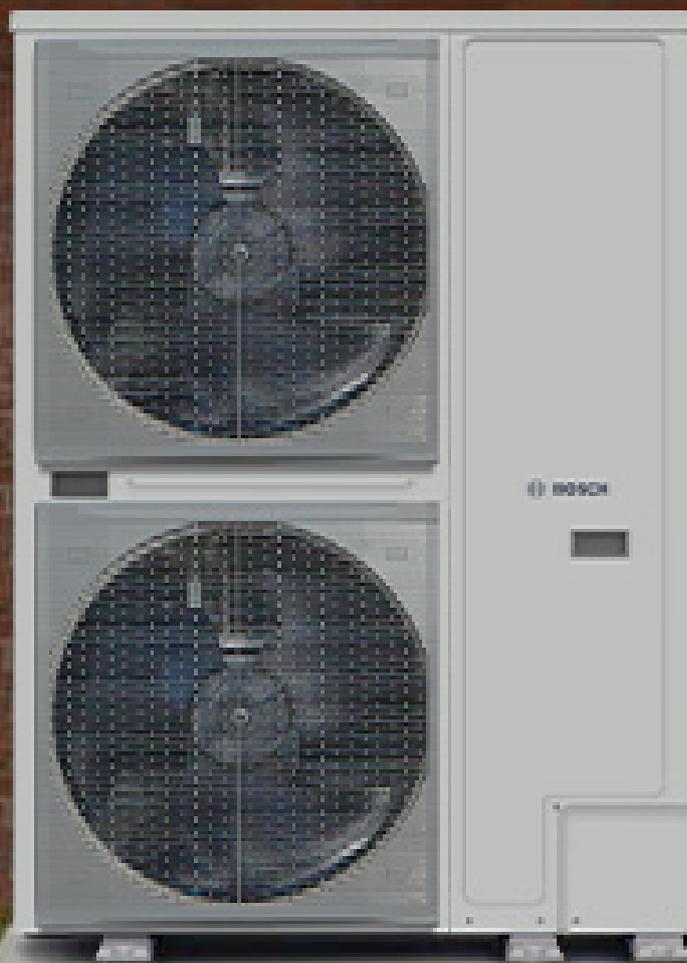


# Compress 2000

## System schematic and wiring diagrams

18kW to 30kW.





## Compress 2000 18 - 30kW

### Standard systems

### System Wiring

CS2000 AWF R-T open circuit, DHW without buffer

CS2000 AWF R-T multi zone, DHW buffer & 3rd party controls

CS 2000 AWF R-T heating only without buffer

CS2000 AWF R-T heating only multi zone with buffer

### Cascaded

CS2000 AWF R-T- cascaded, DHW, 3rd party controls

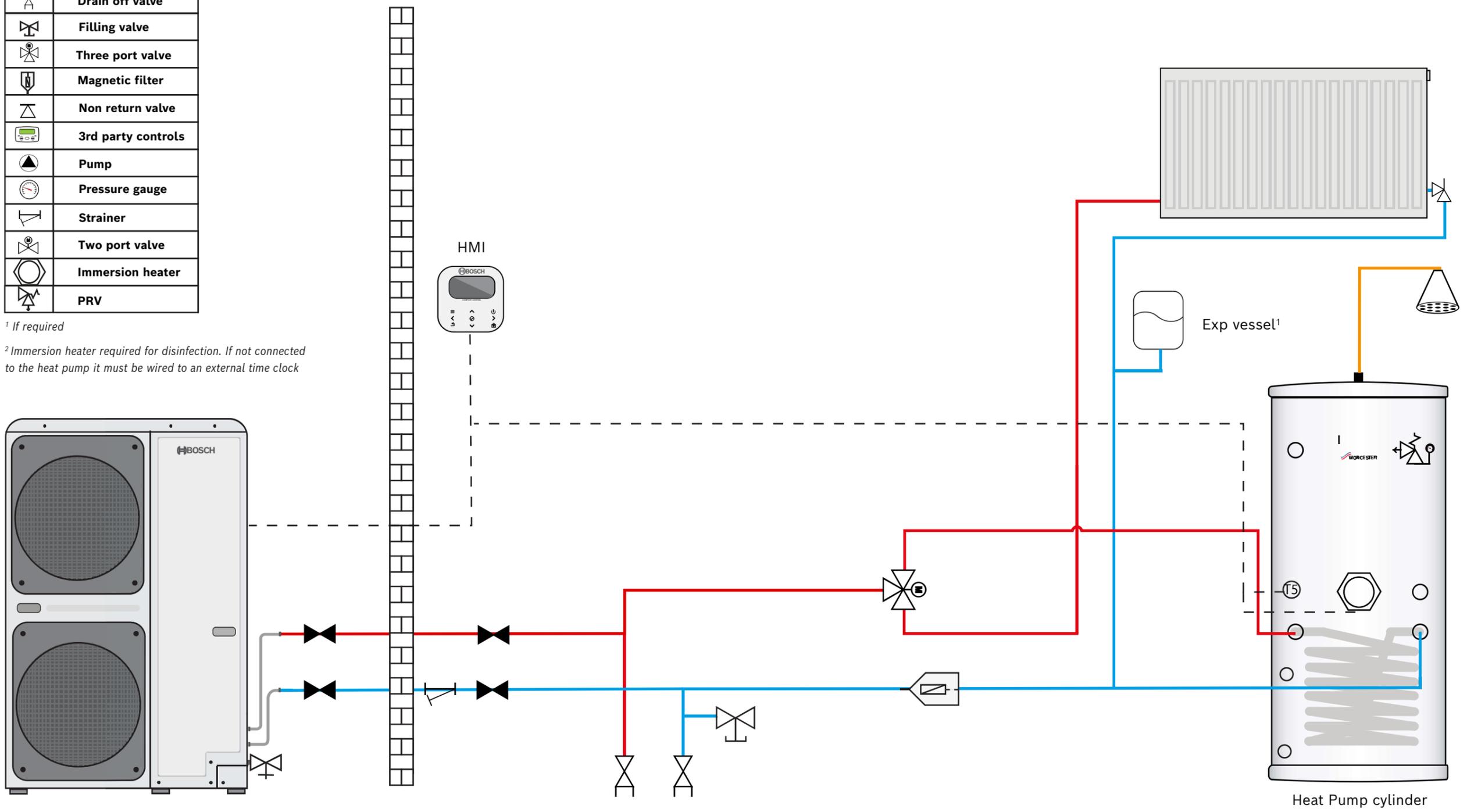
CS2000 AWF R-T- cascaded heating only with 3rd party controls



