6. Frozen food can be amazing.
In the 1980's frozen food was about convince at the compromise on nutrition, and excitement. This has tarred frozen food with a bad rep... Frozen food can contain MORE nutrients than the fresh alternative. I plan to address this problem in my product.

1. Shopping for frozen food.
Currently shopping for frozen food gives you many unhealthy options and junk food. With food choices based on graphic design.

2. Contents of Freezer
contents of the freezer are often very hard to get to, with food at the back of the shelves being left there for a long time. Lack of venation leads to frost bit, and ruining of food..

5. Loss of Soul
Because of microwave meals we are having less and less connection with our food. There is no care, and no even any food theatre. This food is truly soulless.
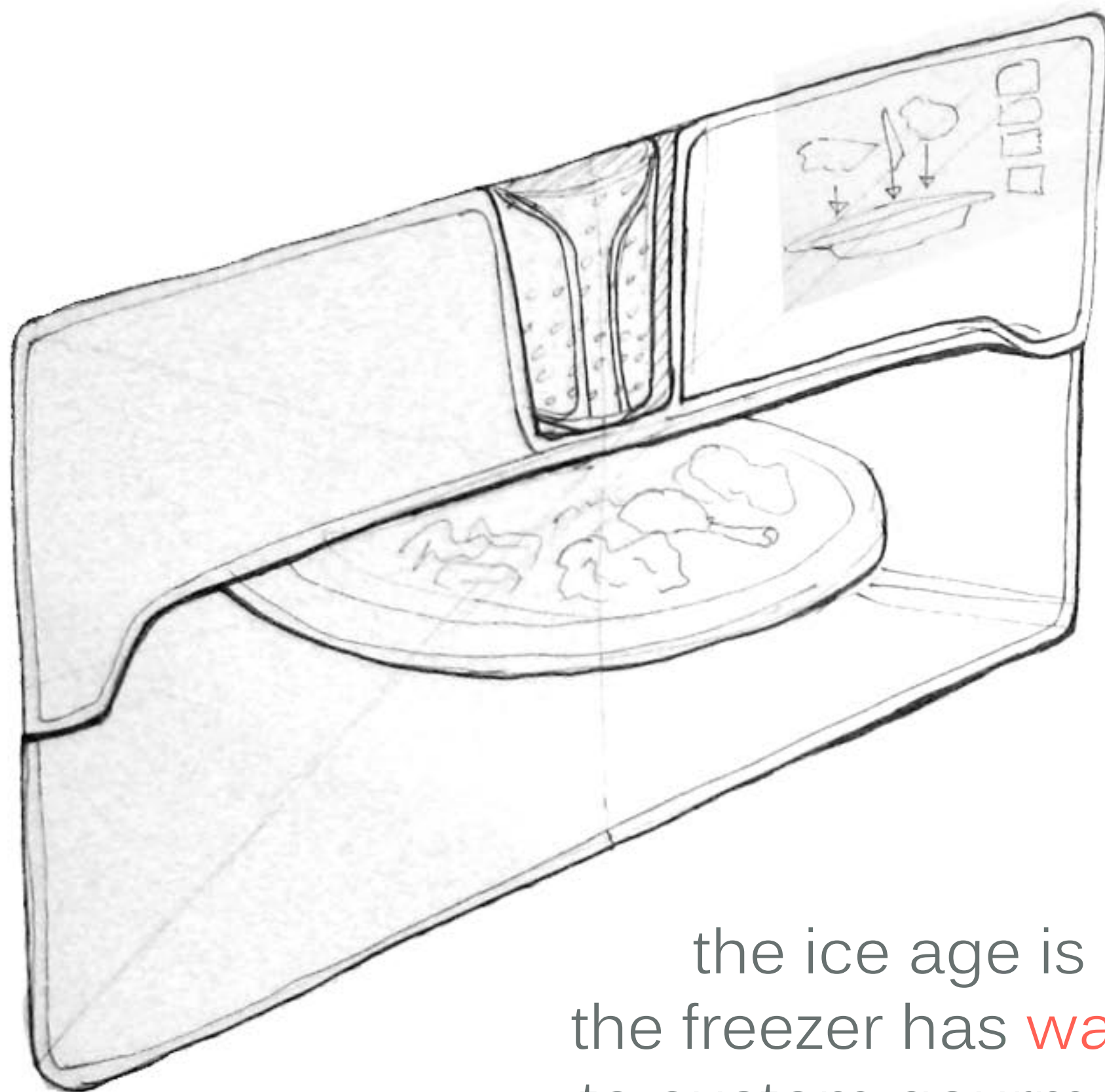
HEALTHY CHOICE

