

Divided Flow Accurate Humidity Generators

a very high accuracy as +/-1%

Model SRH series

The SHINYEI model SRH is a precision humidity generator that uses the divided-flow principle, and was developed based on a technical cooperation agreement between Shinyei and The Institute of Physical and Chemical Research (RIKEN). The system can be quickly set anywhere in the range of 0 to 100%rh, and yields accurate and stable atmospheric conditions. The system can be used as a standard calibration chamber for thermo-hygro instruments and humidity sensors, or for special testing of items requiring precise environmental conditions, like semiconductors, electronic components, pharmaceuticals, plants and bacteria.



The Divided Flow principle

The divided flow system can quickly and accurately reach any specified humidity level by blending a mixture of dry and humid (saturated) air.

Unlike ordinary Temperature & Humidity Chambers or Air Conditioning equipment, this is a primary humidity generator.

Features

- Humidity atmosphere in a range of 0 to 100%rh can be generated.
- It provides a very high accuracy of +/-1%rh
- Desired humidity can be established rapidly.
- It is extremely easy to operate.
- It provides excellent reproducibility.

Characteristic

Model No.	SRH-1RC135ADR	SRH-1MC135ADR	SRH-3MC135ADR
Temperature setting range	5 to 60°C (*1)	5 to 60°C (*1)	-10 to 80°C (*1)
Humidity discharge range	0 to 100%rh		
Temperature accuracy	+/-0.5°C		
Humidity accuracy	+/-1%rh for 15 to 90%rh (*2)	+/-1%rh for 10 to 90%rh (*2)	
Humidity elevating time	180 sec. (0 to 100%rh)		
Flow meter	Rotameter	Thermal mass-flow meter	
Size of test chamber space	φ135 x 240mm		φ135 x 290mm
Valid range of test chamber space	φ135 x 200mm		φ135 x 220mm
Temperature indication controller	PID method digital indicator		
Dry air generating method	Consecutive regenerating method (ADR)		
Power supply voltage	100VAC 3.1kW 50Hz or 60Hz		200VAC 9.5kW 50Hz or 60Hz
Outside dimension	(W)800 x (D)650 x (L)1000mm		(W)1510 x (D)1050 x (L)1130mm
Weight	About 120Kg		About 700Kg

Note : (*1) In case of connect with Temperature circulator.

(*2) The temperature of 25°C is standardized.



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