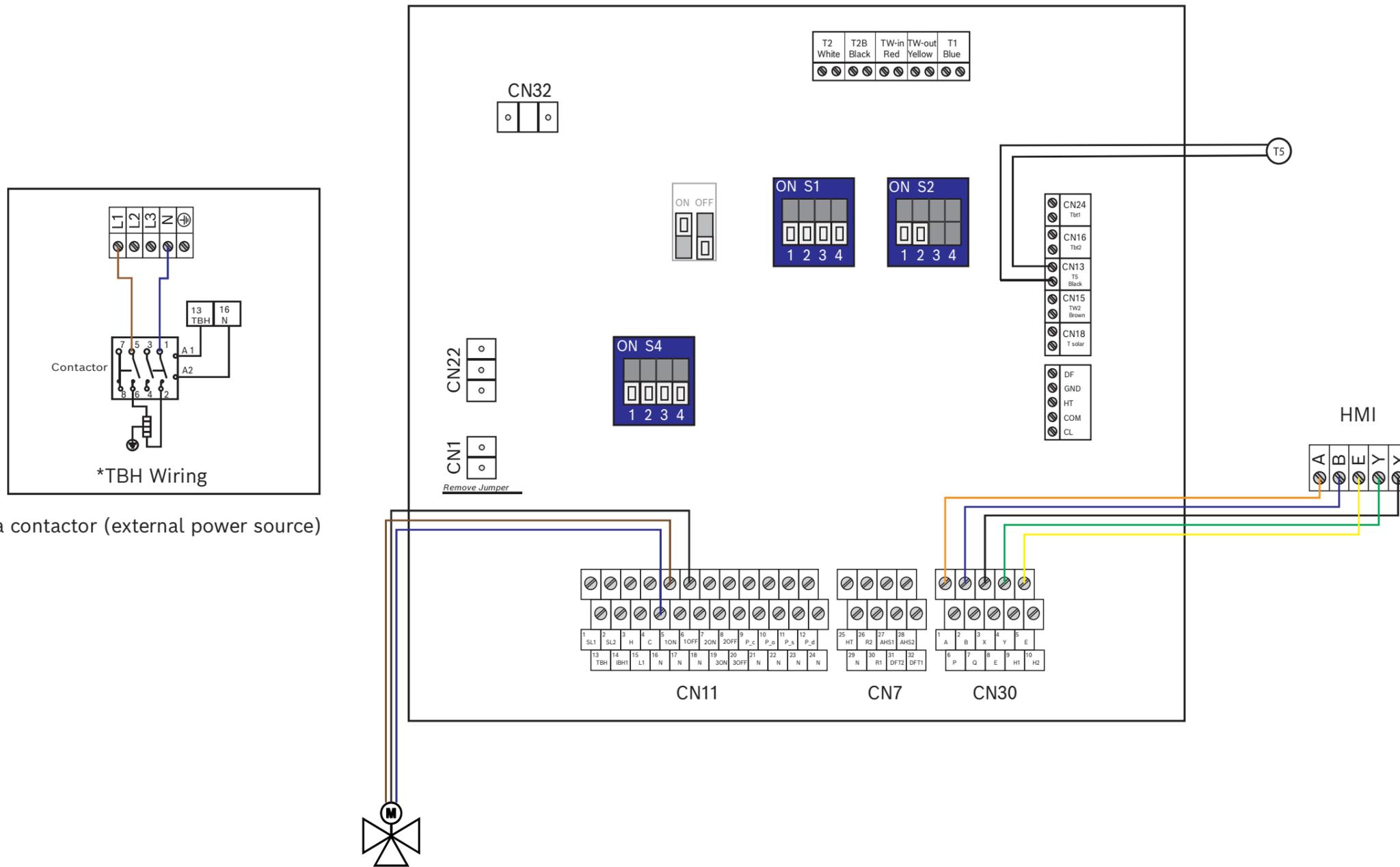
Key	Description
	Antifreeze valve
	T1, T5, Tbt1 sensors
	Isolation valve
	Drain off valve
	Filling valve
	Three port valve
	Magnetic filter
	Non return valve
	3rd party controls
	Pump
	Pressure gauge
	Strainer
	Two port valve
	Immersion heater
	PRV

<sup>1</sup> If required  
<sup>2</sup> Immersion heater required for disinfection. If not connected to the heat pump it must be wired to an external time clock

CS2000AWF 18 R-T to 30 R-T ensure a minimum system volume of 100L.



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\*Wired through a contactor (external power source)

If a third party diverter valve is used wiring and orientation may differ. Seek advice for compatible products

