

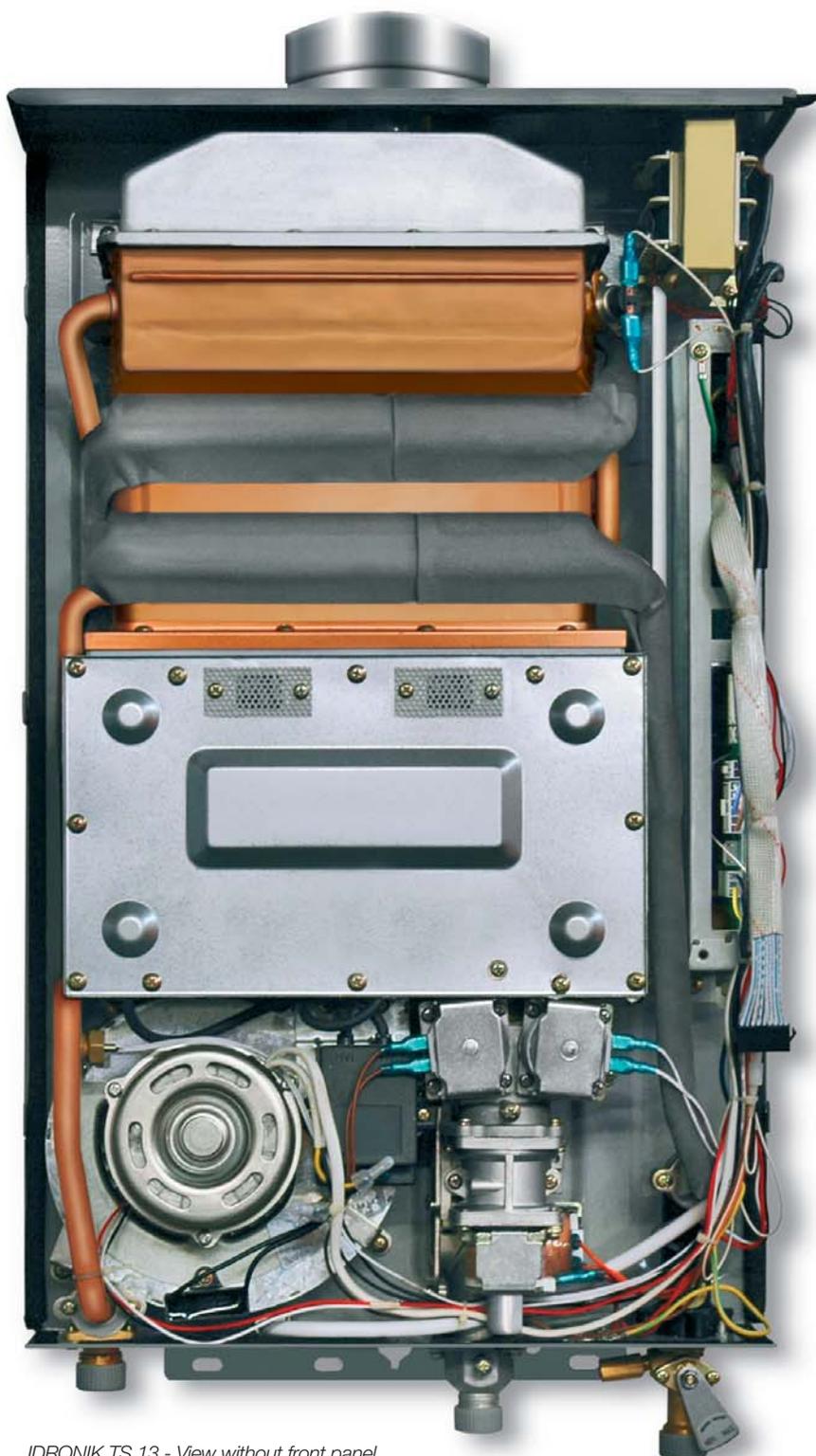


IDRONIK.

