Group of the Companies «RealSnabService» (LLC)

Russia, Saint-Petersburg city, Bolshevikov Avenue, 54, house5 str.A, 193315

+7 (812) 600.10.84, (812) 600.11.35, (812) 380.44.40, info@gkrss.com, www.gkrss.com

SPECIFICATION

UNIVERSAL PUMP-COPRESSOR STATIONS

Working media - refrigerant 125

*Universal pump-compressor stations (UPCS) are designed for pumping (charging, evacuating, recovery) clean **refrigerant 125 (Freon 125, R-125, Pentafluoroethane)** 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 125:

- *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 125;*
- *Pumping (evacuating, recovery) cylinders with Freon 125 till zero (the collection of the gas phase);*
- *Submission of Freon 125 in other containers working under pressure (dosing, packaging, filling, compression);*
- *Useful for chromatographic columns with Freon 125 (for gas chromatography);*
- *Liquefaction of Freon 125 by pressure;*
- *Pumping of liquid and gas phase of Freon 125 from any vessels, ISO-tanks;*
- *Refueling (reloading, recharging) the refrigeration, fire-extinguishing and other systems with Freon 125.*

Main advantages of UPCS on oil-free compressor working with Freon 125:

- *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 125