

# Environmental Walk-in Chambers



for Stability Testing and Storage



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

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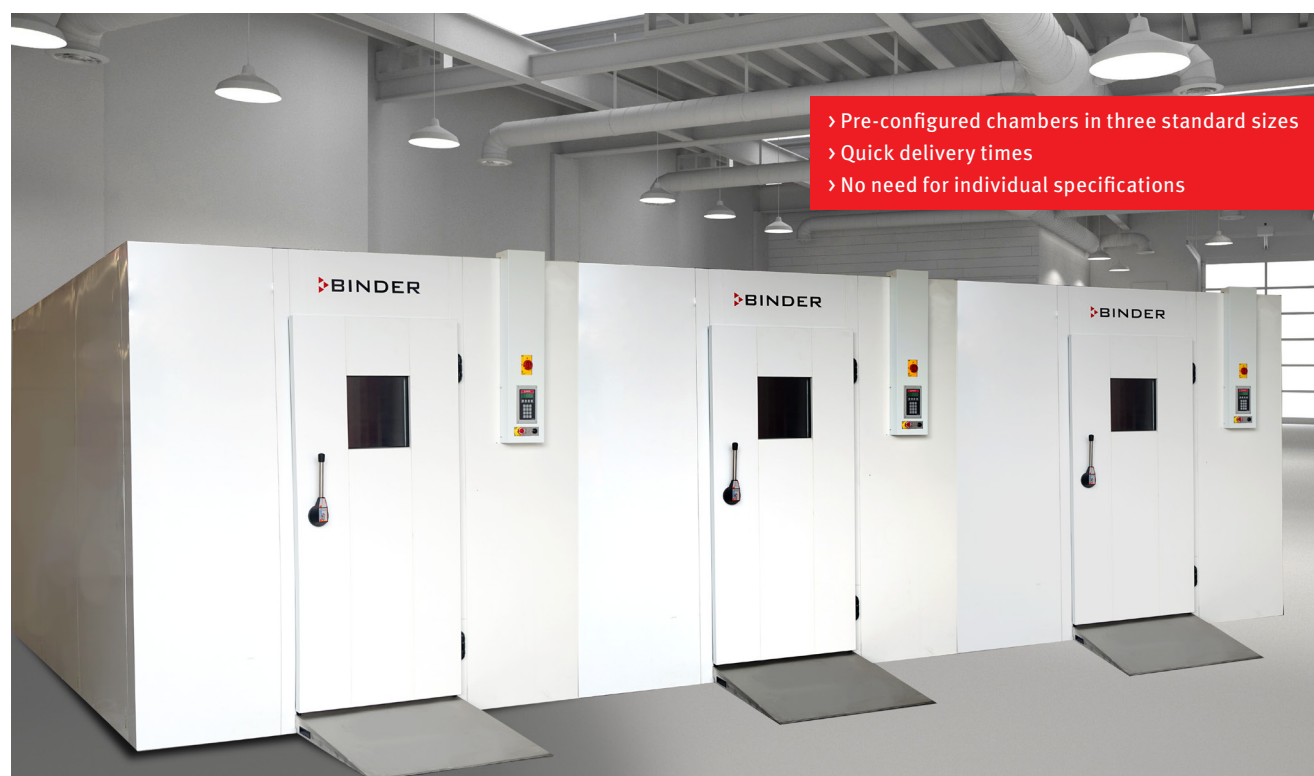
Our Environmental Walk-in Chambers with either 6 m<sup>2</sup>, 9 m<sup>2</sup> or 12 m<sup>2</sup> internal dimensions and 2,3 m height are an excellent choice for stability testing in Pharma, Food & Beverage, Cosmetics, Material Testing and many other fields of application.

Perfect test conditions are maintained in a wide range of temperature from 10°C to 50°C and relative humidity of 20% to 90% RH.

In Pharma, our Walk-in Chambers cover long-term and accelerated stability test conditions as specified in the ICH Q1A (R2) for new drug substances and drug products.

