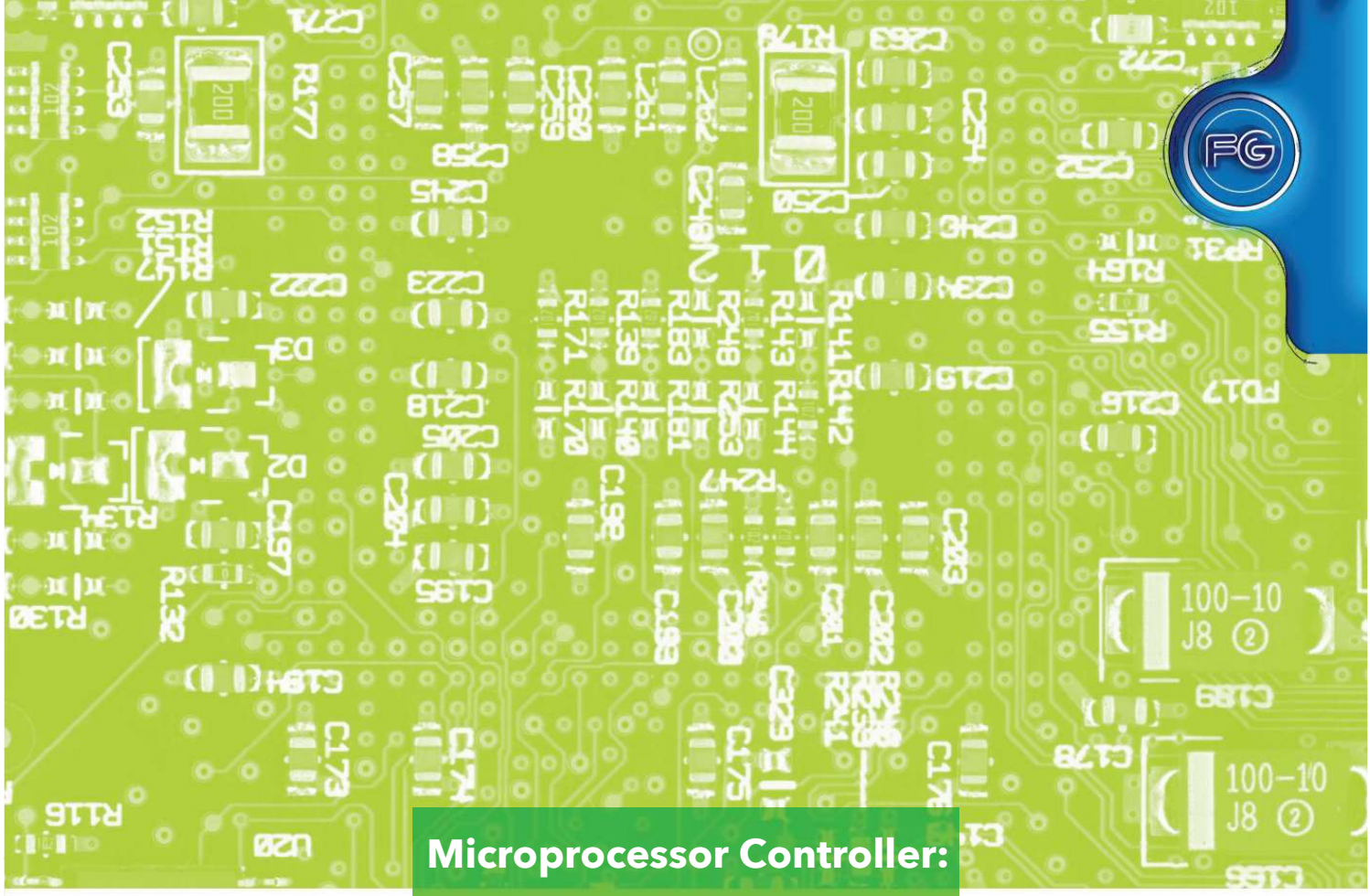
Hot & Cold Incubator

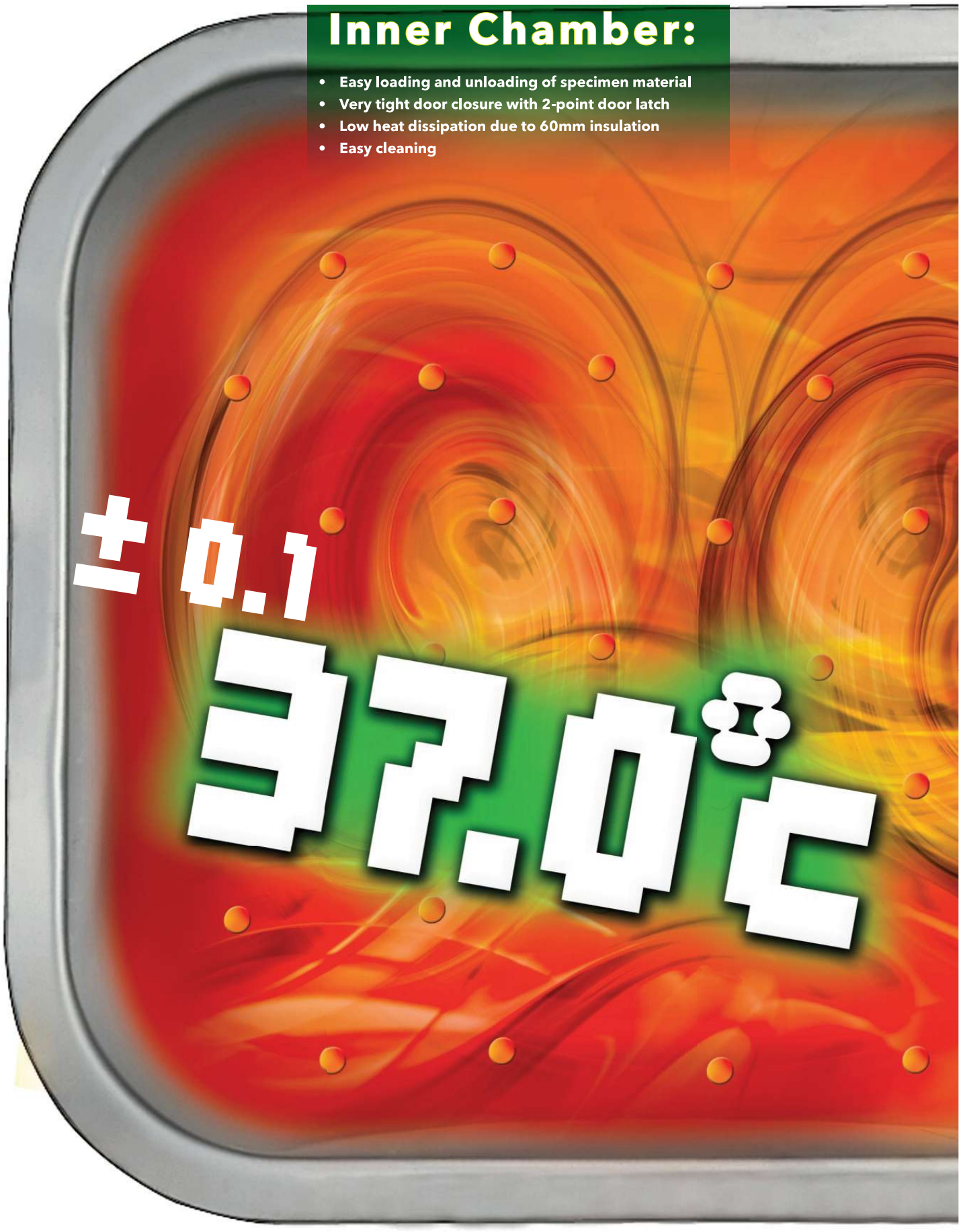
When working with microorganisms, nothing is more crucial than precision incubation which remains stable in the long term. With the HCT technology and the cooling system, we have developed two components that stand for unique precision – and results that are reproducible in each routine test. Whether for food microbiology or hygiene control, FG is your supplier of choice in the area of microbiological incubators. We offer a range of incubators that meet any application need.

Cold incubator with mechanical convections: CIF55, CIF120, CIF240, CIF400
Hot Incubators with mechanical convections: CF55, CF120, CF240, CF400
Hot Incubators with gravity convection: CM55, CM120, CM240, CM400



Microprocessor Controller:

- User friendly microprocessor controller with advanced timer functions
- PT100 temperature sensor
- High accuracy

