



Best Technology
For Your Laboratory

**SMART HOT & COLD INCUBATOR
WITH CIRCULATION FAN
S CLASS**

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CIF400S



Overview | CIF400S

FG cooling Incubators are equipped with various features, including high precision, repeatability, and temperature uniformity, making them suitable and reliable for the growth of microorganisms and the creation of a constant temperature environment in scientific, research, and industrial laboratories.

S class incubators, with their ability to connect to the internet in the cloud space, provide users with the easiest and most convenient way to monitor and analyse extensive data from any location around the world.

The CIF400S is a 400-liter forced-air circulation smart incubator.

Main features | CIF400S

Inner chamber and Heater element container made of stainless steel

The heater element embedded by stainless steel shield

External Case Coated with electrostatic powder paint

Inner door made of tempered safety glass

Circulation fan system with air channel

Equipped with Error Alarm

High energy efficiency

PT100 sensor

Special benefits | CIF400S

HCT (Homogeneous chamber technology)

Temperature stability and reproducibility

Uniformity @ 27 points of chamber

Triple-walled chamber

Fast recovery time

DUAL SAFETY

Class 3.3 independent temperature safety device (DIN12880)

Visual and audible temperature alarm

2 PT100 sensors

Cooling system with the unique technology of NON-CUT

Operable in environmental conditions with high temperatures (up to 30°C)

Temperature stability of $\pm 0.1^{\circ}\text{C}$, even in the cooling mode

40% saving in energy consumption

Frost-free

Special benefits | CIF400S

S class controller

Adjustable Smart timer from 1minute to 999 hours it means you can adjust, when timer process starts

A wide range of options for programming and documentation using interfaces, integrated data logger and Software FG SMART MONITOR

All parameters stored in internal memory up to 1 year

All parameters logged even in case of **power failure**

More stability thanks to **fuzzy controller**

Setting all parameters online/offline

Connect to internet with **Wi-Fi**

ARM series microcontroller

User friendly **calibration**

Various temp alarm

Open door alarm

USB port

Special benefits | CIF400S

FG SMART MONITOR

Multiplatform application (Android, Linux, IOS, windows, macOS, chromium and ...)

Programming, managing & transferring data by USB flash

Various reports with graph and tables in pdf/excel format

Unlimited programs, each program up to 100 steps

Weekly, monthly **automatic report** by email

Online controller display lock/unlock

Reports according to **GMP /GLP**

User friendly **online calibration**

Online monitoring and alarms

Temperature ramp setting

SMS/email notification

weekly program

Inner chamber

Easy access to the element container for cleaning

Easy loading and unloading of specimen material

Circulation fan system with air channel

2 chrome -plated racks included

Fully stainless steel chamber

Adjustable height of shelves

Silicon tape around the door

Rack with tilt protection

Easy cleaning

Special benefits | CIF400S

Outer body

Pre-heated fresh air prevents temperature fluctuations

Very tight door closure with 2-points door latch

Beautiful and ergonomic design

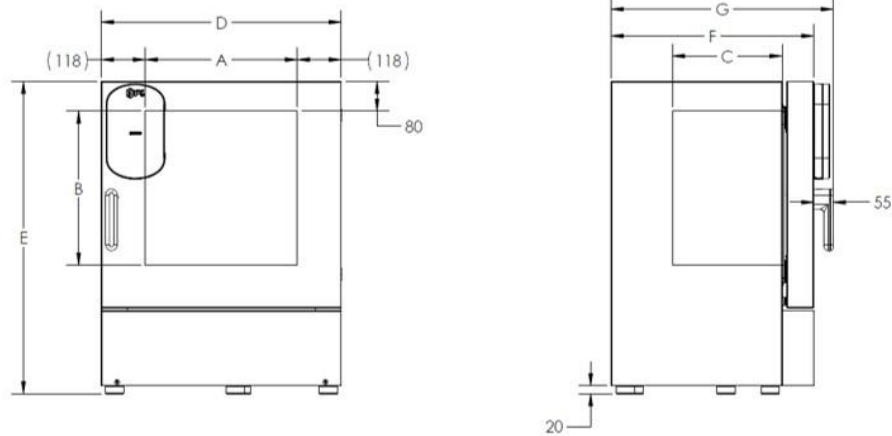
Service and guaranty

10-years after-sales service

5-years heater warranty

2-years guaranty

Specification | CIF400S



Exterior dimensions

Wall clearance, side (cm)	16
wall clearance, rear (cm)	10
Depth Plus door handle and controller (cm) (G)	75
Depth without doorhandle and controller (cm) (F)	70
Height (incl. feet) (cm) (E)	204
Width (cm) (D)	90
Weight (empty) (kg)	220
Number of doors (ea.)	1

Interior dimensions

Interior volume (l)	400
Height (cm) (B)	137
Width (cm) (A)	66
Depth (cm) (C)	45.5
Permitted total load (kg)	35
Load per rack (kg)	5
Racks number standard-(max.)	2-(13)
Circulation fan	Yes

Specification | CIF400S

Temperature data

Temperature range (°C)	-5 to 80
Display accuracy (deviation) (±K)	±0.2
Temperature fluctuation @ 25 °C (±K)	±0.7
Temperature fluctuation @ 40 °C (±K)	±0.6

Uniformity @ 27 points of chamber (variation)

@ 25 °C (±k)	±1
@ 37 °C (±k)	±1

Heating-up time *

heating up time to +5 °C (min)	120
heating up time to 25 °C (min)	120
heating up time to 37 °C (min)	120

Specification | CIF400S

Recovery time after doors were open for 30 sec *

@ +5 °C (min)	20
@ 25 °C (min)	10
@ 37 °C (min)	20

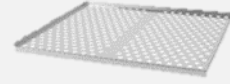
Electrical data

Power (W)	1200
Frequency (HZ)	50
Voltage (V AC)	220
Current (A)	5.5
Power type	single phase

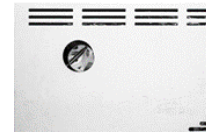
All technical data are specified for units with standard equipment at an ambient temperature of 25 °C and a line voltage fluctuation of $\pm 10\%$.

Options and accessories | CIF400S

Additional stainless-steel rack



Access port with silicone plug



Metal-framed glass doors



Qualification folder IQ/OQ/PQ



Calibration certificate



Interior lighting



External sensor



Rack



Door lock





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