

## Global LEAP Off-Grid Refrigerator Test Method Overview

Version 1 (January 2018)

Test	Ambient Temperature and Relative Humidity	Target Temperature	Test Load Packages <sup>1</sup> Included
<b>Quality Inspection</b>	Not applicable	Not applicable	Not applicable
<i>Energy Performance Testing under normal operating conditions</i>			
<b>Pre-test conditioning</b>	+10°C / RH ≤75%	Not applicable	No
<b>Steady-state operation test – Low ambient / Normal voltage condition</b>	+10°C / RH ≤75%	Average temperature between 0 and +4°C	No
<b>Steady-state operation test – Medium ambient / Normal voltage condition</b>	+16°C / RH ≤75%	Average temperature +4°C	No
<b>Steady-state operation test – High ambient / Normal voltage condition</b>	+32°C / RH ≤75%	Average temperature +4°C	No
<i>Refrigerating/Freezing Performance Testing</i>			
<b>Autonomy test</b>	+32°C / RH ≤75%	Test discontinue when > +12°C	No
<b>Pull-down test</b>	+32°C / RH ≤75%	Stabilization < +4°C	No
<b>Freezing capacity test</b> (for Refrigerator-freezers only)	+32°C / RH ≤75%	Stabilization Time to -6°C, -12°C, -18°C, if achieved	Yes
<b>Over-voltage test</b>	+32°C / RH ≤75%	Average temperature +4°C ± 0.5	No
<b>Under-voltage test</b>	+32°C / RH ≤75%	Average temperature +4°C ± 0.5	No
<b>Steady-state operation test – Harsh ambient / Normal voltage condition</b>	+43°C / RH=85%	Average temperature between 0 and +4°C	No

<sup>1</sup> Test load packages are prepared in accordance with IEC 62552-1 Annex C