Salisbury **Steak**

Garlic **Mashed Potatoes**

Peas & Carrots

6g   220   560mg

Simple Selections™   KEEP FROZEN; COOK THOROUGHLY

NET WT 8 OZ (227g)

3. Sexy Graphic Design.
A meal with 220 calories, low in salt, and low in fat. This mean is called a healthy choice, but the product doesn't take into account the almost magical nutritional properties of 'real' food. Low calories isn't healthy, a well balanced meal, this will be a area I shall try to address in my product.

Kenmor

4. appetizing???.
Umm.. The above picture says 1000 words, frozen food from the tray is very uninspiring and flat to both the eye and taste.
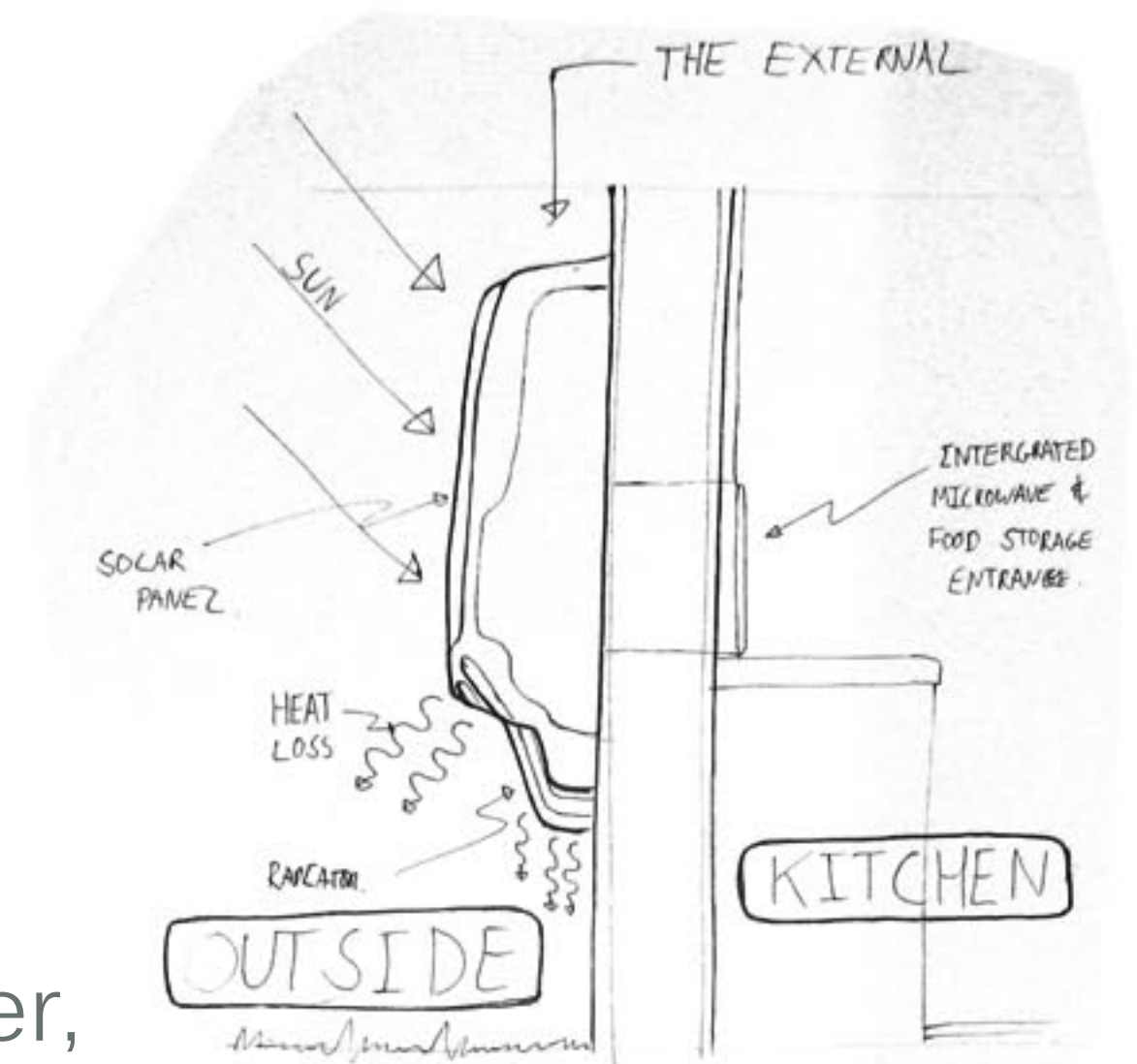
redral

redral is a new appliance in both green design and substantial design, while enhancing users pleasure with the product.

