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JCCL
Japan Carbon Cycle Lab.

Vacuum Steam Pressure Swing CO_2 Capture System (VPSA2：30kg-CO_2/day)



VPSA2 Image

The VPSA Series is a CO_2 recovery system that captures CO_2 from post-combustion exhaust gas using JCCL's proprietary solid absorbent and separates and concentrates it with vacuum steam. It can recover 30 kg of high-purity CO_2 per day from city gas exhaust. VPSA2, jointly developed with Toyo Seikan Group, is a compact CO_2 recovery unit housed in a 20-foot container.

Features

- **High-Purity Recovery :** Capable of recovering CO_2 at a purity level of over 99%.
- **CO_2 Recovery Capacity :** Recovers 30 kg of CO_2 per day from city gas combustion exhaust.
- **Versatile Applications :** Compatible with demonstration tests for CO_2 recovery from various exhaust sources.
- **Operational Safety :** No high-temperature or high-pressure processes are involved, resulting in low-risk operation.
- **Easy Installation :** Compact design (20-foot container size) allows for both indoor and outdoor installation.

(*20-foot container size: approximately 6.0 m in length, 2.4 m in width, and 2.6 m in height*)

Equipment Specifications

- Supply gas volume : 400 SLM
- Operating temperature : 40 °C - 60 °C
- Supply gas CO_2 concentration : 4 - 20 % (other concentrations negotiable)
- Supply gas pressure : atmospheric pressure (other conditions negotiable)
- CO_2 concentration measurement : NDIR type
- Supply gas volume control : mass flow measurement method & proportional valve control
- Recovered gas volume measurement : volume flow measurement method
- Power Supply : Three-phase AC 200V

❖ Please contact us for delivery date and price
❖ We also offer contracted evaluation tests, endurance tests, and acid gas endurance tests

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