

# Refrigerator

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

**Refrigerator** - Residential Refrigerator (explicit model)

## Synopsis

```
object refrigerator {
  // residential_enduse properties
  shape "type: unknown";
  load "power_factor: 0.950000; power.r: 0.000000";
  energy +0+0i kVAh;
  power +0+0j kVA;
  peak_demand +0+0i kVA;
  heatgain +0 Btu/h;
  cumulative_heatgain +0 Btu;
  heatgain_fraction +0 pu;
  current_fraction +0 pu;
  impedance_fraction +0 pu;
  power_fraction +0 pu;
  power_factor +0.95;
  constant_power +0+0i kVA;
  constant_current +0+0i kVA;
  constant_admittance +0+0i kVA;
  voltage_factor +0 pu;
  breaker_amps +0 A;
  configuration IS110;
  override NORMAL;
  power_state OFF;
  // refrigerator properties
  size +23.9374 cf;
  rated_capacity +816.743 Btu/h;
  temperature +38.1227 degF;
  setpoint +38.3484 degF;
  deadband +2.4032 degF;
  cycle_time +0 s;
  output +0;
  event_temp +0;
  UA +0.6 Btu/degF*h;
  compressor_off_normal_energy +40500;
  compressor_off_normal_power +15 W;
  compressor_on_normal_energy +252000;
  compressor_on_normal_power +120 W;
  defrost_energy +1.32e+06;
  defrost_power +550 W;
  icemaking_energy +18000;
  icemaking_power +300 W;
  ice_making_probability +0.02;
  FF_Door_Openings 0;
  door_opening_energy 0;
  door_opening_power 0;
  DO_Threshold +1.18576e-322;
  dr_mode_double +0;
  energy_needed +0;
  energy_used +0;
  refrigerator_power +0;
  icemaker_running FALSE;
  check_DO 0;
```

```
is_240 FALSE;
defrostDelayed +0;
long_compressor_cycle_due FALSE;
long_compressor_cycle_time +0;
long_compressor_cycle_power +120;
long_compressor_cycle_energy +720000;
long_compressor_cycle_threshold +0.05;
defrost_criterion TIMED;
run_defrost FALSE;
door_opening_criterion +0;
compressor_defrost_time +0;
delay_defrost_time +28800;
daily_door_opening 0;
state 0;
}
```

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

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