

Advanced HiVac Application Co., LTD

AHA Turbo Pumping Station/Cart

The Smartest and Powerful Vacuum Pumping Station/Cart in the world and the solution of customized homemade Auto High Vacuum System for R&D User.


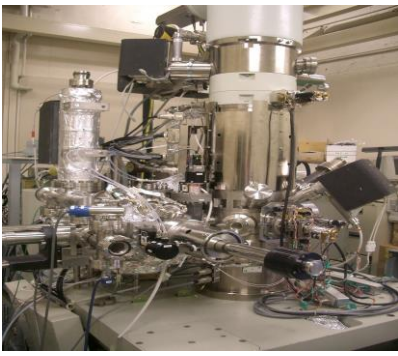

AHA Turbo Pumping station AHA-TGS1



Features:

- New Generation Turbomolecular Pump and primary pump, the famous and trusted vacuum Pump suppliers in the world. (Agilent or Edwards are available)
- HMI & PLC as a standard control module, the best Luxury function in the market.
- One control module can drive turbo pump and 4 channels gauges in one touch display.
- AHA controller feature:
 1. TMP rotational speed adjustable (6,000 rpm to 81,000 rpm for Agilent TMP) (50% ~100% For Edwards Turbo) achieves programmable pumping speed inquiry.
 2. Display TMP power consumption, current, bearing temperature, TMP error code, working hours, Rotation speed
 3. Can setup auto (Protection) mode or manual mode selection within TMP start up.
 4. Drive and display 4 channels of vacuum gauge (Agilent, Granville Phillips, Inficon, the most famous and well trusted vacuum gauges in the world).
 5. Display and record all parameters of TMP functions and gauges pressure, saved by excel format through USB memory stick.
 6. Six replay set points, easy to build up automation control program.
- Global local support from Agilent and Edwards Global Branch office. Or by AHA Global Exchange service.

Application:

High Energy, R&D	Microscope & Mass Spectrometer	Industry
		
UHV or HV	UHV and low vibration	Medium Vacuum and hot environment

Turbo pump selection

V84



V304



Ext 85H



Dry scroll pump

IDP3



SH110



nXDS-10i



Option:



Valves

FRG-700



GP275



GP354



Main Configuration



Agilent FRG 702 Picture



Agilent V84FS



Agilent V84FS with Pressure gauge



AHA TGS1

Sub Configuration



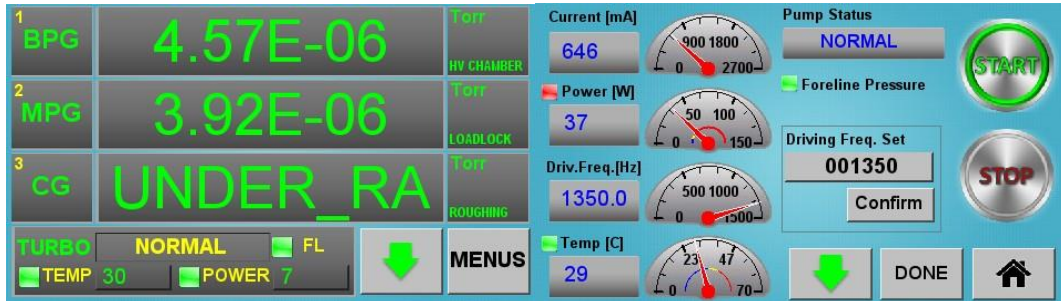
FL(foreline pressure gauge) to Auto on the TMP at safe pressure, Auto off the TMP at dangerous pressure.



Aluminum Plate & High flow cooling fan to cool down the TMP. (Cryogenics cooling kit by request for hot Environment)



