

Technical Specifications

Recovery and Recycling Equipment and Sets of Tools for refrigeration technicians

Items to be Supplied	Quantity, piece	Description / Specifications of Goods	Latest Delivery Date
1.	2	<p>REFRIGERANTS RECYCLING AND RECOVERY UNIT</p> <ul style="list-style-type: none"> • Power from 350 to 500 w; • Type of refrigerants: HCFC and HFC; • Portable, the maximum weight is not less than 80 kg; • Recycling (productivity): gas 10 ÷ 15 kg/h; • fluid 80 ÷ 120 kg/h; • Voltage: 220 v; 50 Hz; • current consumption phase ~1; • Oil less compressor with cooling fan of condenser and built-in vacuum pump - 0.05 mbar; • Measuring devices, embedded in equipment; • Automatic high pressure safety switch; • Overfill protection (OFP) switch; • Automatic extraction; • Casing: fully enclosed durable chassis on wheels; <p>OPERATIONS MANUAL: in Russian or English; WARRANTY: not less than 2 (two) years from the date of delivery of the equipment.</p>	60 calendar days upon signature of contract
2.	2	<p>SPARE KITS FOR REFRIGERANTS RECOVERY UNIT</p> <ul style="list-style-type: none"> • Replaceable filters – 10 pieces for 1 unit; • Kit of three standard (long) service hoses with spherical gates for unit (1 kit); • Spare manometer (1 piece); • Viewing control glass with standard connection (1 piece); • Other spare parts at the discretion of the supplier which can be necessary for operation of the unit during 1 year. 	60 calendar days upon signature of contract
3.	2	<p>PORTABLE CHARGING STATION (HC)</p> <ul style="list-style-type: none"> • Vacuum pump up to 35 Liter/min; • Electronic scale range from 0 to 2000 g; • Accuracy from 0 to 2 g; • Refrigerant cylinder with valve; • Vacuum gauge from 60 to 80 mm diameter; • At least one LP gauge for R-134a, R-12, R-22 and one LP gauge for R-600a, • Necessary charging hoses including one special hose of not less than 5 meter length in order to prevent any R600a gas (Isobutan) in the working area; <p>OPERATIONS MANUAL: in Russian or English; WARRANTY: not less than 2 (two) years from the date of delivery of the equipment.</p>	60 calendar days upon signature of contract
4.	2	<p>SPARE KITS FOR PORTABLE CHARGING STATION (HC)</p> <ul style="list-style-type: none"> • Replaceable filters – 10 pieces per 1 unit; • Kit of three standard (long) service hoses with spherical gates for unit (1 kit); • Spare manometer (1 piece); • Viewing control glass with standard connection (1 piece); 	60 calendar days upon signature of contract

		<ul style="list-style-type: none"> Other spare parts at the discretion of the supplier which can be necessary for uninterrupted operation of the station during 1 year. 	
5.	2	<p>PORTABLE RECOVERY STATION</p> <ul style="list-style-type: none"> Vapour rate: up to max. 22 kg/h; Liquid rate: up to 138 kg/h Push-pull up to max. 378 kg/h; Allows for recovery of HCFC or HFC, including blends, such as R404a and R410a; Portable, the maximum weight is no more than 15 kg; Completely closed strong casing; <p>OPERATIONS MANUAL: in Russian or English; WARRANTY: not less than 2 (two) years from the date of delivery of the equipment.</p>	60 calendar days upon signature of contract
6.	2	<p>SPARE KITS FOR PORTABLE RECOVERY STATION</p> <ul style="list-style-type: none"> Replaceable filters – 10 kits per 1 piece; Kit of three standard (long) service hoses with spherical gates for unit (1 kit); Spare manometer (1 piece); Viewing control glass with standard connection (1 piece); Other spare parts at the discretion of the supplier which can be necessary for operation of the unit during 1 year. 	60 calendar days upon signature of contract
7.	1	<p>HEAT PUMP CO2</p> <ul style="list-style-type: none"> Water Temperature Setting: min. 60.....65°C; max. 85...90°C Type of heat pump: Air-Water Ambient Air Operating Temperature: -20....45°C Heat Pump Capacity: 4,0 – 5,0 kW Heat Pump COP: 4,0 – 5,0 Refrigerant Type: R744 (CO₂) Compressor Type: Invertor Power voltage: 220 V / 50 Hz Storage tank volume: 200...250 L. <p>OPERATIONS MANUAL: in Russian or English; WARRANTY: not less than 2 (two) years from the date of delivery of the equipment.</p>	60 calendar days upon signature of contract
8.	4	<p>MULTI-REFRIGERANT ANALYZER</p> <ul style="list-style-type: none"> For refrigerants HCFCs, HFCs and hydrocarbons (HC); - R-134a, R-22, R-404A, R-407C and R-410A and natural refrigerants as well Accuracy: +/- 2% of indicated gasses or better; Weight: Less than 10 lb; Temperature range from 50 to 110° F; Response time: Less than 3 Minutes; Humidity: from 0 to 95% RH non-condensing; Test sample size: not more than 5g per test; Test pressure: from 50 psi to 500 psi; A built-in USB port for additional refrigerants; <p>OPERATIONS MANUAL: in Russian or English; WARRANTY: not less than 2 (two) years from the date of delivery of the equipment.</p>	60 calendar days upon signature of contract
9.	4	<p>SPARE KITS FOR MULTI-REFRIGERANT ANALYZER</p> <ul style="list-style-type: none"> 5 sets of filters; 5 rolls of printer paper. 	60 calendar days upon signature of contract
10.	2	<p>PORTABLE SOLDERING UNIT</p> <ul style="list-style-type: none"> For iron, steel, tin, and nonferrous metals with brazing alloy; Powered by gas-oxygen; Flame temperature not less than 2830 °C; 	60 calendar days upon signature of contract

