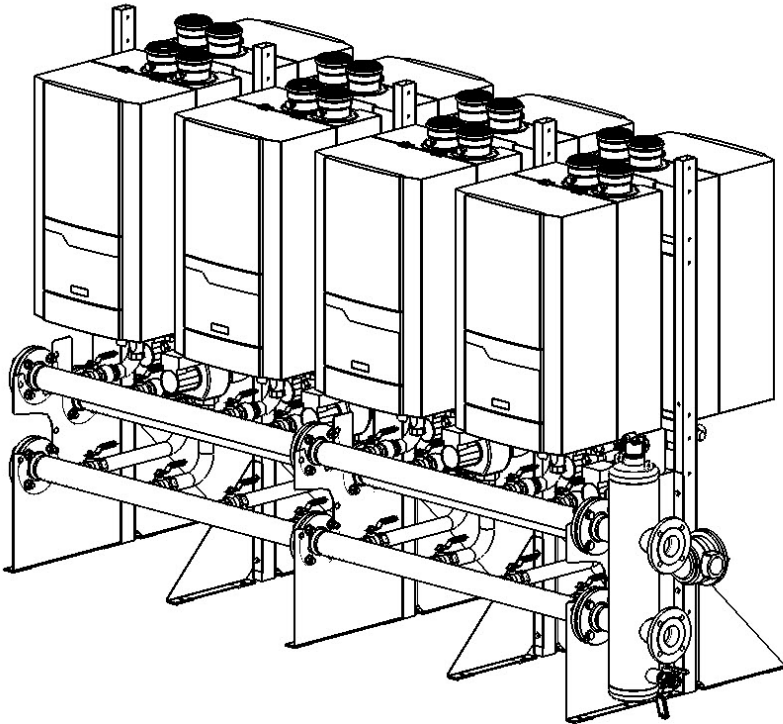
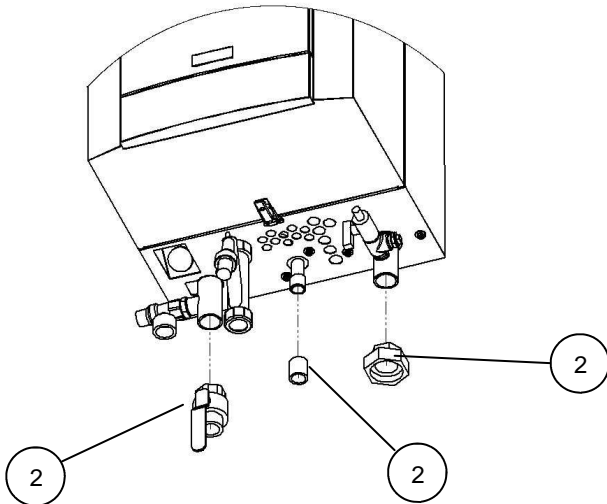


CASCADE SYSTEMS
Assembly instructions



Assembly instructions



- 1 Tighten hand tight
- 2 Tighten hand tight, then tighten $\frac{3}{4}$ turn more.

General remarks:

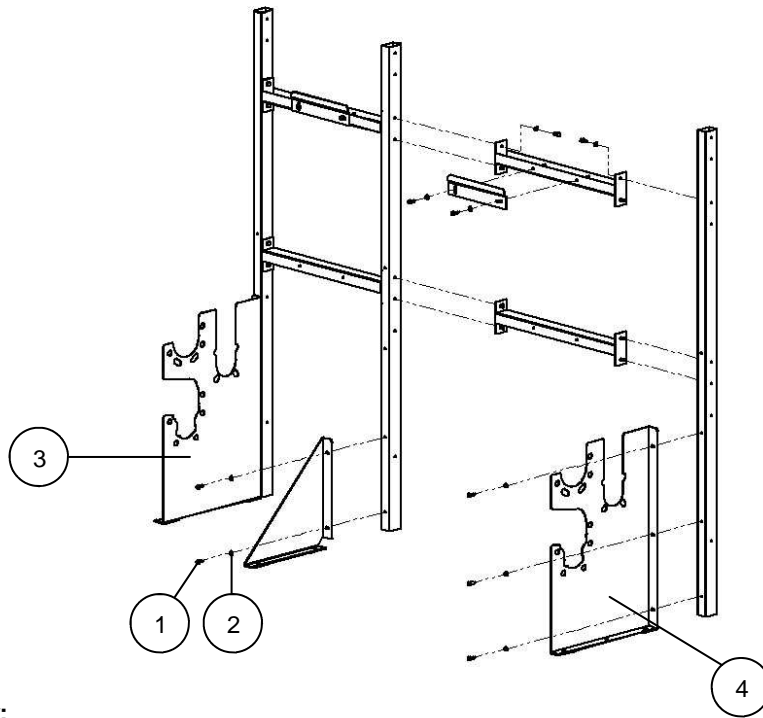
Preferably approved sealing material should be used.

