

ROFA

Founded 1958

Laboratory & Process Analyzers
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COOLING TOWER EAW 2210

The EAW 2210 cooling tower has been specially developed for engine laboratories engines and satisfactorily substitutes the traditional ice tower in the ASTM test for octane analysis.

It filters, cools and dehumidificates the engine intake air, thus bringing it within the prescribed limits (3.6-7-2g/kg). Which are otherwise difficult to reach.

In addition, it also cools a mixture of water and ethylene-glycol that can be forwarded to the carburetors by inserting two quick couplings in case the carburetors need to be cooled.



How it works

An hermetic air refrigeration unit cools the unfreezable liquid placed in the container. By means of a pump the liquid is forwarded to the heat exchange, than, if required, to the carburetors trough the couplings and otherwise it returns to the container trough the valve, ready to restart the cycle.

Digital microprocessor thermometer thermostat

A digital microprocessor thermometer / thermostat enables to control the temperature to the unfreezable liquid which determines the dew point of the intake air. The air loses its humidity surplus when it reaches the cold surface of the heat exchange.

LONDON declaration on protection of ozone layers

Approach "LONDON DECLARATION ON PROTECTION OF OZONE LAYERS" our cooling tower has been equipped with a new refrigeration plant that can be operate with HCFC 22 (ODP = 0,05). ODP = OZONE DEPLETION POTENTIAL.

Description of the materials technical specification

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|---|------------------------------------|
| 1. Chilled liquid circulation pump | Temperature range -5 / +20 °C |
| 2. Dehumidification chamber in AISI 304 | Power input 500 W |
| 3. Heat exchanger Cu/Al | Power supply 220.1.50 |
| 4. Acrylic air filter | Dry air outlet diameter 145 mm |
| 5/6. Quick couplings in chrome plated brass | Dimensions (WxLxH) 350x450x1500 mm |
| 7. By pass valve | |
| 8. Chilled liquid tank in AISI 304 | |
| 9. Wet air inlet | |
- Dry air outlet to the engine intake