

TOTEM 20

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 | 20 |
| Self-consumption | kW | 0.4 |
| Electrical modulation range | % | 50 ÷ 100 |
| Rated thermal power | kW | 46.2 (49.7*) |
| Electrical efficiency | % | 28.9 |
| Thermal efficiency | % | 66.0 (70.1*) |
| Total efficiency | % | 94.9 (98.7*) |
| Seasonal space heating energy efficiency** | % | 248 |
| Fuel | | natural gas / LPG / biomethane |
| Fuel consumption | Nm ³ /h | 7.4 |
| Input power | kW | 70 |

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 | 3,000 |
| Rated pressure drop | kPa | 70 |

EMISSIONS

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

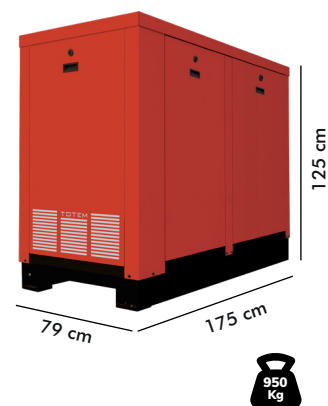
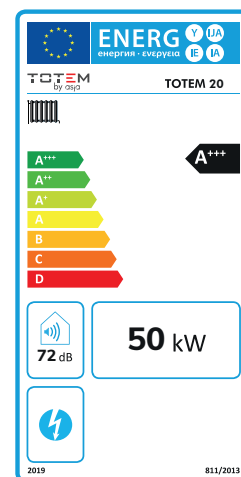
MAINTENANCE

| | | |
|-------------------|-----------|-------|
| Service intervals | running h | 8,000 |
|-------------------|-----------|-------|

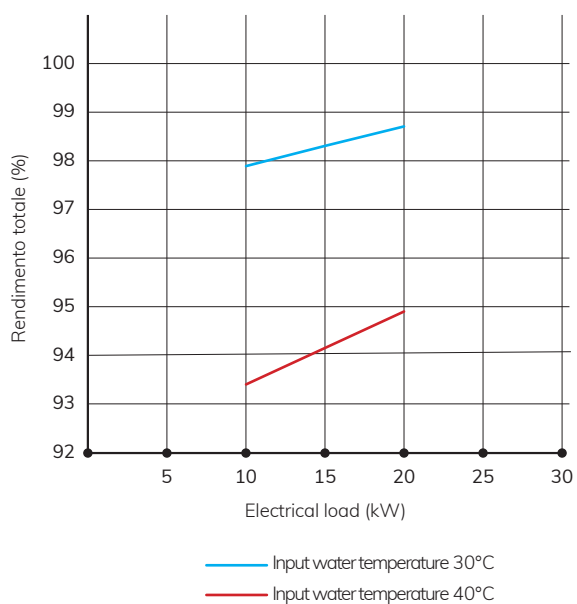
*Referred to the input water temperature 35°C.

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

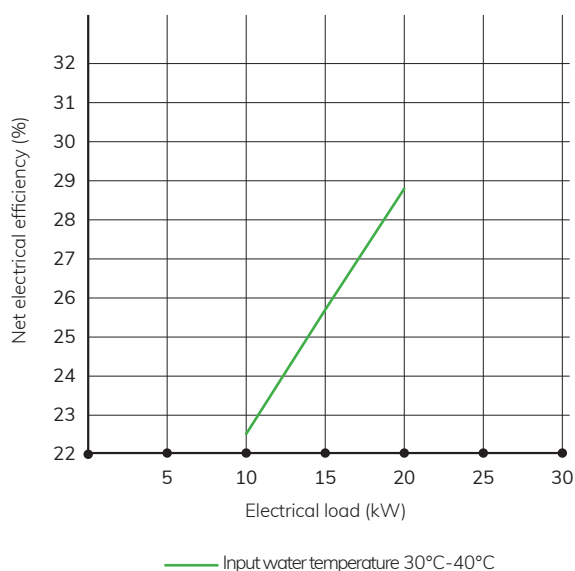
Technical specifications tolerance +/-5%. Data, drawings and information included in the present datasheet can be varied without notice.



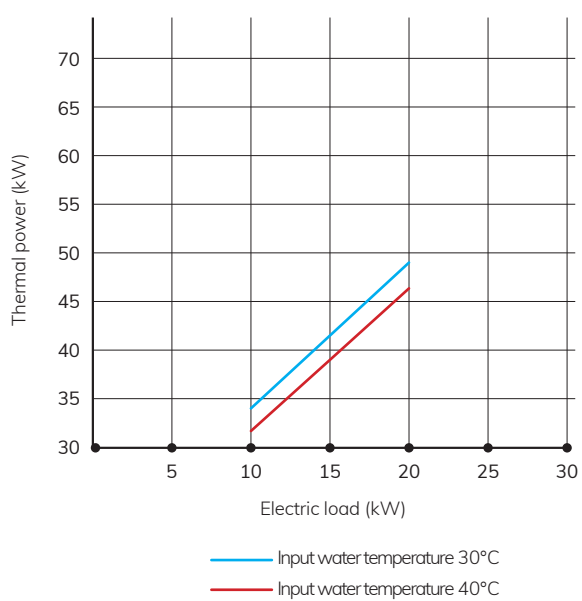
Total efficiency vs electric load



Net electrical efficiency vs electric load



Thermal power vs electric load



Input power vs electric load