AHA Controller TGS-1 Main Frame

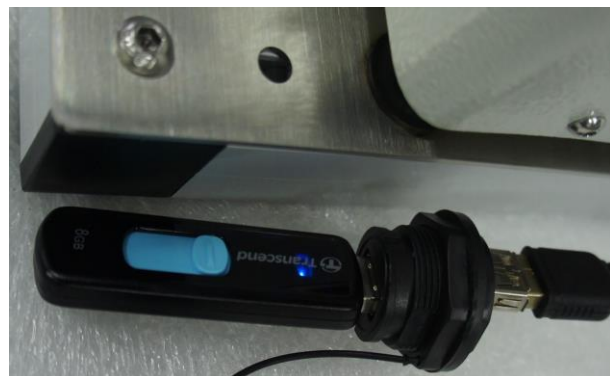


Home Page

Turbo Pump Controller of 1st Page



Interface for Gauges &



Pressure Record & TMP Data Storage & Log out by USB

TGS-1 Gauge Page

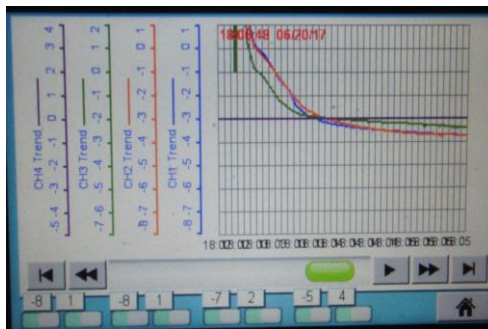


Granville Phillips, Agilent, Inficon Gauges Pressure Unit selection



Chart Recorder

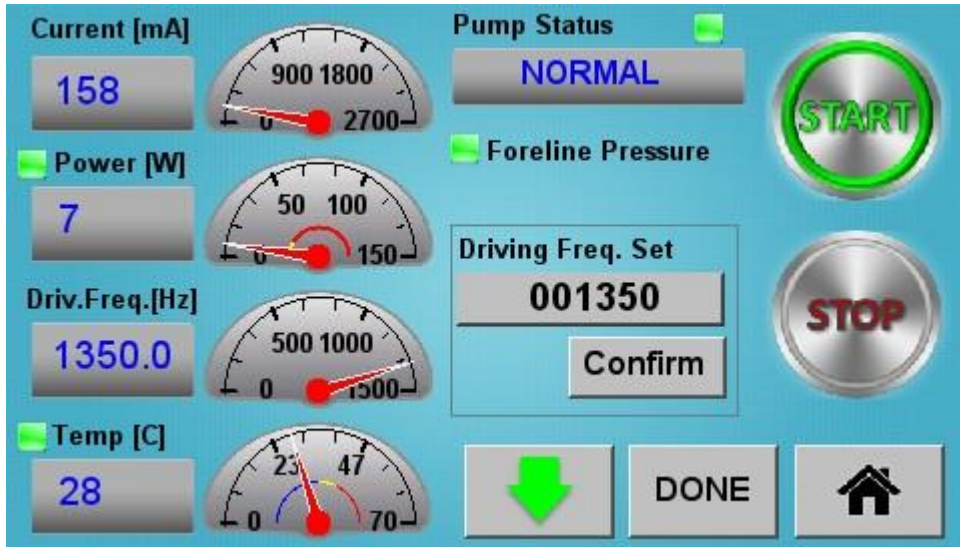
6 Relay setting



4 ch pressure chart recorder

Gauges type selection

TGS-1 Turbo Page

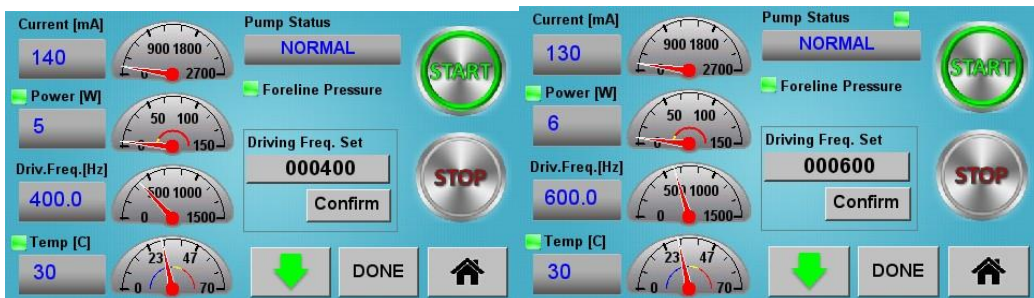


Foreline Pressure Wait (Auto Mode) TMP Freq 100~1350HZ (6000~81000) RPM



TMP Freq setting Page

Pressure at TMP 6000RPM(100HZ)



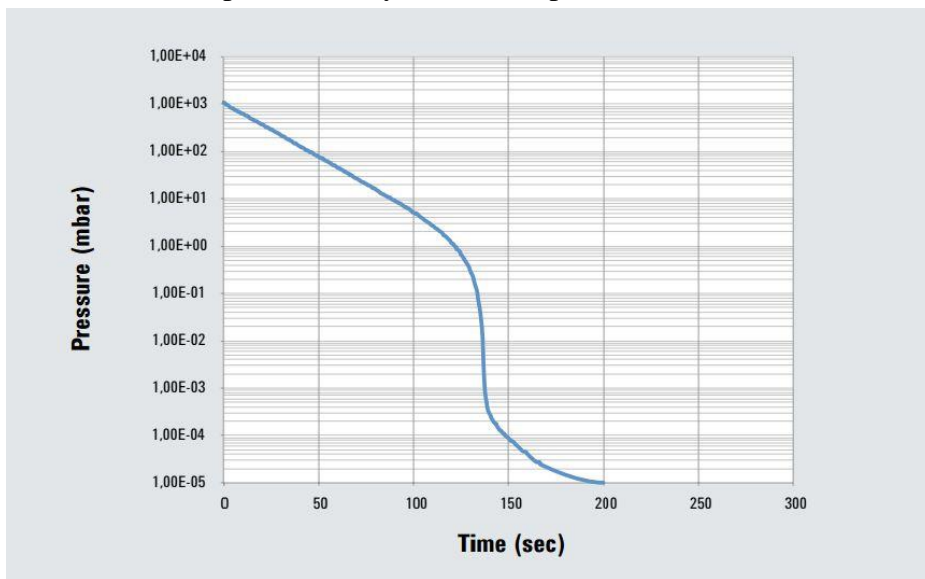
Agilent V84FS set at 24000 rpm(400hz)