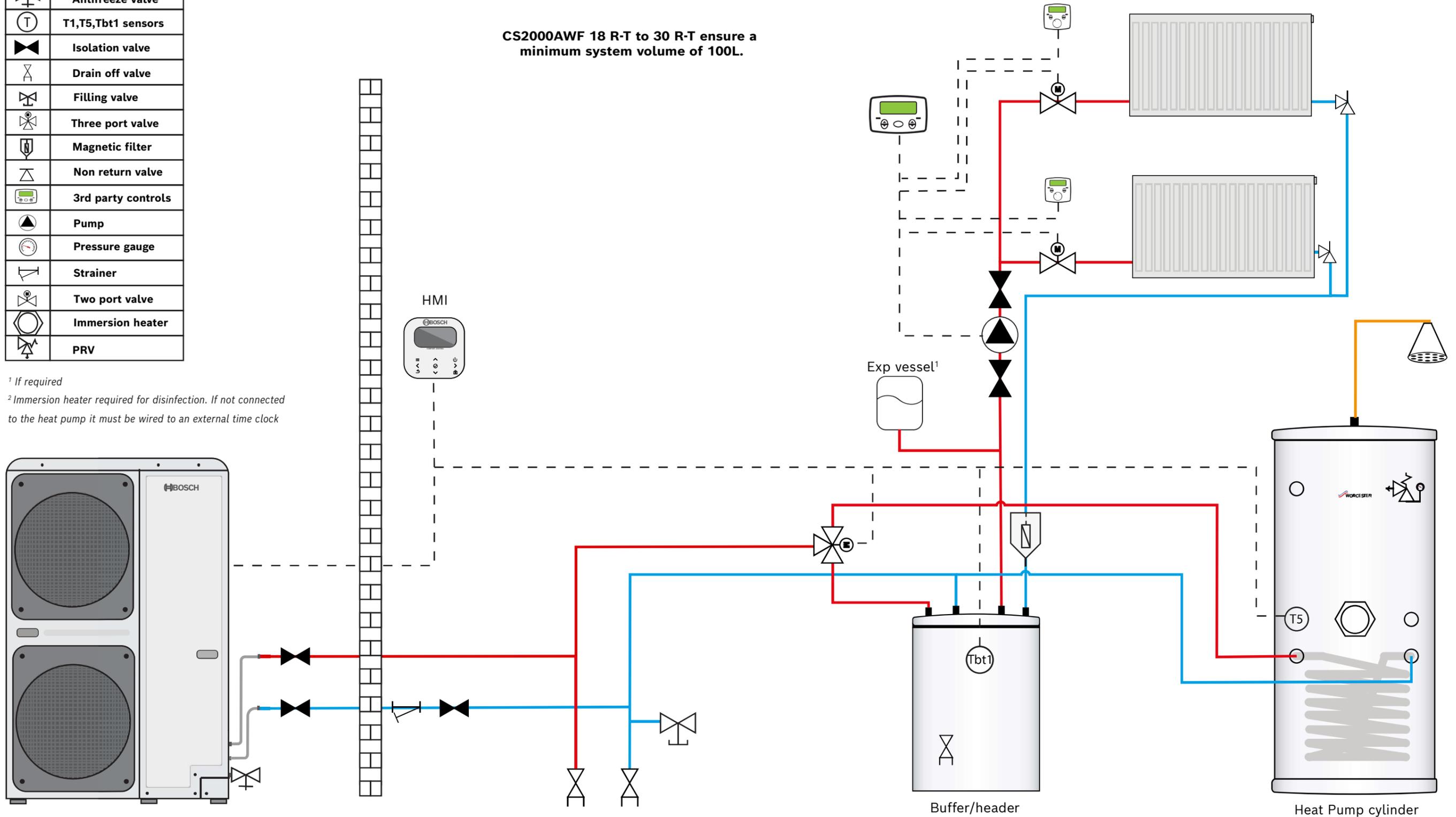
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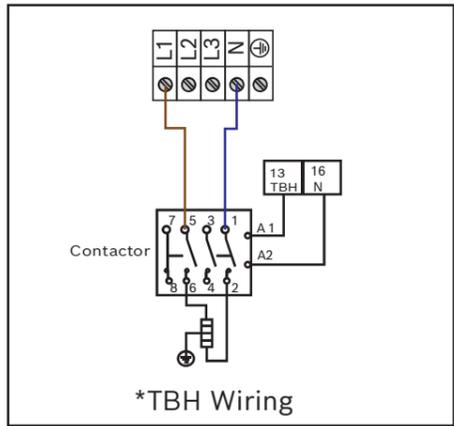
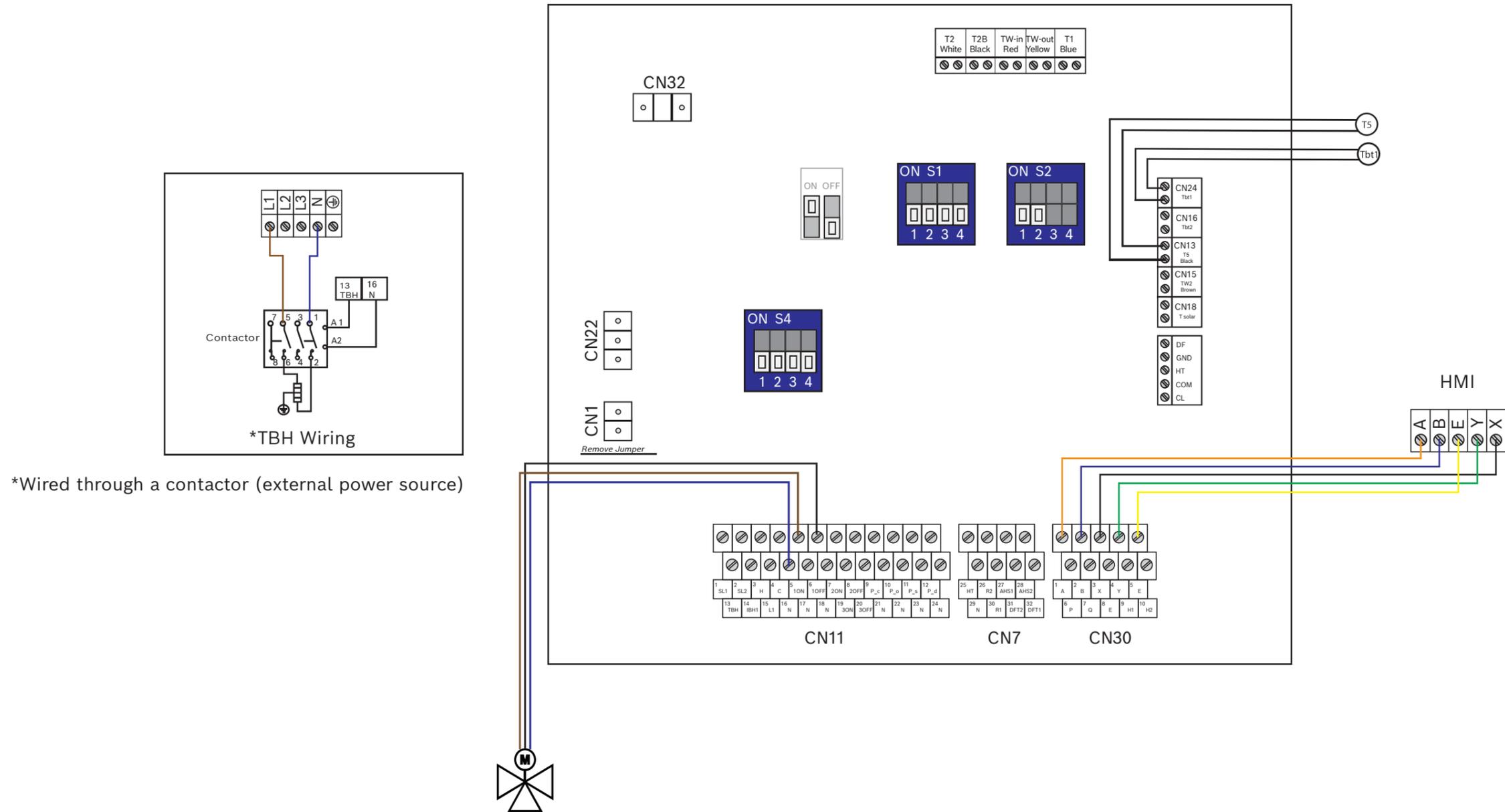
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	Filling valve
