Air dirt separator
- BV Balancing valve
- C.Pi Condensing pipe
- Ch.P DHW Charging
- Pump
- CP DHW Re-circulating Pump
- CWS Cold water supply
- DP Dosing pot
- DV Drain valve
- ERV Expansion relief valve
- EV Expansion vessel
- GSV Gas shut off valve
- HC Heating Circuit
- ID Inspection door
- IV Isolation valve
- LLH Low loss header
- MF Dirt separator
- magnetic filter
- NRV Non return valve
- OF Overflow pipe
- OIH Optional immersion heater
- PU Pressurisation unit
- RT1 Room thermostat (on/off)
- S Strainer
- T&PRV Temperature and pressure relief valve
- T Flow sensor
- T10 Common sensor flow
- T7 Outdoor sensor
- WM Water meter

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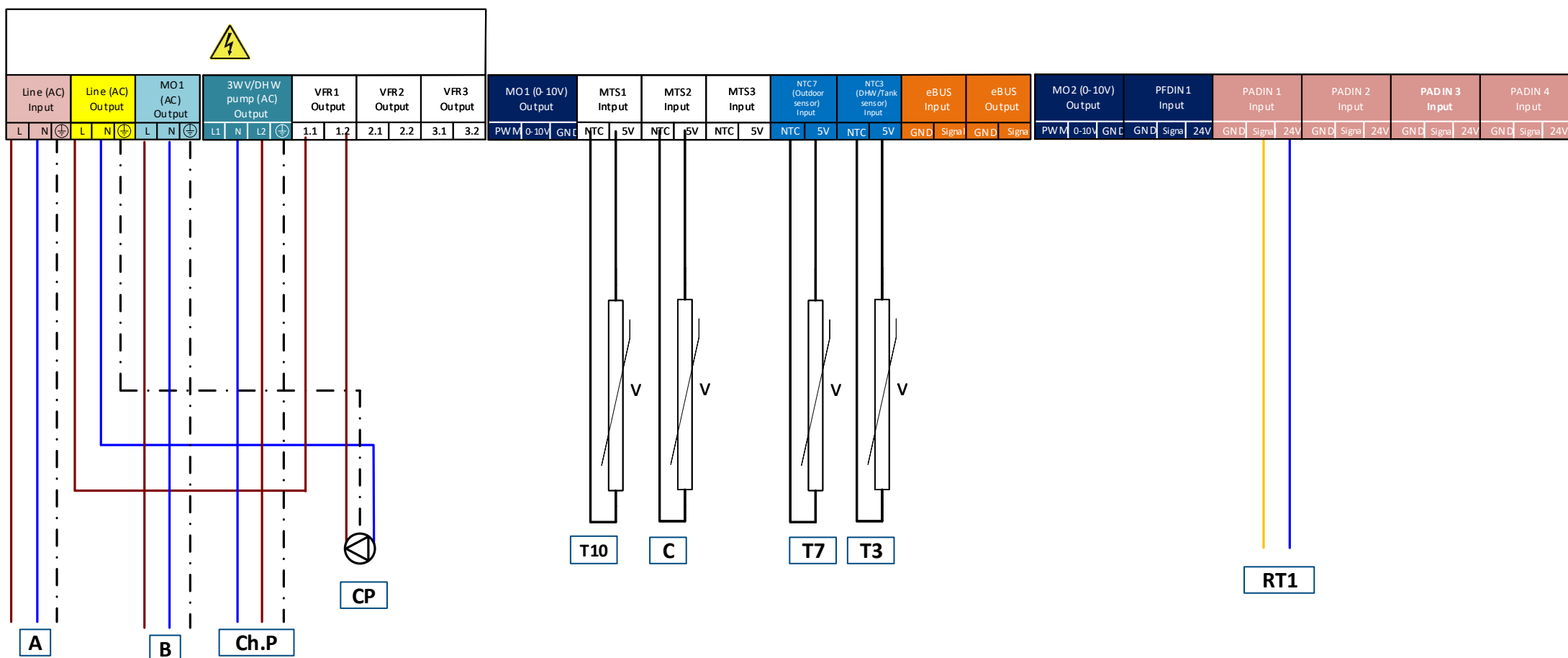
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Elco_Tr_UK_EN_489: Elco Trigon L Plus + 1 Direct circuit +1 Domestic hot water + Low loss header

This schematic is designed to be used for general guidance and not to be considered as a design drawing.



Electrical connections



Legend:

A : Main power supply (230V @50Hz)

B : Heating circuit pump HC1(230V @50Hz)

Ch.P : DHW Charging pump(230/120 VAC, 1A max)

CP: DHW Re-circulating pump (230 VAC, 2A max)

T10: Common flow temperature sensor (10KΩ)

C: DHW re-circulating temperature sensor(10KΩ)

T3: DHW temperature sensor(10KΩ)

RT1: Room thermostat (On/Off)

T7 : Outdoor sensor (optional)(1KΩ)

Parameter List

	Menü	Parameter	Description	To be adjusted	Range	Factory setting
Boiler Parameter	Boiler configuration	0.2.0	Undefined Single boiler Master boiler + cascade Slave boiler 1 Slave boiler 2 Slave boiler 3 Slave boiler 4 Slave boiler 5 Slave boiler 6 Slave boiler 7	Single boiler	0-10	0
	MTS1 input	24.6.0	Common flow sensor (T10)	1	0-8	1
	PADIN1 input	24.6.4	Room thermostat HC1	1	0-9	0
	PADIN2 input	24.6.5	Room thermostat HC2	2	0-9	0
	Thermoregulation	24.4.0	0 = OFF, 1 = ON	up to user	0-1	1
Zone 1 Parameter	T Day	4.0.0	Room temperature set point for day period	up to user	10- 30 °C	21
	T Night	4.0.1	Room temperature set point for night period	up to user	10- 30 °C	16
	T set Z1	4.0.2	Temperature setpoint zone 1	up to user	40°C to 90°C 20°C to 45°C	85 20
	Zone temperature range	4.2.0	0 = Low Temp (LT) 1 = High Temp (HT)	1	0-1	1
	Thermoregulation	4.2.1	0 = Fix Flow T 1 = Basic Thermoregulation 2 = Room T Only 3 = Outdoor T Only 4 = Room+Outdoor T	3	0-4	0
	Slope	4.2.2		up to user	LT: From 0.2 - 1.0 HT: From 1.0 - 3.5	0.6LT 1.3HT
	Max T	4.2.5	Zone 1 Maximum Flow Temperature	up to user	LT: From 20°C to 45°C HT: From 20°C to 90°C	45°C 85°C
	Min T	4.2.6	Zone 1 minimum Flow Temperature	up to user	LT: From 20°C to 45°C HT: From 40°C to 90°C	25°C 40°C
	Quick night setback	4.2.8	0 = OFF, 1 = ON	up to user	0-1	0
DHW Parameter	DHW comfort Function	24.5.1	0= Disable 1 = Time based 2= always Active	up to user	0-2	0
	System DHW mode	24.5.2	0= CH only 1= Storage with NTC 2= Storage with Thermostat	1	0-2	0
	VFR1 output	24.7.1	DHW re-circulating pump	4	0-11	0
	Boiler DHW Re-Circulating Pump Release	24.5.7	Release Time Program Special time program	up to user	0-2	0
	DHW Priority	24.5.9	Absolute Shifting None	up to user	0-2	0
	MTS2 input	24.6.1	DHW re-circulation sensor	4	0-8	0
	Other	24.20.0	DHW modulation set point	up to user	50 - 85 °C	70°C