PURICUBE NEO

BIOLOGICAL SAFETY CABINET

Class II type A2 biological safety cabinet that protects the user and lab environment from the biohazard factor and prevents cross contamination of various samples used in experiments

- Class II Type A2
- 99.995% efficient HEPA filter

STANDARD SPECIFICATION

CE

Model		PURICUBE NEO 900	PURICUBE NEO 1200	PURICUBE NEO 1500	PURICUBE NEO 1800
Size	Inner(W x D x H)mm	900x578x621	1200x578x621	1500x578x621	1800x578x621
	Out(W x D x H)mm	970x788x2080	1270x788x2080	1570x788x2080	1870x788x2080
	Weight(Kg)	190	225	250	280
	Base Stand(mm)	Stand 715 (Included Caster 82)			
Type		Class II A2 (70% recirculation as downflow & 30% exhaust as outflow)			
Controller	Display	LCD display			
	Function	FL lamp On/Off, UV lamp On/Off, UV lamp timer, Total using / Filter using time			
Sash		Weight balanced sliding tempered safety glass(5mm thick)			
Worktop Material		Stainless steel plate 304, HL			
Inside Material		Stainless steel plate 304, HL			
Outside Material		Epoxy powder coated steel plate			
Filter		H-14 HEPA filter : 99.995% at 0.3㎛ / ISO class 5			
Average Airflow Velocity	Inflow	0.45 m/s	0.45 m/s	0.45 m/s	0.45 m/s
	Downflow	0.30 m/s	0.30 m/s	0.30 m/s	0.30 m/s
Gas Valve		1EA			
Air Valve		1EA			
Consent		2EA with reinforced cover(mounted on inside wall)			
UV Lamp		20W x 1EA	30W x 1EA		40W x 1EA
FL Lamp		55W x 1EA	55W x 1EA	55W x 2EA	
Noise (dB)		< 70dB			
Power		AC 230V ± 10%, 50-60Hz, 1Phase			
Safety		UV lamp automatic switch-off when door's opened, Fuse installed each electric part, Filter life span alarm with buzzer and display on screen			

MAIN FEATURE

- **Suitable for laboratories requiring higher levels of safety grade 2**
  - Intake air and working chamber air are drawn to the under plenum of the worktop bench ensuring user safety in assured.
  - 70% recirculated air is filtered with the HEPA filter, ensuring product safety is assured.
  - 30% exhausting air is emitted through the HEPA filter, which complies with the environmental safety requirements of the laboratory.

- **Equipment that enables safe UV sterilizer**
  - UV sterilization will effect micro organisms at the surface of work table.
  - While UV light is on, front reinforcement glass door protects the user by blocking UV rays.
  - Automatically turns off UV light when opening the door or turning on the fluoresent lamp.

- **Checking the life and performance of filters through a differential pressure gauge**

  Measure the pressure of the bottom HEPA filter to check the performance and lifespan of the filter in real time, allowing more safe and efective testing.

- **Front-side 10 degree tilting design for user's convenience**
  - Ergonomic 10degrees tilting design allows users to make a convenient posture during experiment, which enables user's neck, shoulders and back comfortable despite long work with the cabinet. Also user's eyes can be protected from the reflection of light to the glass surface by this tilting design.

- **Strengthen sample and user safety**
  - Protect specimen and user's safety by inflow and downflow control.
  - Internal air pressure is maintained with negative pressure compared to the outside, preventing the contaminated air from escaping through the gaps.

- **High performance motor to maintain the set airflow velocity**

  Regardless of filter loads, airflow velocity can be maintained at the set value through the high performance motor

- **Easy and quick maintenance due to short filter replacement time**

  The filters can be replaced in any direction in front or upper of the cabinet, minimizing the time required for maintenance to be maintained regardless of the installation conditions.

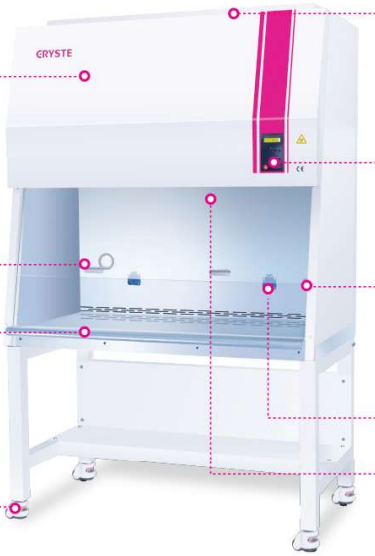
- **Strengthen validation support using higher performance filters**
  - HEPA filter that enables to remove 99.995% of particles that have a size greater than or equal to 0.3㎛
  - Optional ULPA filter that enables to remove 99.9995% of particles that have a size greater than or equal to 0.12㎛

ADVANTAGE

- **Ergonomic design to give the increased convenience**
  - With a 10 degrees sloped design, it is possible to reduce tension in the arms, neck, and shoulders during the experiment.
  - Thanks to higher door glass, extensive visibility can be achieved. Since there is no frame at the bottom of the door glass, the visibility is not disturbed during experiment.
  - Due to the armrest, it is convenient to perform more than a certain amount of time, and the elbow can be fixed in the event of precise operation.

