



TESTING SOLUTIONS

ELECTRIC WATER PUMP TEST BENCH

B_22892



B_22892 test bench is designed to test hydraulic performance of LIN and PWM vehicle water pumps. Pumps are fed with glycol water mix, at different temperature to simulate working conditions.

It's possible to run the pump at different speed or with a speed profile and regulate pressure on delivery side with a control valve.

Flow, pressure, temperature, power and speed are recorded.

The test bench is built for:

- Test vane with water control temperature
- Control console with electrical cabinet

By HMI touch panel it's possible to control:

- Flow, water pressure and temperature
- Test time and test steps profile.

TECHNICAL DATA:

- | | |
|---------------|-------------------|
| • Pressure | 2 bar (max) |
| • Flow | 400 ± 2 lpm (max) |
| • Temperature | 90 ± 2 °C (max) |

INSTRUMENTATION:

- | | |
|----------------------------|--|
| • Flow meters | 0 ÷ 200 lpm; 0,2% accuracy |
| • Pressure transmitters | 0 ÷ 2 bar, 1,7x10 ⁻⁴ % accuracy |
| • Temperature transmitters | 0 ÷ 120 °C, cl. AAA |

SAFETY DEVICES:

- Open doors interlock
- Test area with metal lids against shots
- Emergency mushroom button
- Test shutdown if component fails, oil leakage or test bench warning

SUPPLY:

- | | |
|--------------------------------|-------------------------|
| • Electric | 400 Vac - 50 Hz – 15 kW |
| • Glycol/water moisture (tank) | 35 l |

DIMENSIONS AND WEIGHT:

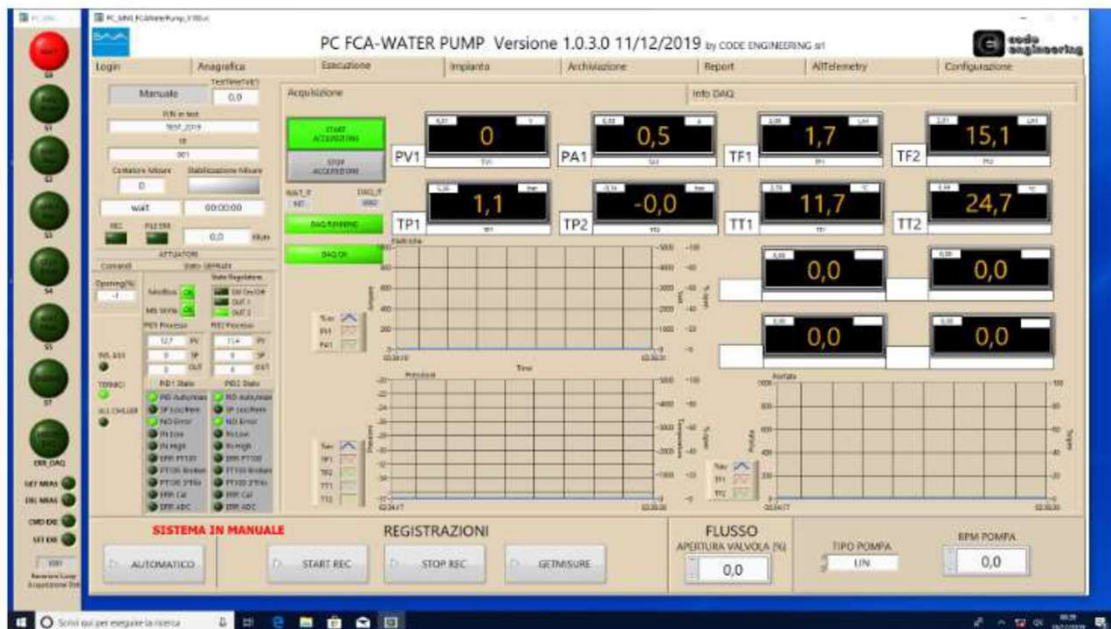
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|---------------------|-----------------------|
| • L, p, h (chamber) | 1200 x 1030 x 1700 mm |
| • L, p, h (console) | 1030 x 1100 x 1800 mm |
| • Total raw load | 400 + 280 kg |

COLORE:

- Standard Gray 7035

NOTE:

- Fluid and adapters not included



The test stand is equipped with a PC and NI data acquisition system.

PC software can set the test profile and can create a complete test report [pressure vs time].

The test bench meets Industry 4.0 requirements.

Via internet connection it allows you to:

- obtain informations about test bench and carry out control and management operations;
- use the BAVA remote assistance service;
- any kind of remote control.