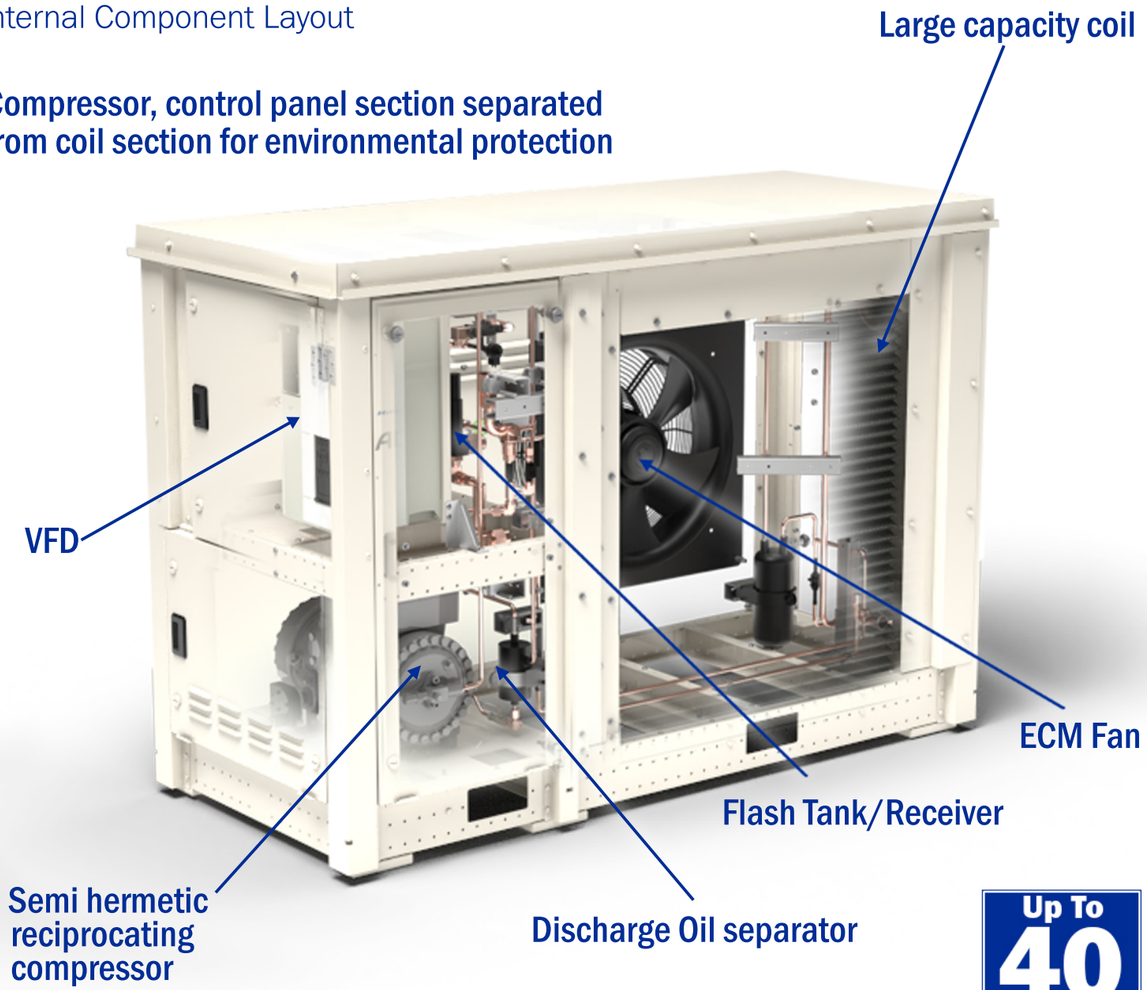
Hillphoenix
a DOVER company

ADVANSOR flex ONE

Robust
High-Ambient
Easy to Service
CO_2 Condensing Unit

Standard Features

Internal Component Layout

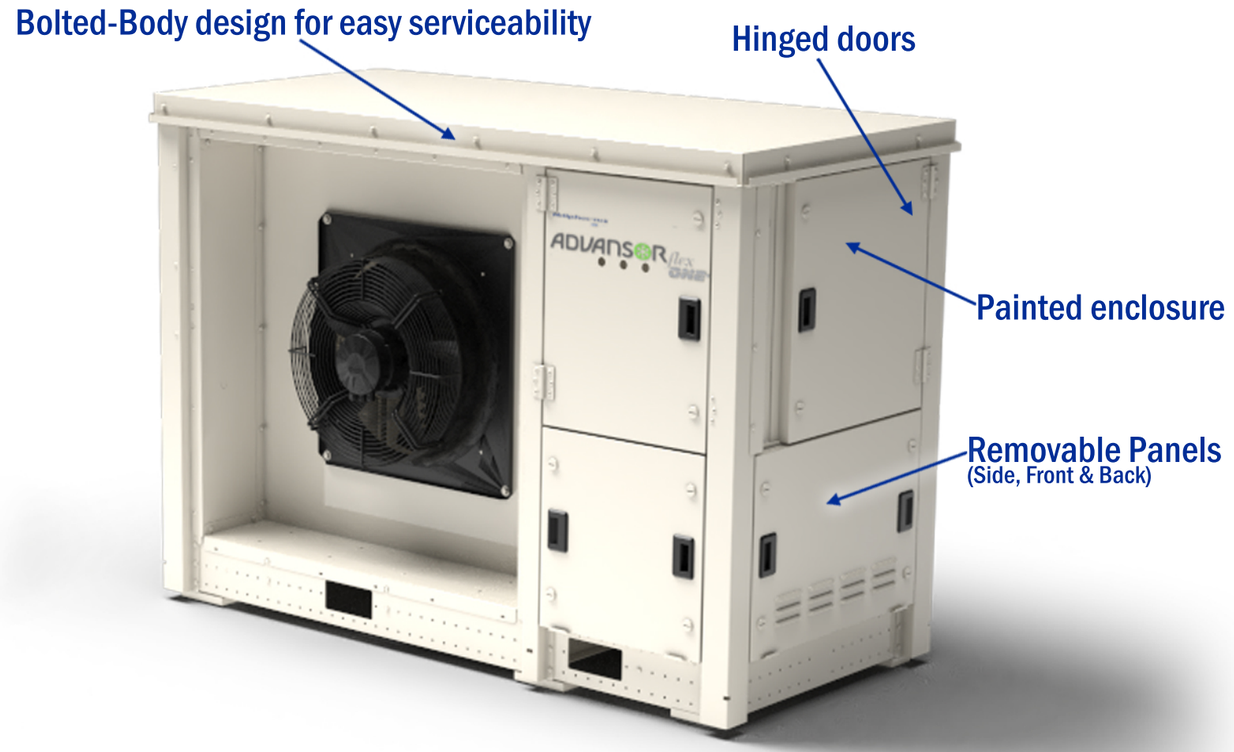


Up To 40 KBTUH*

High Ambient Resilience

The Advansor FlexOne™ maintains full cooling capacity during extreme temperature spikes. Integrating a VFD-driven, variable-speed compressor with advanced oil control, the system dynamically optimizes internal pressure and mass flow to handle the load. A large condenser coil pairs with an energy-efficient EC fan to maximize heat rejection. This ensures stable, natural CO_2 refrigeration up to 115°F for Medium Temp and 110°F for Low Temp within a compact, serviceable footprint.

Enclosure & Service Access



*Capacity varies based on ambient temperature; multiple models are available

Built for Long-Term Reliability

- Heavy-duty, repairable semi-hermetic compressors help support long service life & reduce replacement risk.

Performs in Demanding Conditions

- A large condenser coil and EC fan help maintain stable cooling performance in high ambient temperatures (115°F for Medium Temp & 110°F for Low Temp).

