

HT-800

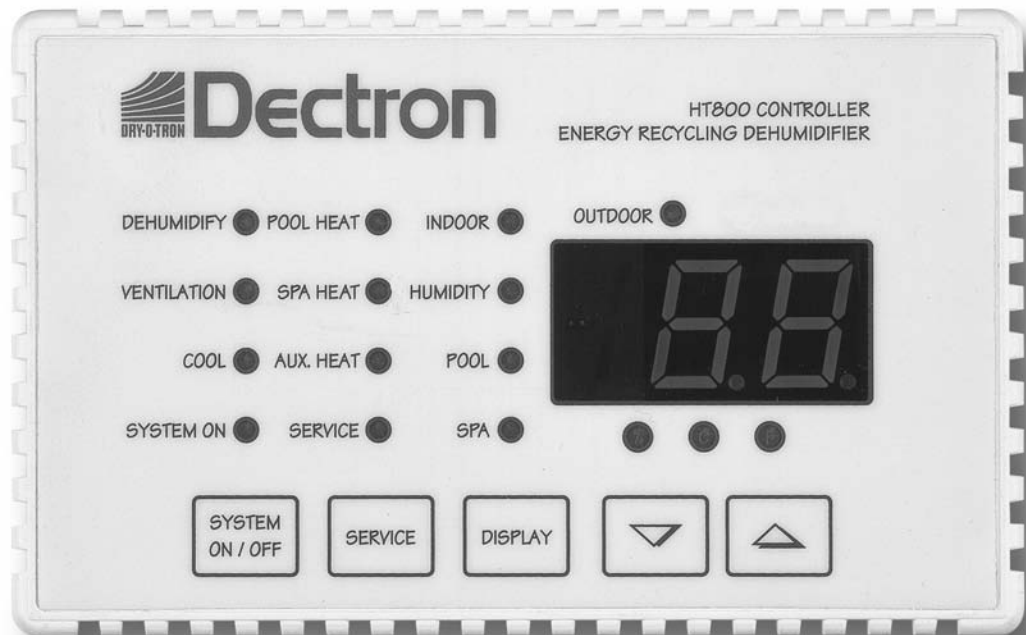
Dehumidifier Stand-Alone Control System

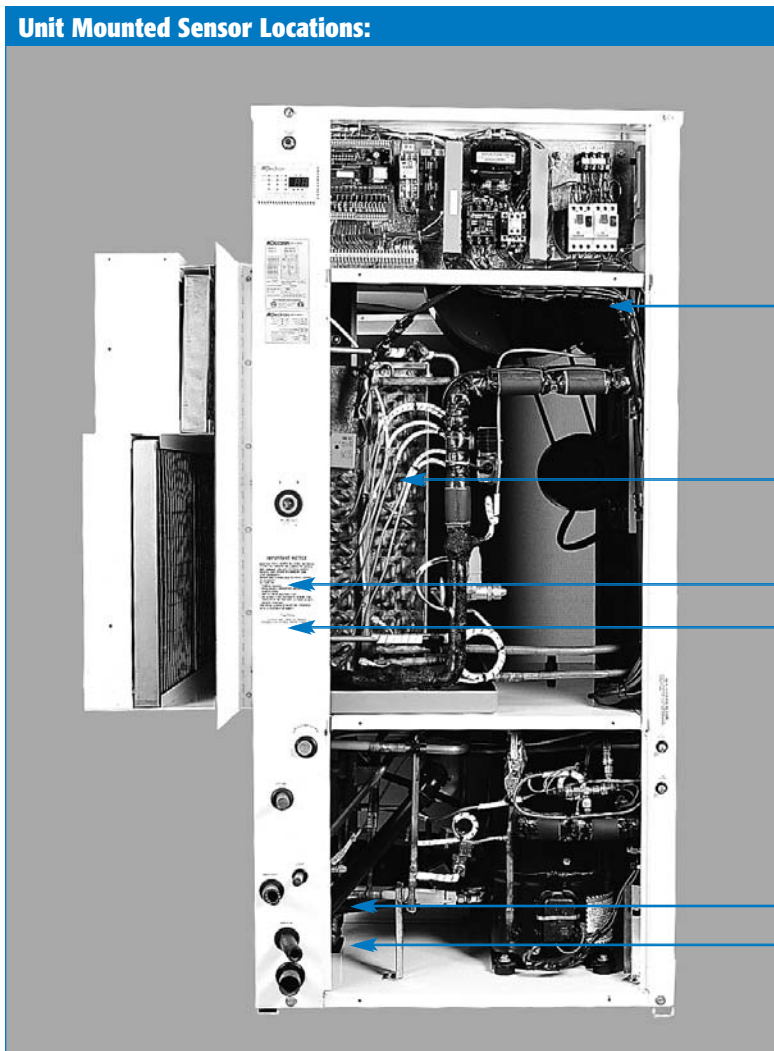
STANDARD ON SINGLE COMPRESSOR DRY-O-TRON® :

- **Pool Models DS/DSV/RS**
010, 015, 020, 030, 040, 050, 060, 070 & 080
- **Non-Pool Models DA5/DV5/RA5**
010, 015, 020, 030, 040, 050, 060, 070 & 080
- **General Purpose Models DA3**
007, 016, 024, 035, 045 & 070

The HT-800 Dehumidifier Control System represents a technological control advancement, incorporating two powerful micro-computers that continuously control and monitor the humidification system's auxiliary air and water heating units, humidity level, and air and water temperatures. The large, bright, easy-to-read LED display can be seen from a distance even when the room is dimly lit!

