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Evolve™ Medical-Grade Refrigeration — A New Cold Has Arrived

Evolve compressor-free refrigerators are designed to meet the stringent guidelines for controlled storage of pharmaceutical drugs, vaccines, and medical devices. Evolve delivers accurate temperature control, superior reliability, remote monitoring, and whisper-quiet operation.

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Founded: 2009
Employees: 100+
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evolve a phononic brand

Company Background

Phononic is revolutionizing cooling and heating with solid state thermal management solutions. Headquartered in the heart of North Carolina's Research Triangle Park, the company provides solid state semiconductor technology that can be applied to everything from refrigeration to fiber optics, removing the barriers of traditional approaches and ushering in a new era of cooling and heating. The result is a solution to this age-old challenge that is distributed, convenient, sustainable, and connected. Phononic launched its first Evolve™ product in 2015.

Product Overview

The Evolve family of products dramatically modernizes cold storage technology for medical and healthcare facilities. The refrigerators operate without the traditional vapor compression system by using Phononic's SilverCore™ refrigeration system, a solid-state system using non-toxic refrigerants. Evolve refrigerators are a complete cold storage and temperature monitoring solution that includes both USB accessible local data storage and Wi-Fi-enabled remote data logging. The temperature control and monitoring systems are fully compliant with CDC recommendations for vaccine storage. As a result of operating without compressors, the Evolve performance difference includes superior temperature control and uniformity throughout the chamber; lower operation and maintenance costs in a sustainable refrigeration system; dependable operation with battery backup power compatibility during power outages; whisper-quiet operation all the time; absence of internal mechanical parts offering peace of mind reliability. Because Evolve's refrigerators have no internal moving parts and consume 50% less energy, it translates to being compliant with USP <797> requirements and emits less heat into a room.

Evolve™ Products

Specs	SilverCore Refrigeration System	
	Evolve Countertop	Evolve Undercounter
Internal Capacity	1.8 ft ³	5.5 ft ³
Outer Dimensions (Area ft ²)	20.5"W x 22.1"D x 23"H (3.1 ft ²)	23.6"W x 26"D x 31.8"H ADA Compliant (4.2 ft ²)
Weight	75 lbs.	135 lbs.
Noise Level	<30dBA @ 1m	<32dBA @ 1m
Energy Requirements	0.6 kWh/Day @ 4°C	<1.2 kWh/Day @ 4°C
Compliance	Medical-Grade/Patient Isolation	
Refrigeration System	SilverCore™ Refrigeration System With R744 Refrigerant	
Center Air Temperature Variability From Set Point Temperature	+/- 0.5°C	+/- 1.0°C
Power	Universal Input for Global Usage; NEMA Hospital-Grade Plug	
Temperature Monitoring System	SilverPoint Embedded With Local and Remote Data Management/Access Port for External Probe	