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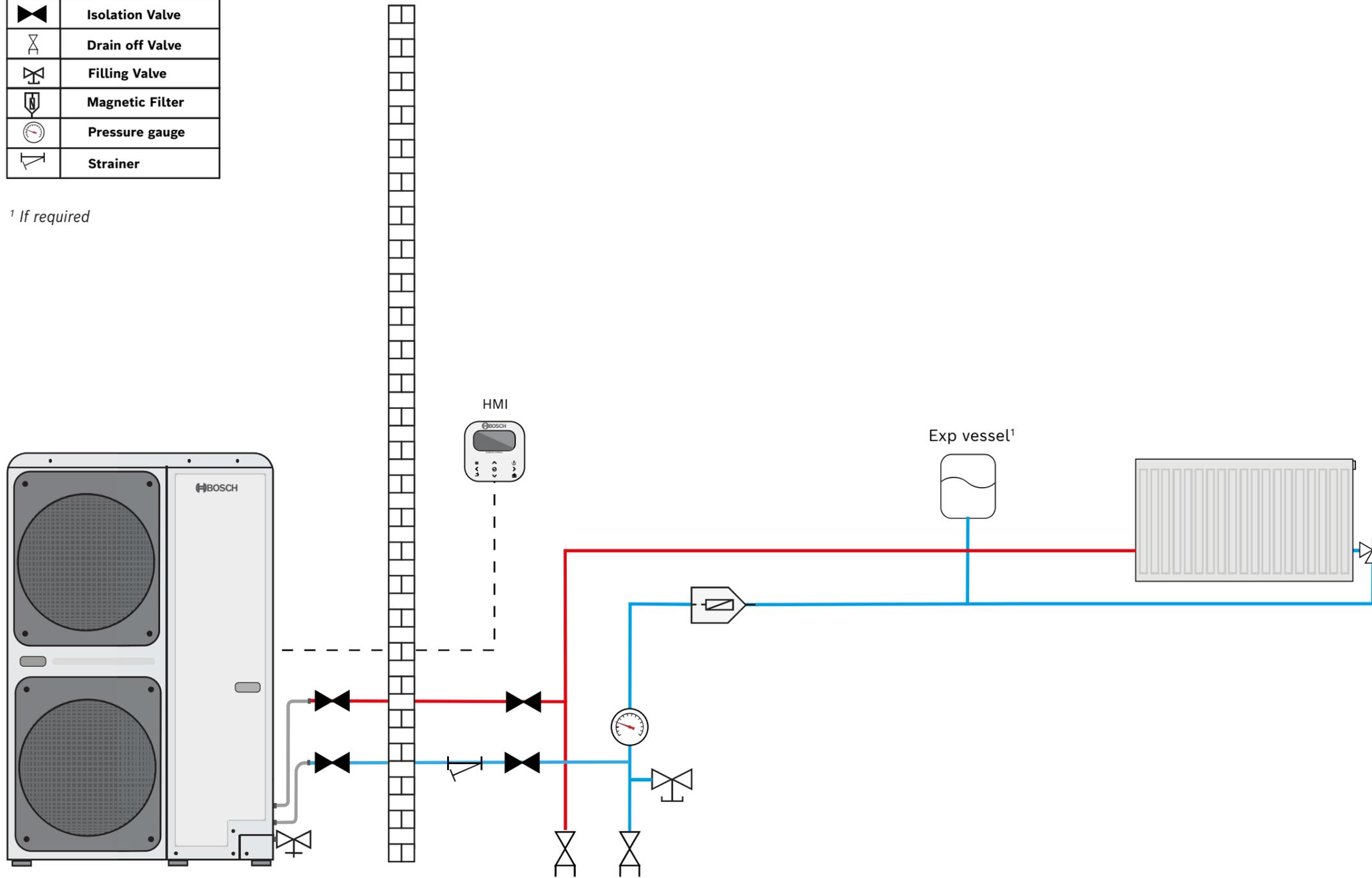
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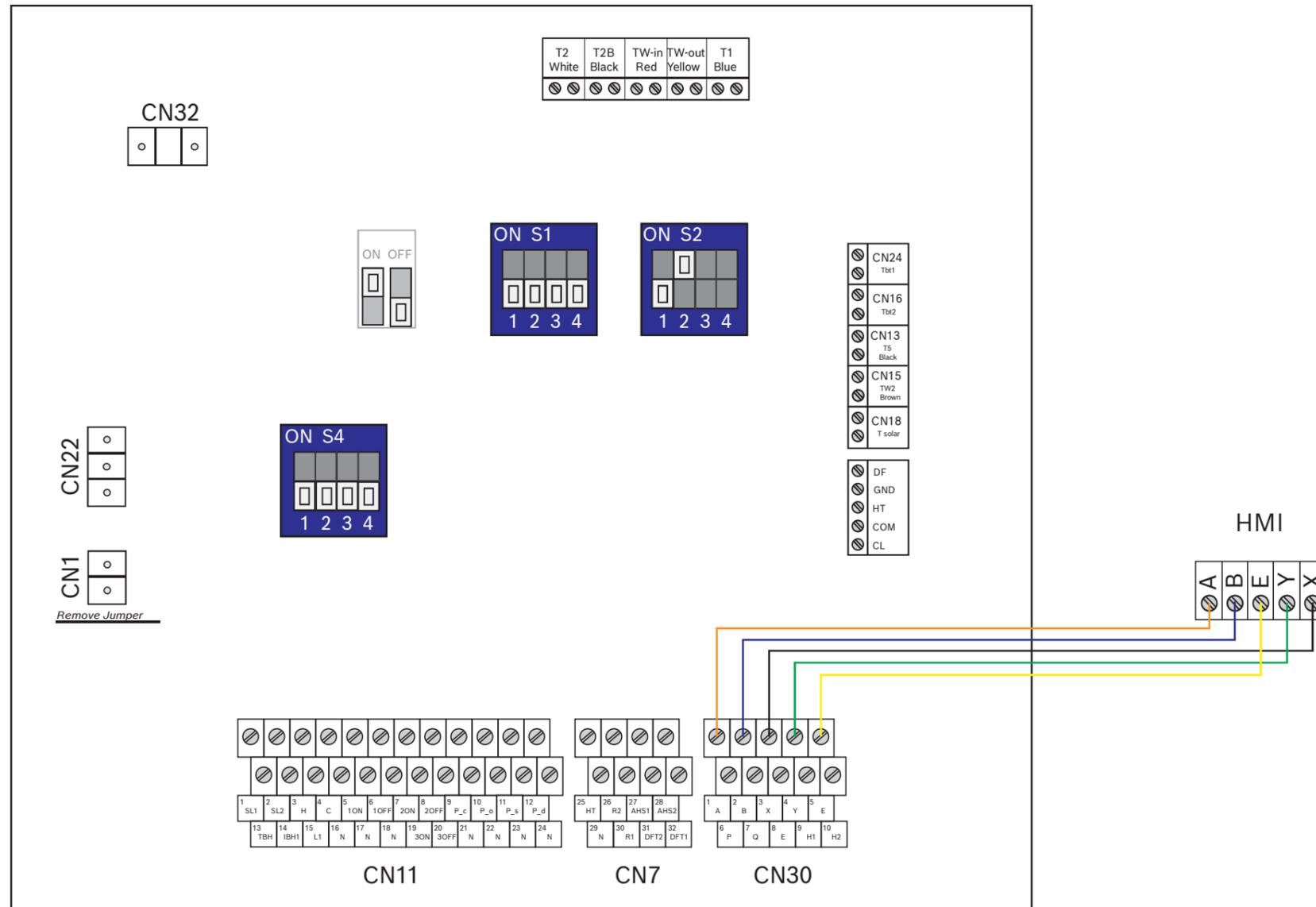
Key	Description
	Antifreeze Valve
	Isolation Valve
	Drain off Valve
	Filling Valve
	Magnetic Filter
	Pressure gauge
	Strainer