SO MUCH WATER

Unical

Small dimensions high performances



IDRONIK TS 13 - View without front panel

MODEL		Output min/max kW	Efficiency %
IDRONIK TN 14	natural draught	12,5÷25	91,5
IDRONIK TS 13	forced draught	8,5÷22,5	91

UNICAL, strong of more than thirty years experience in heating boiler field, presents one innovative range of instantaneous gas water heaters, for natural gas and LPG operation.

■ **IDRONIK TN**
chimney version, natural draught

■ **IDRONIK TS**
room sealed, forced draught

A beguiling and modern design for ultra-compact appliances, conceived for actual living spaces, where the dimensions (*only 11 cm thick the model TS and 15 cm the model TN*) have to be reduced to the minimum and, on the contrary, the performances must satisfy the maximum user's needs.

But, not only the aesthetical and dimensional characteristics answer to the most actual concept of "household electrical apparatus", but also the operational characteristics that are positioned on the highest levels of the category, both, for the D.H.W. production and the temperature drawing constance and, last, but not least, for the high efficiencies that, combined with the low polluting emissions, are demonstration of new high technologies applied to a gas water heater.

- *Compactness*
- *Innovative electronics*
- *Constructive technology*
- *High level performances*
- *Silentness*
- *Design*
- *Friendly use*

All these are the characteristics that mark this water heater line.

IDRONIK TS

the details

FORCED DRAUGHT

Two section burner

Characterized by two ramps able to operate separately or together.

This detail allows a precise water temperature control, also at low flow rates, guarantying a high comfort during the shower and consumptions reduced to the minimum.



Ultra-flat, wet room heat exchanger

Among the most compact ones of the category, it distinguishes for the careful study of the heat exchange with the circulating water. The efficiency attains and exceeds the 90% to guarantee the maximum performances at the minimum costs.

In addition to that, the high efficiency smoke hood allows a silent smoke evacuation.



Double opening gas valve

It allows a silent start and the micrometric gas flow rate control, with an additional consumption reduction.



Fast drawing

In less than 10 seconds it is possible to have warm water at the water heater outlet.

Very sensitive to the low water flow rates and pressures

Also with low water mains pressure and reduced flow rates, thanks to the sophisticated software, the water drawing remains constant.

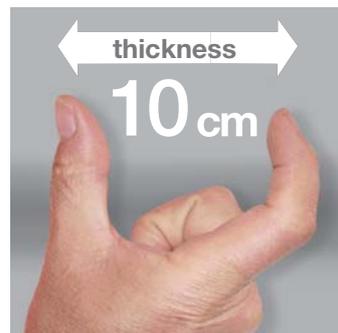


Panel board

- touch buttons
- memory of the last selected temperature
- summer/winter selector
- indication, through display, of water drawing, flame presence, fan operation and temperature
- error code indication

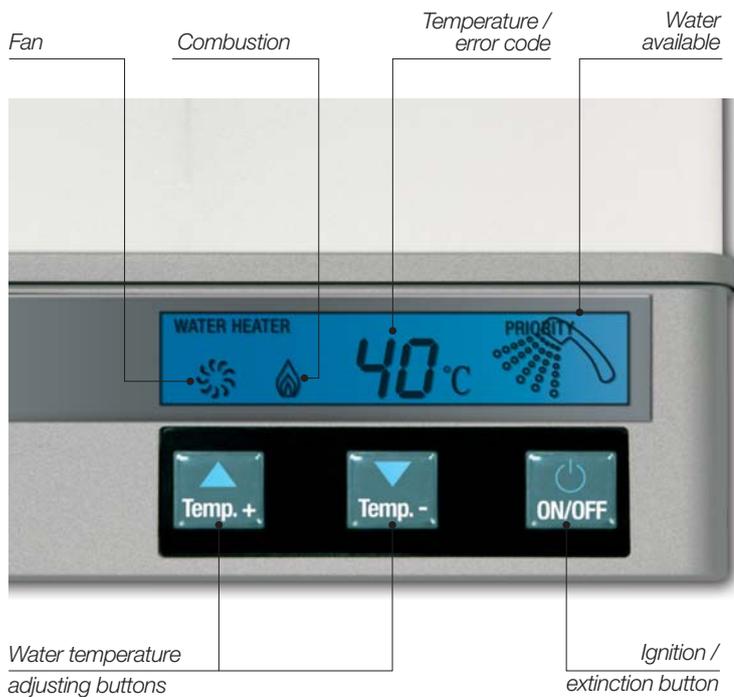
A record thickness

Excellent performances in thin spaces: only 10 cm depth.



