

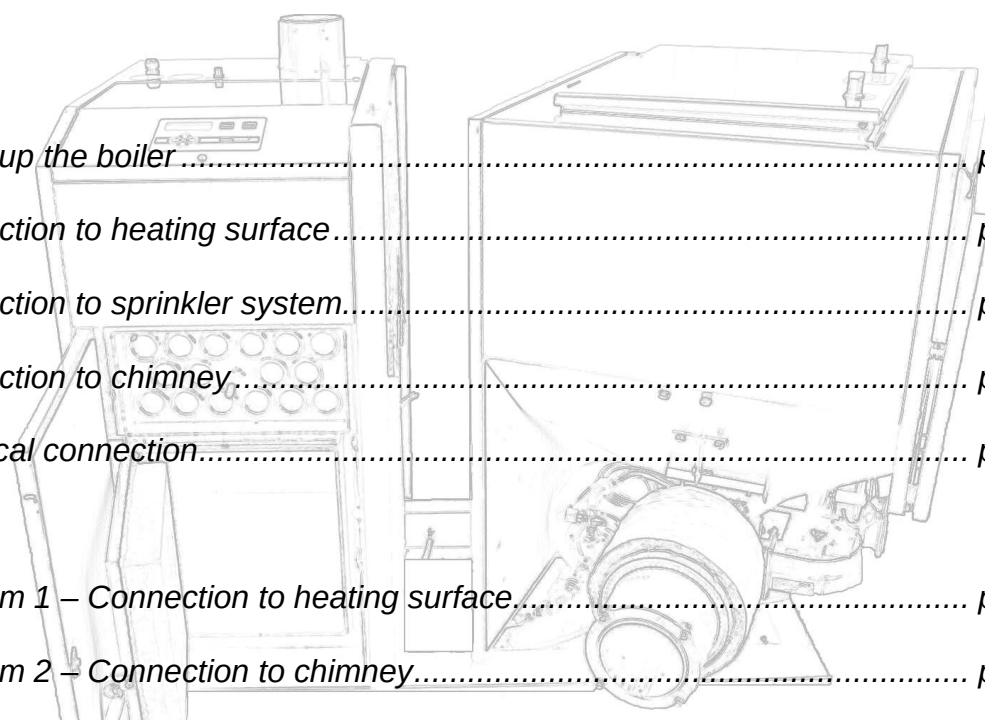
MANUAL FOR INSTALLATION

Cpi 12

Version 2.4 – march 2015

This manual should be read carefully before the installation commences!

Boiler must be installed according to national and/or local rules and regulations, which may vary from what is specified in this manual!



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TWINHEAT®

Lining up the boiler

NOTICE: the minimum distances in the “boiler room” must be respected, in order to operate the fuel store as intended.

The boiler is delivered on a pallet, ready for installation.

The pallet with boiler is to be placed in the boiler room by means of a forklift, truck, ore the like. When the boiler is placed in the boiler room, on the floor, it must be blocked up to horizontal level. (Use a spirit level!)

The figure shows the minimum distances (in mm.) that must be obtained in the boiler room, in order to operate the fuel store as intended.

The boiler room must have an air inlet!

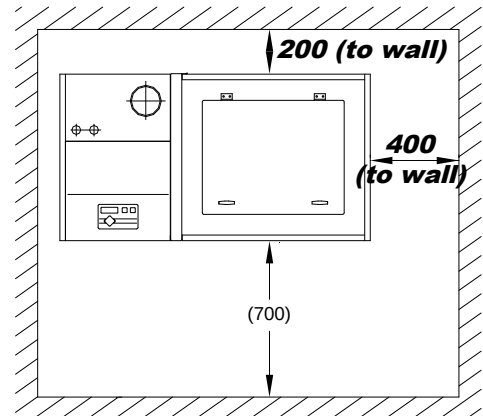


Fig: Boiler room seen from above

Connection to heating surface

See diagram 1

The water returning to the boiler must always have a temperature of **at least 60°C**. If not respected, corrosion of the steel in the boiler will increase, and the life expectations will be reduced.

The boiler can be connected to a closed expansion vessel, as well as to an open expansion vessel, however it is recommended to connect to a closed.

Connection to sprinkler system

See diagram 1

The sprinkler system on the boiler must be connected to constant water supply G $\frac{1}{2}$ ", through a shutoff valve. The connection piece is to be found at the backside base.

Make sure that the supply pipe/hose is free of dirt or the like!

When the system is connected and the water supply is open, it has to be tested. Disconnect the hose to the auger channel and test the sprinkler valve by pressing the red hood, at button of the valve.