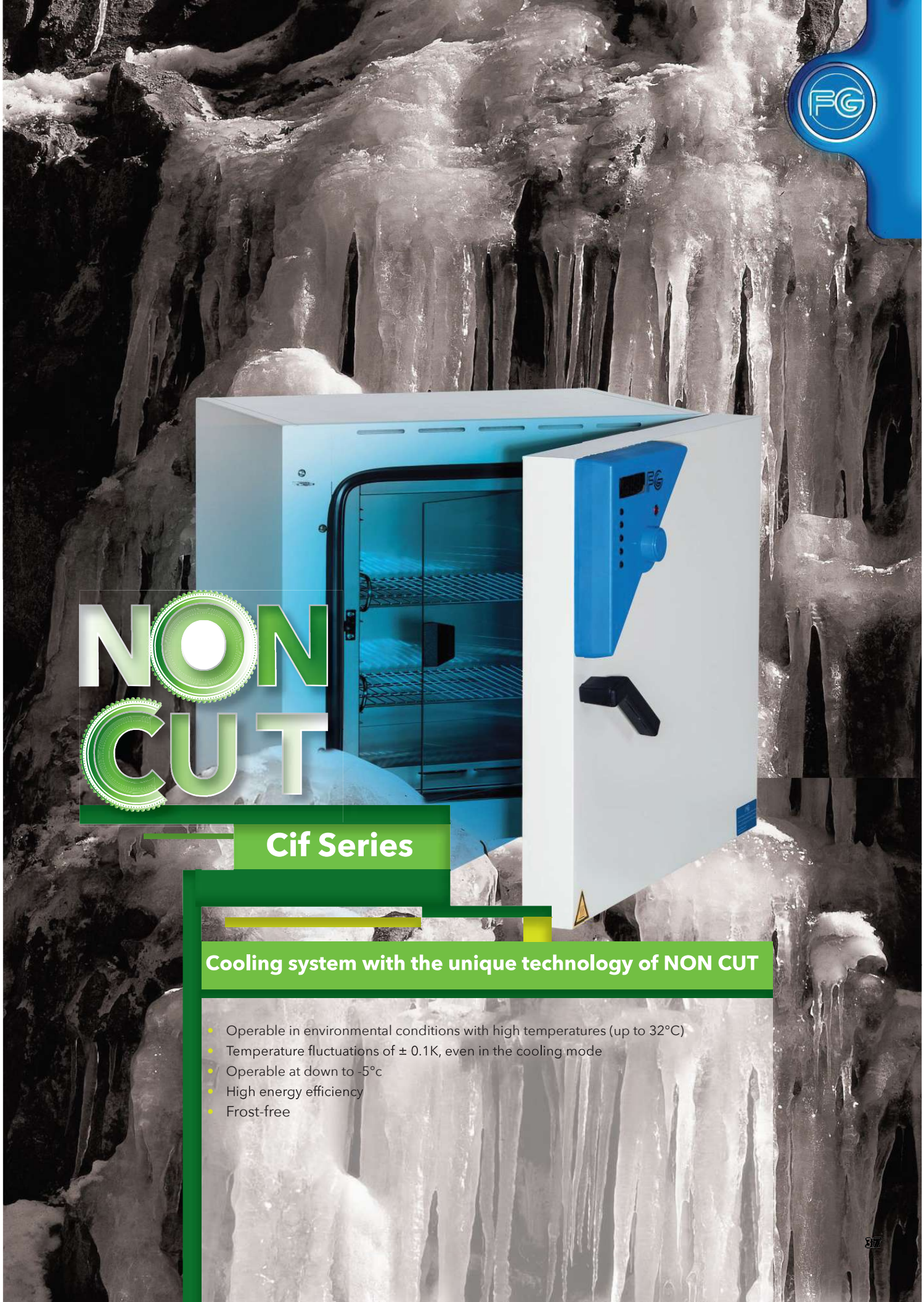

Inner Chamber:
• Easy loading and unloading of specimen material
• Very tight door closure with 2-point door latch
• Low heat dissipation due to 60mm insulation
• Easy cleaning
± 0.1
37.0°C

HCT (Homogenize Chamber Technology):

- Reliably best culture conditions
- High temperature uniformity
- Tripled-walled

Safety

- Independent adjustable temperature safety device class 3.1(DIN 12880), with visual temperature alarm
- Central troubleshooting system
- Power cutting visual alarm
- Sensor fail alarm



NON CUT

Cif Series

Cooling system with the unique technology of NON CUT

- Operable in environmental conditions with high temperatures (up to 32°C)
- Temperature fluctuations of ± 0.1K, even in the cooling mode
- Operable at down to -5°c
- High energy efficiency
- Frost-free

Hot Incubator with gravity convection

Main Features

- Independent, adjustable safety thermostat with visual temperature alarm
- Inner chamber and Heater element container made of stainless steel
- The heater element is embedded in protection stainless steel shield
- Adjustable front ventilation flap slide and rear exhaust Ø50 mm
- External Case Coated with electrostatic powder paint
- Inner door made of tempered safety glass
- Equipped with Error Alarm
- 2 Chrome - plated racks
- Natural convection
- Triple-walled

HCT

CM series E CLASS

Special Benefits

Microprocessor controller

- 999-hours smart timer (permanently operable)
- PID controller with high accuracy
- Central troubleshooting system
- PT 100 temperature sensor
- Adjustable thermal ramp
- Power cut visual alarm
- Delay timer

Technology of HCT (Homogenize Chamber Technology)

