



**FRIGO
BLOCK**

Tuber Crops Storage Units



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FRIGO-PAC



Remote Control



Easy Installation



High Efficiency Cooling



Refrigerant Options



Energy Efficiency

TUBER CROPS STORAGE UNITS

FRIGO-PAC storage units are engineered for the long-term preservation of potatoes, onions, carrots, red beets, ginger, and other tuber crops. Combining advanced climate control technologies in a compact design, they provide precise environmental conditions that help maintain product quality while maximizing energy efficiency.

Key Features

- **All-in-One Climate Control**
Integrated cooling, heating, ventilation and humidification in a single compact unit.
- **Smart PLC Automation**
Intelligent climate management with real-time monitoring and precise control.
- **Energy-Efficient Fresh Air Management**
Automatic utilization of outdoor air whenever ambient conditions are suitable.
- **Flexible Capacity Range**
Multiple models for different storage capacities and project requirements.

Key Benefits

- **Extended Storage Life**
Helps minimize sprouting, dehydration and product losses during long-term storage.
- **Preserved Product Quality**
Stable temperature and humidity maintain freshness, appearance and market value.
- **Reduced Operating Costs**
Intelligent control strategies optimize energy consumption throughout the storage period.

Refrigerants

❄️ R448A, R449A, R452A, R404A, R454C, R455A, R290 (Propane)



Indoor Unit

- Heating, cooling, ventilation and humidification functions
- Free cooling (using outdoor air when required)
- Aluminum fins, copper tubes, AC fans
- Pressure-tested at 35 bar
- Adiabatic pad
- Electrical heater

Options:

- Stainless steel pipes
- Epoxy, hydrophilic or Blygold® coated aluminum fins
- Stainless steel casing
- Special alloy axial fans

Outdoor Unit

- Semi-hermetic reciprocating compressor
- Air-cooled condenser
- Delivered with 6 bar nitrogen holding charge
- Electrical panel with automatic control components, ready for installation

Options:

- Hermetic scroll compressor
- Frequency inverter
- Water-cooled condenser



Control & Sensors

CO₂ Sensor



Product Temperature Sensors



Room Humidity & Temperature Sensors



Outside Humidity & Temperature Sensors



PLC Control System

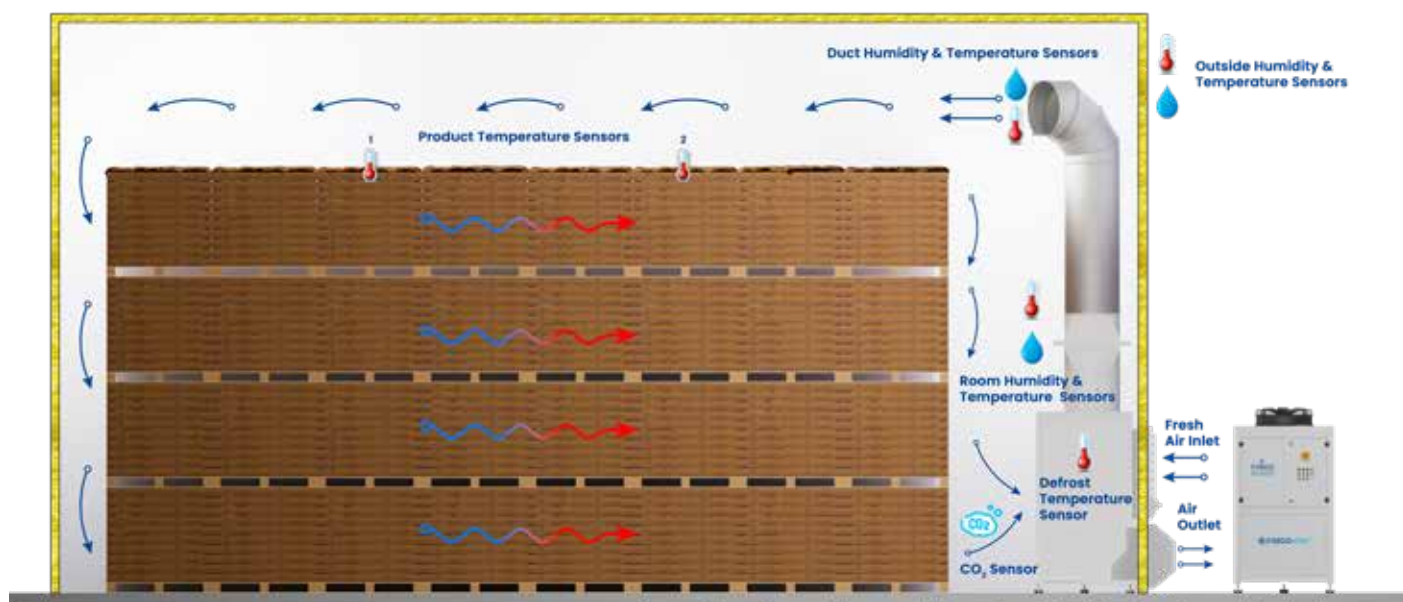


Duct Humidity & Temperature Sensors



Model Performance Data	PAC250	PAC500	PAC750	PAC1000	PAC1250	PAC1500
Storage Capacity (Ton)	250	500	750	1000	1250	1500
Air Flow Rate	21.135 m³/h	45.561 m³/h	67.375 m³/h	89.833 m³/h	109.483 m³/h	132.997 m³/h
Indoor Unit Fan Diameter / Quantity	Ø615 mm / 2	Ø615 mm / 3	Ø785 mm / 3	Ø785 mm / 4	Ø785 mm / 5	Ø785mm / 6
Air Outlet Hatch Quantity	2	4	4	4	6	6
Controller	Electronic Colorful Touch Screen					
Indoor Unit Heater Type	Electric or Water Heating Coil					
Humidity Level	65–98 %RH					
Power Supply	400 V / 3 Ph / 50 Hz					

Storage Layout



Animation Video

► Scan the QR code to watch the video demonstrating the **FRIGO-PAC** unit's operating principle.



Smart Design

Optimized air distribution and intelligent control ensure uniform climate conditions, energy efficiency and long-term product quality.

Frigoblock Pac Controller

Precision Control. Reliable Storage.

The Frigoblock PAC controller is an advanced automation solution designed to ensure more controlled, reliable, and efficient management of the storage process. By precisely regulating storage conditions according to the specific requirements of each product, it helps preserve product quality throughout the storage period. Its user-friendly design and advanced automation infrastructure simplify operational control while ensuring a reliable and uninterrupted storage process.

Key Features

- **Real-Time Storage Monitoring**
Instant monitoring of all critical storage parameters.
- **Automatic Climate Management**
Intelligent control algorithms for stable storage conditions.
- **Product Recipe Management**
Predefined storage programs optimized for different crop types.
- **CO₂ Monitoring & Safety Control**
Continuous monitoring with integrated safety functions.
- **Alarm History & Diagnostics**
Comprehensive event logging for fast troubleshooting and maintenance.
- **Manual Operation Mode**
Full manual control whenever required.
- **10" Touchscreen HMI**
Intuitive, user-friendly interface for easy operation.



Key Advantages



Consistent Storage
Performance



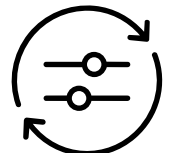
Increased Operational
Efficiency



Simplified
Operation

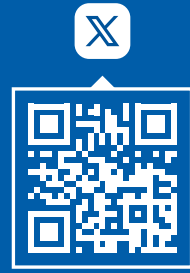


Reliable Storage
Management



Operational
Flexibility





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