

BOLD LINE TOP STAGE INCUBATOR

Electrically heated top stage incubator with heated glass



Bold Line Top Stage Incubator consists of:

- Temperature controller
- Gas controller (CO₂ or dual CO₂/O₂)
- · Incubating chamber
- Humidity module
- · Touch screen interface
- Smart box (optional)

The Bold Line Top Stage Incubator maintains the required conditions for live cell imaging directly on the microscope stage.



Features:

- Temperature accuracy: ± 0.1°C in sample feedback mode and ± 0.3°C in chamber feedback mode, if room temperature is stable within ± 1°C
- · Operated through OKO-TOUCH
- · Automatic calibration routines
- Intelligent algorithm for fast thermal recovery after opening the chamber





TEMPERATURE CONTROLLER

H301-T-UNIT-BL-PLUS is the most advanced solution for temperature control. It can run in two different modes: Sample or Chamber feedback.

It is compatible with Digital Gas Controllers and with Active Humidity Controller to ensure the best environmental control for live cell imaging.

H301-T-UNIT-BL-PLUS has five independent temperature channels:

- Chamber base
- · Chamber lid
- · Objective heater
- · Sample temperature sensor
- Room temperature sensor



OKO-TOUCH interface

INCUBATING CHAMBER

All incubating chambers include the following components:

- · Chamber main body
- Chamber heated lid with embedded temperature sensors
- Magnetic interchangeable inserts with magnetic sample fixing tools
- Removable chamber riser to reduce the height of the chamber
- Perfusion holes for inlet and outlet of tubes
- · Optional lids available

GAS CONTROLLERS

The Bold Line Top Stage Incubator can be equipped with Bold Line gas controllers and with the Active Humidity controller.

Bold Line gas controllers feature:

- 0.1% accuracy and repeatability
- · Digital CO2 and O2 sensors
- Operated via OKO-TOUCH
- · Compatible with Smart Box



Technical specifications:

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	CO ₂		02		Output Flow Rate
	Range, %	Accuracy, ±%	Range, %	Accuracy, ±%	l/min
CO2-UNIT-BL	0-18	0.1	-	-	0.1 - 0.8 (0.4 with OKO-AIR-PUMP-BL)
CO2-O2-UNIT-BL [0-10;1-18]	0-10	0.1	1-18	0.1	0.2 - 0.8 (0.4 with OKO-AIR-PUMP-BL)
CO2-O2-UNIT-BL [0-20;1-95]	0-20	0.2 at 5% CO ₂ *	1-95	0.3 at 5% O ₂ *	*

^{*}Depends on the required gas concentrations. Please refer to www.oko-lab.com for detailed specifications.

TOUCH SCREEN INTERFACE

OKO-TOUCH is a user friendly 4.3" touch screen interface required to operate Bold Line controllers.

One OKO-TOUCH can control multiple Bold Line controllers.



HUMIDITY MODULE

HM-ACTIVE is a humidity controller equipped with a humidity sensor.

The HM-ACTIVE controls gas relative humidity with a resolution of 1%. The operating thermal range is 25 - 50 °C. Dry gas is humidified by flowing over warm water. A heated tube delivers the humid gas to the top stage chamber, preventing moisture condensation.

Operated through OKO-TOUCH.

SMART BOX

The Smart Box connects to the Bold Line controller and provides the following features:

- · Data logging
- Remote operation of the incubator via internet, tablet or smart phone
- · Video streaming server
- · Remote assistant





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