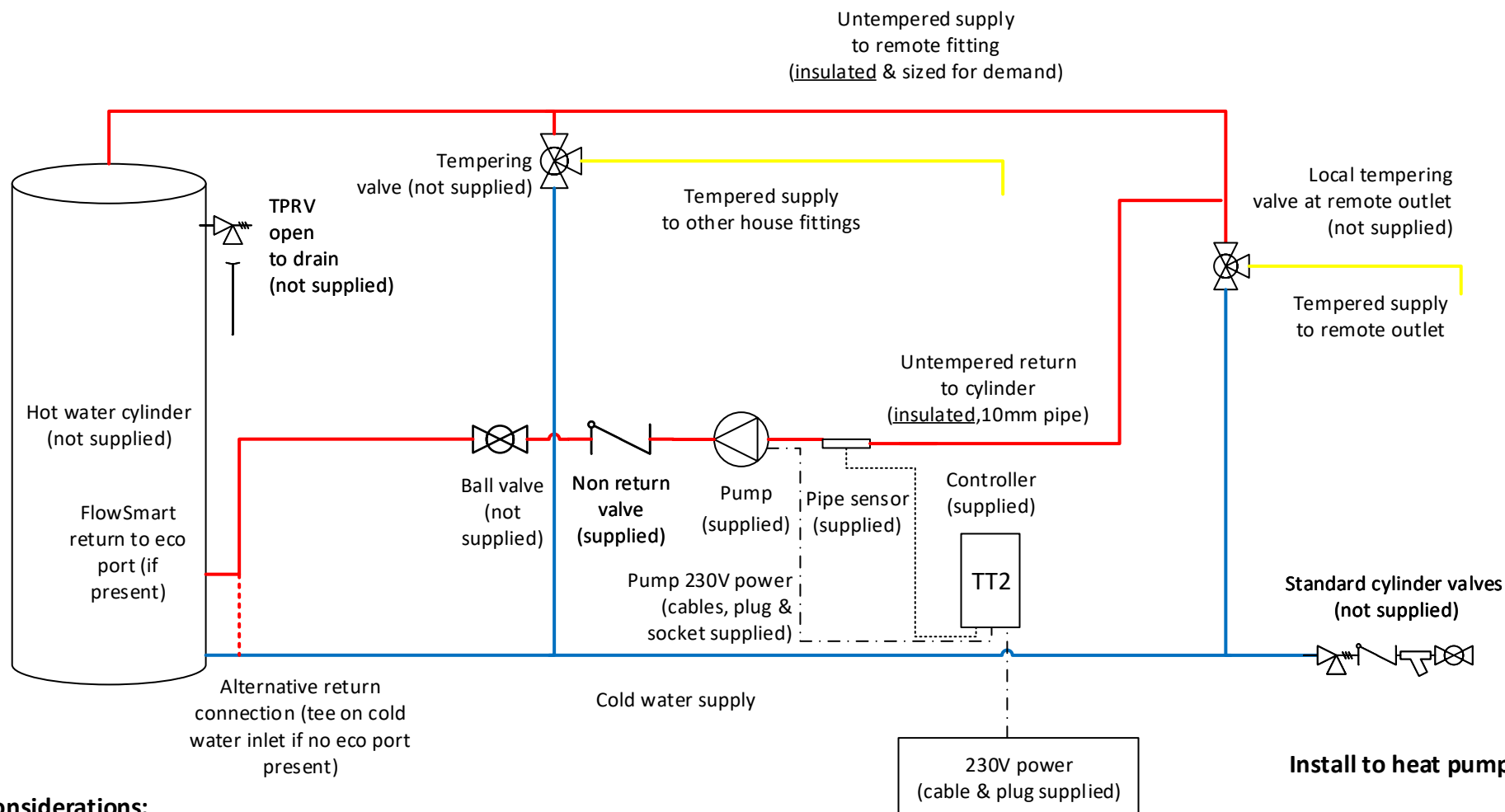


Plumbing for FlowSmart on standard hot water cylinder



Installation considerations:

Plumber to provide additional tempering valve, ball valve, pipework and any plumbing fittings required
Controller requires standard 230V socket in cylinder cupboard near pump location
Pipe sensor must be underneath insulation and well secured to pipework

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Install to heat pump hot water cylinders:

