

Turbo-V 301-AG Rack Controller



The Turbo-V 301-AG Rack controller is a microprocessor-controlled frequency converter with new, enhanced features that allow greater control and communication capabilities. This compact, 1/4 rack unit is designed for full worldwide compatibility, for vent valve control, active gauge pressure reading and pump operation parameters control, as well as for self diagnostic and protection features.

- **Universal Voltage**

Controller able to auto set according to the input voltage, providing flexibility for easy installation worldwide.

- **RS-232/485 Communication Protocols and Profibus (Options)**

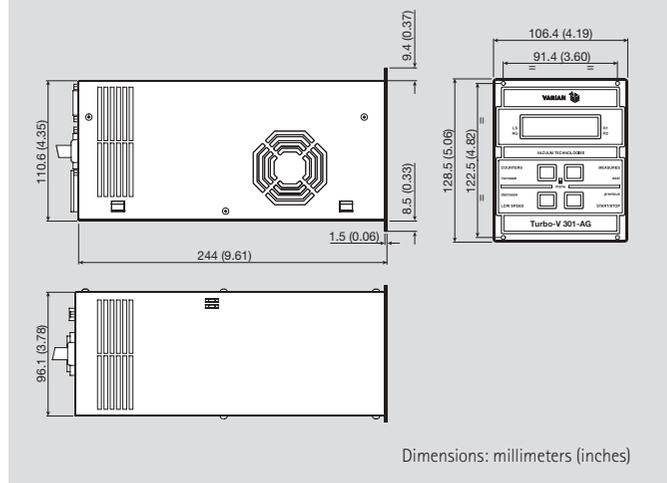
- Allows the pump to be interfaced with the system controls.
- Enables the pump to be operated via PC with T-Plus software.
- Helps development of own customer software.

Technical Specifications

Input	100, 240 Vac 50/60 Hz
Maximum input power	300 VA
Output voltage	75 Vac
Output frequency	963 Hz
Nominal output power	150 W
Operating temperature	+5 °C to +45 °C
Storage temperature	-20 °C to +70 °C



Outline Drawings



- **Stop Speed Reading (SSR)**

- Continues pump speed reading after the stop command.
- Allows monitoring the pump in slow down ramp and shut down time.

- **N.O. and N.C. Vent Valve Drive**

- Valve delay and opening time adjustable.
- Vent valve driven by controller automatically or by serial line.
- Opening time control through SSR function.

- **Active Gauge Pressure Reading Capability**

- Provides accurate pressure measurements from 10⁻³ down to 10⁻⁹ mbar.
- Rack mounted control electronics no longer necessary, with simple +24 Vdc power connector.
- Proven inverted magnetron design.
- Rapid start even in high-vacuum conditions.

Ordering Information

Description	Weight kg (lbs)	Part Number
Controller		
Turbo-V 301-AG rack controller	1.7 (3.2)	9698991
Accessories		
Air cooling kit (0.5 m cable)		9699291
Air cooling kit extension cable (5 m)		9699940
Vent valve N.C. 0.5 orifice (0.5 m cable)		9699847
Vent valve N.O. 0.5 orifice (0.5 m cable)		9699844
Vent valve extension cable (5 m)		9699941
EyeSys Mini-IMG gauge cable (1 m)		9699943
EyeSys Mini-IMG gauge		R1400301
Gauge extension cable (5 m)		9699944
Mains cable NEMA plug (3 m)		9699958
Mains cable european plug (3 m)		9699957
Options		
Turbo-V 301-AG with RS-232/485		9698992
Turbo-V 301-AG with Profibus		9698993