

Service Bulletin AP-04

Models: 2400ES, 2700ES, 715ES, C800ES, C920ES, C920ESC, Evolution 500, Integra 500, 660EF, 660EFO, 830ES, 940ES, 940ESO, C1050ES, C1210ES, C1210ESC

3rd Party Domestic Hot Water Recirculation Systems



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Introduction

- ▶ The following document is to identify tested recirculation systems and provide information on their use and effect on our product range warranty.
- ▶ These systems can limit the wait time for hot water delivery to the tap and consequent waste of water.

System parameters

- ▶ If the recirculation system recirculates directly through the water heater, **it must provide a recirculation flow above 1.7 GPM**. This can be verified in the control unit diagnostics mode, see the installation manual; (mode P4 > 3d) for detailed information.
- ▶ Maximum flow allowed through the recirculation loop is 5 GPM.
- ▶ See bulletin AP-03 for detailed information on systems that recirculate directly through the tankless water heater.
- ▶ See bulletin AP-01 for information on systems that do not directly recirculate through the tankless water heater.

Tankless water heater warranty

- ▶ If the recirculation system is manually or motion sensor activated and recirculates through the water heater, there is no change to the water heater warranty period. Please refer to the water heater installation manual for detailed warranty period information.

System Examples: Taco D'MAND® system and Chilipepper™ system.

- ▶ If the recirculation system is operated by a timer or Aquastat and recirculates directly through the water heater, the warranty period is reduced. Please refer to the water heater installation manual for detailed warranty period information.

System Examples: Pump + timer and/or Aquastat control directly recirculating through the water heater (see bulletin AP-03 Direct Hot Water Recirculation).

- ▶ If the recirculation system is operated by a timer or Aquastat and doesn't recirculate directly through the water heater, the warranty period is not reduced. Please refer to the water heater installation manual for detailed warranty period information.

System Examples: Grundfos Comfort system recirculating through an Ariston mini-tank water heater (see bulletin AP-01 Domestic Hot Water Recirculation).



CAUTION!

Bosch Thermotechnology does not endorse or warrant any specific recirculation system referred to in this document. The purpose of this application bulletin is to give information on the effect of the water heater warranty when it is installed together with a recirculation system.



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