CS2000AWF 18 R-T to 30 R-T ensure a minimum system volume of 100L.

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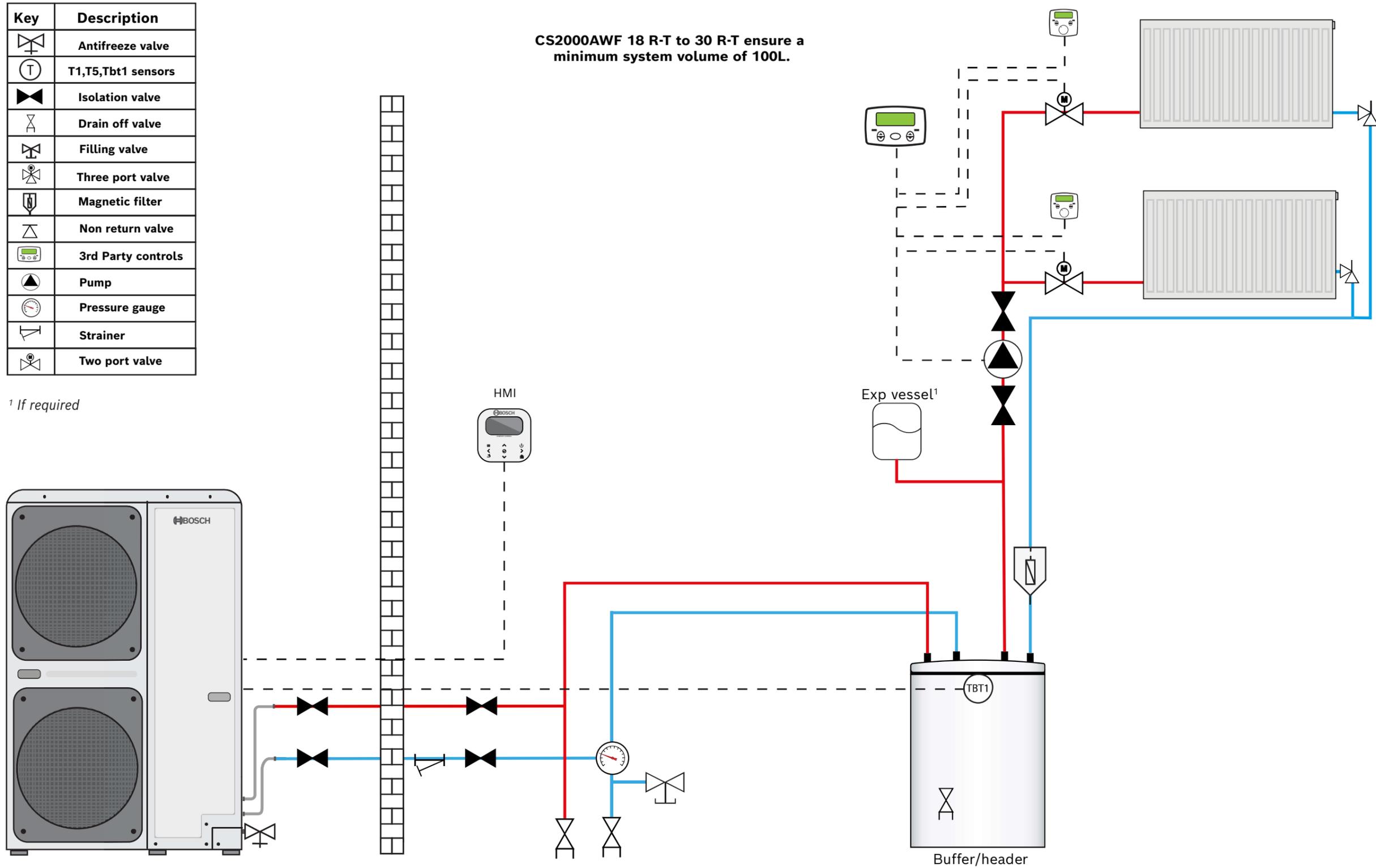
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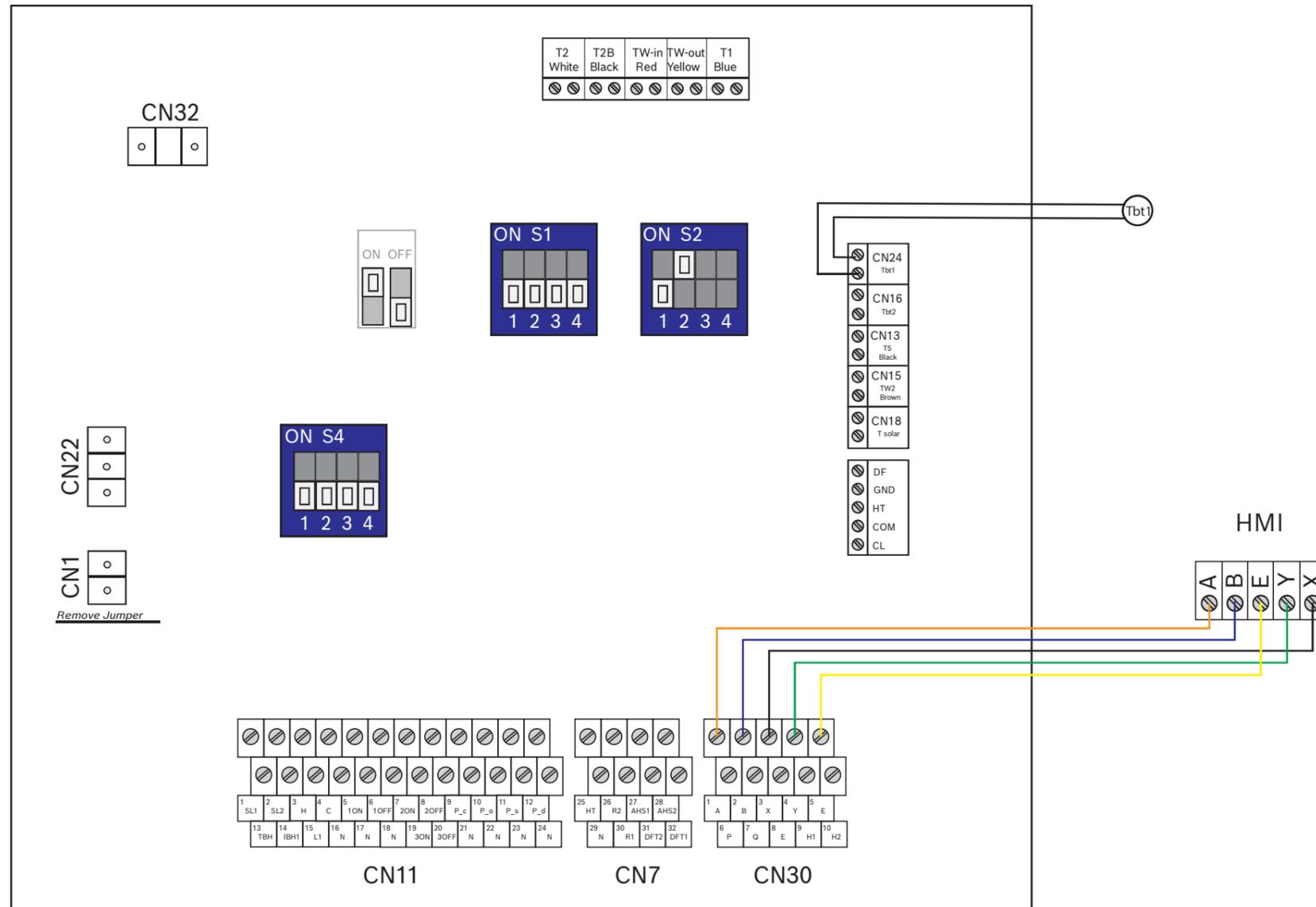


Key	Description
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	T1, T5, Tbt1 sensors
	Isolation valve
	Drain off valve
	Filling valve
	Three port valve
	Magnetic filter
	Non return valve
	3rd Party controls
	Pump
	Pressure gauge
	Strainer
	Two port valve

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	Two port valve
	Immersion heater
	PRV
	DPV

CS2000AWF 18 R-T to 30 R-T ensure a minimum system volume of 100L.