Pressure testing:

After assembling the boilers and the cascade systems, a pressure test will visualise if the system is not leaking any water. To perform the test on the system, the flow and return connections must be blanked off.

Apply a cold water pressure of 1.3 x working pressure.

Assembly instruction 1 Frame

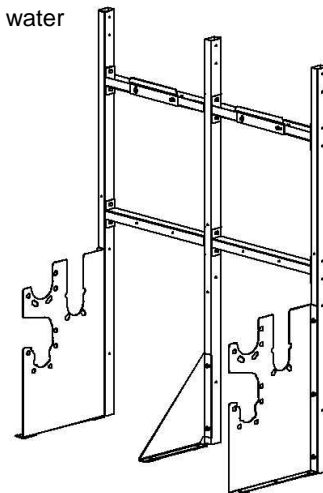


Frame assembly:

Place the frame on a clean and level surface.

All parts are assembled and fastened with M8 hexagonal bolts (1) and M 8 washers(2) .

The plates (3) and (4) are also acting as mounting plates for the flow and return water pipes, as well as the gas pipe.

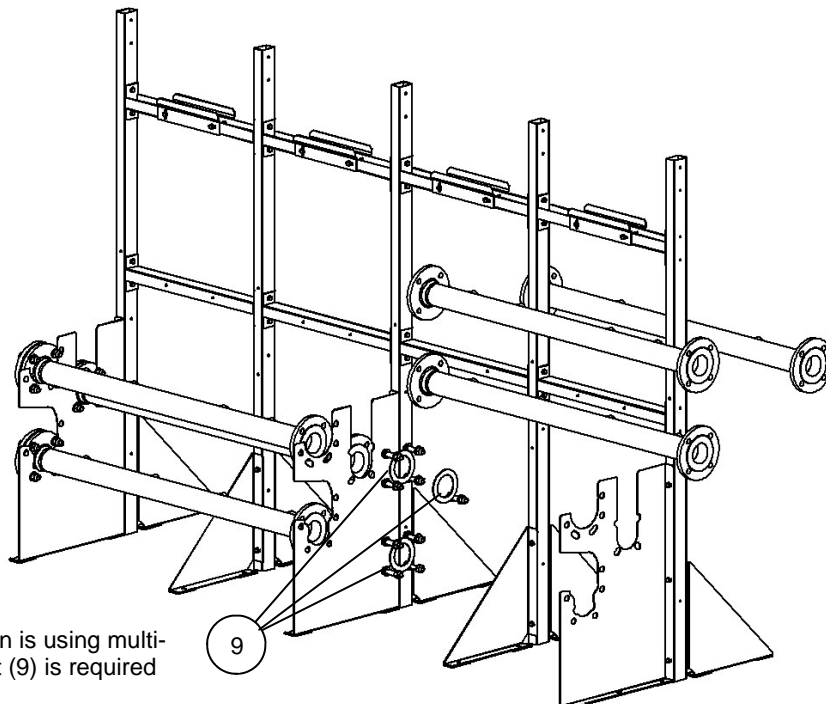
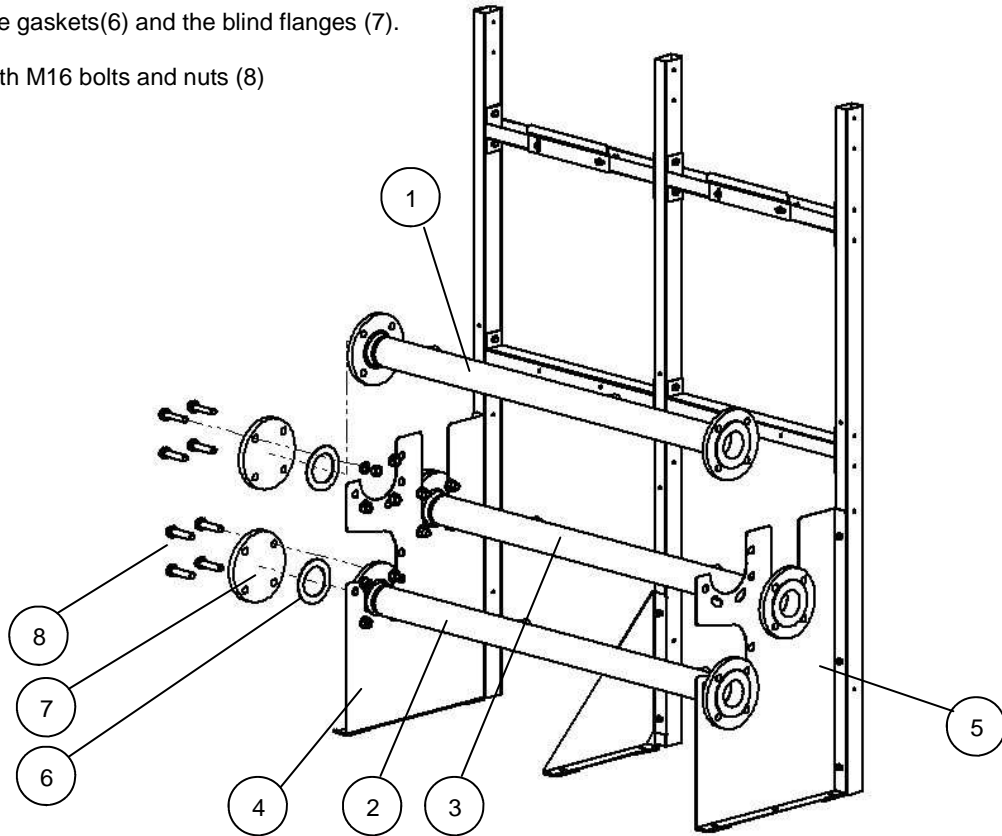


