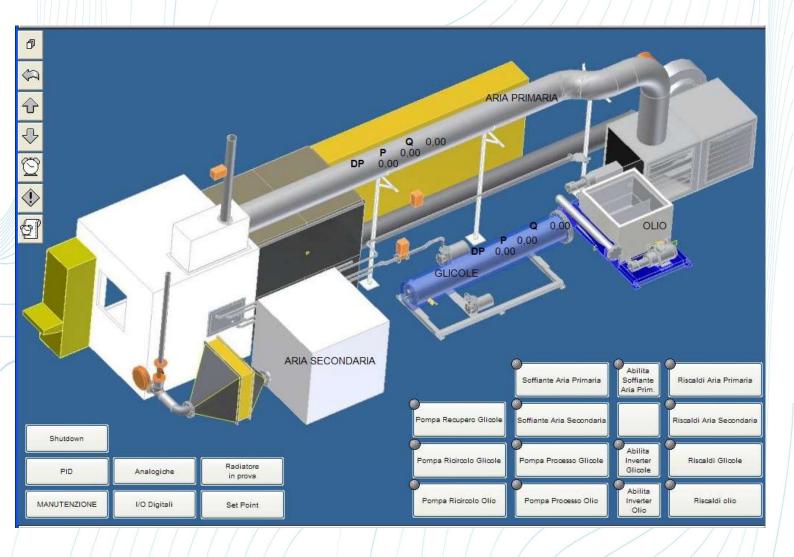


# HEAT EXCHANGERS TEST BENCH

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: up to 50° C ±1° C;

Mass flow  $1.500 \div 20.000 \text{ Kg/h};$ 

Hydraulic head (plenum output) 1300 Pa (max flow).

**SECONDARY AIR:** Inlet temperature 175° ÷ 230° C ±1° C;

Mass flow  $180 \div 1.800 \text{ Kg}$ ;

Inlet hydraulic head 90 kPa.

LIQUID SIDE 1: Type Water/glycol moisture

Max temperature  $80^{\circ}\text{C} \div 125^{\circ}\text{C} \pm 1^{\circ}\text{C}$ ;

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  $70^{\circ} \div 130^{\circ} \text{ C} \pm 1^{\circ} \text{ C};$ 

Power 30 kW;

Flow 500 ÷ 10.000 l/h;

Max flow pressure ~1 bar (heat exchanger connections) .

### SAFETY DEVICES:

- empty circuit check;
- door electric look;
- 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; 6 bar; 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.





