

21st Century
Solar Cooking Appliance
PRODUCT STANDARD
Kitchen Integrated into a Modern Infrastructure

Initiated By:
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2/25/2024
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Phase I
(Next Generation)

1 Purpose & scope

1.1 This Product Standard is being created and developed to address the global modern infrastructure in order to adopt and evolve solar cooking as a sustainable, scaled up, energy, and pollution alternative for a new future of sustainable infrastructure.

1.2 To communicate and direct the next phase of solar cooker development necessary to meet infrastructure modern user needs which have been revealed and acknowledge for many decades.

2 Terminology

2.1 Kitchen-integrated: Solar cooking appliance which is fully kitchen integrated with a direct interface, with, and into the modern kitchen cooking system (NOT separate, portable, out away from a kitchen system).

2.2 Non-integrated: Separate, moveable, transportable, portable, remote operate, operate out away from the kitchen system (Required to leave the kitchen to solar cook)

2.3 Vulnerable Population: Division / Sector Environments (Developing Countries)

2.4 Modern Infrastructure: Division / Sector Environments (Developed Countries)

3 Requirements

3.1 Solar cooking appliance should be fully kitchen integrated with direct interface, with, and into the modern kitchen cooking system (NOT separate, portable, out away from a kitchen system).

3.2 Solar cooker appliance design attributes: (to be achieved)

A.) Compete with other modern kitchen appliances in the modern kitchen cooking system

B.) Similar modern features to cook, for example, push/rotate control buttons, handling, and utensils to operate similar to other products in the modern contemporary cooking environment

C.) Not required to leave the kitchen during a complete solar cook

D.) Full seamless combination and integration of all solar cooking process steps within the modern kitchen cooking system as a user friendly appliance.

E.) Sizing to standard cookware, volumes, and weight

F.) Remote control or position location to cook without being present during cook duration

**Global
Solar Cooking
Development & Use**

Solar Cooking Industry Divisions

Modern Infrastructure
Division / Sector
Environments
(Developed Countries)

Vulnerable Populations
Division / Sector
Environments
(Developing Countries)

**Kitchen
Integrated**
Direct interface
with and into the
kitchen system
*(NOT leave kitchen to
operate solar cooker)*

Non-Integrated
Separate, moveable,
transportable, portable,
remote operate, operate
out away from kitchen
system
*(Required to leave kitchen
to solar cook)*

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Integrated**
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Product Types

- Box oven
- Panel cooker
- Hybrid w/ elect.
- Vacuum tube
- Parabolic concentrators
- PV Induction
- Fresnel lens
- etc..