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SPECIFICATION

UNIVERSAL PUMP-COPRESSOR STATIONS

Working media - refrigerant 134a

Universal pump-compressor stations (UPCS) are designed for pumping (charging, evacuating, recovery) clean **refrigerant 134a (Freon 134a, Tetrafluoroethane, R-134a, Halocarbon 134a)** and are manufactured in accordance with TC 3632-012- 85505701-2016 based on oil-free compressors (have passed patent protection).

Main characteristics of producing UPCS for working media Freon 134a:

- ◆ Pump type: piston, oil-free
- ◆ Type of compressor: piston, oil-free, single-stage
- ◆ Quantity of cylinders: two-cylinder / four-cylinder
- ◆ Discharge pressure range: 0 - 3.5 MPa (0-35 bar)
- ◆ Minimum inlet pressure: 0 bar
- ◆ Possibility of self-priming: yes
- ◆ Ability to work under excessive inlet pressure: yes
- ◆ Maximum inlet pressure: 1 MPa (10 bar)
- ◆ Drive type: electric, direct
- ◆ Ability to adjustment of the engine: Yes (depends on construction)
- ◆ Leak proof: Yes
- ◆ Power consumption: 1-3 kW
- ◆ Mains voltage required: 220/380V

Main spheres of application of universal pump-compressor stations:

- ◆ Charging (pumping, loading, filling) the cylinders with Freon 134a;
- ◆ Pumping (evacuating, recovery) cylinders with Freon 134a till zero (the collection of the gas phase);
- ◆ Submission of Freon 134a in other containers working under pressure (dosing, packaging, filling, compression);
- ◆ Useful for chromatographic columns with Freon 134a (for gas chromatography);
- ◆ Liquefaction of Freon 134a by pressure;
- ◆ Pumping of liquid and gas phase of Freon 134a from any vessels, ISO-tanks;
- ◆ Refueling (reloading, recharging) refrigeration, freezing, conditioning and other systems with Freon 134a.

Main advantages of UPCS on oil-free compressor working with Freon 134a:

- ◆ Pumping of pure raw materials;
- ◆ Evacuation of the gas (vapor) phase, which is considered as loss (non-pumped residue);
- ◆ Collection of residues without the use of inert gases (nitrogen, other exhaust gases);
- ◆ Variability of construction (individual characteristics and needs of the consumer);
- ◆ High quality materials and components.

THERMODYNAMIC PROPERTIES OF FREON 134A

