



MODEL TOTEM 10 TOTEM 20 TOTEM 25

POWER @ data recorded at the rated electric power and water inlet of 70°C unless specified; methane @ 20mbar, the data related to LHV= 10.2 kWh/Nm³; air inlet @ 25°C and 101.3 kPa

Rated electric power	kW	10.0	20.0	25.0
Self-consumption	kW	0.195	0.205	0.205
Power modulation range *	kW	≥ 5	≥ 7.5	
Rated thermal power	kW	21.6 (25.2**)	41.9 (48.5**)	50.2 (57.6**)
Net electrical efficiency	%	29.6	31.2	32.5
Total efficiency	%	93.6 (104.3**)	96.5 (106.8**)	97.8 (107.4**)
Seasonal space heating energy efficiency ***	%	200	226	251
Fuel		methane		
Fuel consumption	Nm³/h	3.31	6.28	7.54
Input power	kW	33.7	64.1	76.9

DIMENSIONS AND WEIGHT

h x w x l (rigged up with panels - standard version)	cm	128 x 79.5 x 192		
Weight (fluid-filled)	kg	720	780	

HYDRAULIC CIRCUIT

Inlet water temperature range	°C	15 ÷ 70		
Outlet water temperature range	°C	25 ÷ 80		
Rated water flow	l/h	2,500	4,000	5,000
Maximum pressure drop	kPa	60		
Maximum exhaust gas temperature	°C	77		
Condensate	kg/h	0 (1.37**)	0 (3.04**)	0 (3.14**)

ELECTRIC GENERATOR

Type		asynchronous three phase		
Voltage/frequency	V/Hz	400/50		
Engine starter		starter motor		
Electrical generator connection		triangle		
Poles		4	2	
Insulation class		F		
Efficiency class		IE3		

WORKING CONDITIONS

External air temperature	°C	-5 ÷ 40		
Relative humidity	%	0 ÷ 75		
Acoustic impact Lp @ 1 m distance in open field	dB(A)	56.7	61.1	
Emissions CO a 5% O ₂	mg/Nm³	≤10		
Emissions NOx a 5% O ₂	mg/Nm³	≤10		
Precautions to be taken during assembly, installation or service		refer to installation and user manual		
Technical specifications tolerance		+/- 5%		

* Subject to local grid connection technical requirements.
 ** Referred to the input water temperature 35°C.
 *** As defined by regulation EU No. 811/2013, EN 50465/2015.

Values measured at Micro-Cogeneration laboratory (www.gecos.polimi.it) by Milan Polytechnic and validated by TÜV Rheinland. TOTEM micro-CHP units certified by TÜV Rheinland.

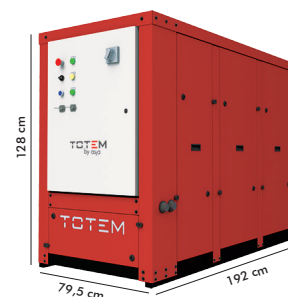
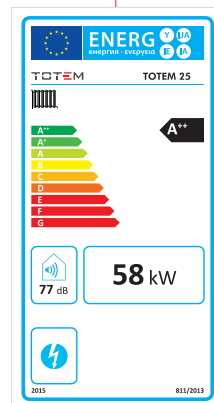
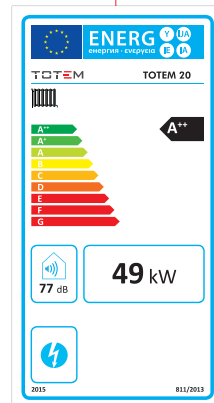
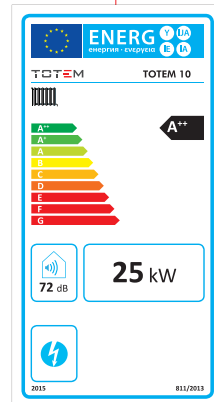


