

“VAMAN - The Midget” **Nano / Micro** **Steam Turbine Generators**

Technical Data Sheet

Turbine Model	VAMAN VD 04 to VD 10 / VAMAN VG 12 to VG 100
Prime Mover for	4 KW to 100 KW Rotary Equipment
Design	Similar to API 611 – Overhung Design
Type	Single Stage, Single Disc
Casing	Vertically Split
Rotor Shaft	Forged, Machined, Chrome Plated at the Gland area & Dynamically Balanced Rotor & disc keyed to shaft.
Seals	Five Carbon Ring on Each Side
Bearing	Factory Lubricated & Sealed “ZZ” Bearing
Speed Governor	Hydro– Mechanical Throttle Control
Turbine Speed	3000 / 3600 RPM for Direct Drive
Gearbox Output Speed	1500 RPM for 50 Hz or 1800 RPM for 60 Hz
Gearbox Lubrication	Gears in Oil Bath
Inlet Steam Pressure at TSV (Bar G)	10.5 / 15 / 20
Inlet Steam Temperature at TSV (°C)	186 / 203 / 215 (Dry Saturated)
Inlet Steam Flow at TSV (Kg/ Hour)	12 Kg per KW per Hour for VG Models 16 Kg per KW per Hour for VD Models
Steam Pressure at Turbine Discharge	1.0 Bar G
Steam Temperature at Turbine Discharge	120 °C
Thermal Efficiency of the Turbine	≈ 47%
Mechanical Efficiency of the Turbine	≈ 33%
Overall Efficiency of the Unit	≈ 25% - with eff. of 84% for Rotary Equipment
Inlet & Discharge Connections	50 mm & 100 mm Flange (Supplied)
Approximate dimensions (L x W x H)	1700 x 1400 x 1200 mm
Approximate weight in Kg	450

Quality means doing it right when no one is looking.