Environmental Walk-in Chambers

for Stability Testing and Storage

Environmental Walk-in-chambers for Stability Testing and Storage in Three Different Sizes

Our environmental Walk-in-chambers with internal dimensions of 6 m^2, 9 m^2, or 12 m^2 and a height of 2.3 m are an excellent choice for stability testing in pharmaceuticals, food & beverages, cosmetics, material testing, and many other fields of application.

They maintain perfect test conditions in a wide temperature ranges from 10°C to 50°C and relative humidity ranges from 20% to 90%.

In pharmaceutical fields, our Walk-in-chambers accommodate long-term and accelerated stability test conditions as specified in ICH Q1A (R2) for new drug substances and drug products.

WIC Series

Our Walk-in-chambers are designed and produced in Germany, while the temperature and environmental conditioners are made by Parameter Generation and Control in Black Mountain, North Carolina, USA. The chambers offer a wide range of features and benefits that perfectly meet the requirements of stability testing.

> › Pre-configured chambers in three standard sizes
> › Quick delivery times
> › No need for individual specifications

PRODUCT FEATURES

- Relative humidity accuracy of ± 2.5%
- Temperature accuracy of ± 1.5°C
- Duct work for proper distribution of air
- Highly insulated chamber panels with a U value of only 0.21 W/m^{2}K
- LED lighting with motion detector
- High-quality chamber elements, made in Germany
- Completely stainless steel interior
- Exterior service access
- 50 mm access port included, additional access ports available

BENEFITS

- Stable and uniform environment
- Fully complies with pharmaceutical regulations (ICH) for equipment
- Durable and corrosion-resistant
- Ease of operation
- Environmentally friendly refrigerant with GWP value of 547
- Maintenance can be performed with minimum disruption to climate conditioning
- Perfectly meets the requirements of the pharmaceutical industry
- 3-year warranty

Specifications:

Chamber elements	Galvanized sheet steel, polyester-coated, white, similar to RAL 9010, interior surfaces in stainless steel, 4 inch / 100 mm PU foam, U value: 0.21 W/m^{2}K
Floor	Floor overlay: chrome-nickel steel, pattern-rolled 5WL Surface load: 50,000 N/m^2. Wheel load (rubber wheel): 1,000 N/4 cm^2 Wheel load (steel wheel): Not suitable for steel wheels
Door	Hinged door (single leaf), door leaf: 4 inches Clear door opening dimensions: 900 mm x 2,000 mm Door version with press lever Viewing window, triple-insulated, fixed glass Clear dimensions of window: 370 mm x 370 mm

TECHNICAL DATA

Description	
Electrical	
Frequency	50 Hz
Voltage (mains power)	230 V
Phase	1
Full-load amps	11 A, FLA
Typical running amps	8 A, RLA
Minimum circuit ampacity	13 A
Maximum external protector	20 A
Maximum heat of rejection	5,402 BTU/hr (1,361 kcal/hr)
Heaters, air	694/918 W
Water	
Process water max. pressure	8.6 bar
Process water min. pressure	0.02 bar
Process water max. usage	40 l/d
Max. condensate production	11.4 l/d
Temperature and relative environmental control	
Temperature range	10–50°C
Acceptable ambient range	18–35°C
Temperature variation (spatial)	±1.5 K
Temperature fluctuation (temporal)	±0.5 K
Relative environmental range	20–93% RH (limited to 7°C dew point)
Relative humidity constancy	±2.5% RH
Refrigerant	
R450A	0.4 tons CO_2 / 547 GWP

TEMPERATURE ENVIRONMENTAL CHART
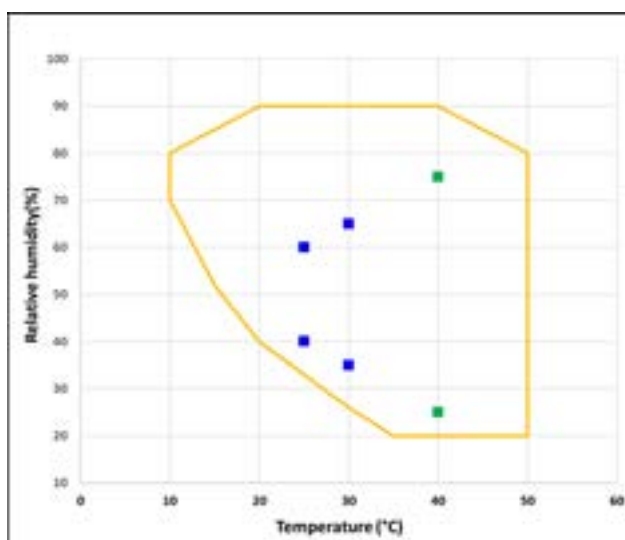
■ ICH long-term stability testing
■ Accelerated stability testing

FEATURES & ACCESSORIES

Lockable door. Even when locked, the door can be opened from the inside at any time.

