ENERNET
CORPORATION

T9000 Series
Wireless Fan Coil Thermostat

PRODUCT DATA

APPLICATION

The patented T9000 is the most flexible thermostat solution on the market today. A two-part system, it provides precision temperature control without the installation difficulties and expense of wiring. Battery powered, the T9000 uses unlicensed 900MHz RF to communicate with one or more control nodes which are installed at the HVAC equipment. The battery operated thermostat section is simply mounted on the wall with no need for wiring. This system is unique in that it is the only thermostat designed for simultaneous control of unrelated, multiple heating and cooling HVAC loads through a single thermostat, creating a virtual central heating and cooling control system.

Fan coil, Packaged Terminal Air Conditioner (PTAC) and Heat Pump (PTHP) equipment are common commercial and residential air conditioning solutions. The equipment integrates both heating and cooling capability in a single small, packaged unit. Unit mounted thermostat controls integrated within the equipment itself however typically exhibit inferior temperature control, often dramatically over and under shooting the desired room temperature.

Occupants may struggle to find and maintain a comfortable room temperature. Moving the thermostat control out of the equipment and into the living space improves comfort and can save energy as well. Studies have shown that precision temperature control alone can provide 12% in energy savings — a unique circumstance where both greater comfort and savings are expected. Setting the temperature back when unoccupied can add substantially more savings.

The T9000 provides superior thermostat control in a wide variety of challenging HVAC applications.

FEATURES

- **Simple to understand controls.**
- **Styling for home, office, or hotel applications.**
- **Digital display of room temperature, and user set point temperature.**
- **Easy pushbutton adjustment of functions.**
- **Displays temperature in ºF or ºC.**
- **Accommodates external energy management inputs such as occupancy sensors and switches.**
- **Battery powered, no control wiring needed.**
- **Adjustable maximum heating and minimum cooling set point limits.**
- **Direct load control capable.**
- **Multiple fan coil unit control from a single thermostat.**
- **Supports 1, 2 and 3-speed fan control**
- **Many other possible applications.**

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SPECIFICATIONS

Thermostat Enclosure:
High impact polycarbonate & ABS blend — 2-piece vented housing. Screw-mount back plate, snap on cover. 6.5" x 4.75" x 1.25"

Remote Plug-in Node:
4.5" x 2.4 x 2.65

Environmental Ratings:
Operating: 0^{o} to $+70^{o}$C
Storage: -40^{o} to $+85^{o}$C
Humidity: 5 to 95% RH, non-condensing

Temperature Readings:
- Accuracy, ± 0.5°F
- Display Resolution, 1°F

Setpoint Range:
50°F to 99°F (10°C to 37.2°C)

Voltage/Current Ratings:
Standard grounded 120vac wall-plug:
- NEMA 5-15P grounded male plug
- NEMA 5-15R grounded female receptacle
- Built-in relay — 15A @ 120vac resistive load
- Built-in relay — 1HP @ 120vac motor load

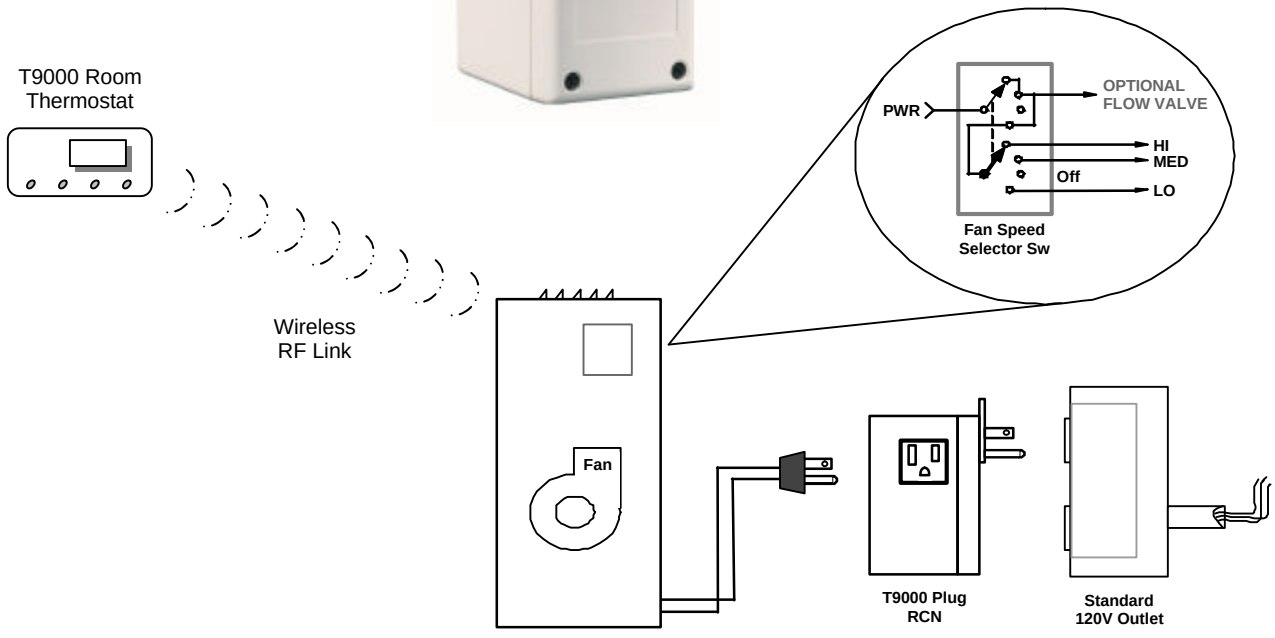
Control Methodology:
On/Off - control typically ≤1.5°F at 50% duty cycle

Device Power:
- Thermostat, 2 or 4 AA alkaline batteries
- Plug-in node , 120vac line voltage

Communication:
- 916.5 MHz Amplitude Shift Keyed Packet Protocol ANSI 709.1-1999

Model 103

T9000
Plug-in Control



FLOW VALVE NOTE:

1. It is not uncommon to find no installed or working flow valves.
2. Whether a 2-pipe or 4-pipe system, flow control valves are typically powered through the fan speed selector switch.

Convert a 120vac FCU to precision, programmable temperature control.

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