Assembly instruction 2 Pipes

Place the flow (1) and return (2) water pipes, as well as the gas pipe (3) on the mounting plates (4 and 5).

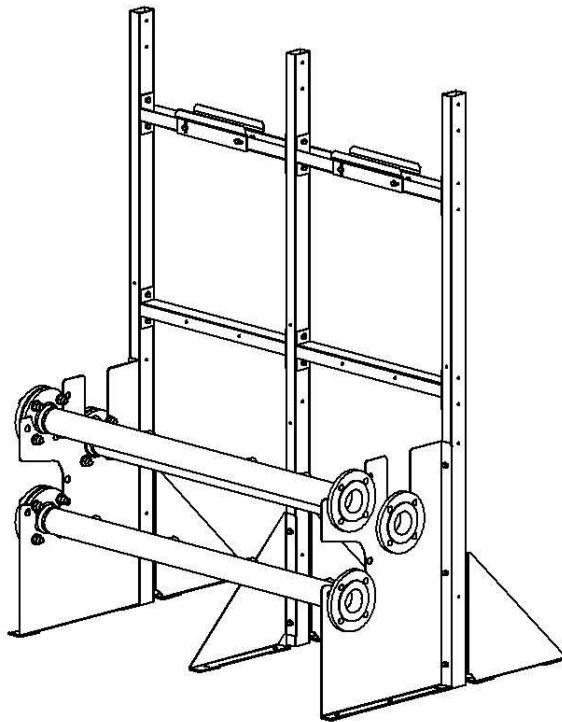
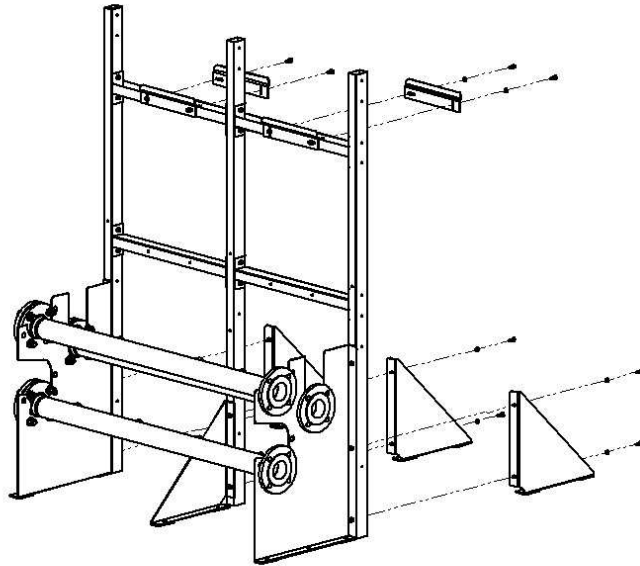
Place the gaskets(6) and the blind flanges (7).

