

How CircoSense works

CircoSense switches on your circulation pump when required in three distinct operating modes:

1) Look-ahead circulation

The CircoSense system learns and automatically stores hot water usage patterns. After regular daily consumption patterns have been recognised, CircoSense will automatically start hot water circulation in advance of the recognised usage patterns, thereby ensuring water is circulating when required. CircoSense keeps “learning” constantly and continuously adjusts the look-ahead running times to the actual tapping times. If particular usage patterns are abandoned, CircoSense of course “forgets” them again, too.

2) Random request

Should there be a call for hot water outside the normal recognised usage patterns CircoSense will immediately react to this. Our sensors will detect the call for water and will reactivate the circulation pump. Provided the boiler has been left in normal operation (i.e. it has not been turned off by a BMS or other programmed system), then hot water will be circulated immediately and be available after a short time at the outlet.

3) Circulation Cycling

CircoSense has a built-in cycle where if there is no detected usage and no look ahead usage for a period of 24 hours, CircoSense3000 automatically circulates the water until the return temperature is steady at the maximum recorded level. This helps to ensure that HSE guidelines for water circulation are adhered to. This setting of 1 circulation cycle is automatically programmed into the system as a minimum requirement and follows HSE guidelines in this regard. Should the client request, the system can be programmed, either before or after installation, to circulate more frequently if required.

At other times CircoSense keeps the circulation pump in a dormant mode, thus avoiding unnecessary water circulation and associated energy losses.



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