ETAC.

HIFLEX









Major characteristic

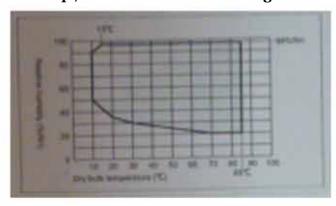
- Compact and space-saving design by stacking plural chamber(s) Up to 3 (three) kinds of test is operative simultaneously.
- Ready to use with constant operation Operation key is available at front panel.
- User-friendly comfortable operation via optional smart controller Not only program operation but also data acquisition by external terminal (tablet, PC etc.) is possible.
- Energy-saving by unique refrigerator system minimizing running cost
- Low noise operation by adopting rotary compressor

Quick Reference

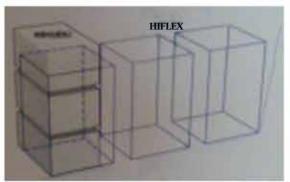
Internal dimensions	W500 x H350 x D350mm			W600 x H600 x D500mm							
Temperature/humidity chamber											
-40°C ~ +100°C	1 chamber	SX410N	With rack								
20%RH. ~98%RH	2 chambers	SX420N	With rack	2 chambers	SX412N	Without rack					
20/0811. 1-30/0811	3 chambers	SX430N	Without rack								
Low temperature chamber											
	1 chamber	SL410N	With rack								
-40°C ~ +100°C	2 chambers	SL420N	With rack	2 chambers	SL412N	Without rack					
	3 chambers	SL430N	Without rack								

^{*+150}C maximum temperature is available as option.

Temp./humid. Controllable range



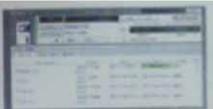
Space-saving feature



User-Friendly display on external terminal



·Login screen : To enter user name and password.



Operation management screen:
 To manage test conditions.
 Start and end of a test are recorded.



Main body control panel

888888

With display

Operation status check screen : To display past and current test Progress status

Valuable option

■Viewing window (W210xH303mm) Observation from outside is possible.



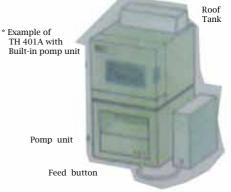
Paperless recorder
The data is served in CF
Card and transferred to PC



■ Additional cable port Square cable port (100x30mm) And round cable port (∅ 50 and ∅ 120mm) are available.



■ Humidification water supply system Pump unit is available to supply humidification water form portable Tank (22L) to roof tank. (SX430N is external type.)



Stop button

■ Specification: Temp. /humid chamber (SX type), Temp. chamber (SL type)

