

PLUMBING CONNECTION ACCESSORIES FOR FLOOR STANDING CONDENSING BOILERS SECOND PUMP CONNECTION (90 - 105 - 130 - 160 kW)

The modular system is composed of three kits:

- Cascaded boiler manifolds kit
 - Boiler / manifolds plumbing connection kit
 - Second pump plumbing connection kit (only required on FS160 with Δt less than 15°C)
- } BFS/PCAK
} BFS/PCAK/15

This combination of kits will allow the FS range (90 – 105 - 130 – 160 kW), in both cascade and single installations, to be connected swiftly to a low loss header.

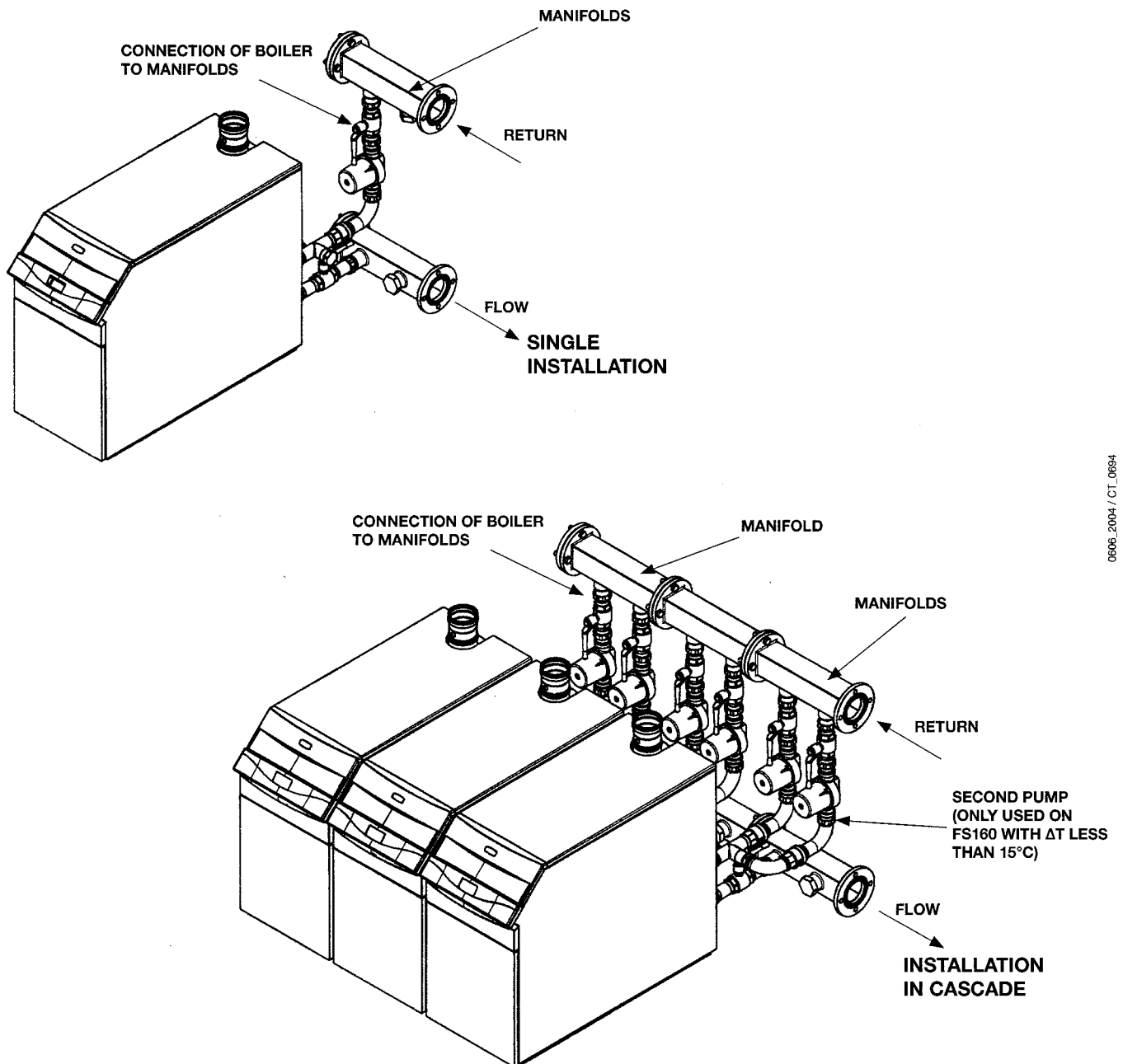


Figure 1: General installation layout

SECOND PUMP PLUMBING CONNECTION KIT FOR FLOOR STANDING CONDENSING BOILERS (90 - 105 - 130 - 160 kW)