Building the freezer outside allows for both solar and convection heat transfer to power the freezer.

The internal user unit is two fold with one draw for 3 sections to easily view all freezer items. The main innovation is a replicated feature that prepares individual food pods to create you own custom gourmet meal.
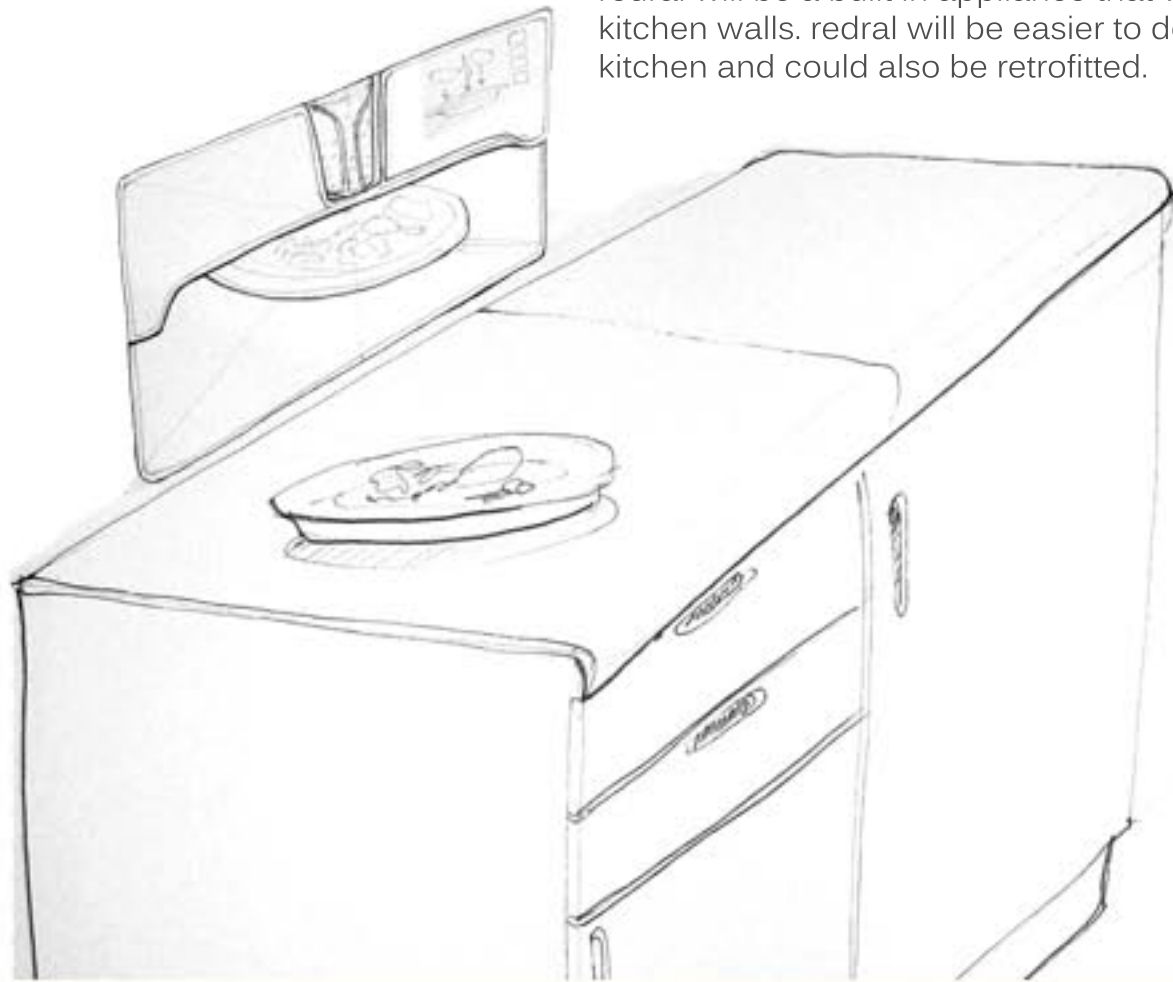