TOTEM CERTIFICATIONS

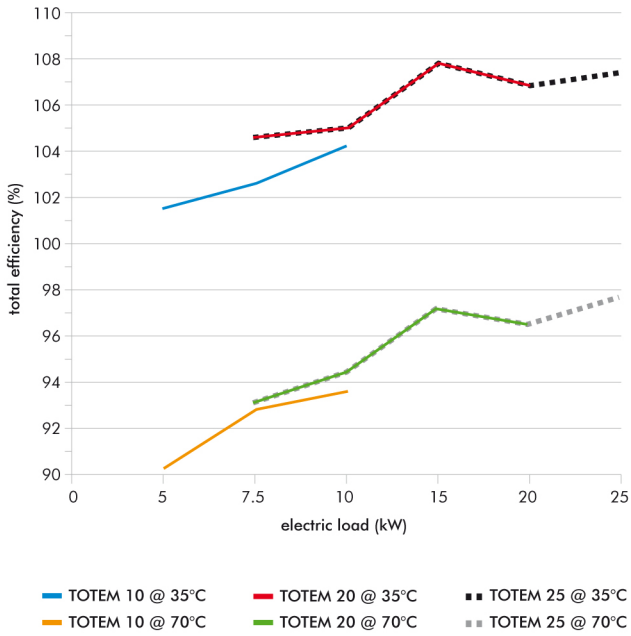


POLITECNICO MILANO 1863

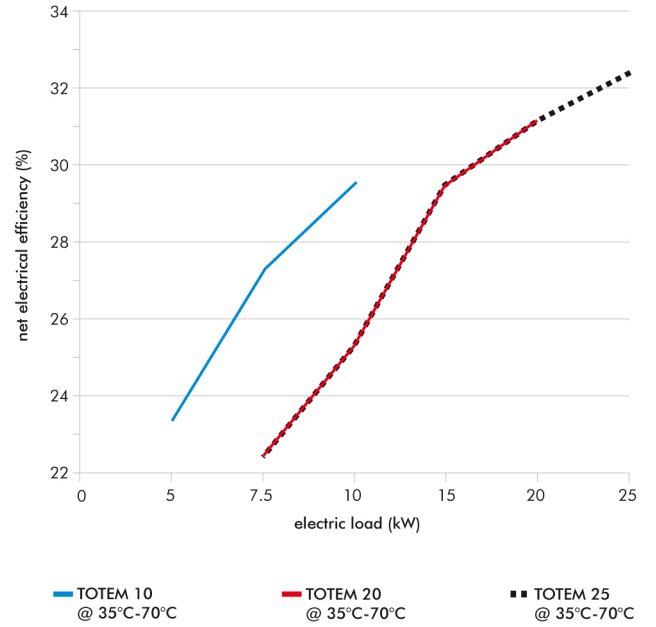
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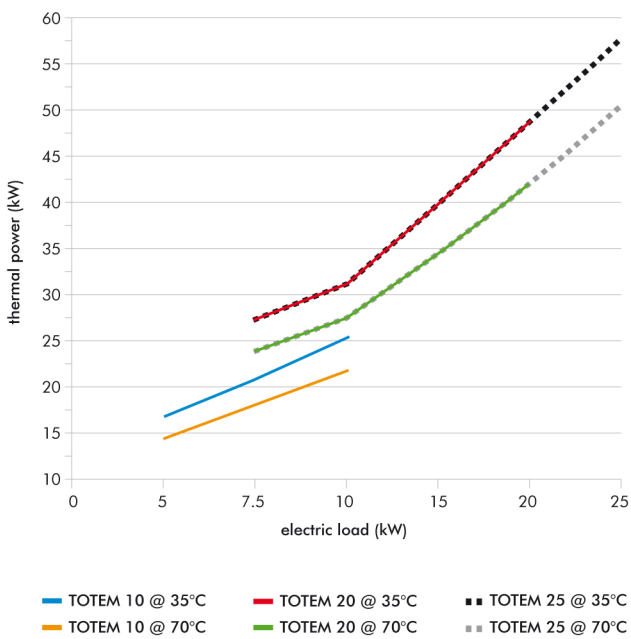
TOTAL EFFICIENCY VS ELECTRIC LOAD



NET ELECTRICAL EFFICIENCY VS ELECTRIC LOAD



THERMAL POWER VS ELECTRIC LOAD



INPUT POWER VS ELECTRIC LOAD