## Series WIC

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



### PRODUCT FEATURES

- Relative humidity accuracy of  $\pm 2.5\%$
- Temperature accuracy of  $\pm 1.5^\circ\text{C}$
- Duct work for proper distribution of air
- Highly insulated room panels with U value of only  $0,21\text{ W/m}^2\text{K}$
- LED Lighting with motion detector
- High quality room elements, made in Germany
- Interior completely stainless steel
- Exterior service accessibility

### BENEFITS

- Stable and uniform environment
- Fully complies with Pharma regulations (ICH)Equipment
- Longevity; corrosion resistant
- Ease of operation
- Environmental friendly refrigerant with GWP value 547
- Maintenance possible with the least possible disruption to the climate conditioning
- Perfectly meets requirements in Pharma industry
- 3 years warranty

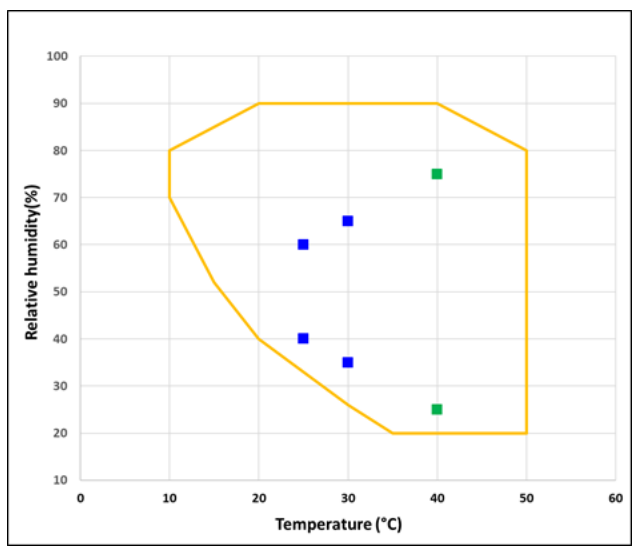
#### Specification:

Room Elements	Galvanized sheet steel, polyester coated, white, similar to RAL 9010, interior surfaces in stainless steel, 4 inch / 100 mm PU foam U value: $0,21\text{ W/m}^2\text{K}$
Floor	Floor overlay is chrome-nickel steel, pattern-rolled 5WL Surface load: $50.000\text{ N/m}^2$ . Wheel load (rubber wheel): $1000\text{ N/4 cm}^2$ Wheel load (steel wheel): Not passable!
Door	Hinged door (single leaf), door leaf: 4 inch, Clear door opening dimensions: $900\text{ mm} \times 2000\text{ mm}$ Door version with press lever Viewing window, triple insulated, fixed glass Clear dimensions of window: $370\text{ mm} \times 370\text{ mm}$

TECHNICAL DATA

Description	
<b>Electrical</b>	
Frequency	50 HZ
Voltage (Mains Power)	230 Volts
Phase	1
Full Load Amps	11 Amps, FLA
Typical Running Amps	8 Amps, RLA
Minimum Circuit Ampacity	13 Amps
Maximum External Protector	20 Amps
Maximum Heat of Rejection	5.402 BTU/Hr (1.361 KCAL/Hr)
Heaters, Air	694/918 Watts
<b>Water</b>	
Process Water Max. Pressure	8,6 Bar
Process Water Min. Pressure	0,02 Bar
Process Water Max. Usage	11,4 l/d
Max. Condensate Production	11,4 l/d
<b>Temperature and Relative Environmental Control</b>	
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
<b>Refrigerant</b>	
R450A	0.4 tons CO2 / 547 GWP

TEMPERATURE-ENVIRONMENTAL CHART



- ICH long term stability testing
- Accelerated stability testing

## FEATURES & ACCESSORY



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 standard. Additional shelves optional.  
 Room lighting with motion detector standard.  
 Robust stainless steel trolley ramp for safe and convenient access.



Conditioner positioning at backside of chamber.  
 Low-noise operation and tidy connection lines.  
 Technology hidden from front view. External service possible  
 Mounting of the conditioner on the front is optionally possible.



