

1.4 – APPLICATIONS / DESCRIPTION

Parker TC steel boilers are triple flue pass, condensing boilers for installation in a boiler room. While they are designed primarily for central heating purposes, in conjunction with a suitable storage cylinder they can also be used to produce domestic hot water.

All parts that come into contact with the combustion gases are made from titanium stabilized stainless steel to ensure maximum resistance to the corrosive action of acid condensation.

The boiler has been designed with the combustion chamber at the top and the smooth pipe tube bundle at the bottom to optimize heat exchange and energy efficiency and to maximize the condensing effect.

The boiler has a high total water content which is differentially distributed between its top and bottom sections. This allows outgoing water to reach the set temperature quickly while maintaining the condensing effect and the water heating time around

the tube bundle for as long as possible.

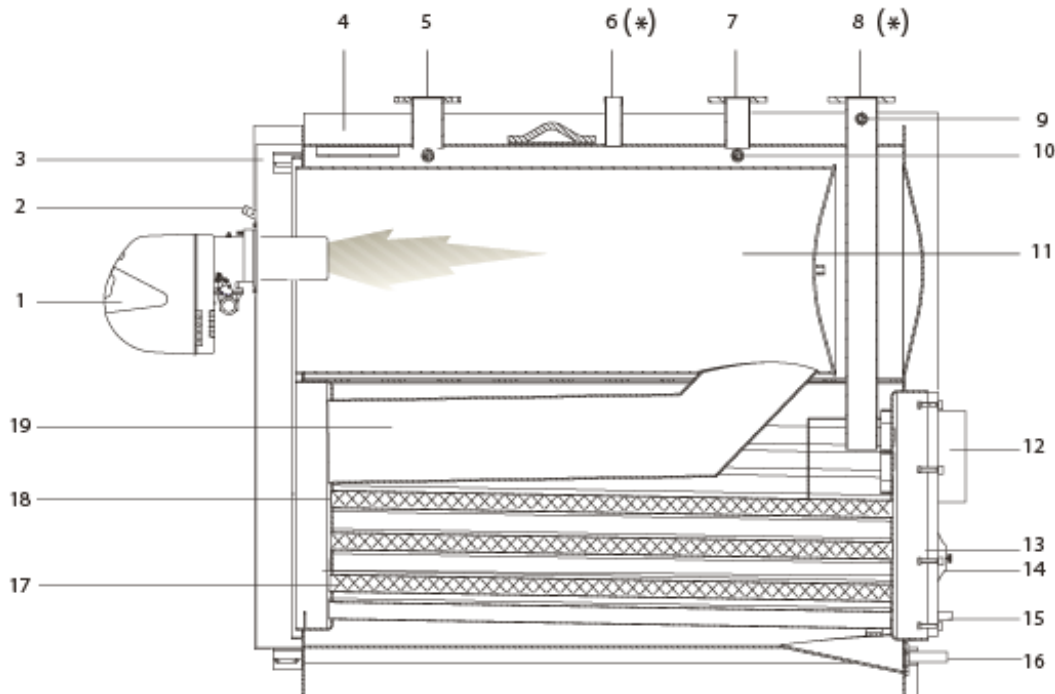
TC boilers feature lightly pressurized combustion chambers for a smooth burner action, and high temperature resistant, stainless steel turbulators inside the tube bundle provide maximum burner efficiency.

The boiler body is thoroughly insulated with a layer of high density glass wool.

The paint finished external paneling is also internally insulated with a layer of high density glass wool.

The boiler's front door and the flue gas chamber can be opened completely to facilitate the inspection, maintenance and cleaning of internal parts and to speed up servicing in general.

The front door can open in either direction and can be opened without removing the burner. The door is factory fitted with hinges on the right, but these can be reversed if necessary to suit individual installations.



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| 1 – Burner | 10 – Instrument bulb/probe socket |
| 2 – Flame inspection window with pressure measurement point | 11 – Combustion chamber |
| 3 – Door | 12 – Flue connection |
| 4 – Paneling | 13 – Flue gas box |
| 5 – Hot water outlet | 14 – Inspection door |
| 6 – Safety relief opening | 15 – Condensate drain |
| 7 – Heating return (high temperature) | 16 – Boiler drain |
| 8 – Heating return (low temperature) | 17 – Turbulators |
| 9 – Blind Plug | 18 – Flue pipes |
| | 19 – Second flue pass |

(*) On the THC 1450, the low temperature heating return (8) is located at the rear of the boiler and the safety fitting (6) is flanged.