- Temperature stability and reproducibility
- Uniform chamber even under full load
- Triple-walled

Outer body

- Specially designed air exhaust port for maximum output of escaping fumes and gases from the rear Exhaust Ø50mm
- Independent, adjustable safety thermostat class3.1(Din12880) with visual temperature alarm
- Very tight door closure with 2-point door latch
- Beautiful and ergonomic design

Inner chamber

- Easy loading and unloading of specimen material
- Easy access to the element container for cleaning
- Low heat dissipation due to 60 mm insulation
- Rack with tilt protection
- Fully stainless steel
- Easy cleaning

Hot Incubator with gravity convection

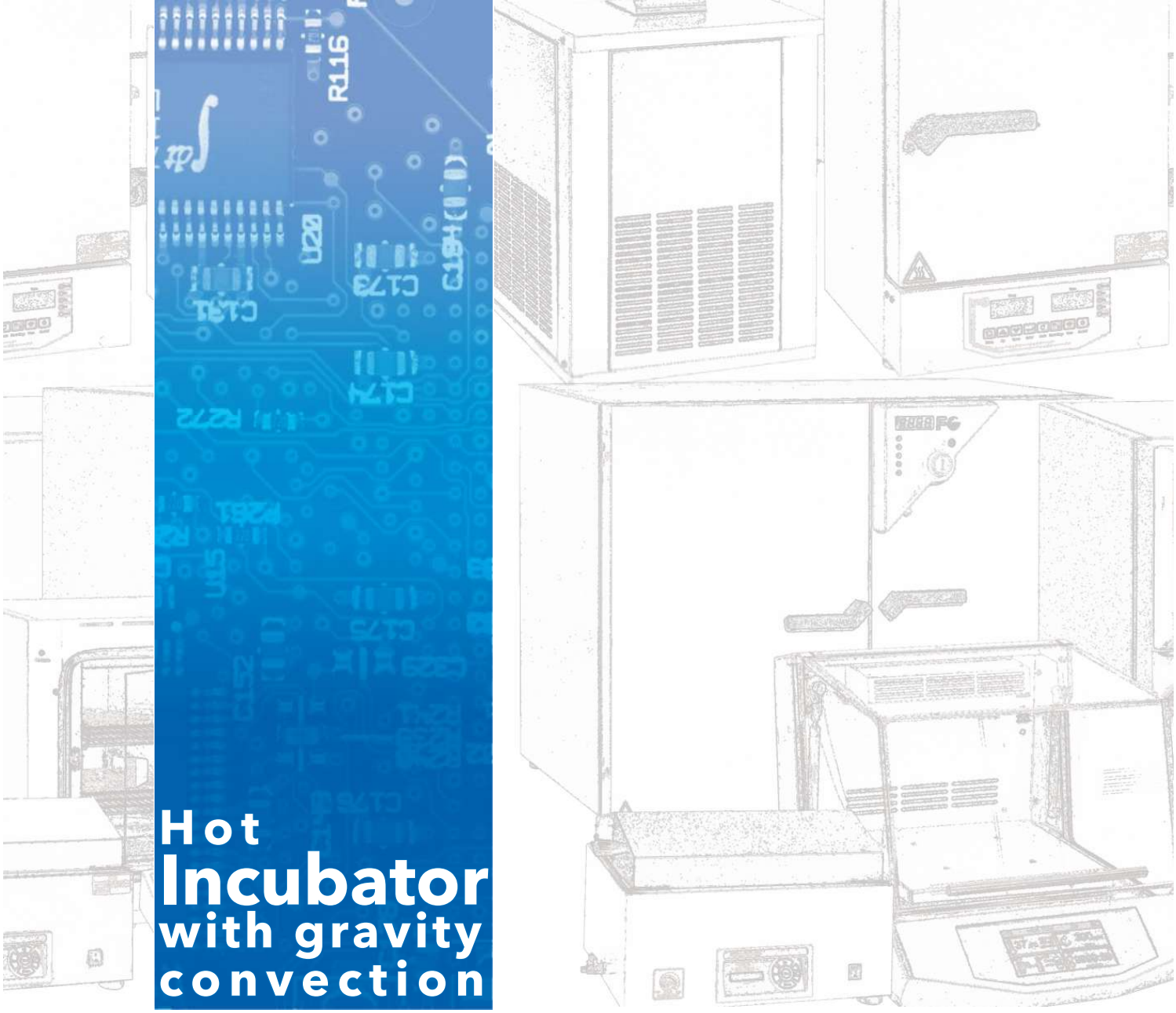
Specifications

Exterior dimensions	CM55E	CM120E
Width (cm)	64.5	82.5
Height (incl. feet) (cm)	63.5	67.5
Depth (cm)	54.5	68
Depth Plus door handle and connection (cm)	61.5	75
Wall clearance, rear (cm)	10	10
Steam space volume	70	147
Wall clearance, side (cm)	16	16
Exhaust duct (outer Ø cm)	5	5
Number of doors (ea.)	1	1
Glass door	1	1
Interior dimensions	**CM55E**	**CM120E**
Width (cm)	41	59
Height (cm)	42	45.5
Depth (cm)	32	45.5
Interior volume (l)	55	120
Racks (number standard/max.)	2-(4)	2-(5)
Load per rack (kg)	5	5
Permitted total load (kg)	20	25
Weight (empty) (kg)	43	61
Temperature data	**CM55E**	**CM120E**
Temperature range approx. 5 °C above ambient temperature to (°C)	80	80