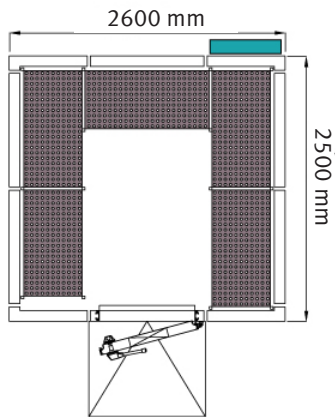
## INSTALLATION REQUIREMENTS

### Installation requirements:

- flat, leveled floor
- electric 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: by the customer.
- Chamber: clearance to walls > 40 mm; clearance to wall (door side): 1100 mm
- Conditioner: clearance to walls > 915 mm

Series WIC

WIC 1 | Door on short side

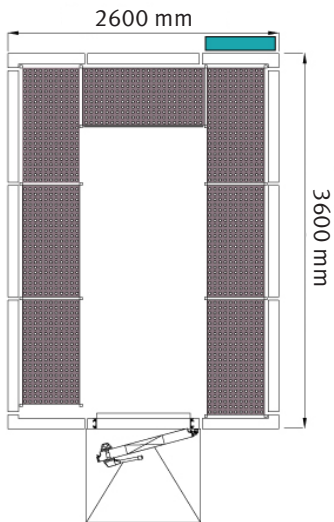


Conditioner footprint: 362 mm x 586 mm

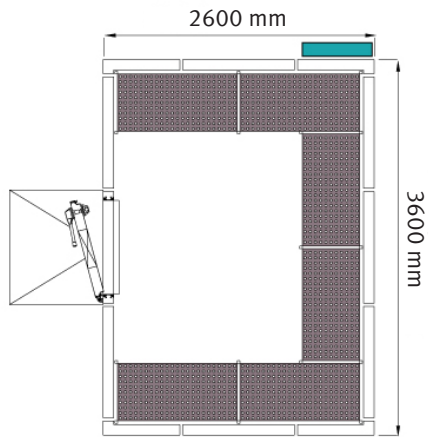
Shelf

Door & Ramp

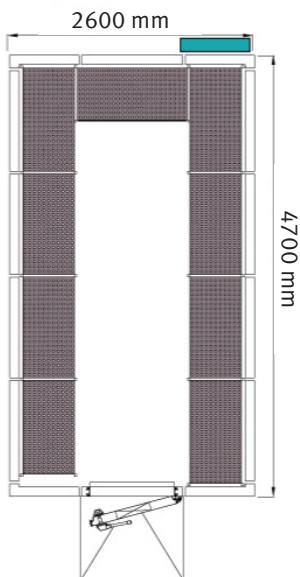
WIC 2 | Door on short side



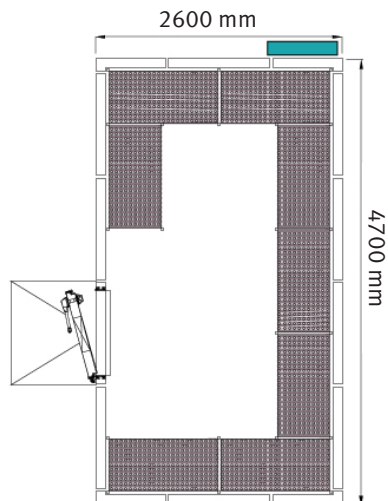
WIC 2 | Door on long side



WIC 3 | Door on short side



WIC 3 | Door on long side



## DIMENSIONS (ROOM W/O CONDITIONER, ACCESSORIES)

Room Sizing Options					
Size	Dimensions	Side 1	Side 2	Height	Usable space (shelves)
WIC 1	outer	2600 mm	2500 mm	2470 mm	187 cb.ft. / 5295 liter
	inner	2400 mm	2300 mm	2270 mm	
WIC 2	outer	2600 mm	3600 mm	2470 mm	264 cb.ft. / 7476 liter
	inner	2400 mm	3400 mm	2270 mm	
WIC 3	outer	2600 mm	4700 mm	2470 mm	342 cb.ft. / 9685 liter
	inner	2400 mm	4700 mm	2270 mm	
*with shelf set					
Conditioner, vertical	outer	362 mm	586 mm	1956 mm	

## ORDERING OPTIONS 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 ACCESSORY

Accessory	Description	Order No.
Ramp for all WIC models	suitable for all WIC models (230 V)	8012-2239
Shelf set small (for WIC 1 models)	suitable for WIC 1, WIC 1 C (230 V)	8012-2156
Shelf set medium (for WIC 2 models)	suitable for WIC 2, WIC 2 C (230 V)	8012-2157
Shelf set large (for WIC 3 models)	suitable for WIC 3, WIC 3 C (230 V)	8012-2158

## 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

# BINDER products

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Multi Management Software

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