		<ul style="list-style-type: none"> Weight not more than 25 kg; <p>OPERATIONS MANUAL: in Russian or English; WARRANTY: not less than 2 (two) years from the date of delivery of the equipment.</p>	
11.	2	<p>PORTABLE ELECTRONIC WEIGHING SCALES</p> <ul style="list-style-type: none"> Capacity not less than 100 kg; Resolution up to 10 g; Accuracy +/- 0.1 %; <p>OPERATIONS MANUAL: in Russian or English; WARRANTY: not less than 2 (two) years from the date of delivery of the equipment.</p>	60 calendar days upon signature of contract
12.	2	<p>DIGITAL VACUUM GAUGE</p> <ul style="list-style-type: none"> Vacuum Range from 0 to 18000 microns; Resolution not less than 1 Micron; Not less than 7 units: Micron, PSI, InHg, mbar, Pascal, Torr, mTorr, Hook; Cleaning port for cleaning of sensor; Accuracy ±10% from 10–99 micron, ±10 micron from 100–1000 micron; Overpressure up to 20 bar; <p>OPERATIONS MANUAL: in Russian or English; WARRANTY: not less than 2 (two) years from the date of delivery of the equipment.</p>	60 calendar days upon signature of contract
13.	2	<p>INFRARED REFRIGERANT LEAK DETECTOR</p> <ul style="list-style-type: none"> Three sensitivity levels down to 0.15 oz./year; Automatically recalibrates in highly contaminated areas to help pinpoint exact location of leak; Won't trigger on oil or moisture; Senses at least CFC, HFC, HCFC blends and HFO-1234yf refrigerants; Visual alert and peak button make it easy to find leaks in noisy environments; Audible alert with mute button. <p>OPERATIONS MANUAL: in Russian or English; WARRANTY: not less than 2 (two) years from the date of delivery of the equipment.</p>	60 calendar days upon signature of contract
14	8	<p>ELECTRONIC LEAK DETECTOR</p> <ul style="list-style-type: none"> Sensitivity: 0.05 oz/yr; Can sense at least all HFC, refrigerants and blends including HFC's R410A, R404A, R407C, R134a & R32. Sensitivity Levels: MAX- 0.15oz/yr (4 g/yr), MED- 0.25oz/yr (7 g/yr), MIN- 0.5 oz/yr (14 g/yr); Warm-up time: approx. 30 seconds; Response time: instantaneous; <p>OPERATIONS MANUAL: in Russian or English; WARRANTY: not less than 2 (two) years from the date of delivery of the equipment.</p>	60 calendar days upon signature of contract
15.	2	<p>AMMONIA LEAK DETECTOR</p> <p>OPERATIONS MANUAL: in Russian or English; WARRANTY: not less than 2 (two) years from the date of delivery of the equipment.</p>	60 calendar days upon signature of contract
16.	2	<p>LEAK DETECTOR OF METHANE AND PROPANE</p> <p>OPERATIONS MANUAL: in Russian or English; WARRANTY: not less than 2 (two) years from the date of delivery of the equipment.</p>	60 calendar days upon signature of contract
Total:			