Display accuracy @ 37 °C (±K)	0.1	0.1
Display accuracy @ 50 °C (±K)	0.1	0.1
Temperature variations @ 37 °C (±K)	0.1	0.1
Temperature variations @ 50 °C (±K)	0.1	0.1
Uniformity	**CM55E**	**CM120E**
@ 37 °C (±K)	0.2	0.2
@ 50 °C (±K)	0.5	0.5

Heating-up time *	CM55E	CM120E
heating -up time to 37 °C (min)	60	70
Recovery time after doors were open for 30 sec*	**CM55E**	**CM120E**
@ 37 °C (min)	5	5
@ 50 °C (min)	8	8
Electrical data	**CM55E**	**CM120E**
Voltage(V AC)	220	220
Power (W)	400	400
Frequency (HZ)	50	50
Current (A)	1.8	1.8

* *To 98% of the set value*

- *All technical data are specified for units with standard equipment at an ambient temperature of 25 °C and a line voltage fluctuation of ±10%. the temperature data is following DIN 12880, respecting the recommended wall clearancesof10% of the height, Width and depth of the inner chamber.*



Hot Incubator with gravity convection

Options

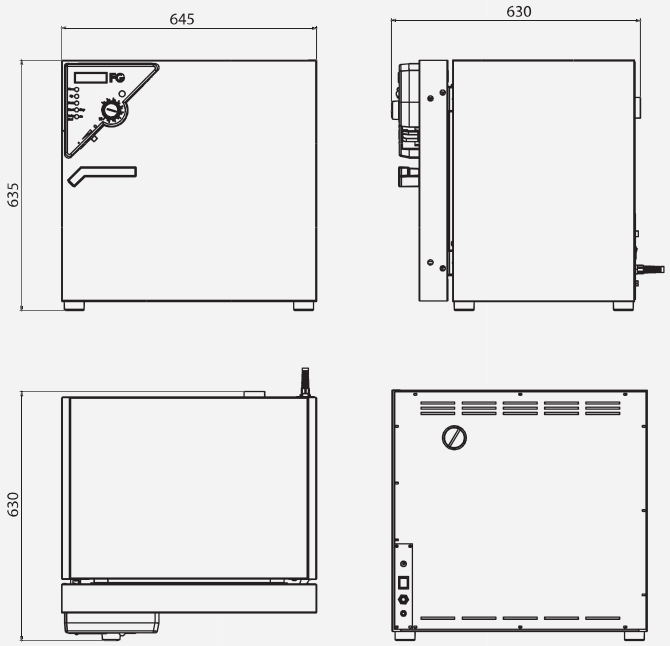
- Access ports of various diameter with silicone plugs
- Analog output for temperature 4-20mA
- Racks, chrome-plated or stainless steel
- Door with window and interior lighting
- Data logger kits and logger software
- Perforated shelf, stainless steel
- Qualification folder IQ/OQ

Notes:

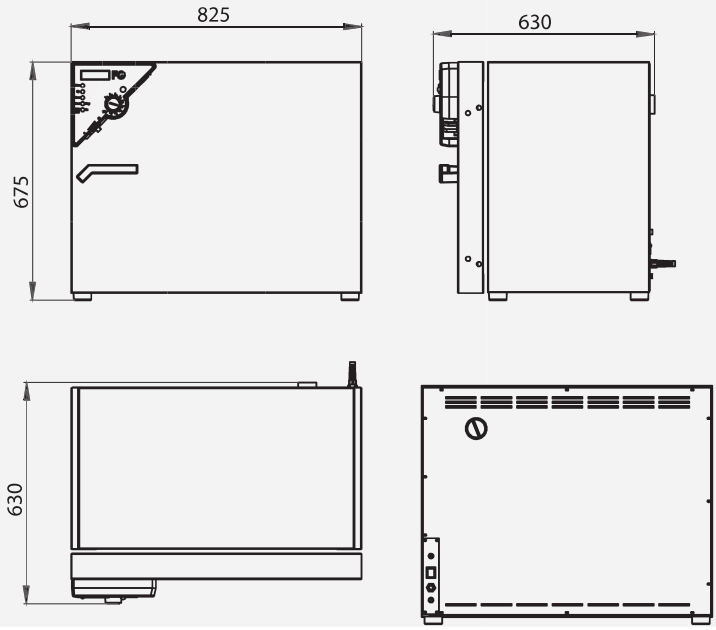
- *Condensation may occur in the area around the access port.*
- *The additional access port and door with window may affect me temperature behavior.*