IDRONIK TS

control and safety



“MPS” guaranteed safety

Output, efficiency and friendly use are nothing if the safety is missing.

For this reason IDRONIK TS is equipped with the system *MPS - Multiple Safe Protection* (total safety protection), thanks to which any potential risk is under control:

protections

IDRONIK TS has a safety set that impedes:

- over-heatings and over-charges
- sudden extinctions and fan failures
- short circuits and overpressures
- freezing;

continuous self-diagnostics

the internal microprocessor manages the periodical check of the water heater operational state;

safety lockout

it cuts the gas to the burner in case of serious failures.

Certification

IDRONIK TS is an appliance certified according to the European Directive 90/396/CE, as a guarantee of high efficiency and safe operation.



And more...

IDRONIK TS is equipped with:

- **digital display** that shows the temperature set point (adjustable between 35 and 60°C) and indicates, thanks to the on board electronics, the failure codes: this will help in detecting any possible problem;
- **temperature digital control**: a sensor controls the water temperature and informs the on board CPU that acts on the modulating gas valve;
- **summer/winter setting**: it allows sensible saving by exploiting the different inlet water temperature and/or the different hot water temperature set point;
- **memory of the last selected temperature** for an immediate use of the hot water
- **removable front cover** for an easy service

IDRONIK TN

the details

NATURAL DRAUGHT

Heat exchanger with high efficiency wet combustion chamber

Designed with the same geometry of the one of TS version is characterized by the output developed in compact dimensions and an immediate adequacy to the requested temperature.

In addition to that, the high efficiency smoke hood allows a silent smoke evacuation.



Fast drawing

In less than 10 seconds it is possible to have warm water at the water heater outlet.



Panel board

Simple and functional, with a clear temperature indication and manual selectors for the seasonal optimisation of the efficiencies.



A record thickness

Excellent performances in thin spaces: only 15 cm depth.



Certification

IDRONIK TN is an appliance certified according to the European Directive 90/396/CE, as a guarantee of high efficiency and safe operation.