FOREWORD

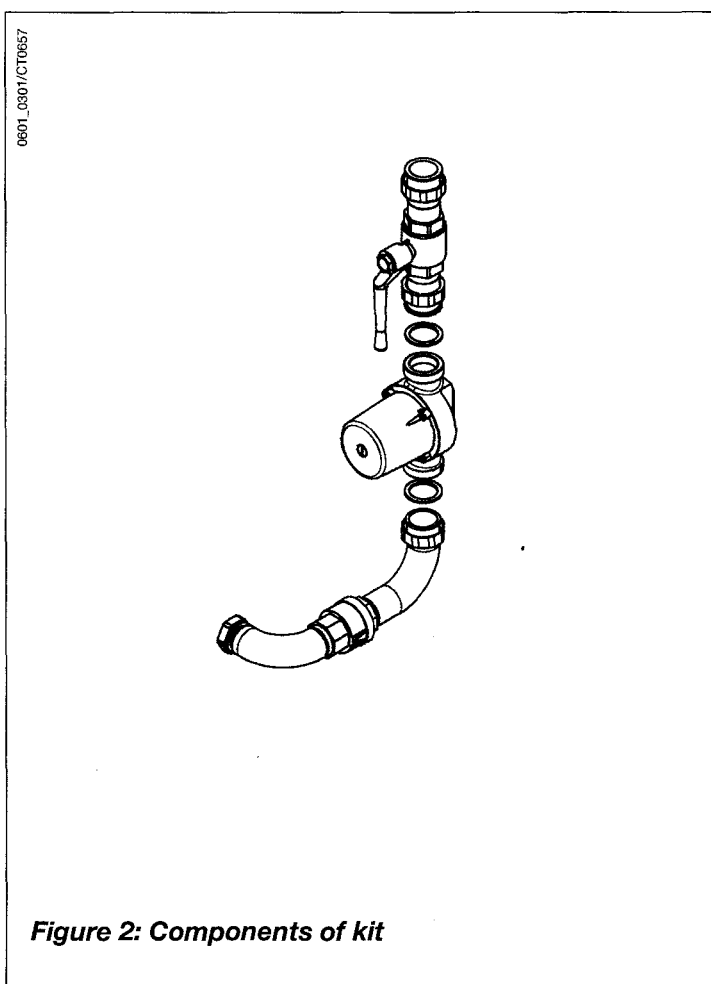
The following instructions provide important information that will ensure faultless installation. Refer also to the instructions supplied with other kits and with the boiler.

DESCRIPTION

Using this kit, a second pump can be connected swiftly in parallel with the pump of the "boiler / manifolds plumbing connection" kit, so as to double the boiler circulation flow rate (dependent on pressure losses in the circuit).

The following components are included:

- Return shut-off valve assembly (two-way)
- Pump
- Non-return valve assembly with double bend
- Seals