① ∠10° Angle in front ② Frame-less window

PART DESCRIPTION



H14 HEPA Filter(Downflow)
99.995% removal efficiency for 0.3μm particles

Differential Pressure Gauge
Filter loads can be checked indirectly

Armrest

Robust Caster
Flexible to move and fix

H14 HEPA Filter(Exhaust)
99.995% removal efficiency
for 0.3μm particles

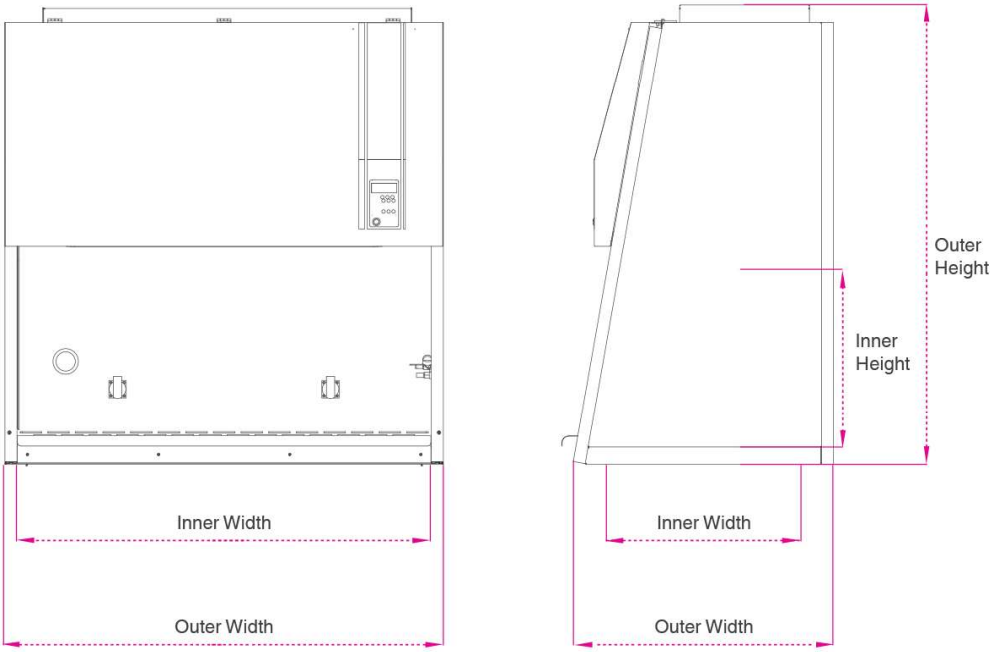
LCD screen & digital controller
Information(UV/FL/Fan On/Off) display
and simple operation

Utility Supply such as gas, air
Valves are mounted in side structure and
corresponding outlet fittings are installed
in rear side

Water-proof electricity sockets

UV Lamp
For Sterization

DIMENSIONAL INFORMATION



ORDER INFORMATION

DIVISION	ITEM	ORDER CODE			
		PURICUBE NEO 900	PURICUBE NEO 1200	PURICUBE NEO 1500	PURICUBE NEO 1800
PRODUCT	Main Body	PCBN-9-MB	PCBN-12-MB	PCBN-15-MB	PCBN-18-MB
OPTION	Change to ULPA filter	PCBN-9-OP1	PCBN-12-OP1	PCBN-15-OP1	PCBN-18-OP1
	Add. Gas Valve	PCBN-9-OP2	PCBN-12-OP2	PCBN-15-OP2	PCBN-18-OP2
	Add. Air Valve	PCBN-9-OP3	PCBN-12-OP3	PCBN-15-OP3	PCBN-18-OP3
	Add. Consent(220V)	PCBN-9-OP4	PCBN-12-OP4	PCBN-15-OP4	PCBN-18-OP4
	Change to inner Consent(110V)	PCBN-9-OP5	PCBN-12-OP5	PCBN-15-OP5	PCBN-18-OP5
SPARE	HEPA Filter Set	PCBN-9-SP1	PCBN-12-SP1	PCBN-15-SP1	PCBN-18-SP1
	ULPA Filter Set	PCBN-9-SP2	PCBN-12-SP2	PCBN-15-SP2	PCBN-18-SP2
	UV Lamp(20W/30W/40W)	PCBN-9-SP3	PCBN-12-SP3	PCBN-15-SP3	PCBN-18-SP3
	FL Lamp(36W/55W)	PCBN-9-SP4	PCBN-12-SP4	PCBN-15-SP4	PCBN-18-SP4
	Gas Valve	PCBN-9-SP5	PCBN-12-SP5	PCBN-15-SP5	PCBN-18-SP5
	Air Valve	PCBN-9-SP6	PCBN-12-SP6	PCBN-15-SP6	PCBN-18-SP6
	UV ballast	PCBN-9-SP7	PCBN-12-SP7	PCBN-15-SP7	PCBN-18-SP7
	FL Ballast	PCBN-9-SP8	PCBN-12-SP8	PCBN-15-SP8	PCBN-18-SP8
	Sirocco Fan/Motor	PCBN-9-SP9	PCBN-12-SP9	PCBN-15-SP9	PCBN-18-SP9
	Mainboard & Controller	PCBN-9-SP10	PCBN-12-SP10	PCBN-15-SP10	PCBN-18-SP10
	Differential Pressure gauge	PCBN-9-SP11	PCBN-12-SP11	PCBN-15-SP11	PCBN-18-SP11
	Glass Door	PCBN-9-SP12	PCBN-12-SP12	PCBN-15-SP12	PCBN-18-SP12
	Coated Wire	PCBN-9-SP13	PCBN-12-SP13	PCBN-15-SP13	PCBN-18-SP13

- These options must be ordered before confirmation of order because it's not possible to modify later