

Global LEAP Off-Grid Refrigerator Test Method Overview

Version 1 (January 2018)

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

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 $^{^{\}rm 1}\,\text{Test}$ load packages are prepared in accordance with IEC 62552-1 Annex C