Bolt it with M16 bolts and nuts (8)

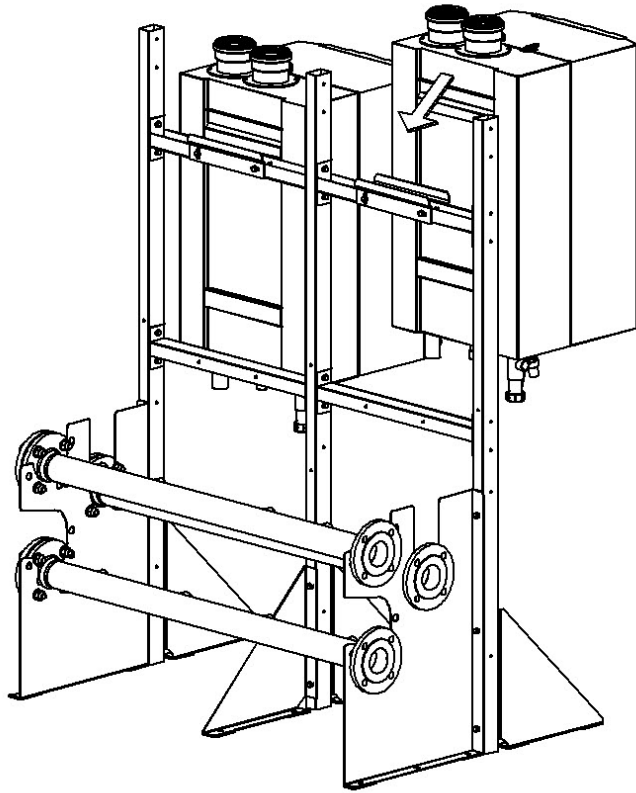


When a different configuration is using multiple pipe sets, a coupling set (9) is required

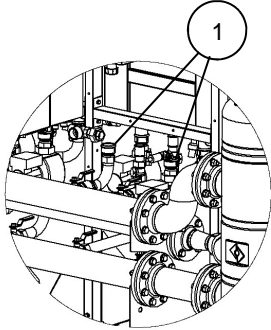
Assembly instruction 3 Frame



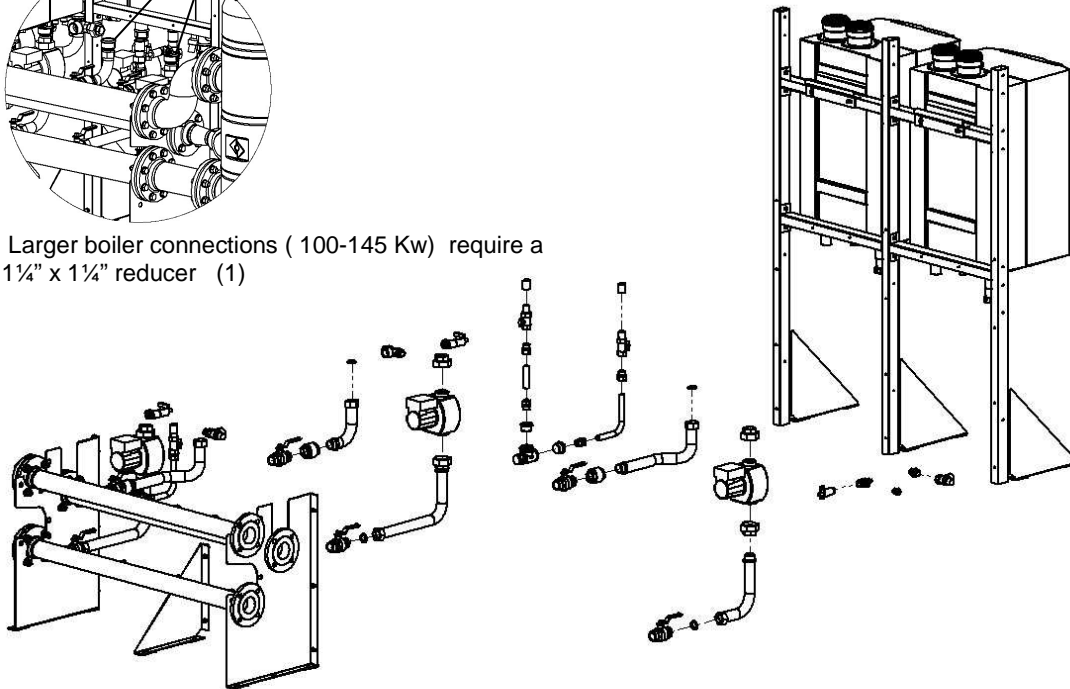
Assembly instruction 4 Back to back boilers



