

# Clotheswasher

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

**Clotheswasher** - Residential Clotheswasher (explicit model)

## Synopsis

```
object clotheswasher:0 {
  // residential_enduse properties
  shape "type: unknown";
  load "power_factor: 0.950000; power.r: 0.000000";
  energy +0+0i kVAh;
  power +0+0i kVA;
  peak_demand +0+0i kVA;
  heatgain +0 Btu/h;
  cumulative_heatgain +0 Btu;
  heatgain_fraction +0.5 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;
  // clotheswasher properties
  motor_power +0.227965 kW;
  circuit_split +0;
  queue +0 unit;
  demand +0 unit/day;
  energy_meter +0+0i kWh;
  stall_voltage +0 V;
  start_voltage +0 V;
  clothesWasherPower +0;
  stall_impedance +0+0i Ohm;
  trip_delay +0 s;
  reset_delay +0 s;
  Is_on +0;
  normal_perc +0.5;
  perm_press_perc +0.8;
  NORMAL_PREWASH_POWER +20;
  NORMAL_WASH_POWER +40;
  NORMAL_SPIN_LOW_POWER +60;
  NORMAL_SPIN_MEDIUM_POWER +150;
  NORMAL_SPIN_HIGH_POWER +220;
  NORMAL_SMALLWASH_POWER +25;
  NORMAL_PREWASH_ENERGY +14400;
  NORMAL_WASH_ENERGY +9600;
  NORMAL_SPIN_LOW_ENERGY +7200;
  NORMAL_SPIN_MEDIUM_ENERGY +18000;
  NORMAL_SPIN_HIGH_ENERGY +26400;
  NORMAL_SMALLWASH_ENERGY +3000;
  PERMPRESS_PREWASH_POWER +20;
  PERMPRESS_WASH_POWER +40;
```

```
PERMPRESS_SPIN_LOW_POWER +60;  
PERMPRESS_SPIN_MEDIUM_POWER +150;  
PERMPRESS_SPIN_HIGH_POWER +220;  
PERMPRESS_SMALLWASH_POWER +25;  
PERMPRESS_PREWASH_ENERGY +14400;  
PERMPRESS_WASH_ENERGY +9600;  
PERMPRESS_SPIN_LOW_ENERGY +7200;  
PERMPRESS_SPIN_MEDIUM_ENERGY +18000;  
PERMPRESS_SPIN_HIGH_ENERGY +26400;  
PERMPRESS_SMALLWASH_ENERGY +3000;  
GENTLE_PREWASH_POWER +20;  
GENTLE_WASH_POWER +40;  
GENTLE_SPIN_LOW_POWER +60;  
GENTLE_SPIN_MEDIUM_POWER +150;  
GENTLE_SPIN_HIGH_POWER +220;  
GENTLE_SMALLWASH_POWER +25;  
GENTLE_PREWASH_ENERGY +14400;  
GENTLE_WASH_ENERGY +9600;  
GENTLE_SPIN_LOW_ENERGY +7200;  
GENTLE_SPIN_MEDIUM_ENERGY +18000;  
GENTLE_SPIN_HIGH_ENERGY +26400;  
GENTLE_SMALLWASH_ENERGY +3000;  
queue_min +0 unit;  
queue_max +0 unit;  
clotheswasher_run_prob +0;  
state STOPPED;  
spin_mode SPIN_LOW;  
wash_mode NORMAL;  
}
```

## 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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