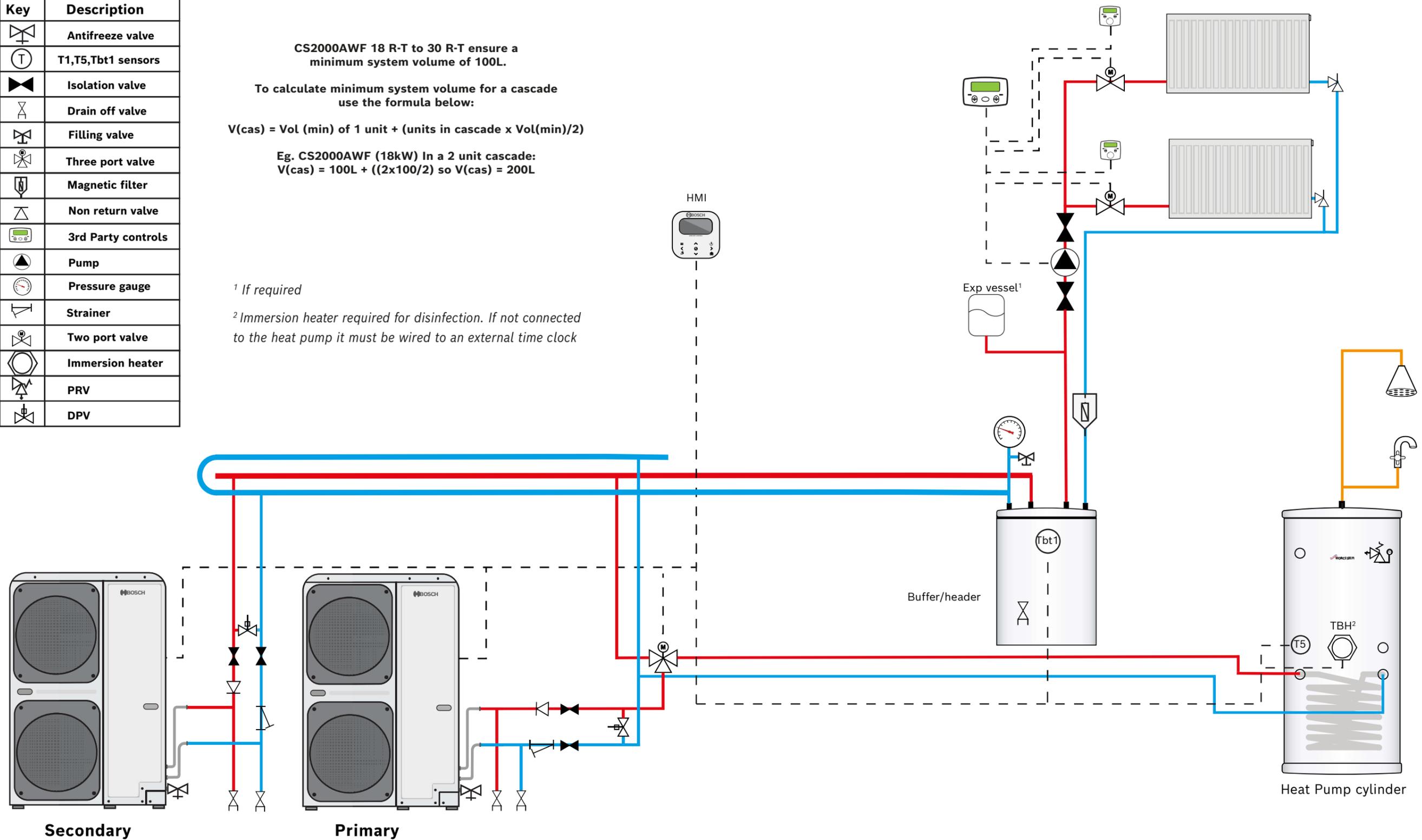
To calculate minimum system volume for a cascade use the formula below:

$$V(\text{cas}) = \text{Vol (min) of 1 unit} + (\text{units in cascade} \times \text{Vol}(\text{min})/2)$$

Eg. CS2000AWF (18kW) In a 2 unit cascade:  
 $V(\text{cas}) = 100L + ((2 \times 100)/2)$  so  $V(\text{cas}) = 200L$

<sup>1</sup> If required

<sup>2</sup> Immersion heater required for disinfection. If not connected to the heat pump it must be wired to an external time clock



