Buderus

Assembly Instructions for Pipe Connection (Quick Connect)

»Logana« 105 with TT150 Buderus cast-iron heating boilers with low-level hot water calorifier TT 150 (40 gal)

1. Delivery

Boiler block c/w pre-assembled boiler casing.

Pre-assembled domestic hot water calorifier.

Complete pipe connection.

2. Dimension and connections (Fig. 1 and 3)

»Logana« 105 with TT150

Boiler size	Approx. weight in kg	Ø AA inches *)	L_K inches *)	H_A inches *)
15	210	5⅛	15½	46½
21	243	5⅛	20³⁄₁₆	46½
28	276	5⅛	24⅞	46½

*) for dimensions see reverse

Legend:

RSL/EL = Safety return
VK = Boiler flow
RK = Boiler return
VS = Calorifier flow (Heating medium)
RS = Calorifier return (Heating medium)
AB = Domestic hot water outlet
EK = Cold water inlet and drain connection
EZ = Circulation inlet
EL = Boiler filling and draining connection

3. Positioning

The boiler should be positioned in a room protected from frost.

The floor should be level and capable of carrying the necessary load.

Position calorifier so that it is level in all direction.

Observe minimum clearances as given in fig. 2, for maintenance and cleaning purposes.

Rear view

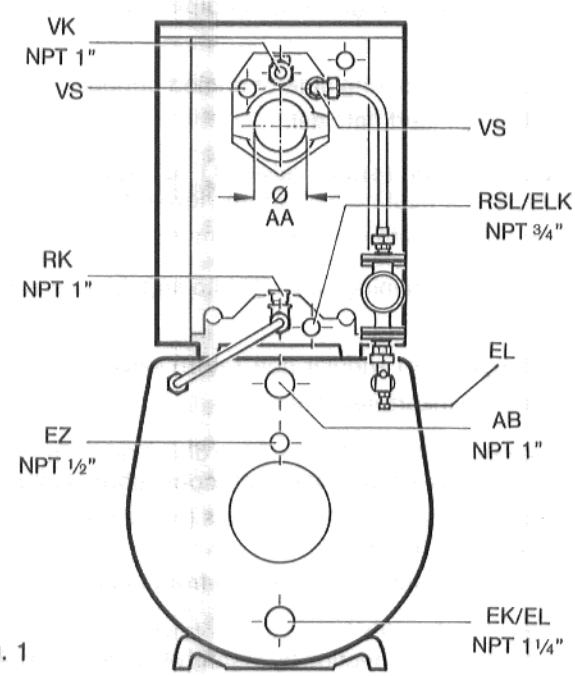

Fig. 1

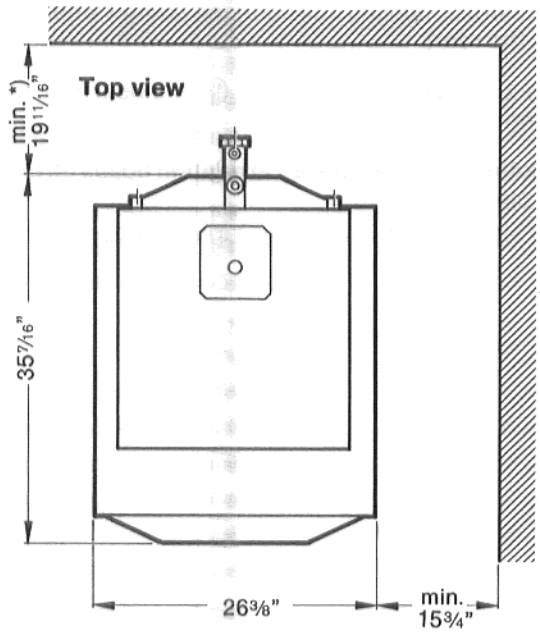

Fig. 2

*) min. clearance from wall = 27⁹⁄₁₆",
where supplied with flue gas silencer.

4. Assembly (Fig. 3 and 4)

Place boiler block on top of calorifier in such a way that the angle bars screwed to the boiler feet in the factory are in contact with the two U-sections of the support plate.

