



Unilux Touch OEM Thermostat

Product Specifications and Technical Data

Leading-edge technology by Unilux VFC to control high-rise HVAC systems.



Application

Unilux VFC has developed a leading-edge, colour touchscreen fan coil controller — that can be upgraded to include Wi-Fi connectivity — on all fan coil offerings. The controller is compatible with our 2-pipe, 4-pipe and 2-pipe with auxiliary heat systems. The 4.3-inch TFT colour touchscreen allows residents to easily adjust all fan coil settings on the display. All data is processed on our control board installed inside the fan coil cabinet. Information is sent from the thermostat to control the function of the fan coil unit.

Unilux VFC's integrated controller allows the fan to operate at multiple speeds providing more precise comfort. Our auto fan setting increases the fan speed depending on how far away room temperature is from the set temperature.

The touchscreen thermostat allows for single interface with building management systems. New flood prevention sensors provide greater peace of mind for residents and owners. For more information on flood prevention see our flood prevention brochure or visit www.uniluxvfc.com.

Specifications

Wall Thermostat

- Large, clear TFT colour touchscreen (4.3") display
- Displays:
 - Current temperature (°C/°F)
 - Current humidity
 - Set temperature (°C/°F)
 - Fan Mode (Auto, Low, Med, Hi, Off)
 - Operation mode (Heat, Cool, Vacation, Off)
 - Schedule mode (P Hold, T Hold, On Schedule)
 - Scheduled Programs: 1, 2, 3, 4
 - Wi-Fi connection indication
- Wired to unit control board for manual inputs
- Equipped with battery back-up
- 3 3/8" H x 5 7/8" W x 1 3/8" D
- Thermostat housing is injection molded ABS plastic

Unit Control Board

- Installed inside the fan coil unit
- Onboard wireless transceiver incorporates the following features:
 - Complete embedded wireless LAN module
 - 2.4 Ghz frequency
 - 802.11b & 802.11g modulation
 - Data rates:
 - 1-11 Mbps for 802.11b
 - 6-54 Mbps for 802.11g
 - Security: WPA2-PSK (AES)
 - Supports Wi-Fi protected setup (WPS)
 - Unique MAC address
 - Power output: 0 to +12 dBm
 - Antenna: External via RF Pad
 - Ultra-low power sleep mode
 - Real-time clock
 - Temperature -40°C/+85°C
 - Humidity less than or equal 90% RH
 - Certification – Modular certified U.S. (FCC) and Canada (IC)
 - Radio Standards Specification RSS
 - 210 -FCC CFR47 Modular transmitter approval Part 15.212
- Onboard wired connection to wall thermostat supports standard seven-wire thermostat connection

Patent Pending



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Thermostat Comparison



VS

Unilux Touch
OEM Thermostat

Honeywell TB7100A
1000 MultiPRO™

Large, clear TFT touchscreen (4.3") display shows room & set temperature	✓	✓
LCD display shows current indoor humidity	✓	✗
Real-time clock keeps time during power failure and auto updates for daylight savings time	✓	✓
Menu-driven programming	✓	✓
Thermostat automatically saves changes and displays updates on screen	✓	✓
Holds override program schedules	✓	✓
7-day, 4 time slots/day programming	✓	✓
Up to 3 speeds for fan coils	✓	✓
Pre-programmed to match fan coil equipment (2-pipe or 4-pipe)	✓	✗
Wi-Fi upgrade available – now or at a later date	✓	✗
Web & mobile app supported (if upgraded with Wi-Fi)	✓	✗
High-grade RS-485 communication wiring	✓	✗
4 wires (double-twisted, paired and shielded)	✓	✗
Simple, plug-in diagnostics for instant problem solving	✓	✗
Vacation days can be set in advance	✓	✗
Intuitive selection keys	✓	✗