ՆԿԱՐԱԳԻՐ

առաջարկվող ապրանքի ամբողջական

Shanxi laboratory Equipment CO LTD-ն ԲԿԳԿ-ԷԱՃԱՊՁԲ-26/14 ծածկագրով կազմակերպված էլեկտրոնային աճուրդին մասնակցելու շրջանակում ներկայացնում է իր կողմից առաջարկվող ապրանքի ամբողջական նկարագիրը

Չափաբաժնի համար	Առաջարկվող ապրանքի				
	ֆիրմային անվանումը	ապրանքային նշանը	մակնիշը	արտադրողի անվանումը	տեխնիկական բնութագիրը
1	Win Imp & Exp Co., Ltd.	Bang Win	Bang Win	Win Imp & Exp Co., Ltd.	High-Pressure Nitrogen Filling Station 1. General Provisions 1.1. The station is designed for the generation of high-purity nitrogen from atmospheric air using Pressure Swing Adsorption (PSA) technology with carbon molecular sieve as the adsorbent. 1.2. Nitrogen separation is carried out based on the difference in adsorption and diffusion rates of oxygen and nitrogen at near-ambient temperature. 1.3. The station shall be supplied as a complete, factory-assembled unit mounted on a metal frame. 1.4. After installation and

						connection to the power supply, the station shall be ready for operation. 1.5. No structural modifications or additional installation after delivery are allowed, as the equipment is designed for operating pressures up to 200 bar and is classified as high-risk equipment. 2. Operational Requirements 2.1. The station shall ensure: Nitrogen purity: ≥99.999% Capacity: ≥50 L/min Outlet pressure: ≥200 bar (adjustable) Start-up time: ≤30 minutes Fully automatic operation 2.2. The station shall include dual adsorption towers operating alternately (one in adsorption mode, the other in regeneration mode). 2.3. Control shall be implemented via a PLC system with automatic control of pneumatic valves. 3. System Configuration and Detailed Description The station shall include: Screw air compressor (≥7.5 kW, ≥66 m^3/h, ≥8 bar, 380 V) Air dryer (8–12 bar, dew point 0–4°C) At least a 5-stage filtration system Air receiver tank (≥300 L, up to 10 bar) PSA nitrogen generator (≥50 L/min, ≥99.999%, 220 V) Nitrogen buffer

						tank (≥300 L, up to 10 bar) Medium-pressure nitrogen booster (outlet: 15 bar ±5%) Medium-pressure nitrogen tank (up to 16 bar) High-pressure nitrogen booster (outlet ≥200 bar, 380 V) High-pressure filling manifold (up to 200 bar, for 5 cylinders) High-pressure gas cylinders, 50 L (up to 200 bar) 3.1 Screw Air Compressor Three-phase (380 V) screw air compressor with power not less than 7.5 kW and air capacity not less than 66 m³/h. Output pressure ≥8 bar. Noise level ≤60 dB. Compact dimensions not exceeding 900×700×900 mm. Equipped with an intelligent PLC control unit and digital LED display. Capable of setting timer, maintenance schedule, outlet pressure, etc. Includes maintenance kit (oil, filters, gaskets). 3.2 Air Dryer Designed to dry compressed air by cooling water vapor and automatic condensate drainage. Operates at 8–12 bar with capacity of 2.5–3 m³/h and dew point of 0–4°C. Equipped with a refrigeration compressor (600 W ±10%), fan, and heat exchanger. 3.3 Filtration System Designed to

						remove contaminants from air. Consists of at least 5-stage filtration units removing moisture, organic molecules, dust, bacteria, odors, etc., with efficiency ≥99.9%. Residual contaminants ≤0.001 mg/m³ or 0.001 ppm. 3.4 Air Receiver Tank Used to store compressed and purified air for further processing. Volume ≥300 L, steel construction, pressure rating up to 10 bar. Equipped with pressure gauge, safety valve, inlet/outlet valves, and drain valve. Dimensions: 500×1500 mm ±10%. 3.5 PSA Nitrogen Generator Capacity ≥50 L/min with purity ≥99.999%. Output pressure ≥6 bar (adjustable up to 8 bar). Power consumption 0.8–1.0 kW, 220 V / 50 Hz. Dimensions: 750×800×1900 mm ±10%. Controlled via PLC with digital LCD display. Output parameters adjustable by end user. Equipped with safety systems (automatic pressure relief valve, emergency stop button, etc.). Noise level <50 dB. 3.6 Nitrogen Tank Used for storage of nitrogen (99.999%) at 6–8 bar. Volume ≥300 L, steel construction,

ПОЛНОЕ ОПИСАНИЕ

предлагаемого товара

Shanxi laboratory Equipment CO LTD в качестве участника в рамках участия в электронном аукционе под кодом ԲՀՀՀ-ԷԱՃԱՊՁԲ-26/14 ниже представляет полное описание предлагаемого им товара.

