## **Freezer**

From GridLAB-D Wiki

**TODO:** This page needs to be completed.

freezer - Residential freezer (explicit model)

## **Synopsis**

```
class freezer {
        parent residential enduse;
        class residential_enduse {
                 loadshape shape;
                 enduse load; // the enduse load description
                 complex energy[kVAh]; // the total energy consumed since the last meter reading
                 complex power[kVA]; // the total power consumption of the load
                 complex\ peak\_demand[kVA]; // the peak power consumption since the last meter reading
                 double heatgain[Btu/h]; // the heat transferred from the enduse to the parent
                 double heatgain_fraction[pu]; // the fraction of the heat that goes to the parent
                 double current_fraction[pu]; // the fraction of total power that is constant current
                 double impedance_fraction[pu]; // the fraction of total power that is constant impedance double power_fraction[pu]; // the fraction of the total power that is constant power
                 double power_factor; // the power factor of the load
                 complex constant_power[kVA]; // the constant power portion of the total load
                 complex constant_current[kVA]; // the constant current portion of the total load
                 complex constant_admittance[kVA]; // the constant admittance portion of the total load
                 double voltage factor[pu]; // the voltage change factor
double breaker_amps[A]; // the rated breaker amperage
                 set {IS220=1} configuration; // the load configuration options
                 enumeration {OFF=4294967295, NORMAL=0, ON=1} override;
                 enumeration {ON=1, OFF=0, UNKNOWN=4294967295} power_state;
         double size[cf];
         double rated capacity[Btu/h];
         double temperature[degF];
         double setpoint[degF];
         double deadband[degF];
         timestamp next_time;
         double output;
         double event_temp;
         double UA[Btu];
         enumeration {ON=1, OFF=0} state;
```

## See also

- Residential module
  - User's Guide
  - Appliances
  - house class Single-family home model.
  - residential\_enduse class Abstract residential end-use class.
  - occupantload Residential occupants (sensible and latent heat).
  - ZIPload Generic constant impedance/current/power end-use load.

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- Technical Documents
  - Requirements
  - Specifications
  - Developer notes
  - Technical support document
  - Validation

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■ This page was last modified on September 12, 2012, at 07:09.

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