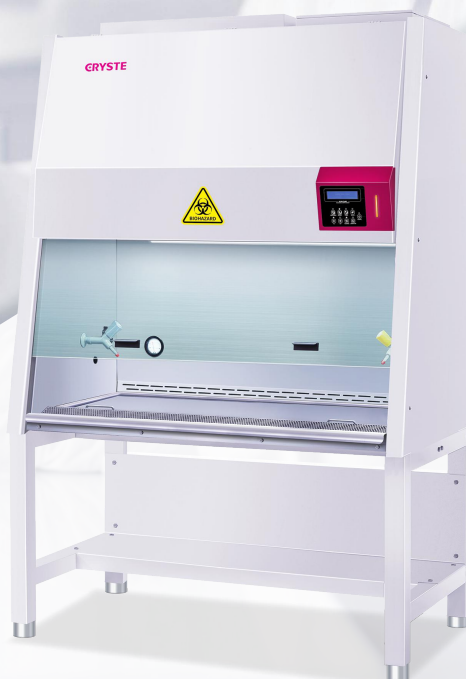


PURICUBE PRIME

Biological safety cabinet Class II airflow ratio is 70% recirculation and 30% exhaustion, providing protection to persons, samples, and the environment from biological hazards and contamination. PURICUBE PRIME is EN12469 certified by TÜV NORD in Germany.



STANDARD SPECIFICATION

EN12469



MODEL		PURICUBE PRIME 1200	PURICUBE PRIME 1500
ORDER CODE		PCBP-12-MB	PCBP-15-MB
Size	Inner(W x D x H1)mm	1200 x 598 x 580	1500 x 598 x 580
	Out(W x D x H2)mm	1324 x 798 x 2027	1624 x 798 x 2027
	Base Stand(H)mm	670	670
Weight(kg)	Main Top(Kg)	238	277
	Bottom Stand(Kg)	34	38
Controller	Display	Back light blue LCD display	
	Function	Downflow / Inflow Velocity Display, Light On/Off, UV lamp On/Off, Fan On/Off, SMART OFF, Socket On/Off, Filter Life Span, Time/Timer, Easy Run Mode	
	Alarm	Airflow Deviation / Unsafe Sash Height / Filter Life Exhausted / UV lamp Exhausted / Power Failure & Secondary Evacuation Alarm	
Material	Worktop	Stainless steel plate 316	
	Inside	Stainless steel plate 304	
	Outside	Epoxy powder coated steel plate	
Sash		Two-layer laminated toughened glass ≥ 6.35mm. Anti UV.	
Tested Opening(H)mm		203	203
Max Opening(H)mm		480	480
Filter		H-14 HEPA filter : 99.995% at 0.3μm / Class 100 (ISO14644.1 class 5)	
Type & Airflow system		Class II A2 (70% recirculation & 30% exhaust, Two-Flow Sensors)	
Average Airflow Velocity	Inflow	0.45m/s±0.025m/s	0.45m/s±0.025m/s
	Downflow	0.30m/s±0.06m/s	0.30m/s±0.06m/s
Airflow Volume	Inflow(m³/h)	420	540
	Downflow(m³/h)	600	780
	Exhaust(m³/h)	420	540
Air Valve		1EA	
Socket		2EA with reinforced cover(mounted on inside wall)	
UV Lamp		30W x 1EA	
Illumination	LED Light	15W x 2EA	20W x 2EA
	Light Intensity	≥ 1000Lux	
Noise		< 65dB(A) (203mm opening)	
Power		220-240 V~, 50/60 Hz, 6.0A	
Power Consumption		550W	700W
Fan Power		450W	600W

MAIN FEATURE

Engineered for Excellence, Built for Safety

This innovative EN12469-certified biological safety cabinet is designed to allow the users concentrate fully on their experiments, free from safety concerns. With its globally standardized safety features, it proactively eliminates even the subtlest, unnoticed risks, ensuring unmatched protection and peace of mind.



Alarm for The Status of The Device

Danger

- Abnormal Airflow Velocity
- Abnormal Door Height
- Emergency Evacuation During Power Outage
- Controller Malfunction
- Warm-up (Before airflow is in equilibrium)
- Door Open during UV Use