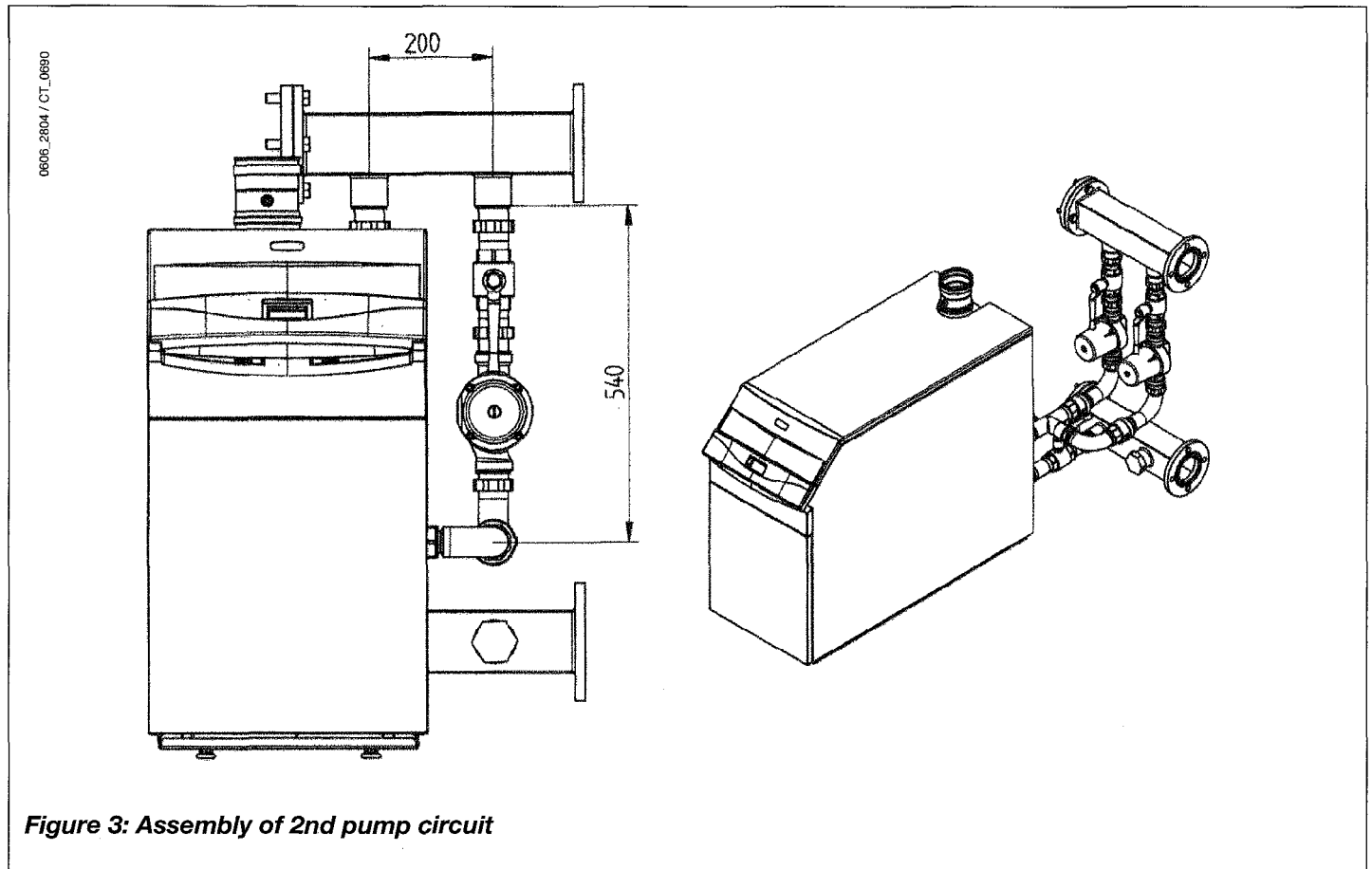


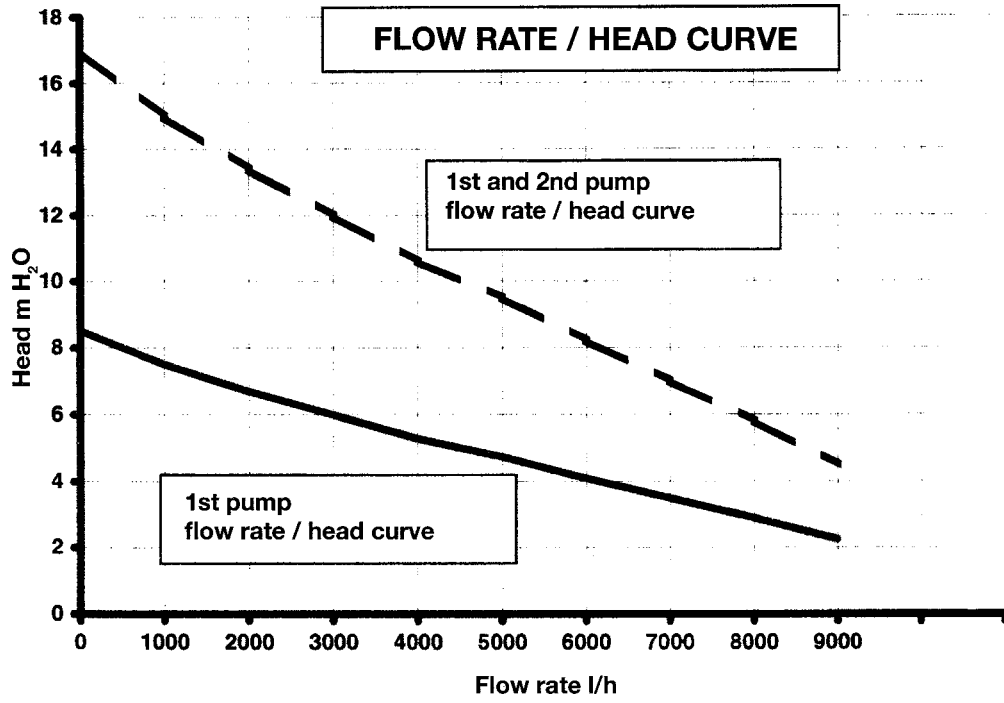
Installations in cascade require a number of kits equivalent to the number of boilers making up the bank.

