



PLATE-HOTEL-8

FULLY INCUBATED HOTEL FOR AUTOMATION

Incubated Hotel with 8-plate capacity - accurate, simple, affordable

Accurate

- **Accurate and precise:** designed and manufactured by Okolab, specialists in innovative top-tier environmental control equipment since 2003
- Provides **Heat, CO₂**, and **Humidity** for storage of multiple plates for a variety of automated screening workflows
- **Especially suited for automated microscopy** - enables walkaway time and higher throughput for any laboratory imaging system

Simple

- **Reliable:** unique design with 100% mechanical doors - no motorized parts to maintain, reducing the number of breaking points in your automated workflow
- **Compact:** small footprint provides a centralized thermal holding place that fits inside your automation workflow to prevent temperature shock; just the right scale for small-to-medium size screening applications
- **Fast:** direct access for each plate, no wait time

Affordable

- **Simplified software integration:** hotel does not use up a socket in your scheduling software
- **Versatile:** can be integrated with any robotic loader, for scheduled swap-in/out of plates
- **Okolab stands by the quality of our products:** we provide outstanding customer support for the lifetime of the instrument



GET IN TOUCH

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INCUBATION
EXPERTS**



PLATE-HOTEL-8

Technical Datasheet



Features

- 8 slots for ANSI-SLAS culture plates
- Tilting doors (not motorized)
- Access opening for the robotic arm (WxH) 130x38 mm
- AISI 304 stainless steel body shell

Temperature control

| | |
|---------------------------------|------------------------------------|
| Seven heating elements embedded | |
| Temperature probe | NTC Thermistor |
| Temperature range | 2°C above ambient temperature-40°C |
| Temperature accuracy | ±0.1°C |
| Temperature step size | 0.1°C |

Humidity control

| | |
|--|--|
| Internal water vessel automatically filled from an external tank | |
| Relative Humidity sensor | Humidity & Temperature Sensor IC |
| Humidity range | 75-95% RH at 37°C* |
| Humidity step size | 0.1% |
| Humidity accuracy | 0.1% |
| Embedded Suction pump | Water ±2 % RH (±0.3 °C Temperature accuracy) |
| Water tank suggested capacity | Peristaltic pump 24V DC, 315 RPM |
| | 1L |

* RH range depends on the temperature of the external environment.

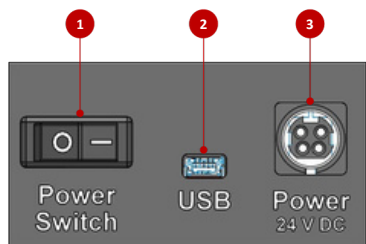
CO2 control

| | |
|--------------------|--------------------------------|
| CO2 sensor | Non-Dispersive InfraRed (NDIR) |
| CO2 range | 0-10% |
| CO2 accuracy | ±0.1 %** |
| CO2 step size | 0.1 % |
| CO2 inlet pressure | 1 barg |
| Outlet pressure | ambient pressure |

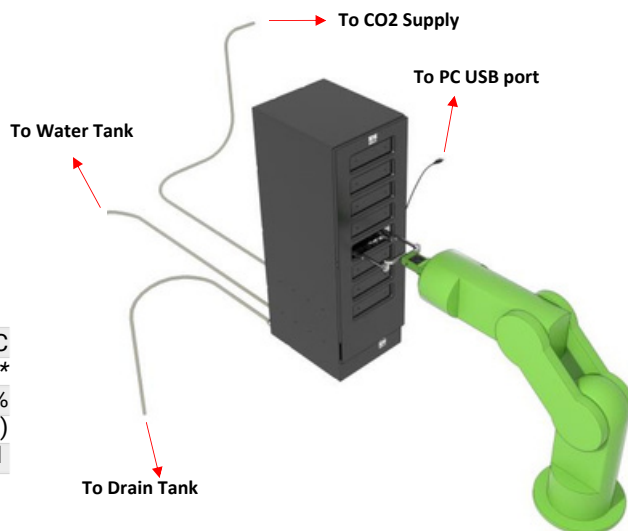
**In the reading range 4% - 7%. Typical reference conditions are 25°C, 1013mbar, 50% RH.

Connection

| | |
|---------------|--|
| 1 Powerswitch | On/off button |
| 2 USB port | Mini USB port |
| 3 Power input | 4 Poles Mini DIN female connector. To connect to power adapter |
| 4 CO2 input | Push to fit connector (6mm OD) for polyurethane or Teflon semirigid tube |
| 5 Water input | Connector for silicone tube (3mm ID) |
| 6 Water drain | Push to fit connector (10mm OD) for polyurethane semirigid tube |



b. PLATE-HOTEL-8 control right panel



a. PLATE-HOTEL-8 overview (robotic arm not supplied).

Power supply

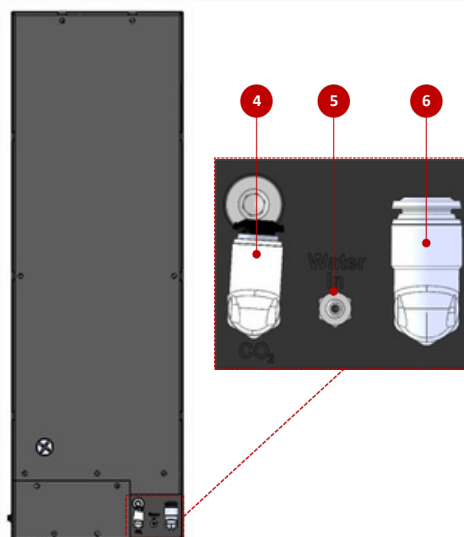
| | |
|-------------------|----------|
| Supply Voltage | 24V-DC |
| Power consumption | 75 W max |

External Environment Requirements – Indoor Use

| | |
|---------------------|-----------------|
| Temperature range | 20°C - 35°C |
| Relative Humidity | 40 - 70% |
| Barometric Pressure | 800 - 1200 mbar |

Physical Characteristics

| | |
|--------------------|----------------|
| Dimensions (LxWxH) | 220x280x661 mm |
| Weight | 20 kg |



c. PLATE-HOTEL-8 rear panel.

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