The boiler rear panel must project by approx. 10 mm above the rear calorifier insulation (Fig. 3).

Seal **brass elbow union** ① into the outflow of the heating medium flow on the rear boiler section.

The outflow of the elbow union must point to the right when viewed from the rear.

Screw **calorifier charging pump** ⑥ to angular non-return valve.

Remember to place flat seal into union.

The pump must discharge in the direction of the angular non-return valve (see arrow on impeller housing).

Screw short side of **angled copper pipe** ④ to brass elbow union.

Screw **flange** ③ to long side of angled copper pipe.

Remember to insert flat seal.

Seal **angular non-return valve** ④ to righthand connection pipe of heating coil, when viewed from the rear.

The free outflow with coupling nut must point upwards.

Seal **filling and draining valve** ⑤ into angular non-return valve from below.

Screw **flange** ⑥ to angular non-return valve.

Remember to insert flat seal.

Place **pump** ⑦ with discharge in the direction of the angular non-return valve between both connection flanges.

Remember to insert and screw seals (pump is not contained in scope of delivery).

Remove brass return feed-in piece from boiler return.

Seal **pipe nipple** with integrated retarding disk ⑧ and complete return connection by means of loctite into boiler return.

Seal **1" brass nipple** ⑪ into tee from the rear.

Seal **inside / outside nipple** ⑫ onto heating medium return of calorifier heating coil (lefthand outflow when viewed from the rear).

Using the **U-shaped copper pipe** ⑬ connect the two return connections.

Pull the slotted side of enclosed **insulation hoses** ⑭ over calorifier piping.

Close the slot using the adhesive tape provided.

5. Filling instructions

The VS and RS connections to the heating system and to the expansion vessel must be open, the non-return valve closed. The ½" vent pipe at the non-return valve must be also be open.

The heating system is filled via the boiler filling and draining connection on the boiler (KFE connection).

The vent pipe on the non-return valve must be closed as soon as water emerges, thereafter filling should be continued.

As soon as the heating coil and boiler are full, the calorifier charging pump may be switched on; this ensures removal of any residual air from the calorifier heating coil.

For **care and maintenance** of calorifier see separate "Domestic hot water calorifier TT 150" maintenance instructions.

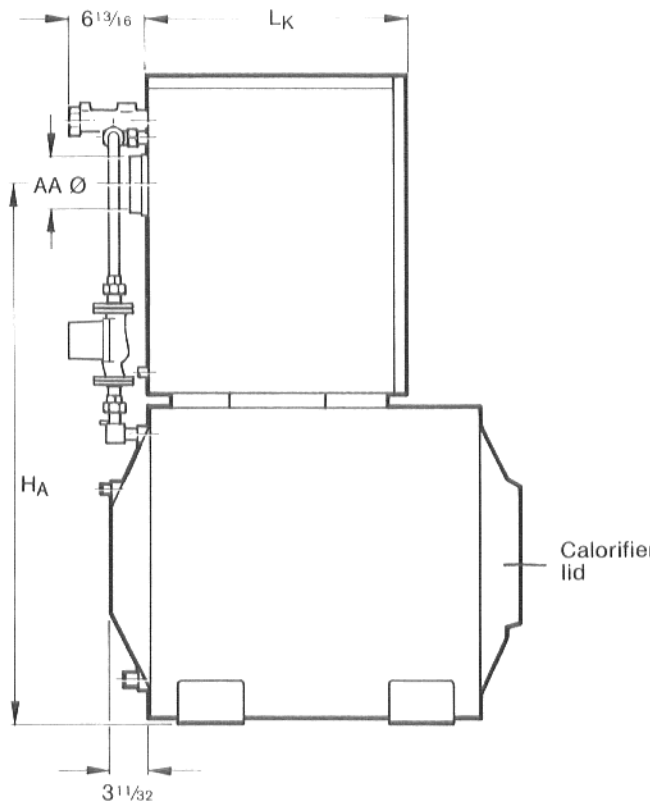

Fig. 3