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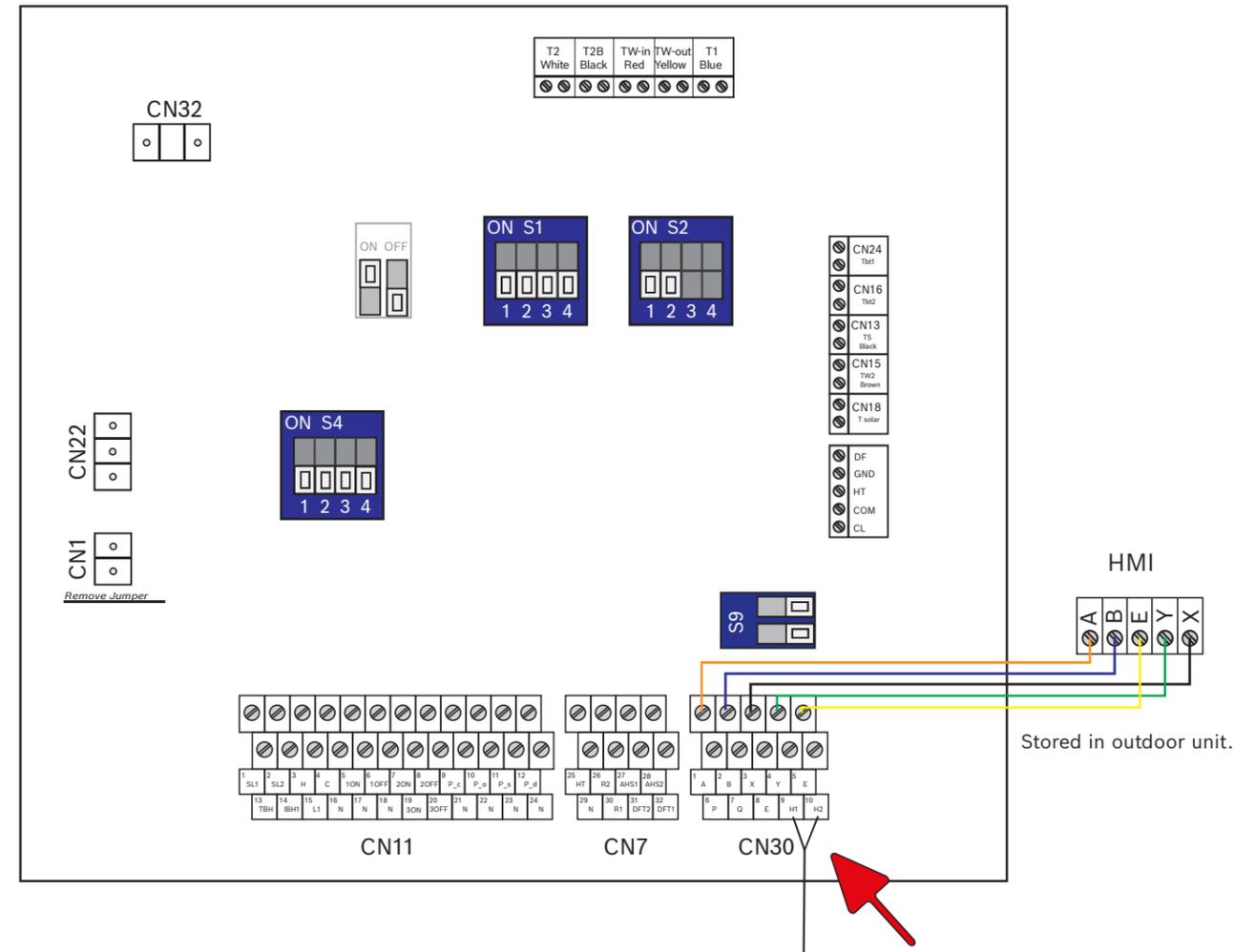
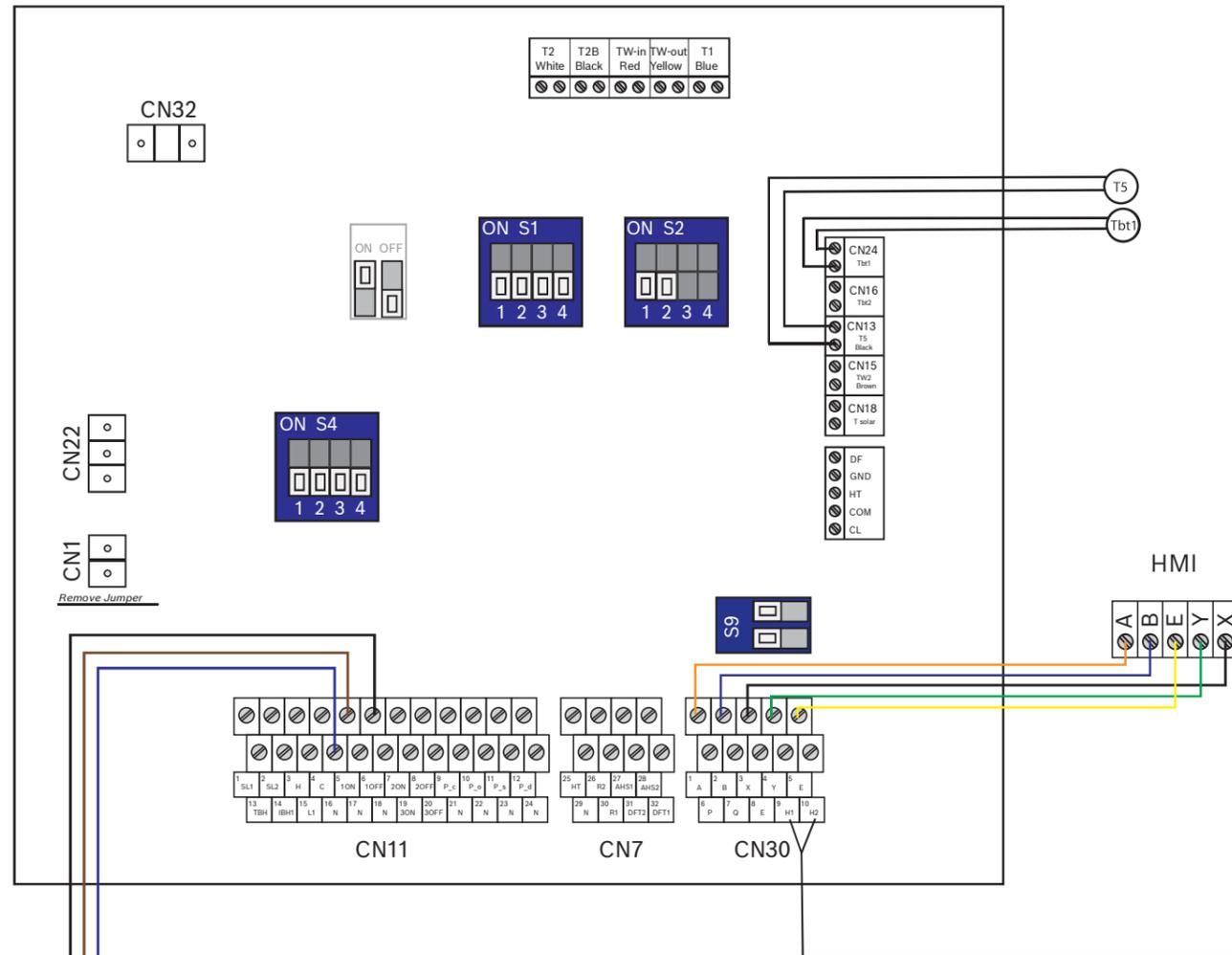
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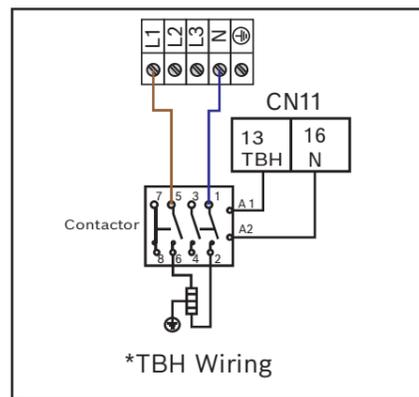
## Primary

## Secondary

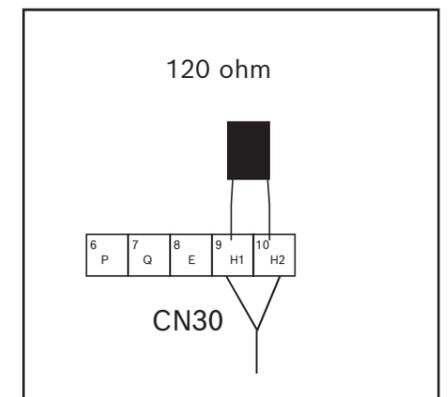


Shielded cable to be used for communication (Shielding must be earthed)

If a third party diverter valve is used wiring and orientation may differ. Seek advice for compatible products



\*Wired through a contactor (external power source)



\*Connect 120 ohm resistor provided to the final unit in cascade.