+



Alarm Signal

Caution

- During UV Use
- "SMART OFF" Mode Active

Safe

- Normal Airflow
- Normal Door Operating Height

EFFICIENT SUPPORT IN RESEARCH



EASY-RUN Mode

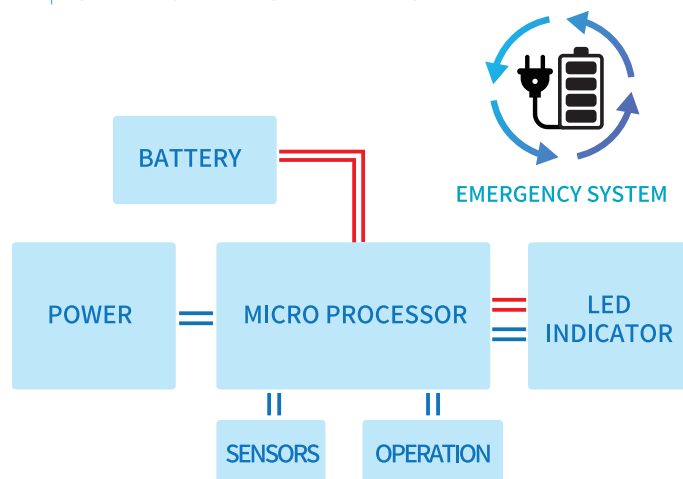
It can be switched between normal and minimum airflow velocity by simply opening and closing the door, without the need to press any buttons during operation. This allows for efficient work resumption throughout the day, without the need to reset the BSC.

Convenient Usability



After the initial setup, all operations are automatic, just opening and closing the door sash.

SAFE IN UNPREDICTABLE DANGER



Blocking Unpredictable Risks

When a power outage occurs and the power is cut off, the device loses power, making it difficult to form airflow, and thus cannot perform the role of Biocontainment.

In the event of a power outage, the notification alarm system can be used to recognize danger and enable preemptive evacuation.



CRYSTE Class II Biological Safety Cabinet has been tested and certified by TUV NORD, Germany (an internationally recognized testing agency accredited to ISO17025).

Among the safety marks of many countries around the world, acquisition of the GS mark, which can only be given to products with strict quality, means that PURICUBE PRIME is an excellent product that guarantees the highest level of safety in life science laboratories and experimenters.

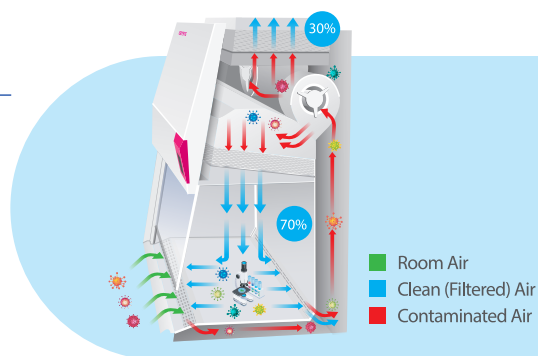
FEATURE PLUS

Uncompromising Technology and Principles

STRONG POINT 1 Real Time – Smart Balancing Flow System

Realtime smart airflow velocity balancing is achieved through the dual positive pressure chamber (Patent Application No. 10-2517048) and dual sensor/blower system.

This system protects both users and samples by ensuring the main airflow and inflow remain at a constant speed, while accurately and immediately detecting any changes in airflow velocity. Additionally, it automatically maintains the airflow velocity setting by supplementing the loading conditions of the HEPA filter according to the usage time, providing a safe environment identical to the initial state for a long time



STRONG POINT 2 Ensuring Clean Air through Qualified Filters

Filter class and group	EN 1822-1 2019	
	Efficiency (%)	Penetration (%)
H14(HEPA)	≥99.995	≥0.005
U15(ULPA)	≥99.9995	≥0.0005

The standard HEPA filter of PURICUBE PRIME meets the EN1822 standard. It uses a highly reliable filter, accompanied by an individual report for leak testing.

STRONG POINT 3 Complete Response to Validation Requirements



PURICUBE PRIME has successfully passed the comprehensive EN12469 test, making it a trusted product that can seamlessly meet all field validation requirements.

Essential Validation Requirements

- ☒ Inflow Velocity
- ☒ Downflow Velocity
- ☒ Filter Leak Test
- ☒ Smoke Pattern Test
- ☒ Site Installation Assessment
- ☒ Alarm Border Test
- ☒ Particle Counting
- ☒ Light Intensity Test
- ☒ Noise Level Test
- ☒ Vibration Test

SELECTABLE OPTIONS

Flexibility to suit your needs



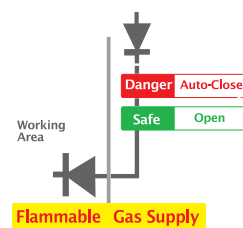
Included as standard



Optional

Utility Valve

- Safe valve with handle lock function
- Valve certified by German Gas Association (DVGW)
- Color-coded for flammable gas (yellow) and air (gray) : Complies with international standards
- As a certified option



Electronic Gas Shutoff Valve (Optional)

- An essential emergency shutoff valve for the use of flammable/combustible gases
- This electronic valve is programmed to supply gas only under 'normal operating conditions' during experiments in the workspace, preventing secondary damage caused by failure to shut off the gas valve in an emergency
- Valve certified by German Gas Association (DVGW)
- As a certified option

