

Technical datasheet

Extended-Range Temperature and Humidity Chamber Series

Temperature and humidity chambers with extended dry-operation temperature ranges, adjustable circulation airflow and model-specific humidity performance.



Representative exterior view. Cabinet size, controls and shelf arrangement vary by model.

Key features

7-inch touchscreen with event and data export

Adjustable circulation airflow

USB, RS-232 and RS-485 interfaces

Standard Configuration

7-inch touchscreen; 30 segments and 99 cycles; data and time-stamped event records with USB export; configurable permissions for five operators; adjustable circulation airflow; variable-speed refrigeration; external surface-evaporation humidification system; glass inner door with anti-fog system; drawer-style shelves; mechanical lock; one each USB, RS-232 and RS-485; two 30 mm side test ports; temperature, humidity, door, water-level and sensor alarms.

Optional Accessories

Online monitoring, SMS alarms and an embedded printer are optional. A UV lamp is not documented for this series. Confirm accessories, software and validation-service scope separately in the quotation.

Technical Information

Parameter	Value
Temperature resolution	0.1 °C
Program capacity	30 segments / 99 cycles
Timer range	1-9999 h / Time per program segment

Model	Without humidity control (°C)	With humidity control (°C)	Humidity range (% RH)
PT-INC-079	-10-85	10-60	15-98
PT-INC-080	-10-85	10-60	15-98
PT-INC-081	-10-85	10-60	15-98
PT-INC-082	0-85	10-60	20-98
PT-INC-083	0-85	10-60	20-98
PT-INC-084	0-85	10-60	20-98

Technical Information

Model	Temperature fluctuation	Temperature uniformity	Humidity fluctuation
PT-INC-079	$\pm 0.3\text{ }^{\circ}\text{C}$ (25 $^{\circ}\text{C}$)	$\pm 0.8\text{ }^{\circ}\text{C}$ (25 $^{\circ}\text{C}$)	$\pm 2\%\text{RH}$
PT-INC-080	$\pm 0.3\text{ }^{\circ}\text{C}$ (25 $^{\circ}\text{C}$)	$\pm 0.8\text{ }^{\circ}\text{C}$ (25 $^{\circ}\text{C}$)	$\pm 2\%\text{RH}$
PT-INC-081	$\pm 0.3\text{ }^{\circ}\text{C}$ (25 $^{\circ}\text{C}$)	$\pm 0.8\text{ }^{\circ}\text{C}$ (25 $^{\circ}\text{C}$)	$\pm 2\%\text{RH}$
PT-INC-082	$\pm 0.3\text{ }^{\circ}\text{C}$ (25 $^{\circ}\text{C}$)	$\pm 1\text{ }^{\circ}\text{C}$ (25 $^{\circ}\text{C}$)	$\pm 3\%\text{RH}$
PT-INC-083	$\pm 0.3\text{ }^{\circ}\text{C}$ (25 $^{\circ}\text{C}$)	$\pm 1\text{ }^{\circ}\text{C}$ (25 $^{\circ}\text{C}$)	$\pm 3\%\text{RH}$
PT-INC-084	$\pm 0.3\text{ }^{\circ}\text{C}$ (25 $^{\circ}\text{C}$)	$\pm 1\text{ }^{\circ}\text{C}$ (25 $^{\circ}\text{C}$)	$\pm 3\%\text{RH}$

Model	Input power (W)	Shelves: supplied / maximum
PT-INC-079	1900	3/6
PT-INC-080	1950	4/12
PT-INC-081	2000	4/12
PT-INC-082	3100	4/12
PT-INC-083	3200	4/12
PT-INC-084	3300	4/12

Technical Information

Model	Chamber dimensions (mm)	External dimensions (mm)
PT-INC-079	506 × 400 × 750	669 × 772 × 1444
PT-INC-080	506 × 450 × 1100	669 × 822 × 1794
PT-INC-081	600 × 610 × 1100	763 × 982 × 1794
PT-INC-082	1200 × 610 × 1100	1362 × 980 × 1782
PT-INC-083	1200 × 760 × 1100	1362 × 1130 × 1782
PT-INC-084	1400 × 850 × 1350	1562 × 1220 × 2040

Selection / Ordering Information

Specify the model, sample or application, working temperature and required shelf arrangement. Confirm electrical supply and the final configuration before ordering.