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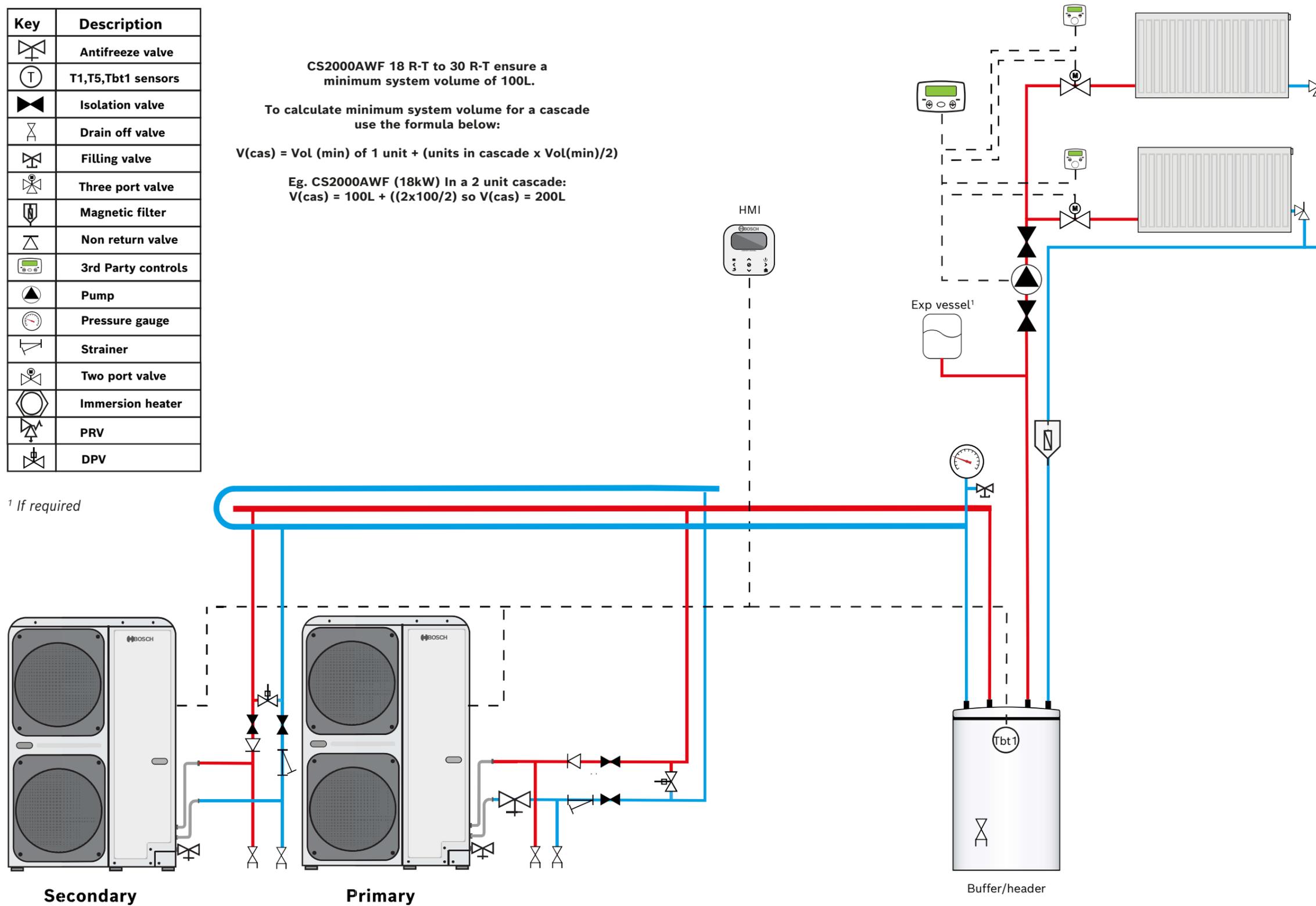
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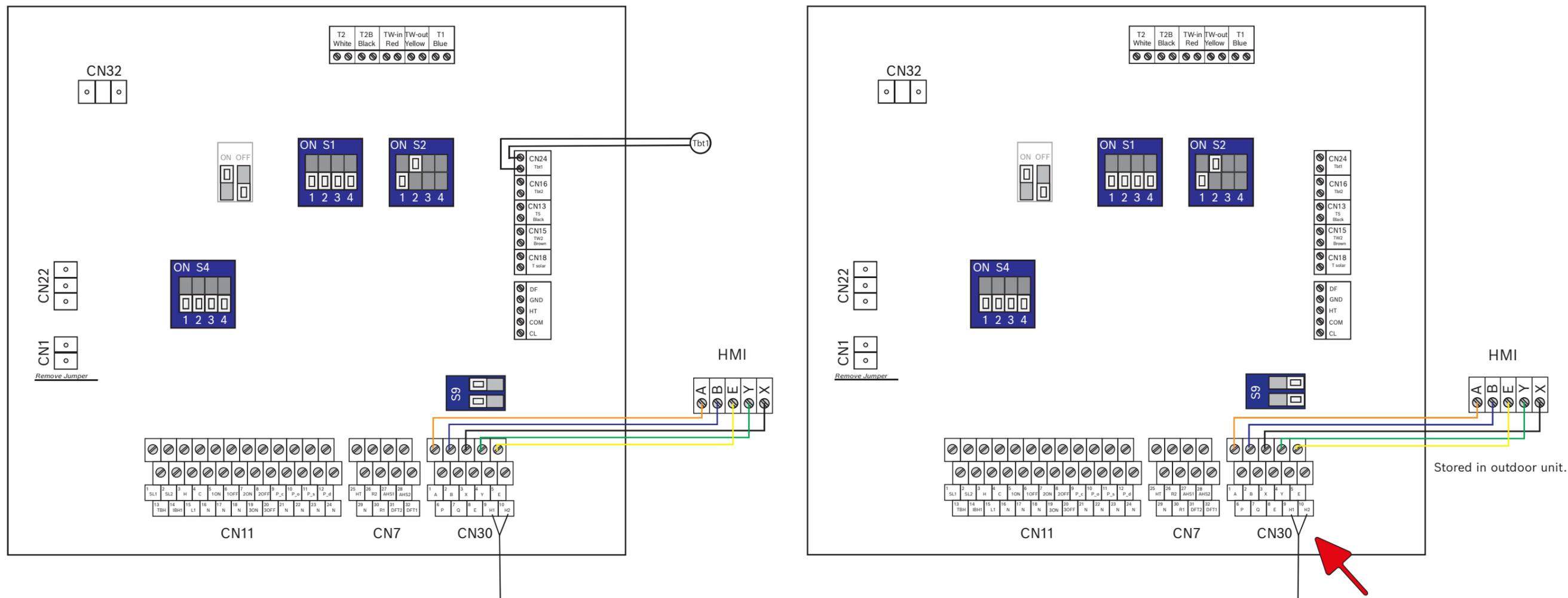
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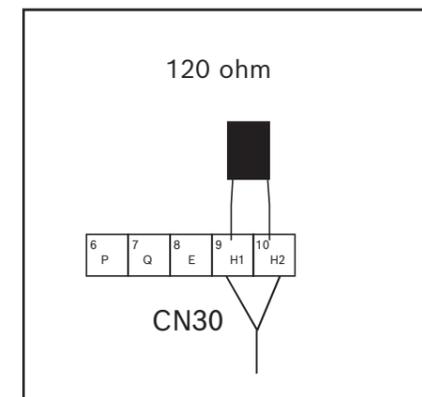


## Primary

## Secondary



Shielded cable to be used for communication (Shielding must be earthed)



\*Connect 120 ohm resistor provided to the final unit in cascade.

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