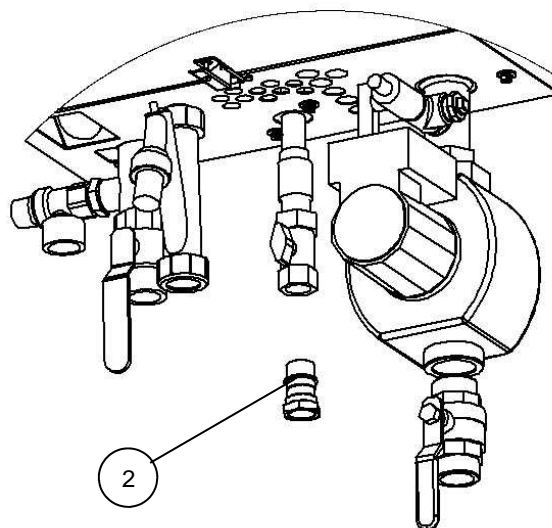
Assembly instruction 5 Water and gas connections



Larger boiler connections (100-145 Kw) require a 1¼" x 1¼" reducer (1)

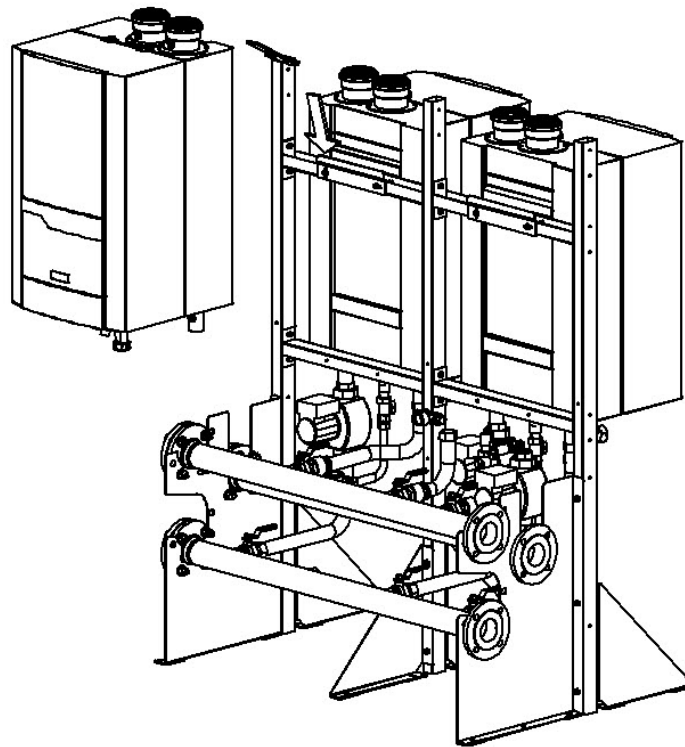


Germany only !!