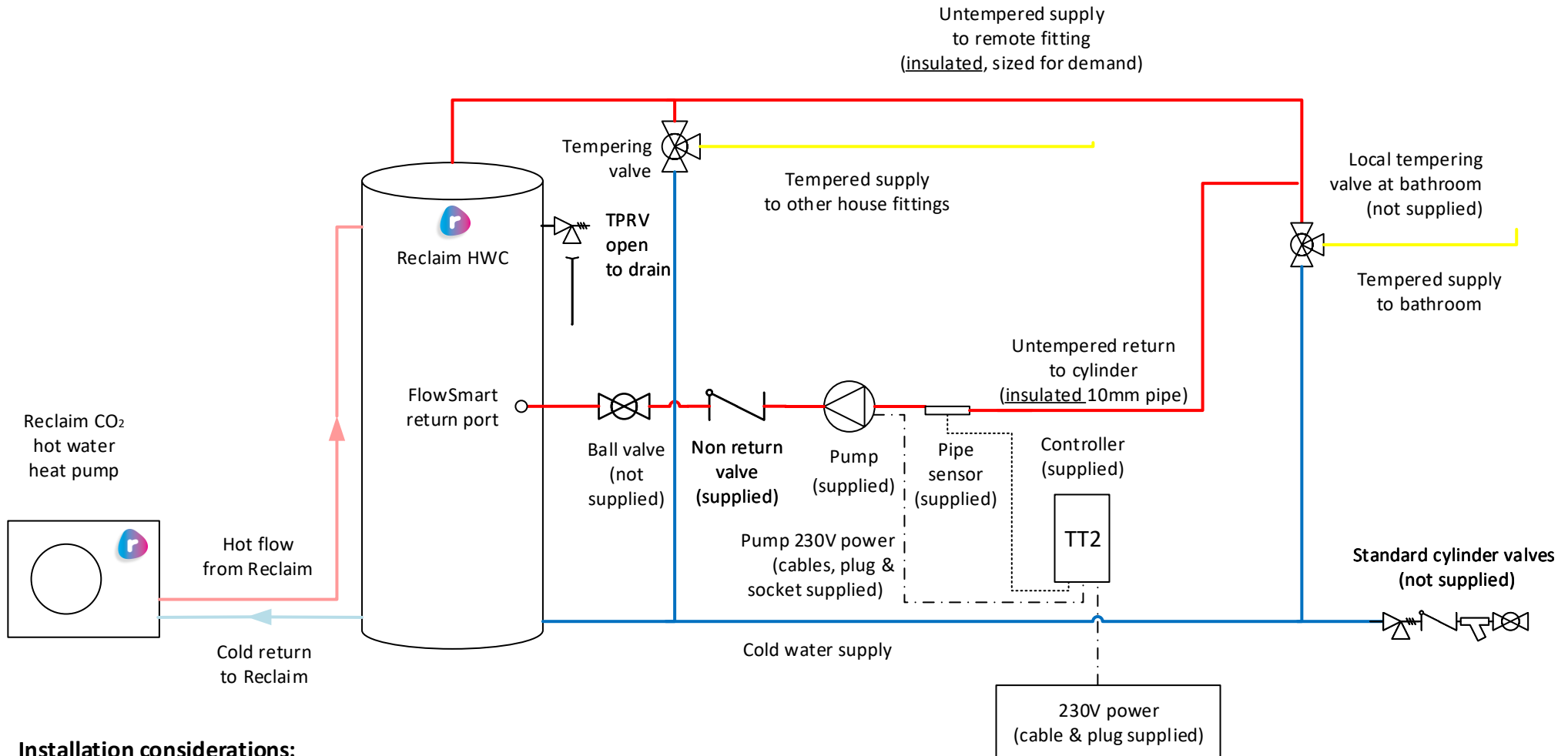
For install with Reclaim CO₂ hot water heat pump cylinder refer to FlowSmart + Reclaim install information.

For all other hot water heat pump cylinders check with manufacturer for recommended return connection port for controlled hot water return system



RECLAIM
ENERGY

Plumbing for FlowSmart + Reclaim CO2 heat pump cylinder



Installation considerations:

Plumber to provide additional tempering valve, ball valve, pipework and any plumbing fittings required
Controller requires standard 230V socket near middle of cylinder
Pipe sensor must be underneath insulation and well secured to pipework