CM series E CLASS

CM55E



CM120E



Hot Incubator with circulation fan

Main Features

- Independent, adjustable safety thermostat with visual temperature alarm
- Inner chamber and Heater element container made of stainless steel
- The heater element is embedded in protection stainless steel shield
- Adjustable front ventilation flap slide and rear exhaust Ø50mm
- External Case Coated with electrostatic powder paint
- Inner door made of tempered safety glass
- Equipped with Error Alarm
- 2 Chrome - plated racks
- Circulation fan
- Triple-walled

HCT

C.F series E CLASS

Special Benefits

Microprocessor controller

- 999-hours smart timer (permanently operable)
- PID controller with high accuracy
- Central troubleshooting system
- PT 100 temperature sensor
- Adjustable thermal ramp
- Power cut visual alarm
- Delay timer

Technology of HCT (Homogenize Chamber Technology)

- Temperature stability and reproducibility
- Uniform chamber even under full load
- Triple-walled

Outer body

- Specially designed air exhaust port for maximum output of escaping fumes and gases from the rear Exhaust Ø50mm
- Independent, adjustable safety thermostat class3.1(Din12880) with visual temperature alarm
- Very tight door closure with 2-point door latch
- Beautiful and ergonomic design

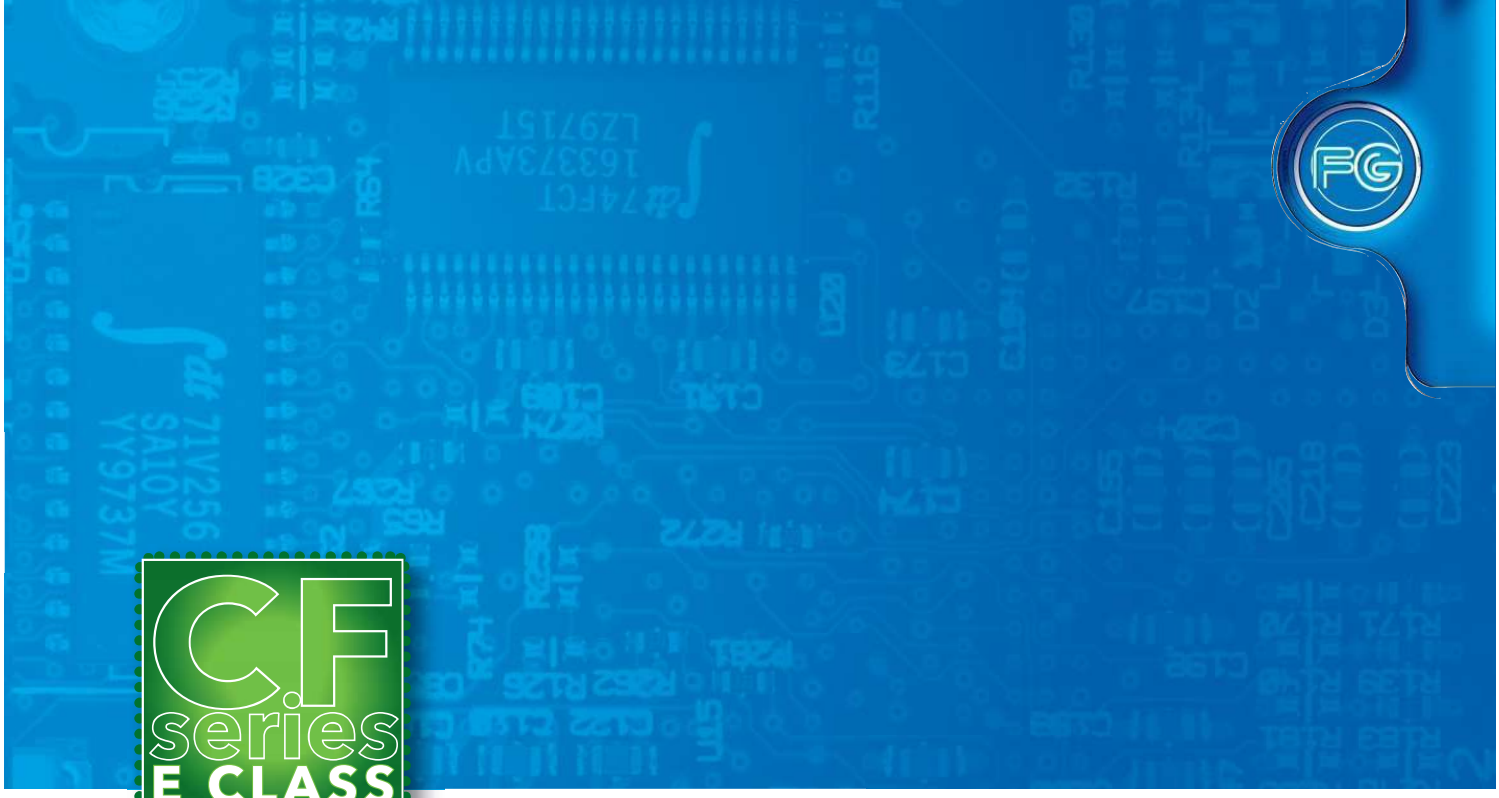
Inner chamber

- Easy loading and unloading of specimen material
- Easy access to the element container for cleaning
- Low heat dissipation due to 60 mm insulation
- Rack with tilt protection
- Fully stainless steel
- Easy cleaning

Hot Incubator with circulation fan

Specifications

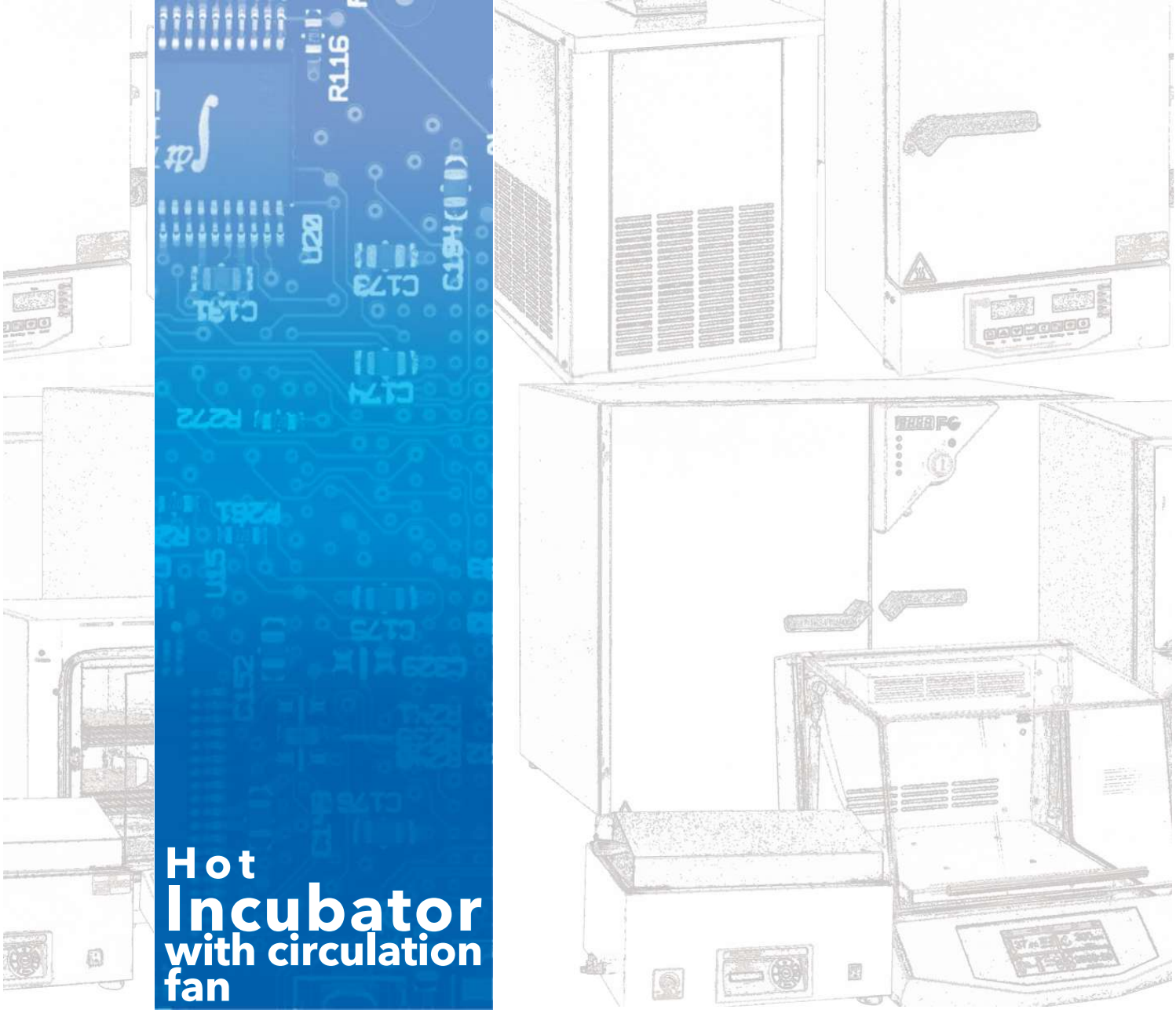
Exterior dimensions	CF240E	CF400E
Width (cm)	107.5	129.5
Height (incl. feet) (cm)	84	103.5
Depth (cm)	69	69
Depth Plus door handle and connection (cm)	76	76
Wall clearance, rear (cm)	10	10
Wall clearance, side (cm)	16	16
Steam space volume	277	438
Exhaust duct (outer Ø cm)	5	5
Number of doors (ea.)	2	2
Glass door	2	2
Interior dimensions	**CF240E**	**CF400E**
Width (cm)	84	106
Height (cm)	62	80
Depth (cm)	46.5	46.5
Interior volume (l)	240	400
Racks (number standard/max.)	2-(7)	2-(9)
Load per rack (kg)	5	5
Permitted total load (kg)	35	45
Weight (empty) (kg)	105	145
Temperature data	**CF240E**	**CF400E**
Temperature range approx. 5 °C above ambient temperature to (°C)	80	80
Display accuracy @ 37 °C (±K)	0.1	0.1
Display accuracy @ 50 °C (±K)	0.2	0.2
Temperature variations @ 37 °C (±K)	0.1	0.1
Temperature variations @ 50 °C (±K)	0.2	0.2
Uniformity	**CF240E**	**CF400E**
@ 37 °C (±K)	0.3	0.5
@ 50 °C (±K)	1	1