Standard Compliance

Biological Safety

DIN EN 12469:2000

Electrical Safety

IEC 61010-1:2010/AMD1:2016
EN 61010-1:2010/A1:2019
IEC 61326-1:2020

Filtration

EN 1822

Additional

IEC 62471:2006 (First Edition)
EN 62471:2008
KS L 2004

PART DESCRIPTION

EN1822 Certified H-14

Standard that enables to remove 0.3 μ m particles with an efficiency of 99.99% (ULPA filter is an option)

DC Motor Blower

That efficiently performs the automatic correction function of the central controller based on data from a real-time airflow velocity measurement sensor

LED Light

UV Blocking Laminated Glass

For safe use of UV-C sterilization lamp (Compliant with IEC/EN62471 standards)

Air Valve (Left side)

Pressure Gauge for Status Monitoring

Paper Catch Grid

Blocks impurities from entering the differential pressure box due to strong air inflow

Bottom Stand

Power Supply Socket (Back side)

Real-Time Air Velocity Sensor

As a dual air velocity sensor, it accurately detects changes in inflow and downflow

UV Lamp for Sterilization

User-Friendly Controller with Intuitive Operation and LED Alerts

Integrated safety control tower: Immediate and visual risk recognition with LED color according to device status (Compliance with international safety color codes of OSHA and EU systems)

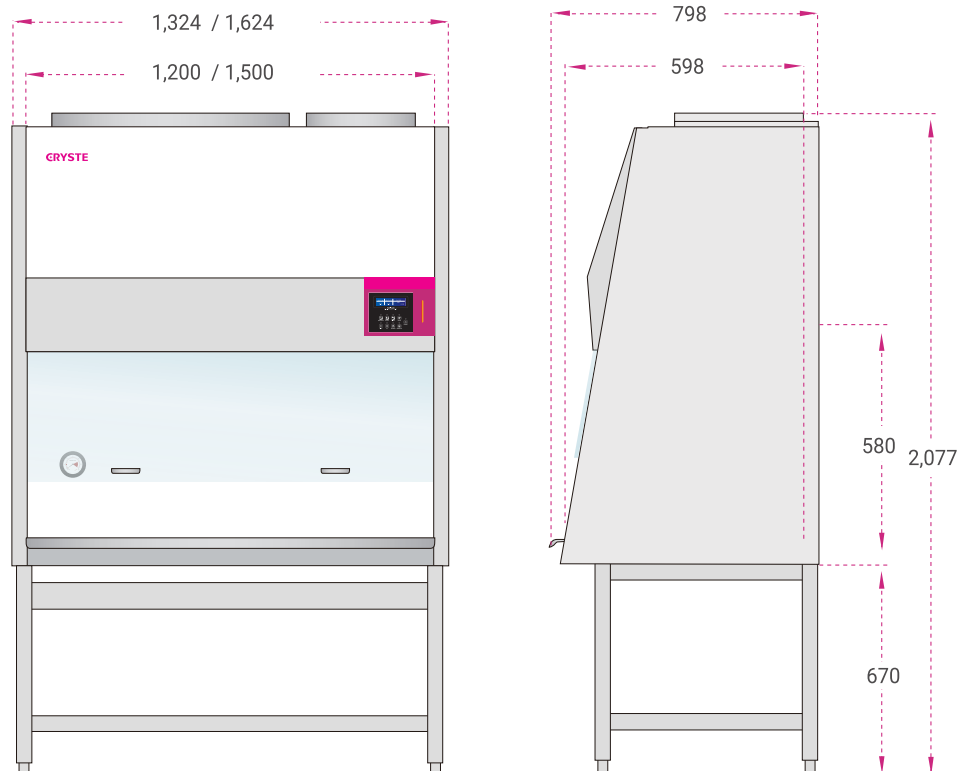
Gas Valve (Right side) - Option

Certified Laminated Glass

With its protective film, maintains its structure and integrity even if shattered, ensuring uninterrupted Biocontainment protection and preventing air leakage

Seamless Stainless Steel Work Top

DIMENSIONAL INFORMATION



ORDER INFORMATION

Division	Item	Order Code	
		PURICUBE PRIME 1200	PURICUBE PRIME 1500
	Main Body	CS-PCBP-12-MB	CS-PCBP-15-MB
Certified Option	Service Fixture_Air Valve(Additional)	CS-PCBP-COGS-AV	
	Service Fixture_Gas Valve	CS-PCBP-COGS-GV	
	Shut-off Valve for Inflammable Gas Line	CS-PCBP-COGS-SV	
Non-certified Option	With ULPA Filter	CS-PCBP-12-UFMB	CS-PCBP-15-UFMB
	Adjustable Base Stand	CS-PCBP-CO-BS12	CS-PCBP-CO-BS15