THE EXTERNAL

SUN

SOLAR PANEL

INTERGRATED MICROWAVE & FOOD STORAGE ENTRANCE

HEAT LOSS

RADIATION

OUTSIDE

KITCHEN

the ice age is over,
the freezer has warmed up
to custom gourmet meals.

redral. Freezer + Microwave. The Larder Evolved

r e d r a l

solar panel

processing unit

air jet /
stream jet

food
cartridge

contents
of
freezer

freezer
module

food storage

6

plate grabber
based on a
waiters grip

food selector
touchscreen
OLED.

plate

inter
changeable
freezer module

8

food storage

1 **2** **3** **2u** **4** **5** **7**

Exploded Overview

1. **Food Storage:** Storage of 4 conventional shelves that can be removed by the magic draw. With the rest of the space for indexing of custom food storage pods.

2. **Food CPU.** the food cpu will calculate and select the correct food, and condiment for the creation of your custom meal.

3. **Microwave, Steam Jet, and Grill.** This part will microwave to defrost, then steam or grill to produce a hot, high quality part of a meal.

4. **Pod Selector Belt:** Will select the food pod based on RFID identification, taking and cueing them for heating and post-processing.

5. **Plate Warmer.** By pushing in the lower draw, pod meal function will kick in. Plate holders will drop down and will help serve and keep your food warm.

6. **Plate Arms.** The plate arms are based on a waiters grip, allowing for a firm hold while you meal is prepared.

7. **Magic Draw:** The freezer draw can select one of 4 freezer draws. By having one draw storage is increased along with accessibility.

8. **Food Pod.** the food pod will be custom for the type of food, as it will affect how the food is cooked or processed. These pods will be reusable and could be re-loaded in local shops with fresh produce, and freezed for your unit. You can utilize pods to store left overs, that can be indexed on input. Store brought pods will have a RFID with accurate nutritional and food data that will display on the interface.
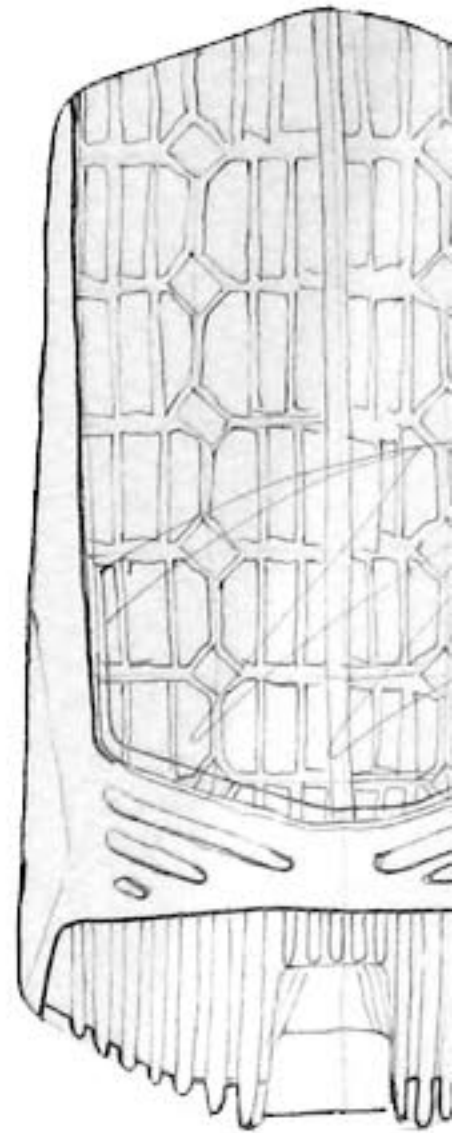
redral

Creating meals with redral.

