

STABILITY TEST CHAMBER

ZF1400



Factory: Shemshad St, Saei Blvd, Nazarabad Industrial estate at 75th Km of Tehran-Qazvin highway, Alborz, Iran

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

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Tel: +98 26 4533 3747-49 **Zip Code :** 33314-97999

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

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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

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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 PID controller with high accuracy Capacitive touch key Lock functions

DOCUMENTION

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

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Specifications | ZF1400

Exterior dimensions

Depth Plus water supply, door handle (cm)	129
Depth plus controller (cm)	112
Height (incl. feet) (cm)	205
Width (cm)	160
Number of doors	2
Number of glass door	2

Exterior dimensions

Interior volume (L)	1342
Racks (number standard-max.)	2-7
Permitted total load (Kg)	30
Load per rack (Kg)	10
Weight (empty) (Kg)	700
Depth (cm)	77
Width (cm)	136
Height (cm)	128

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Specifications | ZF1400

Climatic data

Temperature uniformity @ 25°C without humidity (±K)	±1
Temperature fluctuation @ 25°C without humidity (±K)	±0.5
Temperature uniformity @ 40°C without humidity (±K)	±1.5
Temperature fluctuation @ 40°C without humidity (±K)	±0.6
Temperature uniformity @ 25°C with humidity (±K)	±1
Temperature fluctuation @ 25°C with humidity (±K)	±1
Temperature uniformity @ 40°C with humidity (±K)	±1.5
Temperature fluctuation @ 40°C with humidity (±K)	±1
Recovery time after door were open for 30 sec @ $25(^{\circ}C)$ and 60% RH with illumination(min)	20
Temperature range without humidity(°C)	0-60
Temperature range with humidity(°C)	10-60
Humidity range (%RH)	30-90
Humidity fluctuation (%RH)	±5

Specifications | ZF1400

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

Electrical data

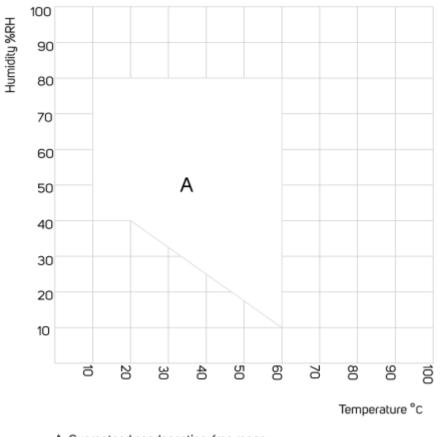
Power (W)	4000
Frequency (HZ)	50
Voltage (V AC)	220
Current (A)	18.2

* 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 temperaturehumidity chart.

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

Temperature -humidity chart

Other temperature-humidity values may be possible by order

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Options and accessories | ZF1400

Access port with silicone plug

Qualification folder IQ/OQ/PQ

Additional stainless steel rack

Calibration certificate

Door lock



0

665

100



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