

# HELIC 44



The Xcelaero positive displacement compressor is the heart of our vapor cycle system (VCS). With its high-efficiency design, it runs effectively all along its performance curve. Cooling capacity is modulated by varying the speed of the compressor, reducing power, and extending mission range. The HELIC 44 is attitude insensitive, allowing it to be mounted in any orientation. It is flexible for use with R134a, R1234yf and other low GWP refrigerants. The compressor pump head, as well as the motor drive, can be optimized based on your application.

## PRODUCT DESCRIPTION

Design Type	Semi-Hermetic Refrigerant Twin Screw
Refrigerant	R-134a
Burst Pressure	75.0 bar (a)
Proof Pressure	37.5 bar (a)
Max Operating Pressure	24.5 bar (a)
Mechanical Connector Type	SAE AS4395 (-24 Suction, 12 Discharge)
Electrical Connector Type	MIL-DTL-38999 Series III
Altitude	-5 to 55,000ft



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Input Power	270 V DC	115 V AC	Mechanical Drive
Dry Weight	35.0* lbs.	47.0 lbs.	27.0 lbs.
Overall Length	14.5 in.	16.0 in.	12.0 in.
Overall Height	7.5 in.	9.7 in.	9.0 in.
Max Width	7.5 in.	8.3 in.	10.0 in.

\*HELIC 44 with Permanent Magnet Motor and Variable Speed Drive

