

General Prototype:	A constructed hollow plate/bowl filled with water heated via convection
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Description of Need:	People who have trouble swallowing require more time to eat meals which may result in food becoming cold while they are eating			Prototype 1:	Prototype 2:	Prototype 3.1:	Prototype 3.2:	Prototype 3.3:	Prototype 4:
#	Level	Requirement Type	Requirement Statement	No Lid	Lid	Lid 50 °C water	Lid 68.3 °C water	Lid 85 °C water	Lid 68.3 °C water Handles
1	1	Functional	The device shall be able to heat up to about 70 degrees Celcius.	No	No	Maybe	Yes	Yes	Yes
2	1	Functional	The device shall be holdable without risk of burns or other injuries.	Yes	Yes	Maybe	Maybe	Maybe	Yes
3	1	Functional	The device shall be able to keep food warm for at least 60 minutes.	No	No	Yes	Yes	Yes	Yes
4	1	Physical	The device shall be safe for eating (without containing any dangerous or toxic materials).	Yes	Yes	Yes	Yes	Yes	Yes
5	1	Physical	The device shall be easy to use by the client or their caretaker.	Yes	Yes	Maybe	Maybe	Maybe	Yes
6	1	Physical	The device shall not require connection to a power outlet.	Yes	Yes	Yes	Yes	Yes	Yes
7	1	User	The user has access to a microwave or some other method of heating up water	Yes	Yes	Yes	Yes	Yes	Yes
8	2	Physical	The device shall be approximately the size of a regular-size dinner device	Yes	Yes	Yes	Yes	Yes	Yes
9	2	Physical	The device shall be washable by hand	Yes	Yes	Yes	Yes	Yes	Yes
10	2	Physical	The device shall be durable.	Yes	Yes	Yes	Yes	Yes	Yes
11	2	Cost	The device should cost less than \$55 USD to construct.	Yes	Yes	Yes	Yes	Yes	Yes
12	2	Documentation	The device should come with a user manual and instructions	No	No	No	No	No	Yes
13	3	Physical	The device shall be non-stick.	No	No	No	No	No	No
14	3	Physical	The device shall be lightweight.	Yes	Yes	Yes	Yes	Yes	Yes
15	3	Physical	The device shall be microwave-safe.	Yes	Yes	Yes	Yes	Yes	Yes