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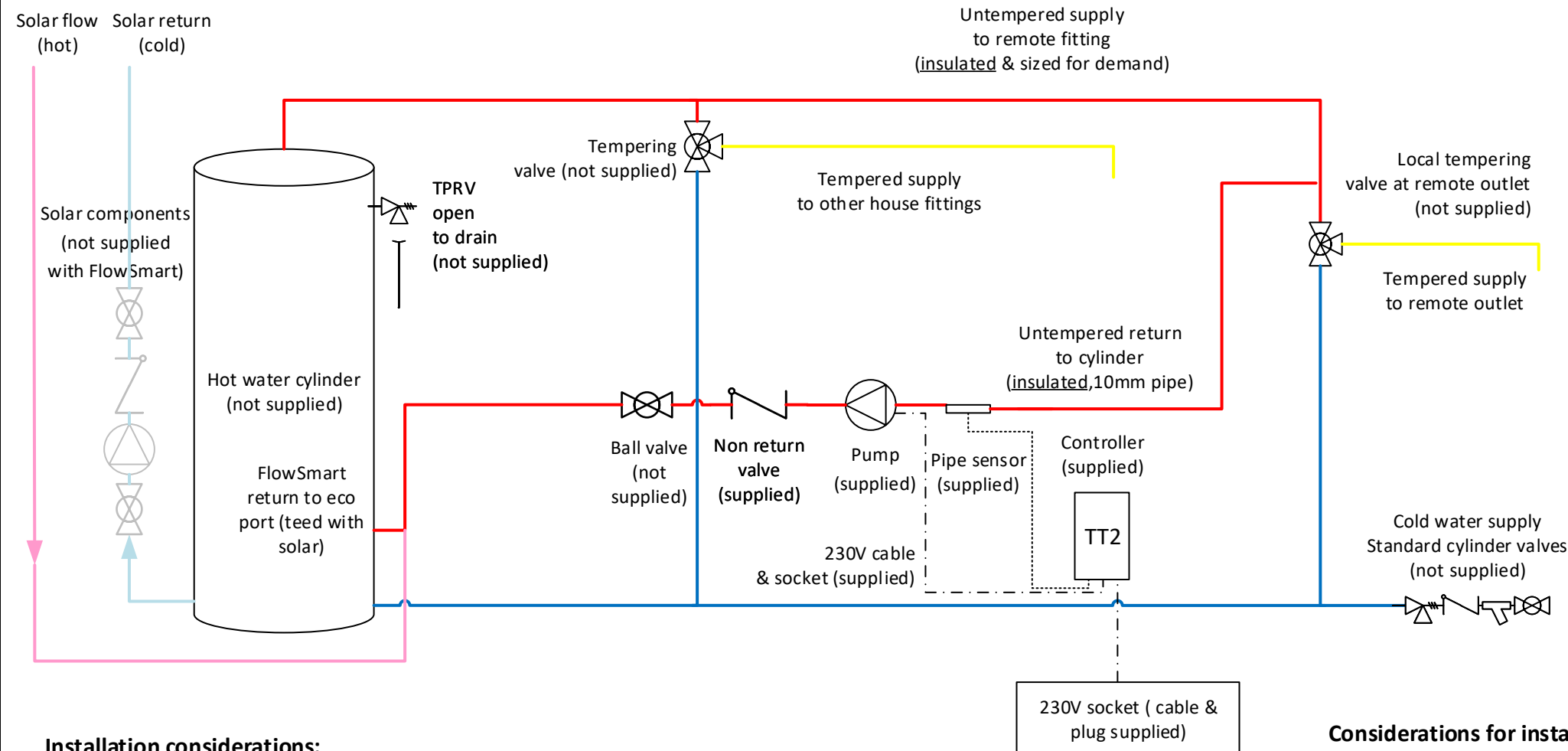
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Installation with Reclaim CO₂ hot water heat pump:

Installation of FlowSmart must be to Reclaim hot water cylinder with dedicated return port for FlowSmart

Plumbing for FlowSmart on standard hot water cylinder



Installation considerations:

Plumber to provide additional tempering valve, ball valve, pipework and any plumbing fittings required
Controller requires standard 230V socket in cylinder cupboard near pump location
Pipe sensor must be underneath insulation and well secured to pipework

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Considerations for install with solar:

Cylinder must have back up heating active to ensure heating to 60°C.
FlowSmart pipe sensor to be installed well away from solar pipework connection to ensure heat does not travel back and affect accuracy
Check with manufacturer for installations with solar brands other than Apricus

Controller logic:

The TT2 is a timer and thermostatic controller.

The ring main return pump will only be switched on if BOTH conditions below are met:

1. It is during one of the time periods set

AND

2. The returning pipework to cylinder is below the pre-set temperature (60°C)

When BOTH conditions are met the controller turns the relay on and the pump circulates water in the pipework back to the cylinder, until the returning water is at 60°C and the pump is turned off.

Once water in the pipe drops below 50°C the pump will turn on again until it reaches 60°C, when it will turn off again.

Outside the time periods set the pump will not be turned on at all.

Programming:

You must set the correct time on the unit. Note it does not automatically adjust for daylight savings.

You must set the times during which the pump will operate. We suggest 2-3 hours in morning and 2-3 hours in evening. Consult with householder on what times they want the pump to be available to run. The shorter the time periods the more economical the system will be, but there will be a greater chance of having a delay to hot water at the tap.

There are three potential time periods for activity. Leaving the controller with same start and stop time voids that time period.

See TT2 manual for more detailed information.

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