

DESIGN FORMULATION

Assignment : 2

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Design a ~~dis~~ dishwasher for utensils.

NEED:

- 1) device to wash utensils
- 2) Easy to operate
- 3) Space for all kinds of utensils
- 4) Heated till a temperature to sanitize
- 5) Dryer for drying the dishes
- 6) Capacity upto 8 kgs
- 7) Voltage 110V/220V
- 8) Can be power and water saving
- 9) Doesn't make much noise.
- 10) User friendly
- 11) Lower cost

PROBLEM AT HAND:

- 1) Time
- 2) Labour / Inhand work
- 3) Water shortage

DESIGN INFORMATION:

- 1) Compact
- 2) Have different belts for different utensils
- 3) Heat and temperature
- 4) DC motor

LIMITATIONS:

- 1) Filter basket has to be cleaned periodically.
- 2) Clogging may occur
- 3) Proper maintenance required

SUCCESSFUL DESIGN:

- 1) Reduce space consumption
- 2) Easy to clean
- 3) User friendly interface
- 4) Jet sprayer, detergent & scrub applicator and water.

DESIGN

