

Unical

RECAL

ANTICONDENSING DRY
COMBUSTION CHAMBER



RECAL



- **Warm water steel boiler for temperature up to 95°C**
- **Total radiation, dry, anti-condensate combustion chamber**
- **Hinged door with reversible opening**
- **Gas/oil operation**
- **Output from 21 to 70 kW**

Steel boiler for pressure jet gas/oil burner

Reversed flame boiler range for pressure jet burners, suitable for small/middle size installations, where the traditional sturdiness and duration of the steel are favoured.

Dry combustion chamber with anti-condensate patent

The combustion chamber walls that lean out to the flame are not directly cooled by the water because covered by a series of triangular fins, welded

to each other and to the furnace cylinder so that to form a dry combustion chamber. This improves notably the combustion in comparison to that one obtained in the wet combustion chamber, reducing the fouling of the heat exchange surfaces and the risks of acidic condensate formation, responsible of the corrosion. The bottom of the combustion chamber, constituted by a refractory concrete casting, contributes to complete the raising of the combustion temperature, improving it.

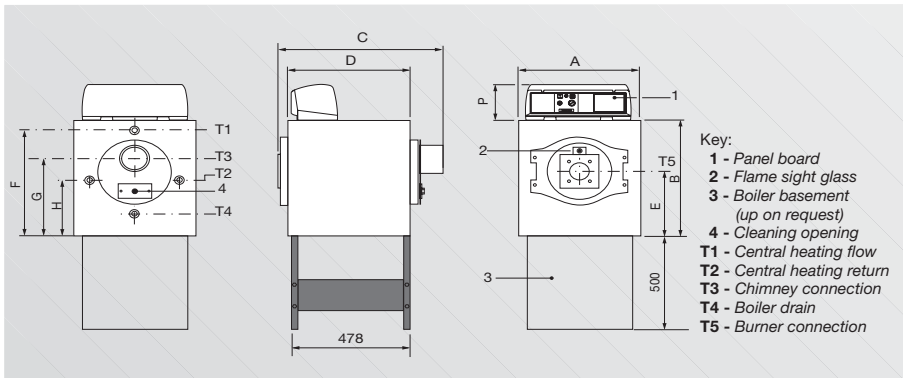
Anti-condensate smoke way

The smokes continue their run within boiler in the channels drawn between the triangular baffles and the furnace cylinder in contact with the water. The particular processing of the baffles with interrupting joints, annuls the thermal expansions and, thanks to the wide surface that is heated, it subsequently reduces the condensation phenomena (patented system).

Stainless steel turbulators

Adjustable inside the smoke channels, they optimize the heat exchange and stabilize the counter pressure for the regular operation of the burner.

DIMENSIONS



TECHNICAL DATA

Models		R 18	R 22	R26	R 30	R 38	R 45	R 60
NOMINAL OUTPUT	kW	21	26	30	35	44	52	70
NOMINAL INPUT	kW	23	28	33	38	48	57	77
BOILER CONTENT	l	48	48	50	50	67	67	92
WATER SIDE PRESSURE LOSSES *	m c.a.	0.06	0.09	0.09	0.12	0.12	0.15	0.18
SMOKE SIDE PRESSURE LOSSES	m mc.a.	1.8	2.5	2.8	3.5	4	3.7	5
MAX. WORKING PRESSURE	bar	4	4	4	4	4	4	4
FLOW/RETURN CONNECTIONS	ISO 7/1	Rp 1	Rp 1	Rp 1	Rp 1	Rp 1 ^{1/4}	Rp 1 ^{1/4}	Rp 1 ^{1/4}
DIMENSIONS	A	mm	570	570	570	570	660	760
	B	mm	640	640	640	640	730	830
	C	mm	675	675	775	775	815	905
	D	mm	480	480	580	580	630	630
DRY WEIGHT		120	120	140	140	210	210	280

(*) Pressure losses for a flow rate corresponding to a Δt of 15 K