

# Specifications for Horizontal Type 200°C Series

Product name			High temperature chamber				
Type			HT210	HT220	HT230	HT240	HT250
Circulation method			Forced convection system				
Performance	Temperature range		(Ambient temperature + 20℃)～+ 200℃				
	Temperature uniformity		± 1.5℃ (at + 200℃)		± 2.0℃ (at + 200℃)		
	Temperature heat-up rate		Within 40 minutes (Room temperature→+ 200℃)		Within 45 minutes (Room temperature→+ 200℃)		
Controller	Control method		Microcomputer controlled temperature controller (ETACOM) / PID control method				
	Setting / display accuracy		1.0℃				
	Setting / display resolution		0.5% (F.S.) + 1℃/digit				
	Sensor		K thermocouple				
Body	External material		Cold rolled steel plate with baked coating finish				
	Internal material		Stainless steel plate (SUS304)				
	Thermal insulation materials		Glass wool				
Thermal heater			Nichrome strip wire heater				
Air transport mechanism	Electric motor		Single phase motor				
	Fan		Propeller fan				
	Damper		Recirculation and ventilation switching is possible				
	Air exhaust outlet		φ 82				
Protection devices			Leakage breaker for power supply, Overheat protector (With ETACOM), Fan motor thermal protector, Power failure recovery prevention, Keeping function prevention with instant power failure, Warning alarm, Lower set temperature limit alarm, Overheat protector (For upper set temperature limit), Interlock terminal, Abnormality display, Alarm for temperature exceeding the set point +10℃, Microcomputer self-diagnosis function (Abnormal CPU, Damaged sensor, Damaged heater, Abnormal ambient temperature), Temperature fuse, Anti-shut door mechanism				
Additional functions			Memory back-up (Approx. 5 years), Auto start, Auto stop, Program operation function (2 steps × 3 patterns), Final step operation holding function				
Power supply			AC200V single phase 50 / 60Hz		AC200V three phase 50 / 60Hz		
Full load current (A)			10	13	11	14	17
External dimensions (W × H × Dmm)			1040 × 820 × 675	1190 × 970 × 825	1460 × 1265 × 835	1460 × 1465 × 1035	1660 × 1465 × 1035
Internal dimensions (W × H × Dmm)			450 × 450 × 450	600 × 600 × 600	800 × 800 × 600	800 × 1000 × 800	1000 × 1000 × 800
Capacity (Liter)			91	216	384	640	800
Weight (kg)			85	120	220	280	300
Accessories	Operation manual		1 copy				
	Shelf	Quantity	2 shelves, 4 shelf supports				
		Minimum installation pitch (mm)	50				
		MAX. number of shelves	8	11	15	19	19
	Connector		1 unit (Power supply for the specimen to be tested)				
	Power supply cord		Three core captire cord (with grounding strip) 2m		Not included		
	Warranty		Mailed separately				

\*The displayed performance is at ambient temperature of +20°C and when there are no test specimens in the chamber.

\*These specifications may be changed without notice for improvement or modification.

# Specifications for Horizontal Type 300°C Series

Product name			High temperature chamber				
Type			HT310	HT320	HT330	HT340	HT350
Circulation method			Forced convection system				
Performance	Temperature range		(Ambient temperature + 20℃) ~ + 300℃				
	Temperature uniformity		±2.5℃ (at + 300℃)		±3.0℃ (at + 300℃)		
	Temperature heat-up rate		Within 50 minutes (Room temperature→+300℃)		Within 60 minutes (Room temperature→+ 300℃)		
Controller	Control method		Microcomputer controlled temperature controller (ETACOM) / PID control method				
	Setting / display accuracy		1.0℃				
	Setting / display resolution		0.5% (F.S.) + 1℃/digit				
	Sensor		K thermocouple				
Body	External material		Cold rolled steel plate with baked coating finish				
	Internal material		Stainless steel plate (SUS304)				
	Thermal insulation materials		Glass wool				
Thermal heater			Nichrome strip wire heater				
Air transport mechanism	Electric motor		Single phase motor				
	Fan		Propeller fan				
	Damper		Recirculation and ventilation switching is possible				
	Air exhaust outlet		φ 82				
Protection devices			Leakage breaker for power supply, Overheat protector (With ETACOM), Fan motor thermal protector, Power failure recovery prevention, Keeping function prevention with instant power failure, Warning alarm, Lower set temperature limit alarm, Overheat protector (For upper set temperature limit), Interlock terminal, Abnormality display, Alarm for temperature exceeding the set point + 10℃, Microcomputer self-diagnosis function (Abnormal CPU, Damaged sensor, Damaged heater, Abnormal ambient temperature), Temperature fuse, Anti-shut door mechanism				
Additional functions			Memory back-up (Approx. 5 years), Auto start, Auto stop, Program operation function (2 steps × 3 patterns), Final step operation holding function				
Power supply			AC200V single phase 50 / 60Hz		AC200V three phase 50 / 60Hz		
Full load current (A)			16	16	14	17	19
External dimensions (W × H × Dmm)			1040 × 820 × 675	1190 × 970 × 825	1460 × 1265 × 835	1460 × 1465 × 1035	1660 × 1465 × 1035
Internal dimensions (W × H × Dmm)			450 × 450 × 450	600 × 600 × 600	800 × 800 × 600	800 × 1000 × 800	1000 × 1000 × 800
Capacity (Liter)			91	216	384	640	800
Weight (kg)			85	120	210	280	300
Accessories	Operation manual		1 copy				
	Shelf	Quantity	2 shelves, 4 shelf supports				
		Minimum installation pitch (mm)	50				
		MAX. number of shelves	8	11	15	19	19
	Connector		1 unit (Power supply for the specimen to be tested)				
	Power supply cord		Three core captire cord (with grounding strip) 2m		Not included		
	Warranty		Mailed separately				

\*The displayed performance is at ambient temperature of +20°C and when there are no test specimens in the chamber.

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