

# TOTEM 30

## Datasheet

**GENERAL DETAILS** @ data recorded at the rated electric power and water inlet of 70°C unless specified; fuel natural gas @ 20mbar, the data related to LHV= 10.2 kWh/Nm<sup>3</sup>; air inlet @ 25°C and 101.3 kPa

Rated electric power	kW	30
Self-consumption	kW	0.4
Electrical modulation range	%	50 ÷ 100
Rated thermal power	kW	57.5 (66.5*)
Electrical efficiency	%	33.4
Thermal efficiency	%	64.1 (74.1*)
Total efficiency	%	97.5 (107.5*)
Seasonal space heating energy efficiency**	%	269
Fuel		natural gas / LPG / biomethane
Fuel consumption	Nm <sup>3</sup> /h	8.8
Input power	kW	89.8

### ENGINE

Model		FPT F1C CNG
Type		straight-four
Displacement	cc	2,998
Speed	rpm	1,500

### ELECTRIC GENERATOR

Type		asynchronous
Voltage/frequency	V/Hz	400/50
Starting mode		grid
Type of connection		triangle
Poles		4
Insulation class		H
Efficiency class		IE3

### HYDRAULIC CIRCUIT

Maximum inlet water temperature	°C	75
Maximum outlet water temperature	°C	90
Maximum rated inlet-outlet ΔT	°C	15
Rated water flow	l/h	3,800
Rated pressure drop	kPa	70

### EMISSIONS

Acoustic impact @ 1 m distance in open field	dB(A)	55
Emissions CO at 5% O <sub>2</sub>	mg/Nm <sup>3</sup>	≤50
Emissions NOx at 5% O <sub>2</sub>	mg/Nm <sup>3</sup>	≤50

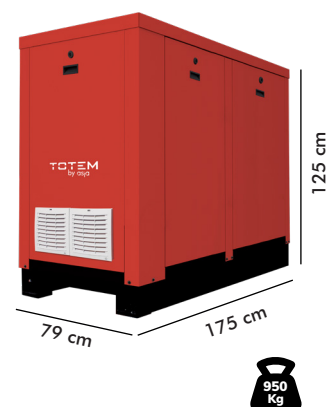
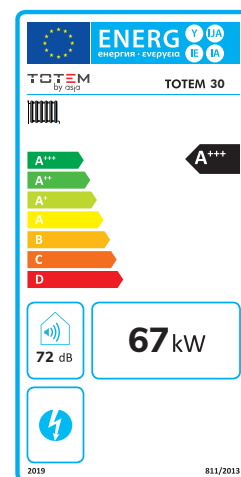
### MAINTENANCE

Service intervals	running h	8,000
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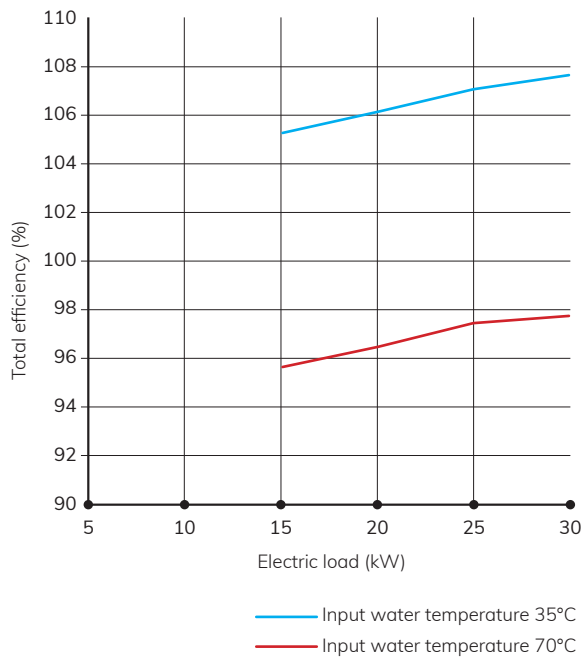
\*Referred to the input water temperature 35°C.

\*\*As defined by regulation EU No. 811/2013, EN 50465/2015.

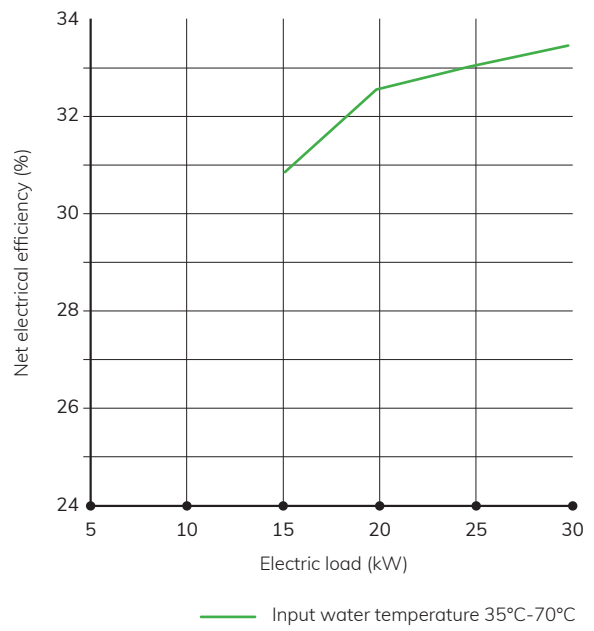
Technical specifications tolerance +/-5%. Data, drawings and information included in the present datasheet can be varied without notice.



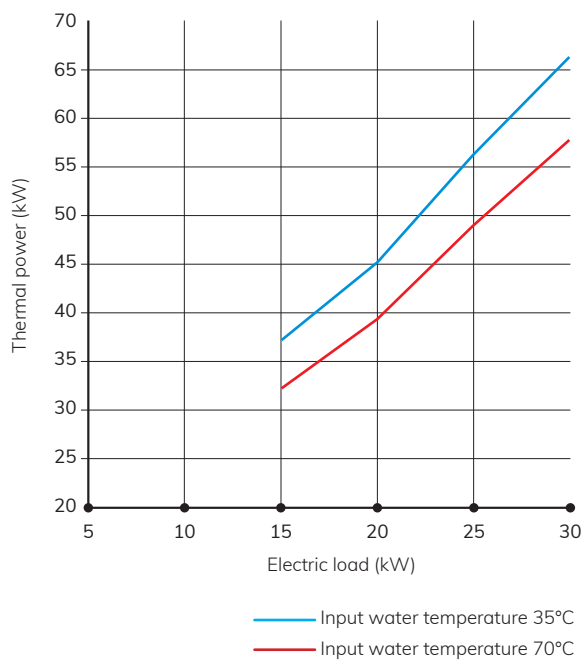
**Total efficiency vs electric load**



**Net electrical efficiency vs electric load**



**Thermal power vs electric load**



**Input power vs electric load**