After testing the sprinkler system, it is important to check that the valve is closing properly! (Dirt or the like, in the valve seat, can prevent this)

Connection to chimney

See diagram 2

The flue pipe must be insulated with a 50 mm fire resistant mat, to avoid that the flue gasses are condensing in it.

There must be mounted a draught stabilizer on the flue pipe, or directly in the chimney. The draught stabilizer is to be adjusted to 10 Pa.
(See diagram 2)

Recommended chimney dimensions

Internal diameter chimney	Height chimney
App. Ø130mm	4-6 metre above boiler

Electrical connection

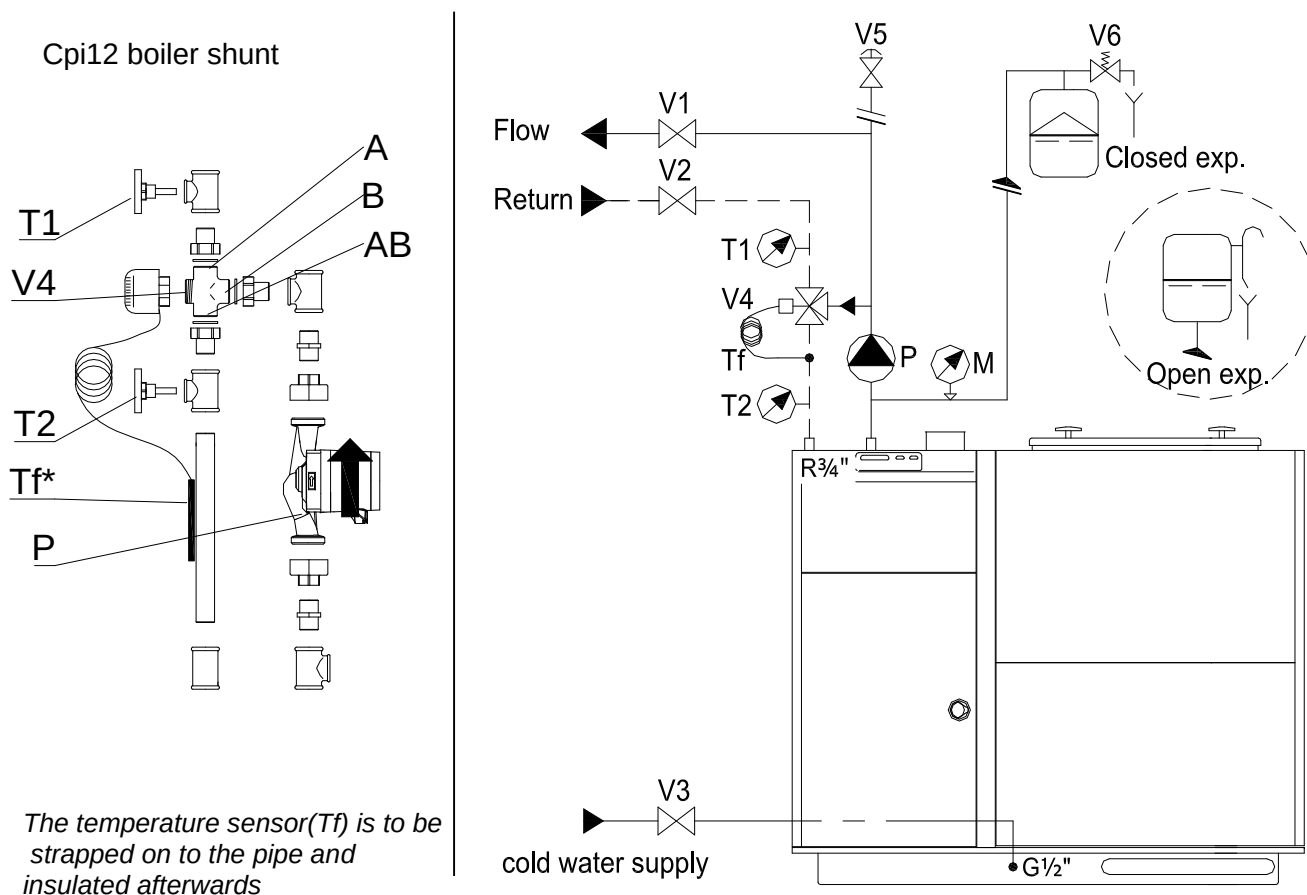
See diagram 3 / 3.1

The connection must have its own separate electrical switch!

The boiler can be built for either 400V 3 phase or 230V single phase connection.

Check boiler data plate for electrical connection.

