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Logo and Corporate Identity Materials

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ABOUT SUNPOWER | NEWS | ENGINEERING SERVICES | TECHNOLOGIES | APPLICATIONS

Sunpower is a 27-year-old engineering research and development company whose products meet the growing needs for energy efficiency, CO2 reduction, low temperature cooling, and clean compression.

Our technology is innovative, cost efficient, and environmentally friendly—supported by over 30 U.S. patents and over 90 related foreign patents and applications.

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SUNPOWER
 High Performance Cryocoolers
 Field Proven | Energy Efficient | Compact | Unrivaled Pricing | Long-Lived

Design Features
 Length with driver shaft: 210mm (8.27")
 Length of rotor: 110mm (4.33")
 Length with driver shaft: 210mm (8.27")
 Length of rotor: 110mm (4.33")

CryoTel™ CL, LT and GT
 CryoTel™ HT

Working with Sunpower
 Sunpower's CryoTel™ products require R&D services and intellectual property are sold from our corporate center in Marietta, Ohio, USA. Custom prototypes for selected products are available to qualified customers. For information contact Sunpower, Inc.

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Product Brochure

SUNPOWER
 High Performance Free-Piston Stirling Engines
 Unrivaled Performance | Energy Efficient | Compact | Robust | Long-Lived

Experience the Benefits of Dependable Free-Piston Stirling Technology

SUNPOWER
 High Performance Free-Piston Stirling Engines
 Unrivaled Performance | Energy Efficient | Compact | Robust | Long-Lived

Experience the Benefits of Potential Free-Piston Stirling Technology

Product Brochure

SUNPOWER
 Superior Delivers the Benefits of Free-Piston Stirling Technology
 CryoTel™ cryocoolers Sunpower's integral free-piston Stirling engines represent the result of over fifty years of continual technology innovation and evolution in free-piston Stirling technology.

Typical Applications of Sunpower Cryocoolers
 • Telematics
 • Aerospace
 • Gas Liquefaction
 • Life Sciences, Biotechnology and Cryopreservation
 • Pharmaceuticals
 • Superconductivity and Magnetic Solutions
 • Clinical and Diagnostic Equipment and Instrumentation

Public Table Cryocoolers
 Superior Pulse Tube Cryocoolers provide custom engineering for specific applications, are based on the same free-piston design approach as other Sunpower products, but feature more rugged high speed high torque and overall configurations, include multiple power 1000W Stirling and Sunpower Free Piston product lines, and additional features beyond the CryoTel™ free piston Stirling models.

Superior Cryocooler Summary Specifications

CryoTel™ Cryocooler	Model	Max. Cooling Capacity (W)	Max. Cooling Capacity (BTU/hr)	Max. Cooling Capacity (kW)	Max. Cooling Capacity (hp)	Max. Cooling Capacity (TR)	Max. Cooling Capacity (RT)	Max. Cooling Capacity (Tons)	Max. Cooling Capacity (BTU/hr)	Max. Cooling Capacity (kW)	Max. Cooling Capacity (hp)	Max. Cooling Capacity (TR)	Max. Cooling Capacity (RT)	Max. Cooling Capacity (Tons)
CL	CL	180W	620 BTU/hr	0.18 kW	0.25 hp	0.25 TR	0.25 RT	0.25 Tons	620 BTU/hr	0.18 kW	0.25 hp	0.25 TR	0.25 Tons	
LT	LT	280W	960 BTU/hr	0.28 kW	0.38 hp	0.38 TR	0.38 RT	0.38 Tons	960 BTU/hr	0.28 kW	0.38 hp	0.38 TR	0.38 Tons	
GT	GT	340W	1160 BTU/hr	0.34 kW	0.46 hp	0.46 TR	0.46 RT	0.46 Tons	1160 BTU/hr	0.34 kW	0.46 hp	0.46 TR	0.46 Tons	
HT	HT	800W	2720 BTU/hr	0.8 kW	1.08 hp	1.08 TR	1.08 RT	1.08 Tons	2720 BTU/hr	0.8 kW	1.08 hp	1.08 TR	1.08 Tons	

Public Table Cryocoolers

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 High-Performance CryoTel™ Cryocoolers.
 • Field Proven
 • Energy Efficient
 • Compact
 • Unrivaled Pricing
 • Long-Lived

Learn how Sunpower can help you enjoy the benefits of free-piston Stirling technology.

Since we originated the free-piston Stirling engine over 30 years ago, we have developed many free-piston machines, including the world's best cryocoolers. We deliver prototypes and pre-production products. We are now the unique OEM manufacturers of low-cost cryocoolers. Let us assist you with manufactured products, customized units, engineering samples and R&D services at 740-594-2221.

Applications:
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 • Aerospace
 • Gas Liquefaction
 • Life Sciences, Biotechnology, Cryopreservation
 • Pharmaceuticals
 • Superconductivity and Magnetics
 • Clinical and Diagnostic Equipment and Instrumentation services at 740-594-2221.

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Trade Ad

SUNPOWER
 Advanced Stirling Converter (ASC)
 The Sunpower Advanced Stirling Converter is a significant advancement in Stirling technology, offering high efficiency and low noise levels for medical conversion.

Planetary Surface Power Unit
 In December 2006, Sunpower installed a Phase 1 Stirling unit to design a kind of other planetary surface power unit in the 20 kW range. Sunpower's dual-ported Alpha-type Stirling engine provides improved efficiency in large scale. This design is comprised of fewer moving components, promotes higher reliability, and provides three-phase electrical output. Sunpower's dual-ported single-cylinder free-piston Stirling machines are also being considered for nuclear surface power.

Sunpower Technology in Development
 Currently in development are two innovative projects for NASA through contract 58R-0001.

Working with Sunpower
 Sunpower's Free-Piston Stirling engine prototypes, R&D services and intellectual property are available to interested parties. Evaluation prototypes for selected products are available to qualified customers. For information please contact Sunpower, Inc.

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Tradeshow Literature Handout

