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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.	<p>High-Pressure Nitrogen Filling Station</p> <p>1. General Provisions</p> <p>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.</p> <p>1.2. Nitrogen separation is carried out based on the difference in adsorption and diffusion rates of oxygen and nitrogen at near-ambient temperature.</p> <p>1.3. The station shall be supplied as a complete, factory-assembled unit mounted on a metal frame.</p> <p>1.4. After installation and</p>

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: $\geq 99.999\%$ 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 m³/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, $\geq 99.999\%$, 220 V) Nitrogen buffer

tank (≥ 300 L, up to 10 bar) Medium-pressure nitrogen booster (outlet: 15 bar $\pm 5\%$) 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 $\pm 10\%$), 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 $\geq 99.9\%$. Residual contaminants $\leq 0.001 \text{ mg/m}^3$ or 0.001 ppm .

3.4 Air Receiver Tank Used to store compressed and purified air for further processing. Volume $\geq 300 \text{ L}$, steel construction, pressure rating up to 10 bar . Equipped with pressure gauge, safety valve, inlet/outlet valves, and drain valve. Dimensions: $500 \times 1500 \text{ mm} \pm 10\%$.

3.5 PSA Nitrogen Generator Capacity $\geq 50 \text{ L/min}$ with purity $\geq 99.999\%$. Output pressure $\geq 6 \text{ bar}$ (adjustable up to 8 bar). Power consumption $0.8\text{--}1.0 \text{ kW}$, $220 \text{ V} / 50 \text{ Hz}$. Dimensions: $750 \times 800 \times 1900 \text{ mm} \pm 10\%$. 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 $< 50 \text{ dB}$.

3.6 Nitrogen Tank Used for storage of nitrogen (99.999%) at $6\text{--}8 \text{ bar}$. Volume $\geq 300 \text{ L}$, steel construction,

ПОЛНОЕ ОПИСАНИЕ

предлагаемого товара

Shanxi laboratory Equipment CO LTD в качестве участника в рамках участия в электронном аукционе под кодом ЕЦЦ-ЕЦЦП-26/14 ниже представляет полное описание предлагаемого

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, 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

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 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

Номер лота	фирменное наименование	товарный знак	марка	наименование производителя
1	Win Imp & Exp Co., Ltd.	Bang Win	Bang Win	Win Imp & Exp Co., Ltd.

				<p> tank 200-300 L supply (0.6 bar) medium-pressure stainless steel (stainless steel-15 bar) 50% medium-pressure nitrogen tank (up to 16 bar) high pressure all nitrogen systems materials ≥ 303 bar, 380 V) high pressure fitting up to 40 bar (up to 200 bar, for 50% of the rating) Wares by epoxy 12 liter, 50 W capacity 200 bar) 3.1 Screw Air Compressor </p>
				<p> 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 $\pm 10\%$), fan, and heat exchanger. 3.3 Filtration System Designed to </p>

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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

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

					<p>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</p>
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