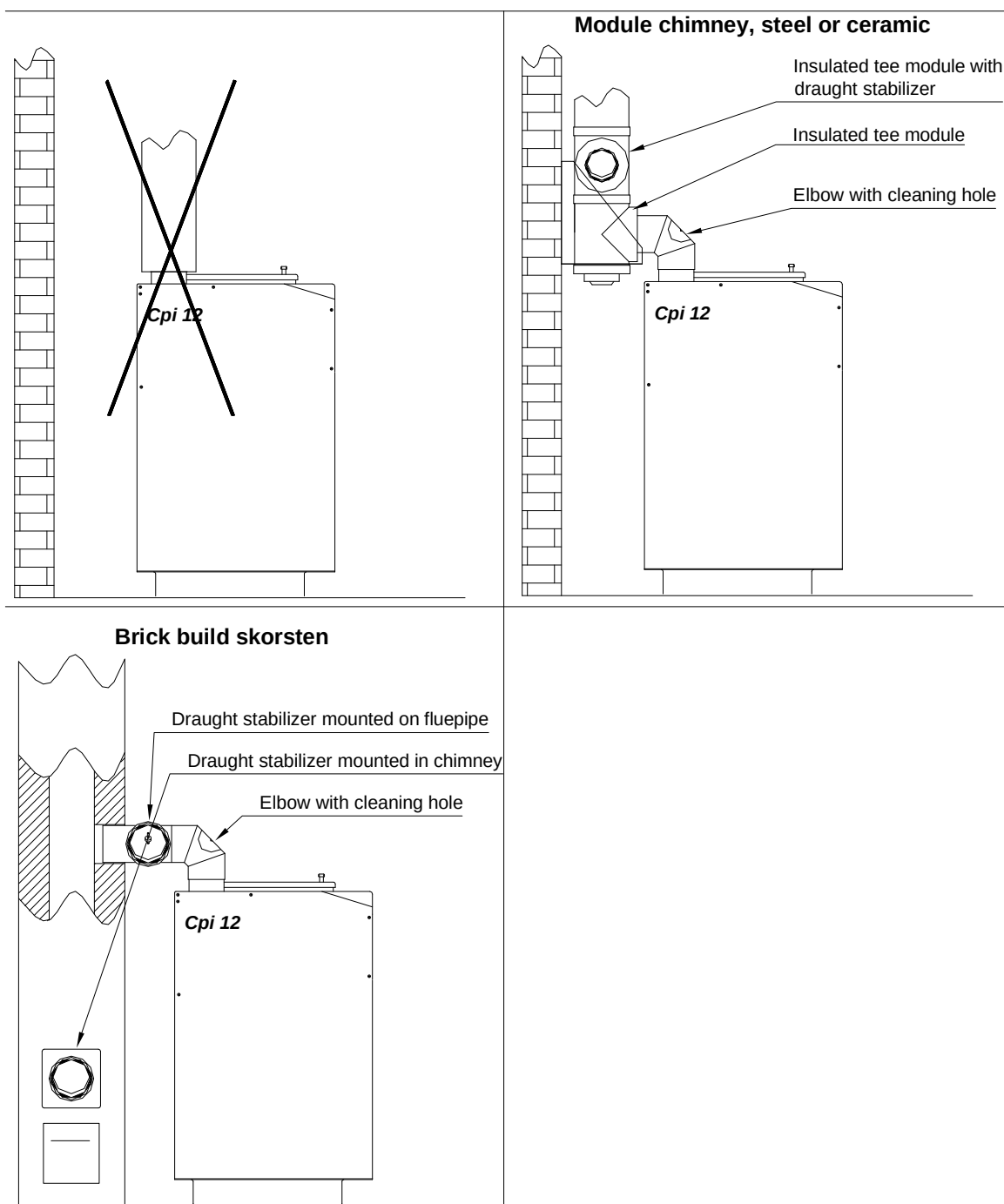
Diagram 1 - Connection to heating surface



	Shutoff valve	V1-V3	Shutoff valve at: supply, return and supply cold water
	3-ways thermostatic mixing valve (shunt)	V4	The "shunt" is to provide a stable minimum temperature of the return water, to the boiler (60°C)
	Air relief	V5	Placed where needed
	Safety valve 2,5 bar	V6	
	Thermometer	T1-T2	
	Temperature sensor	Tf	For regulating the mixing valve
	Manometer	M1	Manometer for boiler pressure
	Pump	P	Circulating pump

Diagram 2 – Connection to chimney

Prefabricated module chimneys are not to be placed on top of the flue outlet, as this allows rainwater and condense to run directly down into the boiler, where it will cause corrosion !



[illegible]

