

Vacuum Steam Pressure Swing CO₂ Capture System (VPSA2: 30kg-CO₂/day)



The VPSA Series is a CO₂ recovery system that captures CO₂ 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 CO₂ per day from city gas exhaust. VPSA2, jointly developed with Toyo Seikan Group, is a compact CO₂ recovery unit housed in a 20-foot container.

Features

- **High-Purity Recovery** : Capable of recovering CO₂ at a purity level of over 99%.
- **CO₂ Recovery Capacity** : Recovers 30 kg of CO₂ per day from city gas combustion exhaust.
- **Versatile Applications** : Compatible with demonstration tests for CO₂ 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 CO₂ concentration : 4 - 20 %
(other concentrations negotiable)
- Supply gas pressure : atmospheric pressure
(other conditions negotiable)

- CO₂ 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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