Lighting with motion sensor

Interior walls and ceiling: stainless steel
Heavy-duty shelves
Shelf height: 1,800 mm
4 shelf levels as standard; additional shelves available as an option
Chamber lighting with motion detector as standard
Robust stainless steel trolley ramp for safe and convenient access

Conditioner positioned at back of chamber
Low-noise operation and tidy connection lines
Technology hidden from view at the front; external service access point
Conditioner can be positioned at front as an option

PARAMETER
GENERATION & CONTROL

INSTALLATION REQUIREMENTS

Installation requirements:
Flat, level floor
Electrical power supply: 230 V / 50 Hz, 11.5 A
Feed water (tap water or softened water)
Drain water hose / connection
In-house transportation to side of installation: to be done by customer
Chamber: clearance to walls › 40 mm; clearance to door side: 1,100 mm
Conditioner: clearance to walls › 915 mm

WIC 1 | Door on short side
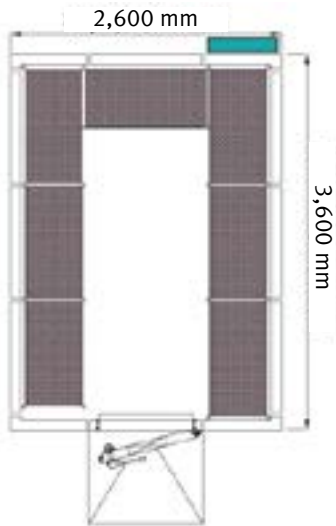

2,600 mm

2,500 mm
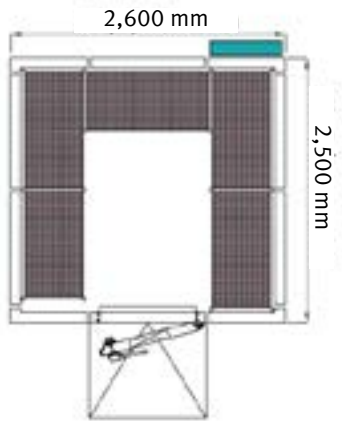
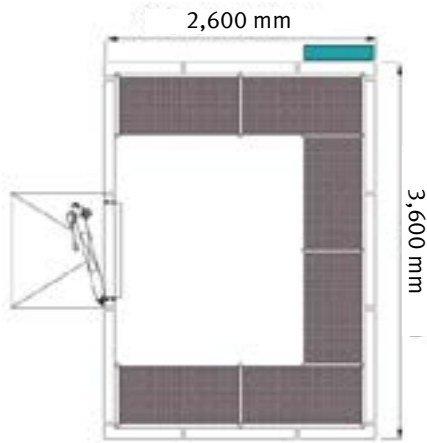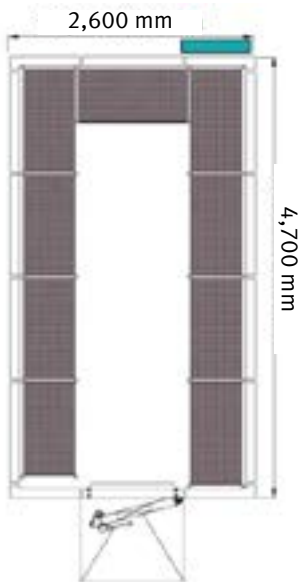Conditioner footprint: 362 mm x 586 mm

Shelf

Door & ramp

WIC 2 | Door on short side

2,600 mm

3,600 mm

WIC 2 | Door on long side

2,600 mm

3,600 mm

WIC 3 | Door on short side

2,600 mm

4,700 mm

WIC 3 | Door on long side

2,600 mm

4,700 mm
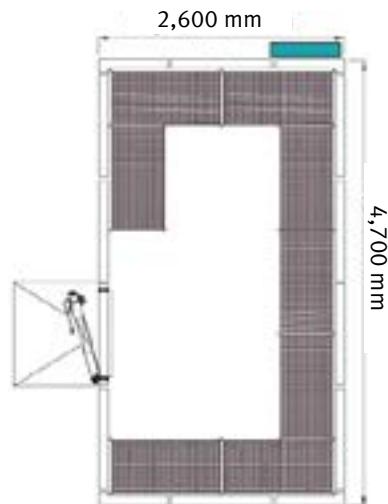
DIMENSIONS (CHAMBER W/O CONDITIONER, ACCESSORIES)

Chamber sizing options

Size	Dimensions	Side 1	Side 2	Height	Usable space (shelves)
WIC 1	Outer	2,600 mm	2,500 mm	2,470 mm	187 cb. ft. / 5,295 liters
	Inner	2,400 mm	2,300 mm	2,270 mm	
WIC 2	Outer	2,600 mm	3,600 mm	2,470 mm	264 cb. ft. / 7,476 liters
	Inner	2,400 mm	3,400 mm	2,270 mm	
WIC 3	Outer	2,600 mm	4,700 mm	2,470 mm	342 cb. ft. / 9,685 liters
	Inner	2,400 mm	4,500 mm	2,270 mm	

*with shelf set

Conditioner, vertical	Outer	362 mm	586 mm	1,956 mm	

ORDERING OPTIONS FOR WALK-IN-CHAMBER MODEL

Walk-in-chamber model	Description	Order no.
WIC 1 (230 V)	Walk-in-chamber, size 1	9800-0011
WIC 2 (230 V)	Walk-in-chamber, size 2	9800-0012
WIC 3 (230 V)	Walk-in-chamber, size 3	9800-0013

ORDERING OPTIONS FOR ACCESSORIES

Accessory	Description	Order no.
Ramp for all WIC models	Suitable for all WIC models (230 V)	8012-2239
Shelf set for WIC 1	Suitable for WIC 1 (230 V)	8012-2240
Shelf set for WIC 2	Suitable for WIC 2 (230 V)	8012-2241
Shelf set for WIC 3	Suitable for WIC 3 (230 V)	8012-2242
Universal access port, 30 mm	Suitable for all WIC models (230 V)	8012-2293
Universal access port, 50 mm	Suitable for all WIC models (230 V)	8012-2294
Monitoring system, APT-COM	Suitable for all WIC models (230 V)	9423-0069

SERVICES

Description	Order no.
Installation and commissioning	DL10-0800
IQ-OQ qualification	DL40-0200
Temperature & humidity measurement, 13-1 points, at a given climatic point	DL30-0113
Service (preventive maintenance)	DL20-1000

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Walk-in-chambers

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