Agilent V84FS Set at 36000 rpm(600hz)

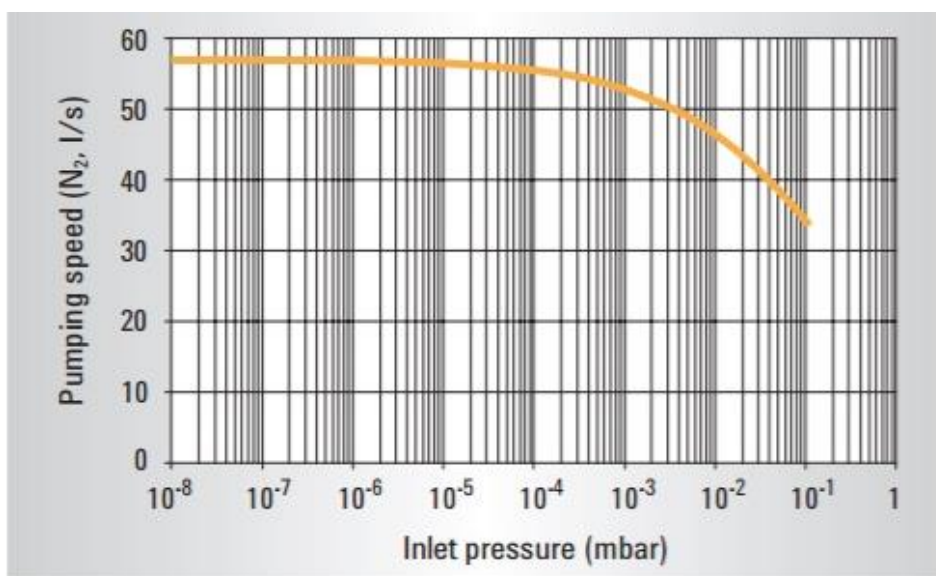


Test port Pressure at TMP (24000RPM) Test Port Pressure at TMP 36000 RPM
 Under RA means Over Range(By GP275)

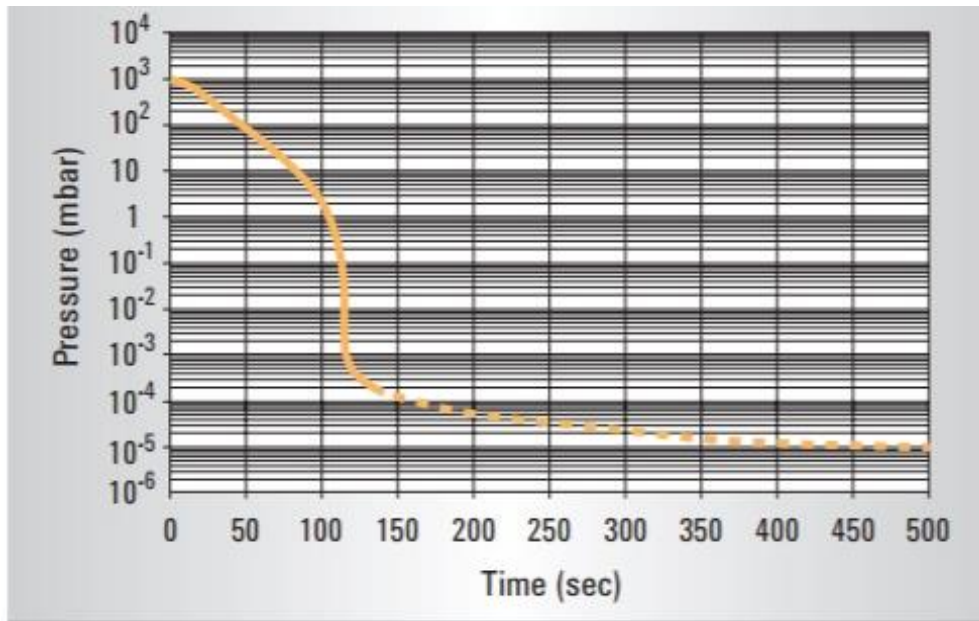
- TwisTorr 304 FS Turbo Pump & IDP3 Dry Scroll Pump Pressure vs Time



- TwisTorr 84 FS Turbo Pump & IDP3 Dry Scroll Pump Pumping Speed Curve



- TwisTorr 84 FS Turbo Pump & IDP3 Dry Scroll Pump Pressure vs Time



We can Customized the Vacuum System by Your Request



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