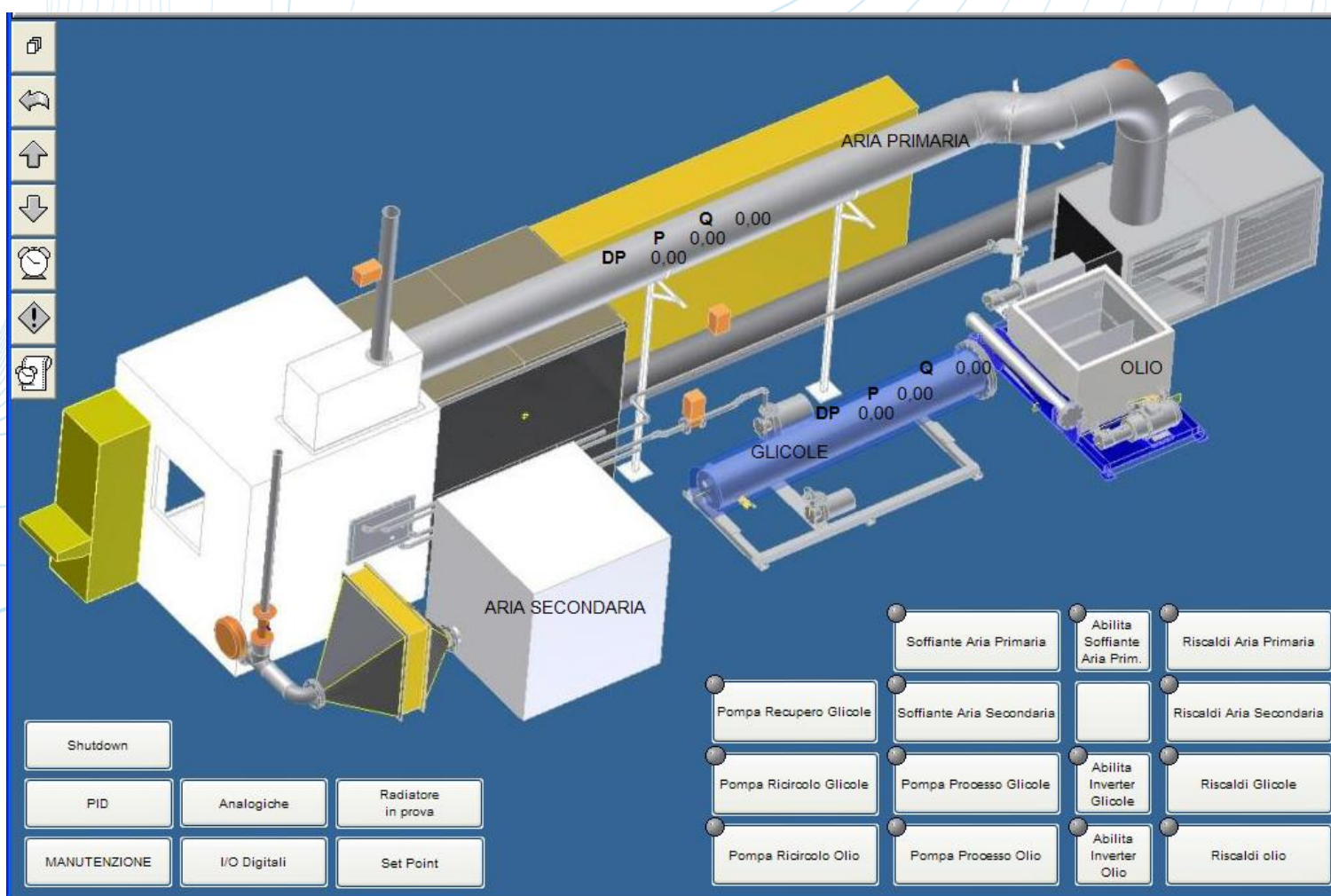




TESTING SOLUTIONS

HEAT EXCHANGERS TEST BENCH

B_19699



Test bench designed for heat exchanger testing:

- Efficiency;
- Dp of mass flow;
- DT.

The system consists of 4 circuits (primary air, secondary air, water / glycol mixture, oil), all controlled in flow, pressure and temperature to simulate and test radiators operating conditions (cars, heavy vehicles, agricultural machinery, special applications). All operations are controlled by the control console, which also includes the DAS (data acquisition system) and test report recording.

TECHNICAL DATA:

MAIN AIR:

from Ambient up to 50° C $\pm 1^\circ$ C;
Mass flow 1.500 ÷ 20.000 Kg/h;
Hydraulic head (plenum output) 1300 Pa (max flow).

SECONDARY AIR:

Inlet temperature 175° ÷ 230° C $\pm 1^\circ$ C;
Mass flow 180 ÷ 1.800 Kg;
Inlet hydraulic head 90 kPa.

LIQUID SIDE 1:

Type Water/glycol moisture
Max temperature 80°C ÷ 125°C $\pm 1^\circ$ C;
Power 140 kW;
Flow 2.000 ÷ 20.000 l/h
Max flow head hydraulic > 35 kPa (heat exchanger connections).

OIL:

Type ISO VG46;
Max temperature 70° ÷ 130° C $\pm 1^\circ$ C;
Power 30 kW;
Flow 500 ÷ 10.000 l/h;
Max flow pressure ~ 1 bar (heat exchanger connections) .

SAFETY DEVICES:

- empty circuit check;
- door electric lock;
- Emergency button;
- Test shut down if component failure; oil leakage or test bench warning;
- Over pressure valve and max temperature thermostat.

SUPPLY:

- Electric: 400 Vac - 50 Hz - 200 kW;
- Air: 6 bar;
- Water: 3,5 bar.

DIMENSIONS AND WEIGHT:

- L, p, h: 15.000 x 6500 x 4000 mm
- Raw weight: ~ 4500 kg.

COLOR:

- Standard: White RAL 9010.

NOTE:

- Customizable on demand.

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