



Best Technology
For Your Laboratory

STABILITY TEST CHAMBER

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ZF1400



Overview | ZF1400

ZF is the specialist for reliable stability testing and precise maintenance of constant climatic Conditions. From programming to documentation, it meets all important guidelines such as ICH, GMP and GLP. With its high-capacity reserves, automatic water and wastewater management and many options, the FG ZF series is well prepared for the future.

This device is used in a variety of industrial, pharmaceutical and research laboratories

Main features | ZF1400

Suitable for stability tests according to ICH guideline Q1A (R2)

User- friendly LCD color screen with touch key

Very tight door closure with 2-point door latch

Special design to prevent glass steam

4 CASTERS (2 Fronts caster with brake)

Automatic temperature monitor

Two stainless steel shelves

Inner glass door

Real-time clock

Circulation fan

Special benefits | ZF1400

HCT (Homogenic chamber technology)

Temperature and humidity stability and reproducibility

Uniform circulation even under full load

Short recovery time

Short warm-up time

Triple-walled

DUAL SAFETY

Class 3.3 independent temperature safety device (DIN12880) (TWW)

Class 3.1 independent temperature safety device (DIN12880) (TWB)

Audible and Visual alarm

NON-CUT technology

Powerful cooling system for safe operation up 30°C ambient temperature

Dual evaporator

Frost-free

Special benefits | ZF1400

Flexible water management with anti-polar technology

Water sensor protection thanks to anti-polar technology

Electric sensor for adjust water surface

Prevent water deposition on sensors

Unique humidification system

Vapor pressure humidification with fast response time

Solution independent of installation sight

Pump for discharges up to 1 m in height

Short recovery times after door opening

Drift-free, capacitive humidity sensor

Finely adjustable humidity control

External water supply

Special benefits | ZF1400

ARM series micro controller

Save temperature, humidity, fan speed and all events up to 5 years

Controller which can store 3 programs of 100 steps

6 points user temperature calibration

Double PT100 temperature sensor

2 points user humidity calibration

PID controller with high accuracy

"7" Color graphic TFT LCD

Capacitive touch key

Lock functions

DOCUMENTATION

Internal memory for temperature, humidity, fan speed logs up to two years

Ethernet (LAN) interface for connecting to PC, using FG lab software

Documentation in support of GMP/GLP compliance

STM (smart temperature monitor)

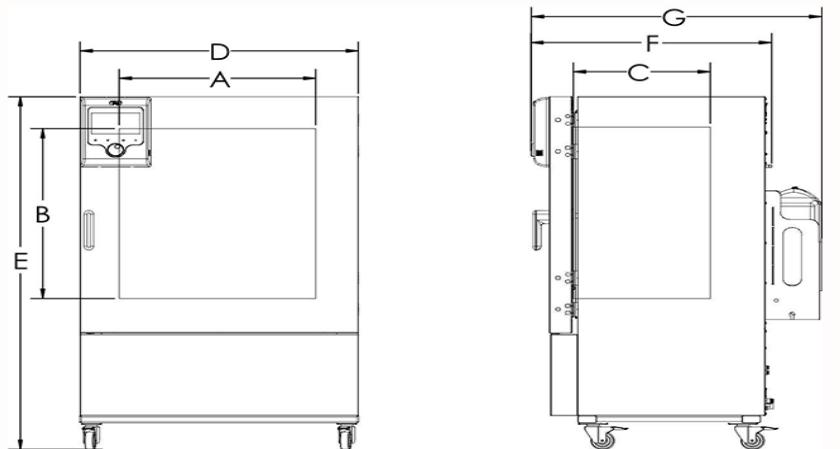
Alarm for temperature and humidity

Audible and visual alarm

Door open alarm

SMS alarm

Specifications | ZF1400



Exterior dimensions

Depth Plus water supply, door handle (cm) (G)	129
Depth plus controller (cm)(F)	112
Height (incl. feet) (cm) (E)	205
Width (cm) (D)	161
Number of doors	2
Number of glass door	2

Interior dimensions

Interior volume (L)	1342
Depth (cm) (C)	77
Width (cm) (A)	136
Height (cm) (B)	128
Permitted total load (Kg)	300
Load per rack (Kg)	45
Racks number standard (max)	2(14)

Specifications | ZF1400

Climatic data

Temperature uniformity @ 25°C without humidity (±K)	±1
Temperature uniformity @ 25°C with humidity (±K)	±1
Temperature uniformity @ 40°C without humidity (±K)	±1/5
Temperature uniformity @ 40°C with humidity (±K)	±1/5
Temperature fluctuation @ 25°C without humidity (±K)	±0/5
Temperature fluctuation @ 25°C with humidity (±K)	±1.5
Temperature fluctuation @ 40°C without humidity (±K)	±0/6
Temperature fluctuation @ 40°C with humidity (±K)	±1.5
Recovery time after door were open for 30 sec @ 25 (°C) and 60% RH (min)	20
Display accuracy at @40°C (Deviation) (±K)	±0.2
Humidity fluctuation (%RH)	±5
Temperature range without humidity (°C)	0-60
Temperature range with humidity (°C)	10-60
Humidity range (%RH)	10-80

