

Effitron™ Compact Electric Steam Generator

Zero Emissions, Maximum Convenience.



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Conserving Resources, Preserving the Future.

Thermax is a leading conglomerate in the energy and environment space and a trusted partner in energy transition. Thermax's extensive portfolio includes clean air, clean energy, clean water and chemical solutions. Backed by its longstanding industry partnerships across multiple sectors, Thermax has cultivated strong expertise in audit, consulting, execution, and maintenance coupled with digital solutions, ensuring a unified energy-management experience. Leveraging its distinctive engineering capabilities, Thermax converts costs to profits while protecting the environment – a win-win for the industry and society at large.

Redefining Steam Generation for a Sustainable Tomorrow

Innovation is the driving force of the future, shaping the way we live, work, and sustain our planet. As the need for sustainability grows, there is a greater focus on solutions that conserve energy and resources while minimising environmental impact. Advancements in technology are making it possible to achieve efficiency without compromise, paving the way for a cleaner and greener future.

For industries with small-capacity steam requirements, there is a growing demand for ultra-efficient, compact, and easy-to-operate solutions that reduce dependence on fossil fuels, lower emissions while ensuring quick and constant steam demand and simplify installation and maintenance. These solutions must not only deliver reliable performance but also align with evolving environmental and regulatory standards, ensuring a seamless transition to a more sustainable future.

Introducing Effitron™

Effitron Offers hassle free installation, quick start up & superior energy efficiency making it the ideal choice for businesses looking to optimise steam generation while minimizing their environmental footprint.

Effitron, a compact plug & play steam generator, designed & configured to install near processes, for constant steady load conditions & helping customers monitor & maintain the same along with process equipment.

Effitron is not just a solution: it is step towards a cleaner, greener tomorrow.



Design Pressure
10.54 kg/cm² and
17.5 kg/cm²



Capacity
50 to 400 kg/hr



Features



Pre-wired and skid assembled

- Portability
- Ease of transportation and installation
- Ready to Install Design



Aesthetic and ergonomic design

- Easier maintenance
- Enhanced user experience



Quick steam generation

- Plug and Play design for immediate operation and flexibility
- Steam generation within 5 to 10 mins



Higher uptime

- Higher reliability
- Highest MTBF
- No cleaning hassels like fired generators



Best in class performance

- Efficiency of 99%
- Dryness fraction of 92%*
- ON/OFF operation



Compact unit offering simplified layout

- No fuel storage and handling
- No ash handling
- No pollution control and heat recovery equipment



Zero emissions

- No air pollution
- No ash generation

*As measured after steam separator

PLC-based Control Panel**

Effitron is digitally powered with a PLC-based device for monitoring, control and protection of equipment.

- User comfort - Touch screen graphical operator interface
- Networking - Embedded ports on Ethernet, Serial, CAN Open protocols
- Real time trends, data logging on USB drive
- Program modification - Download programs through USB drive

**Relay-based control panel also offered as an optional scope

Technical Specifications

Description	Units	EFT 005	EFT 01	EFT 015	EFT 02	EFT 03***	EFT 04***
Construction Code		NIBR					
Gross Steam Output F & A 100°C with 415 V 50 Hz power supply	kg/hr	50	100	150	200	300	400
Design Pressure	kg/cm ² (g)	10.54/17.50					
Thermal Efficiency	%	99%*					
Dryness Fraction - with steam separator	—	0.92					
Steam Generator Turn Down	—	On/Off	On/Off	On/Off	On/Off	1:2	1:2
Connected load	KW	33	65	97	129	193	257
Unit dimensions (inclusive of Control Panel)							
Length	mm	1600	1600	1600	1600	1800	1800
Width	mm	1000	1000	1000	1000	1400	1400
Height	mm	1600	2800	2800	2800	2800	2800

*Note: Rated Steam generation from the steam generator has been worked out considering 415 V, 50 Hz power voltage. However, actual steam generator will vary with variation in actual power supply voltage.

**For EFT 03* : 2 Units of EFT 015
**For EFT 04* : 2 Units of EFT 02

Industrial Applications



Chemical



Pharmaceutical



Laundry



Food Processing



Corrugated Box Manufacturing



Garment