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SPECIFICATION

UNIVERSAL PUMP-COPRESSOR STATIONS Working media - refrigerant 407 (C/D/E/F)

Universal pump-compressor stations (UPCS) are designed for pumping (charging, evacuating, recovery) clean <u>refrigerant 407 (Freon 407, R-407, refrigerant 407C/D/E/F, mix of R32+R125+R134a</u>) 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 407:

- ♦ 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 407;
- Pumping (evacuating, recovery) cylinders with Freon 407 till zero (the collection of the gas phase);
- Submission of Freon 407 in other containers working under pressure (dosing, packaging, filling, compression);
- ♦ Useful for chromatographic columns with Freon 407 (for gas chromatography);
- ◆ Liquefaction of Freon 407 by pressure;
- Pumping of liquid and gas phase of Freon 407 from any vessels, ISO-tanks;
- Refueling (reloading, recharging) the refrigeration, freezing, conditioning and other systems with Freon 407.

Main advantages of UPCS on oil-free compressor working with Freon 407:

- ◆ 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 407C

