



# Cole-Parmer®

## SHUTTLE™ PORTABLE ULTRA-LOW TEMPERATURE FREEZER

### ENERGY-EFFICIENT, ULTRA-LOW STORAGE ANYWHERE YOU NEED IT!

- Brings ultra-low  $-86^{\circ}\text{C}$  temperature storage to places conventional compressor freezers can't
- Weighs less than 40 lb (18 kg)—ideal for benchtop or field applications
- Easy-grip molded-in handles offer comfortable transport
- Easily switches from AC to DC—just change the power cord
- Connects easily to a mobile power supply
- Operates on a stirling engine—requires no compressors, dry ice, or  $\text{LN}_2$
- Draws the same amount of energy as a conventional light bulb
- Environmentally friendly and cost effective



#### In the US

625 E. Bunker Court  
Vernon Hills, IL 60061  
Call toll-free 800-323-4340  
Phone: 847-549-7600  
Fax: 847-247-2929  
[www.coleparmer.com](http://www.coleparmer.com)

#### In Canada

Call toll-free 800-363-5900  
Phone: 514-355-6100  
Fax: 514-355-7119  
[www.coleparmer.ca](http://www.coleparmer.ca)

#### In India

Phone: 91-22-6716-2222  
Fax: 91-22-6716-2211  
[www.coleparmer.in](http://www.coleparmer.in)

#### In the United Kingdom

Free phone: 0500-345-300  
Phone: 020-8574-7556  
Fax: 020-8574-7543  
[www.coleparmer.co.uk](http://www.coleparmer.co.uk)

#### International customers

Call 847-549-7600 to reach our  
International Sales Department  
or contact your local dealer.



**FREE TECHNICAL  
APPLICATIONS ASSISTANCE!**

## APPLICATIONS

Easily and securely transport biological specimens; ideal for use within biorepositories and other applications associated with pharmaceutical distribution.

## PERFORMANCE SPECIFICATIONS

**Humm™ free-piston stirling engine** contains two moving parts that float on helium gas bearings to eliminate contact wear

**Linear driver** modulates engine power to deliver cooling on demand for straight line control without on/off cycling

**Weather-resistant touchpad controller** features a digital temperature display indicating interior temperature and error codes (if detected)

**Rugged cabinet** withstands travel indoors and outdoors, and can be easily stored on side, end, or upside down when not in use

## WHAT'S INCLUDED

Two plastic utility bins, detachable power cord and plug, and DC power cord.



Catalog number	Capacity	Temperature range	Dimensions (W x H x D)		AC power			DC power
			Interior	Exterior	VAC	Hz	Plug	
<a href="#">ML-44199-05</a>	0.9 cu ft (25 L)	-20 to -86°C	8 <sup>1</sup> / <sub>16</sub> " x 13" x 13" (22.2 x 33 x 33 cm)	13 <sup>5</sup> / <sub>8</sub> " x 18 <sup>5</sup> / <sub>16</sub> " x 27 <sup>1</sup> / <sub>8</sub> " (34.6 x 46.4 x 68.8 cm)	120/220	50/60	US Std	12 V
<a href="#">ML-44199-07</a>	0.9 cu ft (25 L)	-20 to -86°C	8 <sup>1</sup> / <sub>16</sub> " x 13" x 13" (22.2 x 33 x 33 cm)	13 <sup>5</sup> / <sub>8</sub> " x 18 <sup>5</sup> / <sub>16</sub> " x 27 <sup>1</sup> / <sub>8</sub> " (34.6 x 46.4 x 68.8 cm)	120/220	50/60	Euro	12 V