redral will be a built in appliance that will be flush with the kitchen walls. redral will be easier to design around in new kitchen and could also be retrofitted.
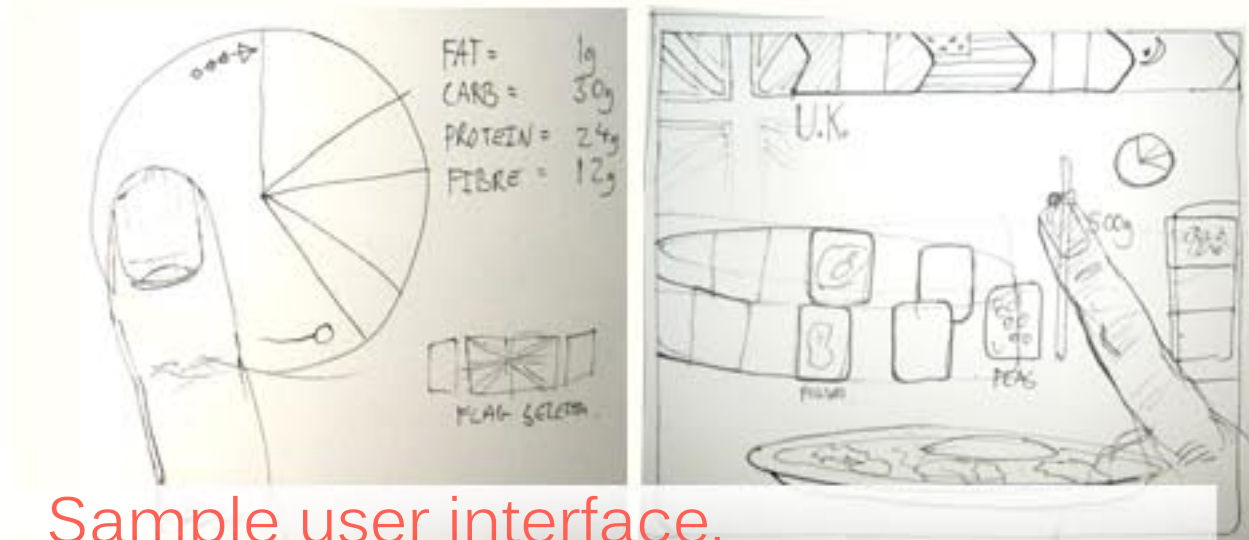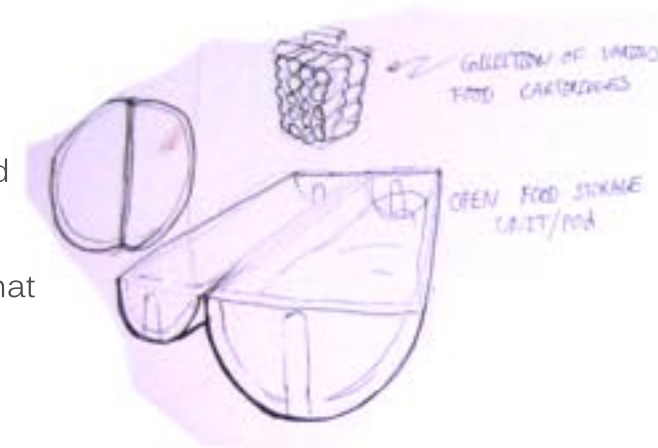
redral on outside of house.

Here you can see the solar panel in the middle of redral, at the bottom are radiator vents that will heat up and help power the freezer though convection of heat flow.
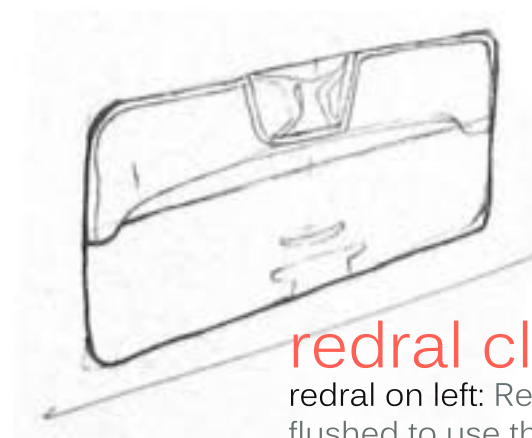
food pod

Food pods can be brought pre prepared from supermarkets or you can add your own left overs or home grown produce. RFID's are used so that redral knows what food pods are in the freezer.

Sample user interface.

Pie interface: The left shows a new way of picking your meal, instead of choosing your meal, you pick your key nutrients. Redral will then create a meal of that exact selection, in the flavor that you like, without any nutritional compromise.

Multi-Meal Picker: A new type of meal selector is embedded into redral, instead of picking boring pre-defined meals the multi meal picker creates meals by selection small palettes of food. redral will then customize the key building blocks for easy and delicious meal.

redral closed, and loading.

redral on left: Redral here shows the unit closed with freezer draw flushed to use the gourmet selection you are required to push the draw in.

redral on right: Here the one freezer draw is open, when you open this draw you can choose open one of 3 shelves. This allows for great ergonomics, and easier access to all food in redral.