Helps Protect Critical Components

- The suction line accumulator helps prevent sudden compressor failure by catching unexpected liquid or oil before it can cause damage, while also adding protection during low-load operation and after defrost cycles.

Supports Efficient, Dependable Operation

- The oil separator helps preserve cooling performance by keeping oil from coating the coils and actively returns oil to the compressor to support continuous lubrication and system reliability.

Safer Refrigerant Management

- The flash tank/receiver helps retain refrigerant charge during operation and helps minimize refrigerant loss during servicing.

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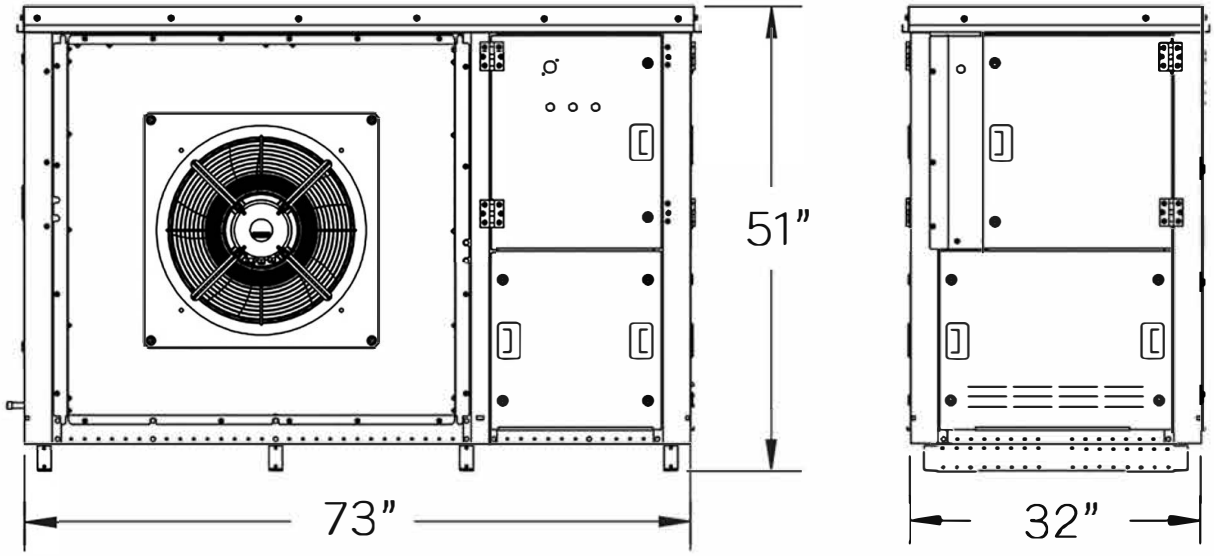

FRONT VIEW **RIGHT SIDE VIEW**

Weight ~1,250 lbs

Core Benefits

- **100% Eco-Friendly:** Uses natural CO_2 refrigerant.
- **Future-Ready:** Eliminates HFC/HFO phasedown risks.
- **Smart Efficiency:** Variable-speed compressor lowers energy bills.
- **Compact Footprint:** Fits into tight mechanical rooms.
- **Acoustic Control:** EC fan minimizes noise spikes
- **Connectivity Ready:** Factory-integrated controls.

Technical Specifications

MT Capacity range:
10 KBTUH to 40 KBTUH

- **LT Capacity range:**
  25 KBTUH to 40 KBTUH
- **Power:**
  208V/460V, 3ph, 60Hz

Technician-Friendly Design

- **Full Access:** Removable panels facilitate ease of serviceability.
- **Clean Piping:** Organized line routing simplifies diagnostics.
- **Easy Upkeep:** Front-facing valves and service ports.
- **Fast Setup:** Rapid commissioning minimizes store downtime.

Ideal Applications

- Walk-in coolers and freezers.
- Small and medium store formats.
- Phased retail store remodels.
- Micro-fulfillment and cold storage centers.
- Distributed, localized refrigeration setups.

24 MONTHS PARTS WARRANTY

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Specifications are subject to change without notice.

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