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Aerospace Nozzle Flow Test Bench

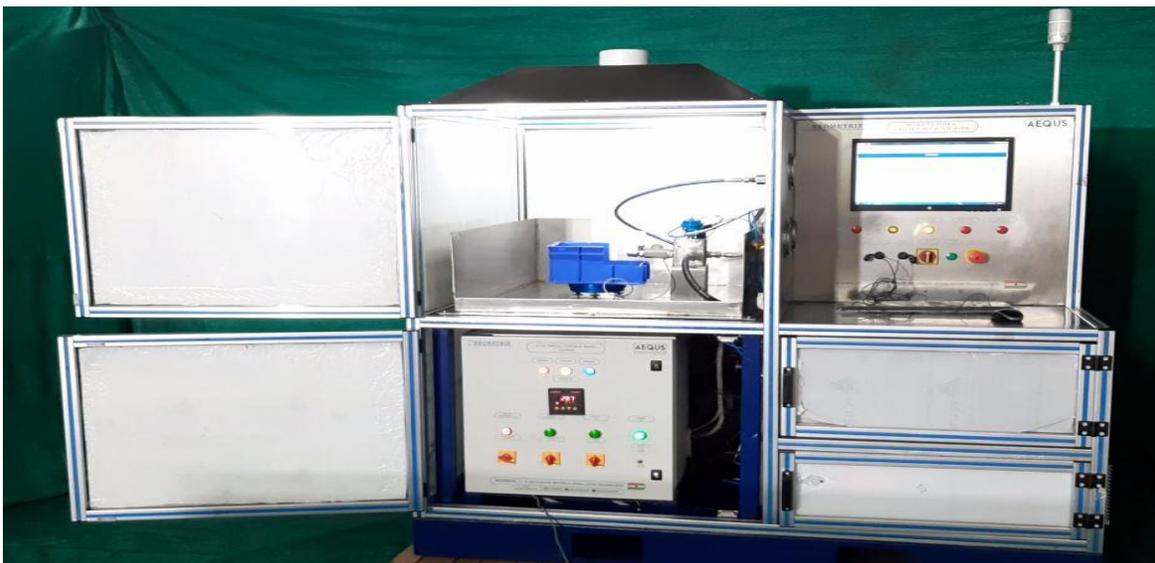
About

Aerospace Nozzle Flow Test Bench, have constant temperature refrigerated Liquid bath chiller with heater, whose size of inner chamber (500 x 400 x 400 mm//SS 304), with fluid capacity 80 Liter. This thermostatically controlled oil tank (temperature +5 to +95 degree Celsius with accuracy of +/-0.1 degree Celsius) will maintain temperature of working fluid (Turbonycoil 13 B) at 35 degree Celsius.

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This Bench will estimate flow rate (l.p.h) of nozzle at temperature 35 degree Celsius and working pressure (200 kpa \pm 10 kpa) by using Turbonycoil 13 B (oil).

This test will estimate Flow Rate and Flow Direction of oil jets/nozzle by using 3cst type oils at 98.9 degree Celsius meeting French specifications AIR 3514 or American specifications MIL-L-7808 G (TN 13 B for instance),oil will use at a temperature 35 degree Celsius and at a pressure of 200kPa).



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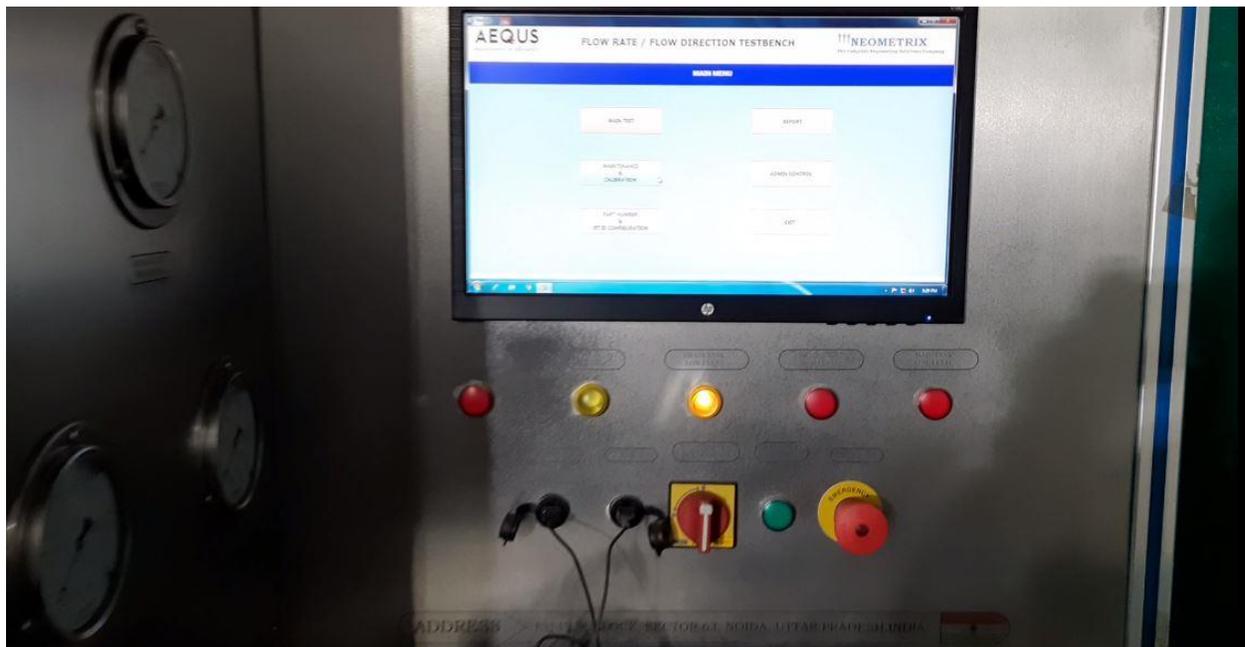
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Technical Specification-

- Testing : Nozzle /oil jet
- Working fluid : Turbonycoil 13 B
- Flow line material : SS 304
- Main reservoir capacity : 80 lit.
- Level switch : at low point of fluid,
- Cooling : R.C.1.5 ton
- Heating : compressor
- Operating temperature : $35\text{ }^{\circ}\text{C} \pm 1^{\circ}\text{C}$
- Operating pressure : 200kPa
- Over all dimension : 1800x 1200 x2000 mm
- Equilibar : Low pressure, low flow rate
- Ball valve with actuator : normally open, single acting Spring return direction.



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Application

- This Machine used for measurement of mass flow Rate and Flow Direction of oil jets/nozzle.
- This machine is used for Aviation Equipment testing.
- This machine use for various Class of Nozzle testing at specific flow rate.
- This machine is used at various pressure range



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Key Features-

- Constant temperature oil tub used for maintain constant temperature
- Equilibrate controls the pressure by allowing excess flow to vent the system through the regulators outlet.
- Various interlocking provided in the system for safety purposes
- National instrument (NI) is providing in this system.
- Filters used for avoid contaminations in system.
- Ball Valve with Limit switch is used which is electrically controlled.



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