Номер лота	Предлагаемый товар				
	фирменное наименование	товарный знак	марка	наименование производителя	технические характеристики
1	Win Imp & Exp Co., Ltd.	Bang Win	Bang Win	Win Imp & Exp Co., Ltd.	pressure rating up to 10 bar. Equipped with pressure gauge, safety valve, inlet/outlet valves, and drain valve. Dimensions: 500×1500 mm ±10%. 3.7 Medium-Pressure Nitrogen Booster Designed to compress nitrogen to 15–20 bar and fill the medium-pressure tank. Capacity: 50 L/min. Inlet pressure: 5–6 bar; outlet pressure: 15 bar ±5%. Power supply: 220 V / 50 Hz, 2.5–3 kW. Controlled via PLC with LCD display. Equipped with at least 4 pressure gauges (inlet, outlet, cylinder pressure). Includes safety systems (automatic pressure relief, emergency stop, warning indicators). 3.8 Medium-Pressure Nitrogen Tank Volume ≥300 L, steel construction, pressure rating up to 16 bar. Equipped with pressure gauge, safety valve, inlet/outlet valves, and drain valve. Dimensions: 500×1500 mm ±10%. 3.9 High-Pressure Nitrogen Booster Designed to compress nitrogen from 15 bar up to at least 160 bar for cylinder filling. Capacity: 50 L/min. Inlet pressure ≥15 bar; outlet pressure ≥160 bar (adjustable). Power supply: 380 V / 50	High-Pressure Nitrogen Filling Station 1. General Provisions 1.1. The station is designed for the generation of high-purity nitrogen from atmospheric air using Pressure Swing Adsorption (PSA) technology with carbon molecular sieve as the adsorbent. 1.2. Nitrogen separation is carried out based on the difference in adsorption and diffusion rates of oxygen and nitrogen at near-ambient temperature. 1.3. The station shall be supplied as a complete, factory-assembled unit mounted on a metal frame. 1.4. After installation and

					Design a 5-stage filtration system with 5 µm, 1 µm, 0.5 µm, 0.1 µm, and 0.01 µm elements in 304 stainless steel housings. Include differential pressure gauges across each stage and a bypass line for maintenance. Size for 2,000 L/min at 10 bar with ≤ 0.5 bar clean pressure drop. Provide isolation valves upstream and downstream of each housing. Add a pressure relief valve set at 12 bar. Include a manual drain valve at the lowest point. Specify quick-release clamps for element changeout. Add a flow meter with totalizer. Include a sampling port after each stage. Design for 8 bar operating pressure. Add a pressure transmitter with 4–20 mA output. Include a high-pressure alarm at 9 bar. Provide a PLC-ready signal for remote monitoring. Add a safety shutoff valve triggered by high pressure. Include a bypass valve for maintenance. Design for easy element removal. Add a pressure gauge on the inlet and outlet. Include a pressure relief valve. Design for 10 bar and 200 L/min. Use 304 stainless steel. Add a drain valve. Include a sampling port. Design for easy element removal. Add a pressure transmitter. Include a high-pressure alarm. Provide a PLC-ready signal. Add a safety shutoff valve. Include a bypass valve. Design for 8 bar and 2,000

					tank (e.g., 300 L, supplied by Medium-pressure nitrogen booster (outlet 15 bar, ±5%). Medium-pressure nitrogen tank (inlet 16 bar). High-pressure nitrogen booster (inlet ≥ 200 bar, outlet 300 bar, from Swiss manufacturer). 3.1 Screw Air Compressor
					Three-phase (380 V) screw air compressor with power not less than 7.5 kW and air capacity not less than 66 m³/h. Output pressure ≥8 bar. Noise level ≤60 dB. Compact dimensions not exceeding 900×700×900 mm. Equipped with an intelligent PLC control unit and digital LED display. Capable of setting timer, maintenance schedule, outlet pressure, etc. Includes maintenance kit (oil, filters, gaskets). 3.2 Air Dryer Designed to dry compressed air by cooling water vapor and automatic condensate drainage. Operates at 8–12 bar with capacity of 2.5–3 m³/h and dew point of 0–4°C. Equipped with a refrigeration compressor (600 W ±10%), fan, and heat exchanger. 3.3 Filtration System Designed to

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						Hz, 4.5–5.5 kW. Controlled via PLC with LCD display. Equipped with at least 4 pressure gauges (inlet, outlet, internal piston pressure). Includes safety systems (automatic pressure relief, emergency stop, warning indicators). 3.10 High-Pressure Filling Manifold Made of 304 stainless steel. Designed for filling at least 5 cylinders (50 L each). Pressure rating up to 200 bar. Equipped with 5 high-pressure valves. Connected to booster via high-pressure hose. Pressure monitored by gauges and controlled via valves. Includes metal frame for safe cylinder storage. 3.11 High-Pressure Cylinders Included in the system. Volume: 50 L. Pressure rating: up to 200 bar. Easily connected/disconnected from the manifold without additional mechanical components. 4. Safety Requirements 4.1. The system shall be equipped with safety valves, automatic pressure relief system, emergency stop button, and pressure gauges. 4.2. All high-pressure components shall comply with operating pressure requirements up

					to 200 bar. 5. Supplier Obligations 5.1. Installation at the customer-approved site. 5.2. Electrical and communication works (including all necessary materials). 5.3. Commissioning and start-up. 5.4. On-site personnel training. 6. Warranty Warranty period: 12 months Warranty service: 12 months