ASSEMBLY

Proceed to assemble the kit as illustrated in figure 3. Check that the brackets supporting the manifolds are able to take the weight (the pipeline assembly for each boiler weighs 12 kg). Use the second G 2" port on the main manifold and the G 1 1/2" port on the side of the non-return valve assembly of the "boiler / manifolds connection" kit. In this instance the caps provided with the kit are not utilized.

CAUTION: the boiler fittings do not support the weight of external pipe.





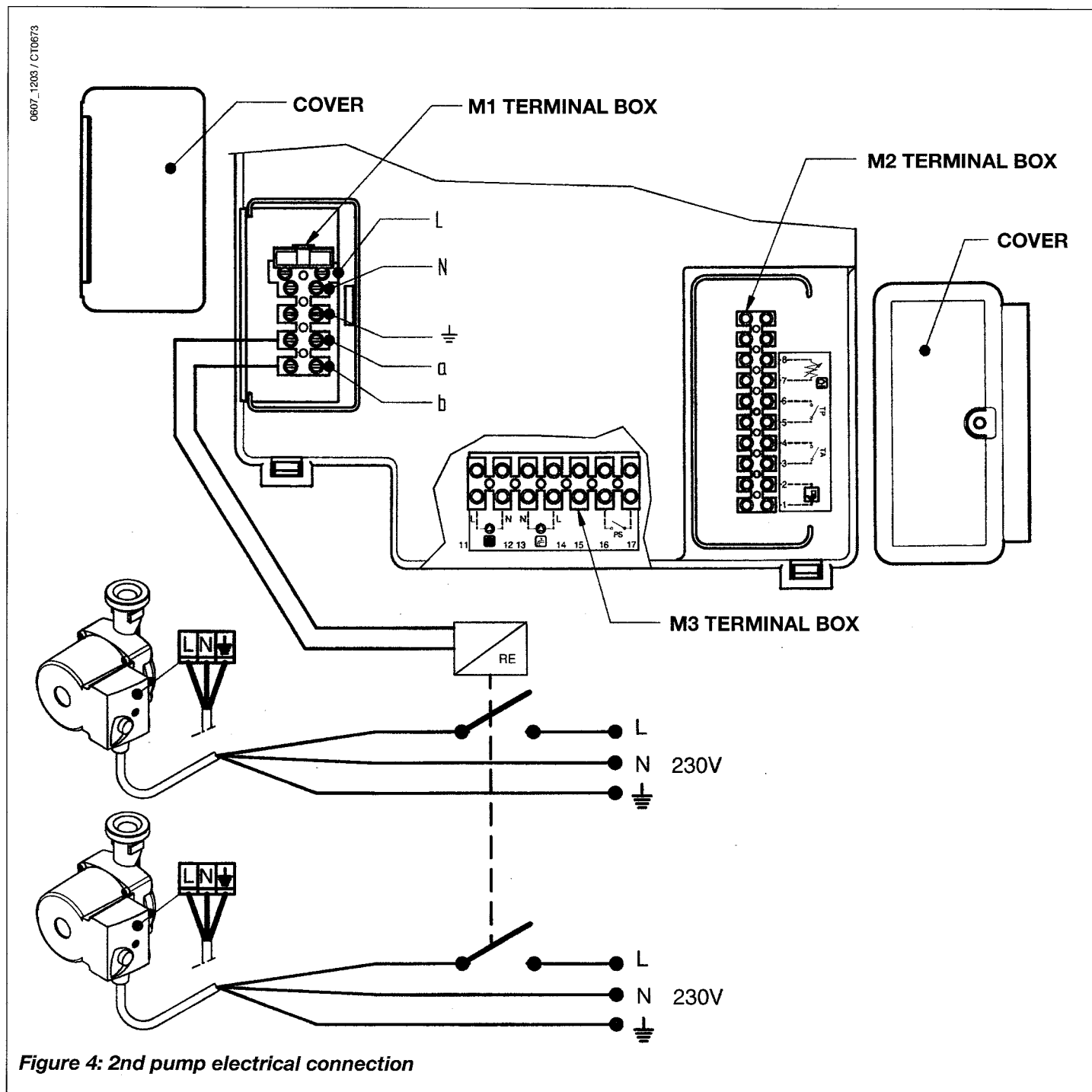
Graph: 1st pump / 1st and 2nd pump flow rate and head

The two pumps serve only to circulate the water between the boiler and the manifolds.

The kit includes a boiler return shut-off valve. This will allow any major repairs or servicing operations to be carried out without draining down the entire heating system.

BOILER PUMP ELECTRICAL CONNECTION

The 2nd pump is powered from one contact of a relay (with two contacts) of which the coil must be connected to terminals (A) – (B) of the boiler terminal box M1, accessed by opening up the instrument panel (see instructions given in the manual accompanying the boiler).



Rated power pump supply 100 W (1,1 Amp).