Installation conditions

Wall clearance, rear (cm)	20
Wall clearance, side (cm)	15
Wall clearance, above (cm)	40
Maximum ambient temperature (°C)	26
Minimum ambient temperature (°C)	16
Maximum ambient humidity (%RH)	70

Specifications | ZF1400

Electrical data

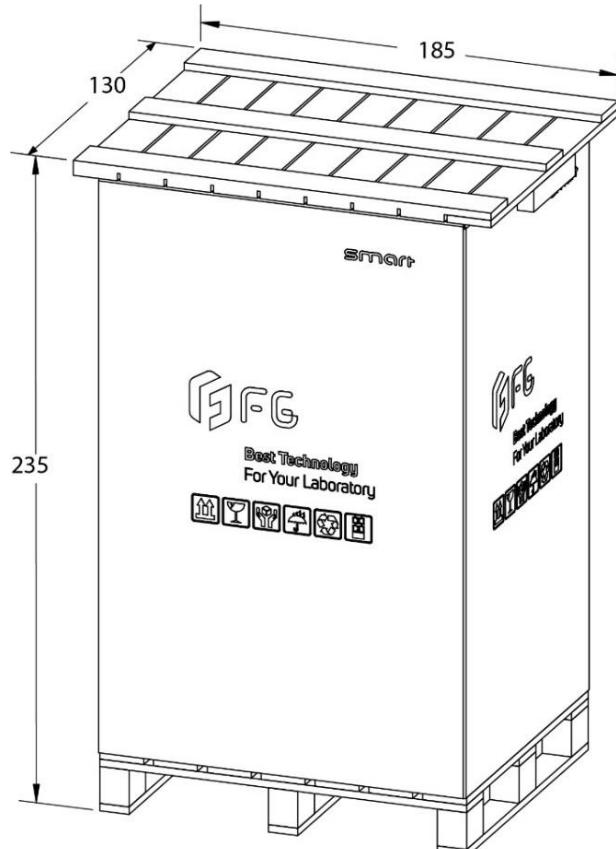
Power (W)	4000
Frequency (HZ)	50
Voltage (V AC)	220
Current (A)	18.2

Packing/ shipping data

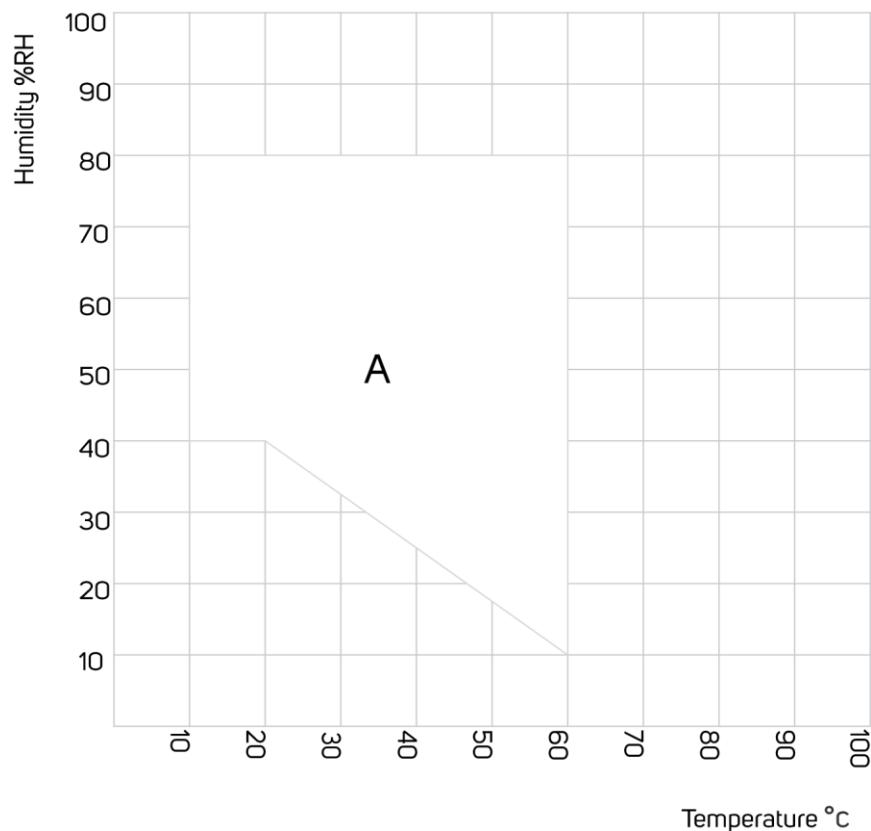
Transport information	Device Must be transported upright
Width incl carton (CM) approx.	185
Height incl carton & pallets (CM) approx.	235
Depth incl carton (CM) approx.	130
Packing Material	Carton & wooden pallet

* To 98% of 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
- There are some limits for set humidity and temperature, please see the temperature-humidity chart.



Specifications | ZF1400



A: Guaranteed condensation-free range
B: Time-limited operation (max. 24 hours)

Temperature -humidity chart

Other temperature-humidity values may be possible by order

Options and accessories | ZF1400

Access port with silicone plug



Qualification folder IQ/OQ/PQ



Additional stainless-steel rack



Calibration certificate



Door lock





email: global@fginst.com
website: www.fginst.com