TAS gas connection

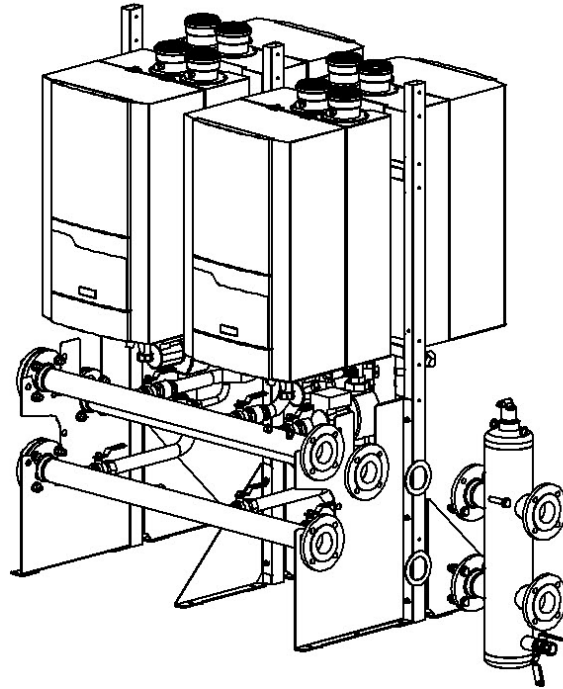


For installation in Germany, a TAS device 2) is required

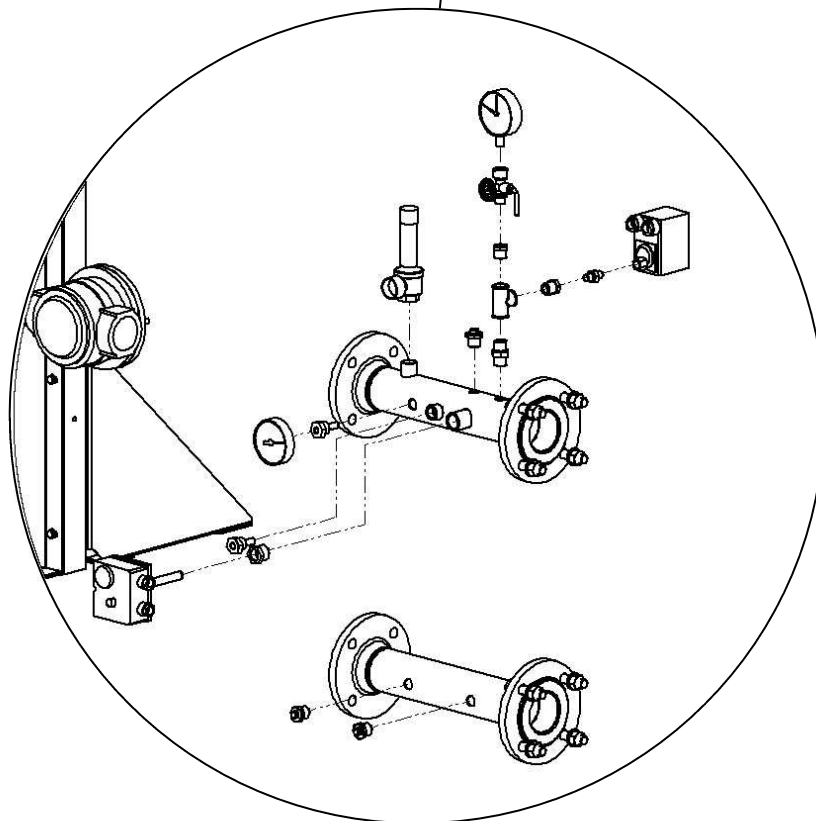
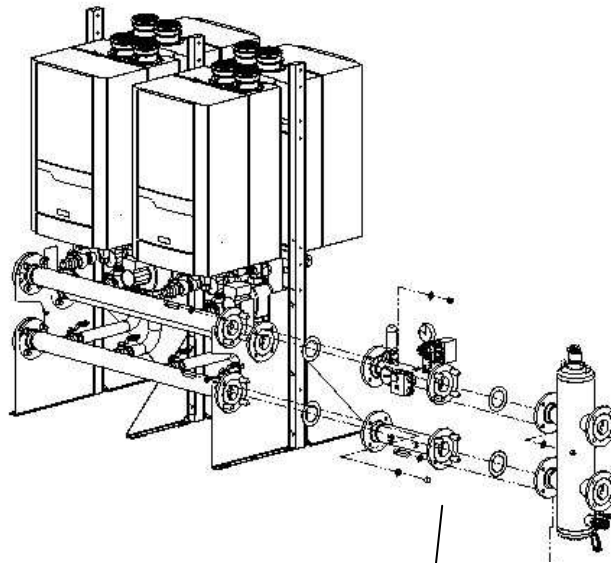
Assembly instruction 6 Front boilers