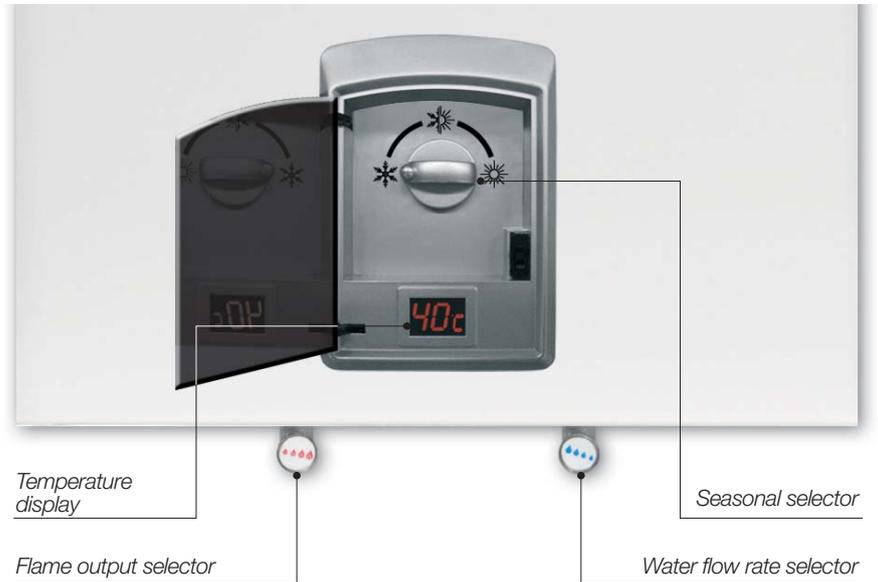


IDRONIK TN

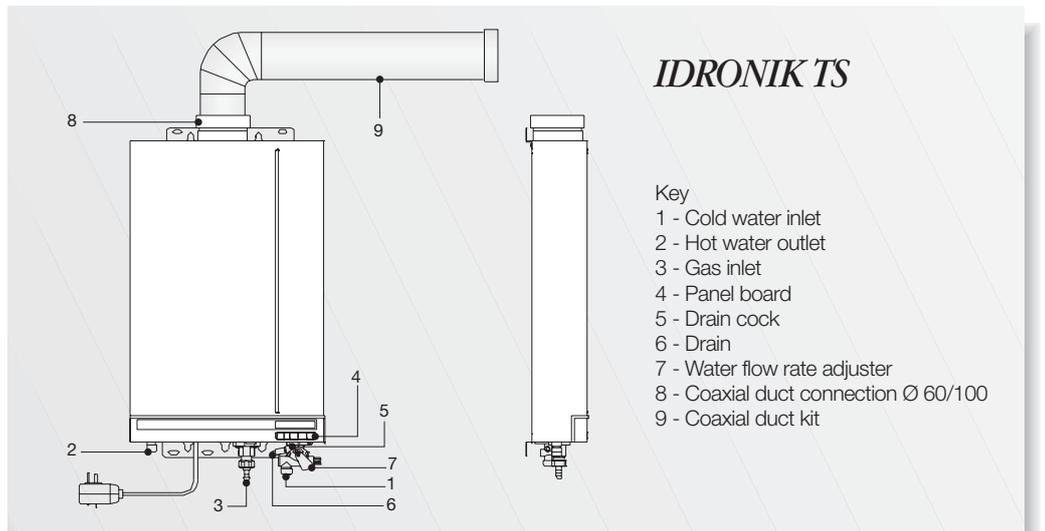
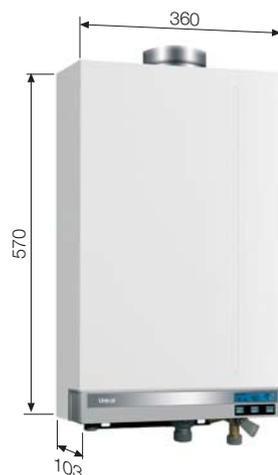
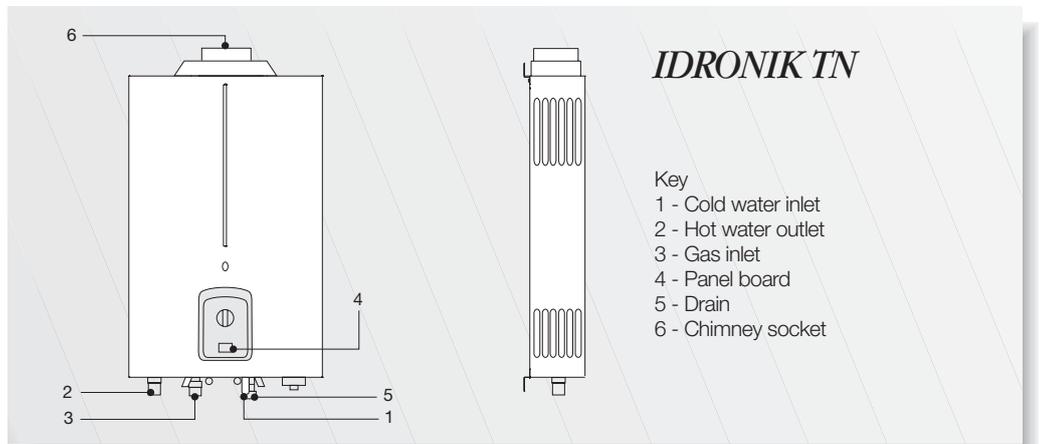
The controls

The panel board of IDRONIK TN is equipped with:

- **automatic output and water flow rate adjustment through two selecting knobs;**
- **seasonal selector:** depending on the inlet water temperature it is possible to adjust this knob in order to keep constant the temperature of the supplied hot water;
- **digital display** that shows the temperature set point;
- **battery fed**



Dimensions

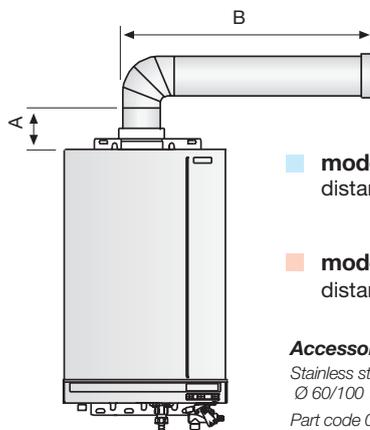


Smoke evacuation

SMOKE EVACUATION ALLOWED DISTANCE

IDRONIK TN

For the model **IDRONIK TN** it is recommended the smoke evacuation through a smoke pipe of 120 mm dia. (not included in the supply), **having a minimum length 0.5 m.**



model IDRONIK TN
distance A = *minimum 0.5 m*

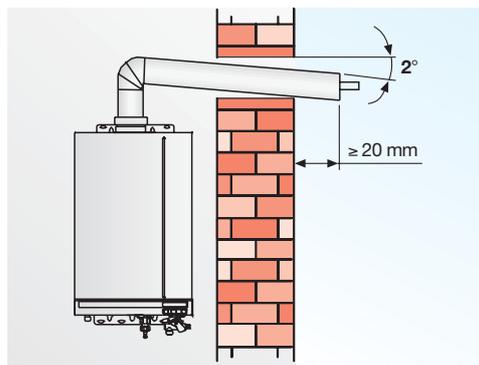
model IDRONIK TS
distance A + B = *minimum 1 m*
maximum 3 m

Accessories for IDRONIK TS (optional)

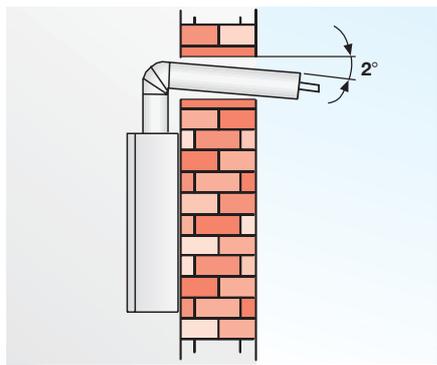
Stainless steel coaxial extension
Ø 60/100 1 m long
Part code 00262981

IDRONIK TS

For the model **IDRONIK TS** it is recommended the smoke evacuation and the air suction through the coaxial evacuation duct standard supplied, made of stainless steel coaxial curve and duct having diameter Ø 60/100 mm. **Allowed total length: min. 1 m - max. 3 m.**



side smoke avacuation



rear smoke evacuation

INSTALLATION EXAMPLES WITH LATERAL OR REAR FLUE CONNECTION

Technical data

Model		IDRONIK TN 14	IDRONIK TS 13
Output			
NOMINAL OUTPUT max.-min.	kW	25 - 12,5	22,5 - 8,5
Efficiency			
EFFICIENCY at full load	%	91,5	91
EFFICIENCY at part load	%	90	89
Domestic Hot Water			
TEMPERATURE RANGE	°C	35-60	35-60
D.H.W. production with Δt 25K	l/min	14	13
D.H.W. PRESSURE min.-max.	bar	0,2 - 10	0,2 - 10
Technical characteristics			
SMOKE EVACUATION	mm	120	60/100
ALLOWED SMOKE EVACUATION LENGTH		min. 0.5 m vertical	min. 1m - max. 3m
GAS CONNECTION	Ø	1/2"	1/2"
WATER CONNECTIONS	Ø	1/2"	1/2"
DRAUGHT TYPE		natural	forced
PROTECTION DEGREE	IP	X2D	X4D
Electrical supply			
SUPPLY TENSION	V	battery 2 x 1,5 V	230
FREQUENCY	Hz	-	50
Weight			
DRY WEIGHT	kg	15	20