Heating-up time *	CF240E	CF400E
Heating -up time to 37 °C (min)	50	50
Recovery time after doors were open for 30 sec *	**CF240E**	**CF400E**
@ 37 °C (min)	2	5
@ 50 °C (min)	4	8
Electrical data	**CF240E**	**CF400E**
Voltage(V AC)	220	220
Power (W)	1000	1850
Frequency (HZ)	50	50
Current (A)	4.5	8.5

* *To 98% of the set value*

- *All technical data are specified for units with standard equipment at an ambient temperature of 25 °C and a line voltage fluctuation of ±10%. The temperature data is following Din12880,Respecting the recommended wall clearances of10% of the height, width and depth of the inner chamber*



Hot Incubator with circulation fan

Options

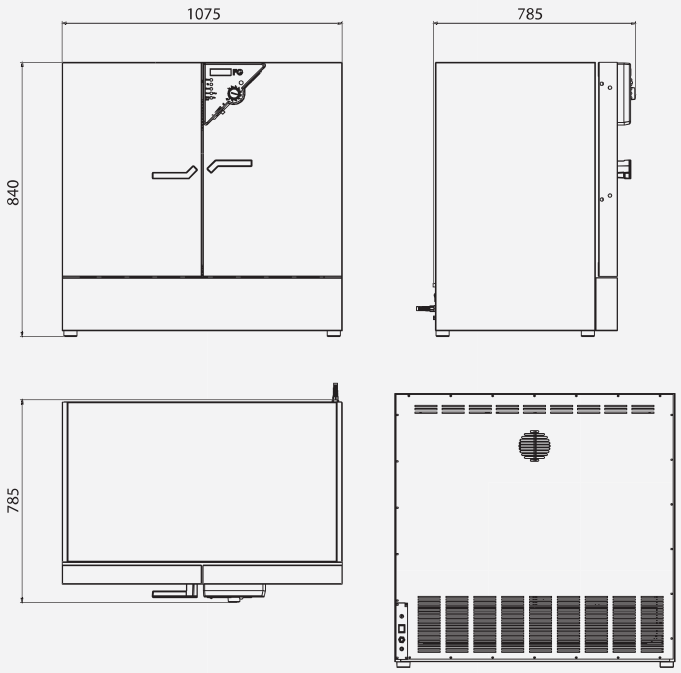
- Access ports of various diameter with silicone plugs
- Analog output for temperature 4-20mA
- Racks, chrome-plated or stainless steel
- Door with window and interior lighting
- Data logger kits and logger software
- Perforated shelf, stainless steel
- Qualification folder IQ/OQ

Notes:

- *Condensation may occur in the area around the access port*
- *The additional access port and door with window may affect the temperature behavior*

CF series E CLASS

CF240E



CF400E