

TOTEM 12

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/Nm³; air inlet @ 25°C and 101.3 kPa

Rated electric power	kW	12
Self-consumption	kW	0.195
Electrical modulation range	%	50 ÷ 100
Rated thermal power	kW	25 (28.6*)
Electrical efficiency	%	31.2
Thermal efficiency	%	65.1 (74.4*)
Total efficiency	%	96.3 (105.6*)
Seasonal space heating energy efficiency**	%	224
Fuel		natural gas / LPG / biomethane
Fuel consumption	Nm ³ /h	3.77
Input power	kW	38.5

ENGINE

Model		FCA 1400 FIRE
Type		straight-four
Displacement	cc	1,368
Speed	rpm	1,500

ELECTRIC GENERATOR

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

HYDRAULIC CIRCUIT

Maximum inlet water temperature	°C	70
Maximum outlet water temperature	°C	80
Maximum rated inlet-outlet ΔT	°C	10
Rated water flow	l/h	3,000
Rated pressure drop	kPa	60

EMISSIONS

Acoustic impact @ 1 m distance in open field	dB(A)	56.7
Emissions CO at 5% O ₂	mg/Nm ³	≤10
Emissions NO _x at 5% O ₂	mg/Nm ³	≤10

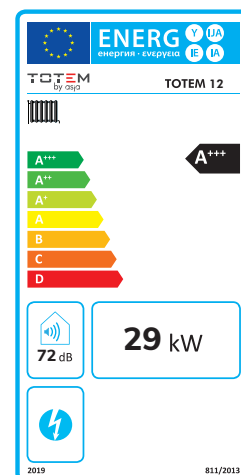
MAINTENANCE

Service intervals	running h	5,000
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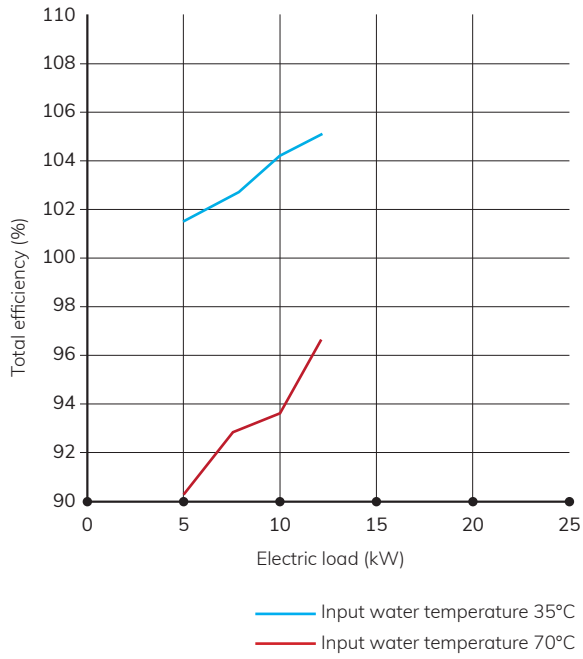
*Referred to the input water temperature 35°C.

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

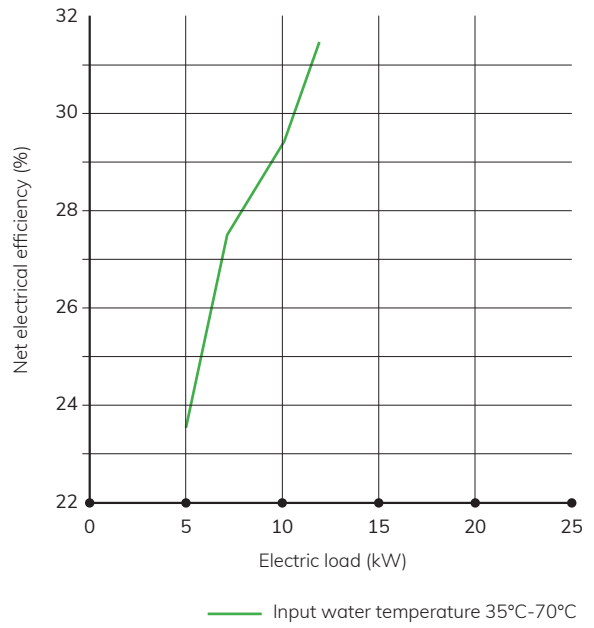
Technical specifications tolerance +/-5%. Data, drawings and information included in the present datasheet can be varied without notice.



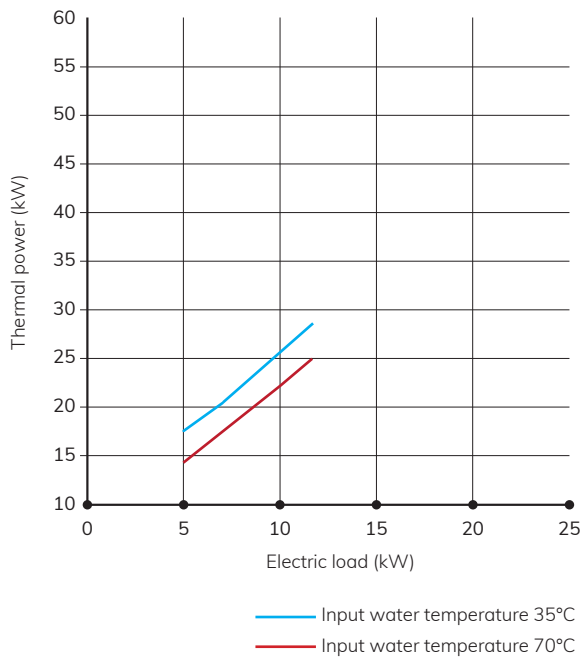
Total efficiency vs electric load



Net electrical efficiency vs electric load



Thermal power vs electric load



Input power vs electric load

