



**refrigeration for health, science and industry**

## **The Difference is in the U.L. Listing**

### ***Benefits and Features of Commercial U.L. vs. Household U.L.***

Due to vigorous use and the potentially enormous cost of a fire in a hospital, laboratory, or similar facility, Commercial U.L. Listed products are constructed to meet higher fire safety standards.

When a refrigerator or freezer purchase is made based on price, without consideration for quality, reliability suitability for application, or consequences of liability, often the choice is a household product. It is important to note that Household products are not Commercial U.L. listed nor are they designed, manufactured, or warranted for laboratory use.

Here are a few of the key differences between Marvel Scientific refrigerators, freezers and ice machines, which have a Commercial U.L. Listing, and competitor products with Household U.L. Listing:

<b>Marvel Scientific Refrigeration Products with Commercial U.L. Listing</b>	<b>Competitors' Refrigeration Products with Household U.L. Listing</b>
<ul style="list-style-type: none"> <li>• Warranted for commercial use</li> <li>• Two complete layers of insulation surround power conductors in the power cord to provide added protection against electrical shorts</li> <li>• Bottom, back and sides of mechanical compartment are enclosed in steel to prevent any electrical spark from reaching combustible materials surrounding the unit</li> </ul>	<ul style="list-style-type: none"> <li>• Warranted for household use; commercial use voids warranty</li> <li>• Only a single layer of insulation must surround power conductors in the power cord</li> <li>• Bottom of mechanical compartment may be open to the floor and surrounding combustible materials; back and sides may be open or covered by non-metallic material</li> </ul>

In addition, there are real differences in performance and warranty between Marvel Scientific refrigerators and competitor refrigerators:

<b>Benefits and Features of Marvel Scientific Refrigerators</b>	<b>Competitor Refrigerators</b>
<ul style="list-style-type: none"> <li>• Powerful 461 BTU compressor ensures faster temperature pull-down after refrigerator is loaded and superior temperature consistency</li> </ul>	<ul style="list-style-type: none"> <li>• Household refrigerators use a less expensive, smaller compressor (200-300 BTUs) and have a longer pull-down time, with the result that contents can be compromised</li> </ul>

<ul style="list-style-type: none"> <li>• Faster recovery time after door openings; especially important when door openings are frequent in lab use</li> <li>• Warranty covers laboratory, commercial, industrial, hospital, institutional, and scientific applications</li> <li>• Condenser is wide finned, which provides superior cooling technology and reduces problems due to dust and dirt accumulation during use</li> <li>• Fan motor has a self-lubricating bearing system that lasts virtually a lifetime and is quieter than open frame fan motors</li> <li>• Plug is hospital grade, constructed to pass stringent hospital use standards</li> <li>• Stainless exterior is available on select models</li> </ul>	<ul style="list-style-type: none"> <li>• Slower recovery time after door openings; contents may be compromised</li> <li>• Any use other than household voids the warranty. A typical warranty states “Warranty coverage applies only to refrigerators which are used for storage of food for private household purposes.”</li> <li>• Condenser is typically narrow finned, making it easy for dust and dirt to accumulate, which can cause overheating problems early in a unit’s life cycle</li> <li>• Fan motor is open frame, vulnerable, noisy and wears out in just a few years</li> <li>• Household plug is standard for household use only</li> <li>• Stainless steel typically not available except in very expensive, high end household products</li> </ul>
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In addition to all of this, most small, “compact” household refrigerators have coils on the back which must have sufficient ventilation in order to perform adequately. If the refrigerator is built in undercounter, there is the possibility it will overheat and cause an electrical short or, worse, a fire. Marvel Commercial U.L. Listed refrigerators are front vented and do not have any coils on the back so they can be built in undercounter without loss of performance, fear of fire, or sacrifice of design.

For more on U.L. Commercial benefits and features, visit our “Serious About Standards” page on our web site at [www.marvelscientific.com/standards](http://www.marvelscientific.com/standards) or our FAQ page at [www.marvelscientific.com/faq.html](http://www.marvelscientific.com/faq.html).

All these reasons make Marvel Scientific refrigerators the top choice of the nation’s leading hospitals and laboratories – especially when health and life are at stake, experiments and research hang in the balance, and when refrigerator failure is unacceptable and unthinkable. **You can trust your research, and your career, to Marvel Scientific.**

Larry Ferguson



National Sales Manager  
Marvel Scientific