	Model			SX401N/SL401N	SX402N/SL402N	SX403N/SL403N	SX412N/SL412N		
	Temp. range			- 40°C ~+ 100°C [- 40°C ~+ 150°C]					
	Humid. Range (SX only)			20% RH ~ 98% RH					
Performance			М	-40 ~+ 100 °C [-40 °C ~+ 150] °C					
	Temp. ramp-up time		Within 35 min. [within 45 min.] Within 35 min [35 min.]						
	Temp. ramp-down time			+ 20 ~– 40 °C within 60 min.					
	Temp. rate of change (ramp-up)			-26 °C ~+86 °C [-21 °C ~+ 131C] 4.0 °C /min[4.0 °C /min.]					
erfo	Temp. rate of change (ramp-down)			+ 86 °C ~- 26 °C [+131 °C ~- 26 °C] 1.5 °C min. [1.5 °C / min.]					
۵	Temp. and humid variation			± 0.3°C / ± 2.5% RH [± 0.5°C (+100.1°C~+150°C)] × Humid. Is only SX.					
	Temp. and humid. Gradient			Temp. Operation : 3.0°C [5.0°C (+100.1°C~+150°C)] Temp. / humid. Operation : 2.0°C /5.0% RH Humid. Is only SX.					
	Temp. and humid. Space variation		Temp. Operation: 2.5°C [5.0°C (+100.1°C~+150°C)] Temp. / humid. Operation: 1.5°C /5.0% RH Humid. Is only SX.						
	Ambient temp		+5°C ~+ 35°C						
	Internal dimension (W x H x Dmm)			500 x 350 x 350	(500 x 350 x 350) x 2	(500 x 350 x 350) x 3	(600 x 600 x 500) x 2		
	Capacity (liter)			61	61 X 2	61 X 3	180 X 2		
body	External dimension (W x H x Dmm)			660 x 1535 (SL : 1300) x 1035	660 x 2125 (SL : 1890) x 1035	660 x 2155 (SL : 1920) x 1370	760 x 2020 (SL : 1785) x 1930		
in		Weight	•	185 (SL : 180)	325 (SL : 320)	470 (SL : 465)	485 (SL : 480)		
Main	External metal plate		100 (01.100)	, ,	, ,	.05 (51. 100)			
	Internal metal plate		Bonded steel plate Stainless plate (SUS304)						
	·			Sirocco fan					
	Circulation fan		Rotary compressor						
	Refrigerator		R-404A						
	Refrigerant			Nichrome strip heater					
	Thermal heater		Sheathed heater (SUS316)						
Main unit	Humidification heater (SX only)		Plate n fin coil						
	Cooling device		JIS C 1604 3 wires PT100Ω						
	Control sensor Control method		PIC control						
	Display		LED display						
				0.1°C / 1% RH					
	Display resolution Setting method Ethernet			· ·					
	ont	Settin	Ethernet	Key-in to main body operation panel/Input method by external terminal					
	J	Interface (option)	USB	10BASE-T/ 100BASE-TX AUTO-MDIX RJ45 connector x 1 channel					
		interface (option)		USB2.0 TYPE A Type A connector x 2 channel					
Pos	uired	Powe	Memory capacity	4GB					
			,	AC200V, $3\emptyset$, $50 / 60$ Hz, Fluctuation $\pm 10\%$ DI or pure water $(0.1^{\sim}10\mu S / \text{cm}, 0.1 \sim 0.5\text{MPa})$					
	•	pment Humidification water (SX only)		SX : 15 / SL : 9	SX : 30 / SL : 18	SX : 45 / SL : 27	SX : 46 / SL : 32		
	ax. load current (A)		SX:11/SL:7	SX : 22 / SL : 14	SX:33/SL:21	SX : 34 / SL : 26			
	Operation current (A)			0.43 ~ 1.4	0.86 ~ 2.8	1.3~4.2	1.7 ~ 6.8		
не	at gene	eration (Kw)							
				Earth leakage breaker for power supply, Overload relay for fan motor, Boil dry protector, Overheat Protector, Pressure switch for refrigerator, Overload relay for relay for refrigerator, Overload re					
Dre	ntaction	n device		power source, Overheat protecting Fuse for thermal heater, Overheat protecting fuse of humidification heater (only SX), Overheat					
FIG	Protection device			Protecting fuse for control circuit, Detector for sensor discontinuance, Alarm function for Temp./ humid. Upper/ lower limit, Power					
				filter alarm, Wick dry alarm (only SX), Water Tank low level alarm (SX only)					
				Memory back-up function, Pause function, Monitor function, Self-diagnostic function, Power failure Protection function, Instantaneous					
۸.4	Additional function			power failure back-up function, External alarm function, Test and Output function, Time signal output function, Wait function,					
Aŭ				Specimen power supply interlock Function, Timer function, Delayed humidification (only SX), Test end operation function					
		Main hody		Round cable port (Ø 50, one each left/ right side), Caster and Adjuster, Dust proof filter for Condenser					
Sta	Standard feature Main body			Operation manual, Ø 50 cable port silicon stopper (2 pcs), Shelf supporter (2 sets), Wick (only SX)					
			Accessory	Operation manual, y 30 cause port silicon stopper (2 pcs), silen supporter (2 sets), with (only 3A)					

Note 1: Description in [] is for only optional 150°C specification Note 2: Performance is subject to + 23 °C as environment temperature based on JTM K 09. Note 3: If environmental temperature is less than + 5 °C and more than + 35 °C, alarm is happened. Note 4: if environmental temperature is more than 32 °C, the performance is not guaranteed. Note 5: External include protrusion. Note 6: Max. load current (A) is maximum value when all devices is ON. Note 7: Operation current (A) is maximum value for normal usage. Note 8: Performance specification might be changed depends on option.

