



special pipes "Easy Stream Pipe"  
(Unical Patent)

## TRISTAR 3G

★★★CE

3 pass pressurized boiler with passing furnace – Efficiency Class: 3 stars according to European Directive 92/42/CE. Body in steel with special progressive smoke pipes in carbon steel with patented aluminium inserts "EASYSTREAM Pipe", suitable for gas burners.

Max. Working Pressure:

5 bar up to 840 kW - 6 bar over 1000 kW

- High efficiency, higher than 95.2% (Pn = 400 kW) and higher than the minimum required for lower capacities, both, at nominal and minimum load
- Low polluting emissions, thanks to the reduction of the specific thermal load, due to the wide exchange surface.
- Three pass smoke way without inversion in the combustion chamber in an oval shaped body (passing furnace)
- Anti-condensate fin effect on the pipe welding seams on the rear tube plate
- Combustion chamber with absolute thermo-mechanical resistance to the condensate, thanks to the misalignment between the furnace and the smoke pipes
- Reversing pipes of large diameter
- Third smoke pass with special pipes "EASYSTREAM PIPE", Ø 1 1/2"
- First section of invitation with turbulator
- Second multi-radial aluminium section that assures high heat exchange, withstanding the acidic condensate (UNICAL Patent)
- Round shaped outer shells, for capacities higher than 1000 kW (Max. Working Pressure 6 bar)
- Guided and braked water run inside the body, through an internal baffle
- Smoke chamber in carbon steel predisposed for inspection and condensate evacuation.
- Casing heat losses reduction, thanks to the insulation with 100 mm thick, tear resistant, mineral wool
- Door with ceramic fibre insulation, up to 125 kW, and in extra light refractory concrete for the other models.
- Fully adjustable door with double opening possibility (right or left hand side)
- Door supporting hinges fixed to an anti-vibration counter-plate (up to 1900 kW)
- Certified as boiler with ranged output
- Panel board of thermostatic type, external to the casing (electronic panel with E8 controller for the management of 3 different heating circuits, upon request)
- Two bulb holders (up to 4 bulbs each)
- Upward flow and return connections (onto rear tube plate for 65 and 85 kW)
- Manufacture according to EN 303-1
- Pressure vessel parts and pipes in carbon steel according to Euronorm 25 and 28

*Oil version upon request:*

- With special, completely rolled pipes, with inside 6 x 60° sectors carbon steel pipes

### Technical Data

#### TRISTAR 3G 65<sup>2S</sup> 85<sup>2S</sup> 110<sup>2S</sup> 150<sup>2S</sup> 185<sup>2S</sup> 225<sup>2S</sup> 300<sup>2S</sup> 380<sup>2S</sup> 500<sup>2S</sup> 630<sup>2S</sup>

NOMINAL OUTPUT	kW	65	85	109	150	185	225	300	380	500	630
EFFICIENCY *	%	93,9	94	94,2	94,5	94,7	94,9	95,4	95,4	95,4	95,4
HEIGHT	mm	950	950	1115	1115	1215	1215	1385	1385	1645	1645
WIDTH	mm	740	740	830	830	870	870	910	910	920	920
DEPTH	mm	975	1235	1170	1430	1365	1495	1560	1755	1915	2110
WEIGHT	kg	315	355	435	515	580	640	840	935	1260	1375

#### TRISTAR 3G 730<sup>2S</sup> 840<sup>2S</sup> 1100<sup>2S</sup> 1320<sup>2S</sup> 1600<sup>2S</sup> 1900<sup>2S</sup> 2300<sup>2S</sup> 2650<sup>2S</sup> 3000<sup>2S</sup>

NOMINAL OUTPUT	kW	730	840	1100	1320	1600	1900	2300	2650	3000
EFFICIENCY *	%	95,4	95,4	95,4	95,4	95,4	95,4	95,4	95,4	95,4
HEIGHT	mm	1645	1432	1542	1542	1892	1892	1990	2271	2271
WIDTH	mm	920	1122	1462	1462	1622	1622	1720	1970	1970
DEPTH	mm	2305	2505	2802	3172	3242	3564	3835	3879	4279
WEIGHT	kg	1510	1650	2530	3065	4005	4230	4900	6400	7150

\*at nominal load