The HT-800 is specifically designed for use with DRY-O-TRON® dehumidifiers and for operation in harsh climatic conditions.





Supply-Air Temperature Sensor

Evaporator-Air Temperature Sensor

Return-Air Temperature Sensor

Return-Air Relative-Humidity Sensor

Pool-Water-Out Temperature Sensor

Pool-Water-In Temperature Sensor

HT-800 Features:

- Digital display with 17 LEDs and 5-button keyboard
- Unit-mounted sensors
- Built-in diagnostics [50 error codes, 10 help codes]
- Non-volatile memory, no batteries required
- Remote-mountable on standard electrical wall box
- Pre-programmed
- Fully factory-tested
- Configuration and sensor calibration protected by security code
- °C or °F temperature display

Sensor Specifications:

Temperature sensors [air, water]

These sensors incorporate a precise thermistor that is unaffected by vibration or level. A sophisticated control algorithm maintains accurate room and pool temperature under all climatic conditions year-round. The thermistor is enclosed in a rugged copper housing that itself is encapsulated in an airtight and water-tight membrane that is unaffected by temperature. They have a sensing range of -50°F to 250°F [-46°C to 121°C].

Relative-Humidity Sensor

This electronic sensor features a well-defined, stable response curve, high accuracy, and rapid response time. Each sensor is composed of an interdigitated gold terminal on an alumina substrate overcoated with a thermosetting hydrophilic polymer. It has an operating range of 10%-98% Relative-Humidity (RH) and an inherent accuracy of $\pm 1\%$ RH.

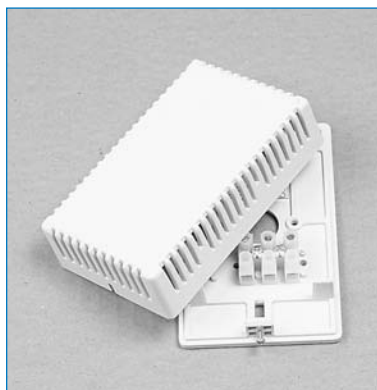
HT-800 Display Location Options:

The HT-800 digital display can be remote-mounted up to 1,000 feet (305 m) away from the DRY-O-TRON® [remote control position], or remain mounted on the DRY-O-TRON® [service mode position] as shipped from the factory.

Remote Control Position [pool area, manager's office, etc...]



Serial Communication Link



- Remote control is achieved with a simple 3-wire installation to the spare HT-800 sub-base that ships with every unit.
- Dectron provides a blank cover plate and sub-base. The blank cover plate is mounted on the unit sub-base when the display is moved to the remote location.

Service Mode Position



HT-800 Monitor and Control Functions:

Sensor failures

Refrigerant high and low pressure

High water temperature

High and low evaporator temperature

Low water flow

Communication fault

System off

Anti-short-cycle delay

Power failure

HT-800 for Pool Units



HT-800 for Non-Pool Units



Status Indicators	DEHUMIDIFY	Indicates that the DRY-O-TRON® is dehumidifying the space and recycling the energy where required.
	VENTILATION	Indicates that the outdoor air ventilation system is operating (Economizer cooling mode).
	COOL	Indicates that the air conditioning mode (OPTIONAL) is operating.
	SYSTEM ON	Indicates that the environmental control system is on and the blower is running.
	POOL HEAT/SPA HEAT [DS/DSV/RS units only]	Indicates that the system is heating the pool water with recycled energy (spa heater is OPTIONAL).
Display	AUX. HEAT	Indicates that the auxiliary space heating is operating.
	SERVICE	Flashes to indicate that the unit requires service. A service code is displayed so that a service diagnosis can be performed quickly and efficiently. Built-in diagnostics are provided to detect and analyze most abnormal conditions.
	INDOOR	Displayed value is indoor air temperature.
	HUMIDITY	Displayed value is indoor Relative-Humidity.
	POOL/SPA [DS/DSV/RS units only]	Displayed value is pool [spa-OPTIONAL] water temperature.
Buttons	OUTDOOR	Displayed value is outdoor air temperature [OPTIONAL].
	SYSTEM ON/OFF	Controls the on/off status of the entire system. Blower continues to operate. With OPTIONAL firestat interlock, switch in Off position also stops the blower.
	SERVICE	Used in conjunction with service codes and built-in diagnostics to trouble-shoot the system.
	DISPLAY	Used to select the information shown on the LED display.
	▼	Used to adjust set points and scroll through service codes.
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