

KAW 510 +

WATER FEED GROUP FOR HYDRAULIC TEST BENCHES



Applications:

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APPLICATIONS

The group KAW 510 + allows the user to constantly feed with hot and cold water the hydraulic test benches both for laboratory use and for production lines.

It is made up of two independent plants used to produce and store hot and cold water (possibility of recovering return mixed water).

The refrigeration circuit uses a silenced airtight compressor, a forced air condenser, a tank external heat ex-

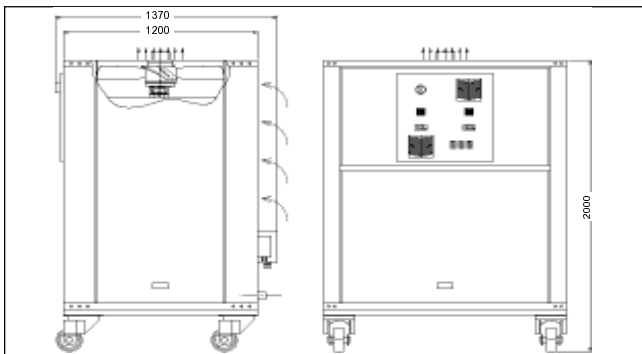
changer, an air-mixing pump and an expansion device with thermostatic valve + by-pass on hot gas.

The heating circuit uses two groups of armoured resistors and an air-mixing pump.

The group works with closed circuit. The test water is recovered and put again in the tanks where it is heated and cooled again at the temperatures needed for the test.

ADVANTAGES in comparison to a traditional fixed plant

- **Total recovery of water used for the test** (consumption is limited to the first filling and topping up needed to compensate losses due to evaporation)
- **High energy saving when KAW 510 is connected to our test benches equipped with a device for the differentiated water recovery** (water coming from the benches is separately conveyed to the tanks inside KW510 according to the temperature measured on the discharge device of the cock being tested)
- **Constant water delivery temperatures which causes tests to be repeatable and precise** (in optimal conditions –that is in continuous service– stability is higher than $\pm 1^\circ\text{C}$)
- **High usage flexibility:** working temperatures can be modified both upward and downward in short times with gradients higher than $1^\circ/\text{min}$.
- **Reduced starting transitory time:** the plant is operating in one hour with a water starting temperature equal to $+25^\circ\text{C}$
- **Constant monitoring of internal tank temperatures**
- **Prompt installation** with no need for buildings, gas feeding and fume discharge. The external hydraulic plant only needs to be fed from the water network in order to fill the tanks and the discharge collector to void tanks
- **Autonomous installation:** it is possible to put it at a distance of 10 m from the test bench.
- **Ease to move:** it has got rotating wheels with emergency brake



KAW 510+ TECHNICAL DATA

- Refrigerating power: 22 Kw
Refrigerating system with R407C
- Heating power: 24 Kw with two groups of 12 + 12 Kw
- Capacity of tank: 300 + 300 litres
- Adjustment field:
hot water $40 \div 90^\circ\text{C}$
cold water $5 \div 25^\circ\text{C}$
- Typical stability in dynamic conditions (50% of max flow rate): $\pm 1^\circ\text{C}$
- Usage ambient temperature: $15 \div 35^\circ\text{C}$
- Flow rate in continuous service: 10+10 litres/min. at 15 and 65°C
- Noise level: 75 db
- Axial fan – flow rate: 8,000 m³/h
- Electric power: 400V three phases 50 Hz + N Internal auxiliary devices 24V. AC
- Total installed power: 37 Kw
- Total absorption: 70.5 A
- Size: 1.500 x 1.200 x 2.000 mm
- Weight (empty): 600 kg



ISO 9001
CERT. N° 9115 GIU1



CERTIFICATION

All instruments have got a testing, stability and precision certification with reference to primary SIT samples.

A QUESTION OF CALIBRATION

GIUSSANI S.r.l.

Via dei Crederi, 411

24045 Fara Gera d'Adda (BG) - Italy

Tel. 0363/399019 - Fax 0363/398725

www.giussanionline.it

e-mail info@giussanionline.it