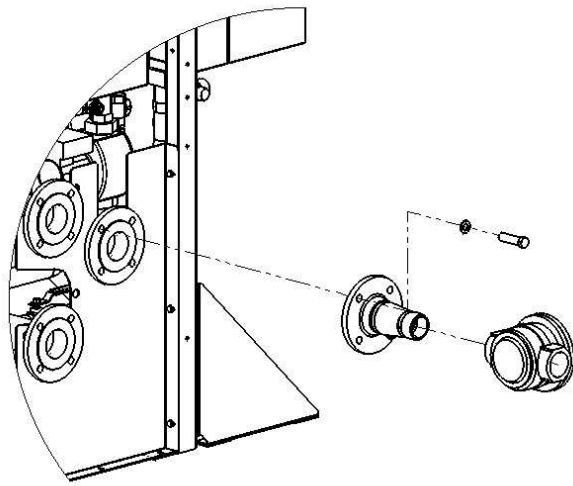
Assembly instruction 7 Hydraulic header



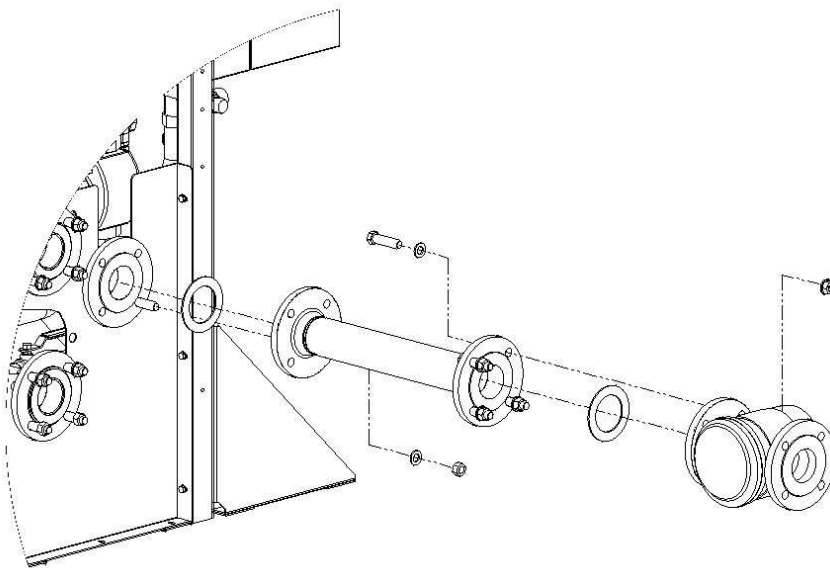
Assembly instruction 8
ISPESL
Hydraulic header



Assembly instruction 9
Gas filter

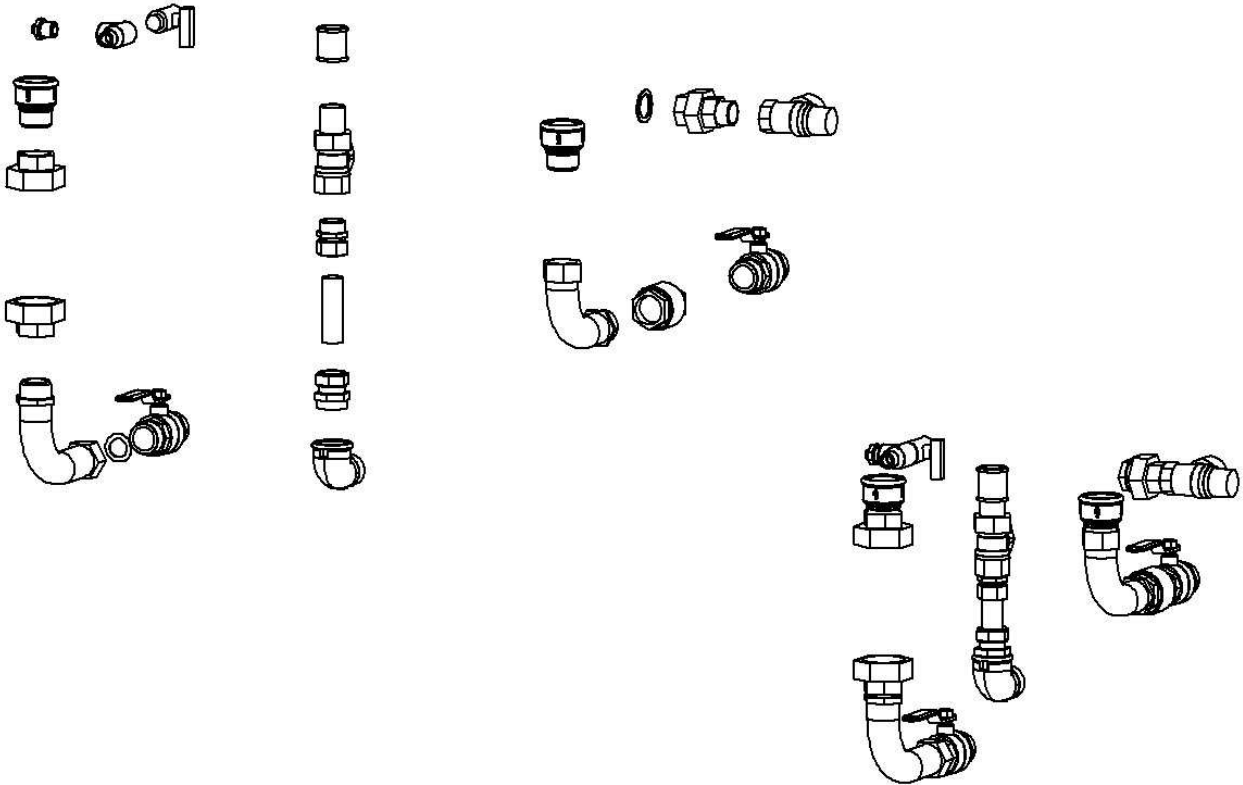


DN 65



DN 100

Assembly instruction 10



When connecting the connection sets to the water pipes, proceed as follows:

Return

- 1 Install the pump to the return of the boiler.
- 2 Install the ball valve to the return pipe.
- 3 If the flex pipe is not already bent, bent it.
- 4 install the flex pipe.

Flow

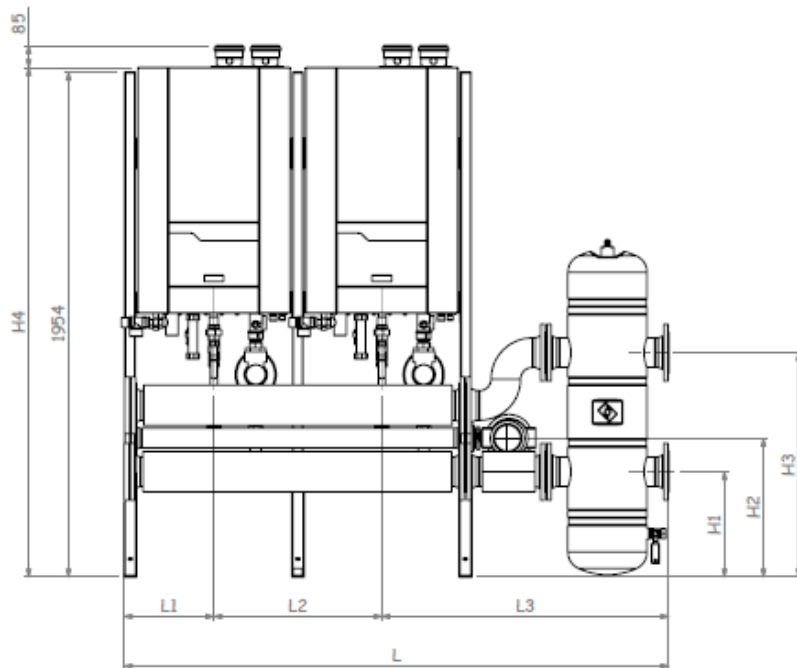
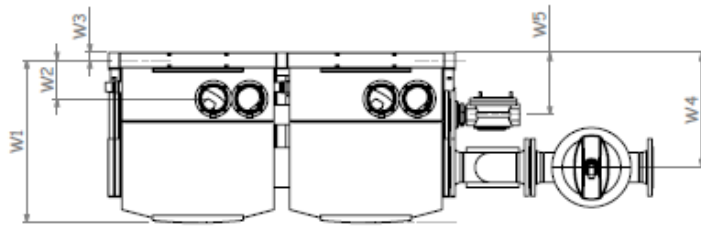
- 1 Install the ball valve to the flow pipe.
- 2 If the flex pipe is not already bent, bent it.
- 3 install the flex pipe.

Larger boiler connections (100-145 Kw) require a 1¼" x 1¼" reducer

Dimensions

DN100

# Boilers		4	5	6	7	8
W1	mm	488* 531**	488* 531**	488* 531**	488* 531**	488* 531**
W2	mm	149	149	149	149	149
W3	mm	30	30	30	30	30
W4	mm	445	445	445	445	445
W5	mm	241	241	241	241	241
L	mm	3407	4057	4707	5357	6007
L1	mm	346	346	346	346	346
L2	mm	1950	2600	3250	3900	4550
L3	mm	1111	1111	1111	1111	1111
H1	mm	408	408	408	408	408
H2	mm	537,5	537,5	537,5	537,5	537,5
H3	mm	686	686	686	686	686
H4	mm	1831* 1971*	1831* 1971*	1831* 1971*	1831* 1971*	1831* 1971*



Service:

THISION L

ELCO GmbH

D - 64546 Mörfelden-Walldorf

ELCO Austria GmbH

A - 2544 Leobersdorf

ELCOTHERM AG

CH - 7324 Vilters

ELCO Netherlands / Rendamax B.V.

NL - 6465 AG Kerkrade

ELCO Belgium n.v./s.a.

B - 1731 Zellik

ELCO Italia S.p.A.

I - 31023 Resana

