

GP[campus]

compact glove box
with purification system

1 ppm O₂ / 1 ppm H₂O

GP[campus]



CHEMISTRY ●
PHYSICS ●
BIOLOGY ●
SCIENCE & RESEARCH ●



JACOMEX

glove box

T2
○○

T2+T2
○○ ○○

Weight

250 kg

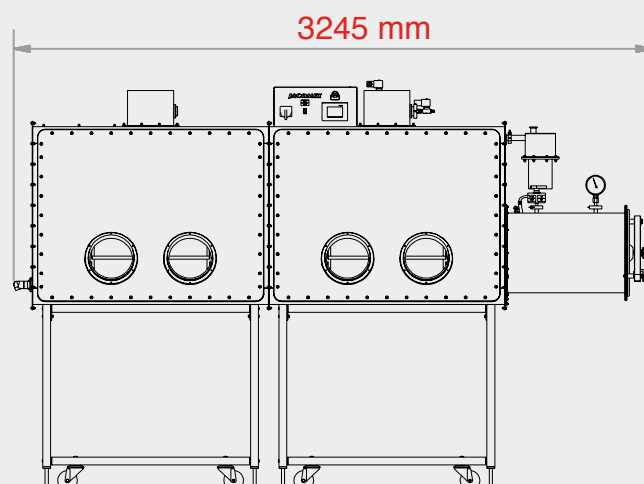
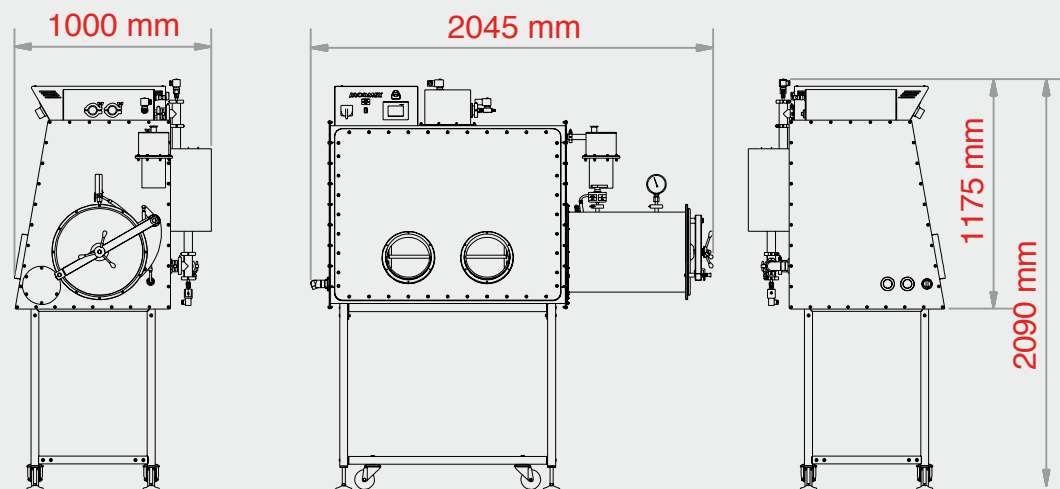
350 kg

Internal working dimensions (L * H * D in mm)

1 200*900*725

2 400*900*725

SHELL	stainless steel X2CrNi18-9 (US 304 L)	•	•
PIPING	stainless steel X2CrNi18-9 (US 304 L)	•	•
TIGHTNESS	class 1 to standard ISO 10648-2 (oxygen method) leakage rate < 5.10 ⁻⁴ h ⁻¹	•	•
LIGHTING	LED light	1	2
SHELVES	stainless steel - adjustable height	3	6
FEEDTHROUGH	electrical single phase 220 V - 16 A	1	1
FEEDTHROUGHS	blind feedthroughs for ISO KF40	6	10
FRONT PANEL	polycarbonate - 10° inclination bolted, can be easily dismountable	•	•
GLOVE RINGS	Ø 220 mm PP	2	4
GLOVES	butyl-hypalon - ambidextrous size 8.5 thickness 0.6 mm - length 750 mm	2	3
VACUUM ANTECHAMBER	cylindrical in stainless steel Ø 400 mm - length 600 mm	•	•
FILTRATION	filter support for HEPA filter or activated charcoal filter	1	1
PURIFICATION	H ₂ O and/or O ₂ elimination	•	•





vacuum chamber

DIMENSIONS	Stainless steel – Ø 400 mm - length 600 mm
POSITION	On the right or on the left of the glove box
EXTERNAL DOOR	Lifting mechanism (vertically) - Easy opening through gas cylinder
INTERNAL DOOR	Lifting mechanism (vertically) - Easy opening through gas cylinder Gas cylinder external to the glove box for a maintenance without pollution of the atmosphere
CONTROL	3-way manual valve for evacuating and filling in
TRAY	Inner sliding tray in stainless steel
VACUUM CONTROL	Vacuum gauge 0-1bar with analog display
TIGHTNESS	Leak rate $< 10^{-5}$ mbar.l.s ⁻¹
CONNECTIONS	ISO KF25



pressure control

OPERATION	Automatic
PRESSURE	Overpressure
INLET GAS	Electro valve controlled through PLC
OUTLET GAS	System without backscattering through relief bubbler, independent from the vacuum pump



user interface

INTERFACE	Touch panel english-french-german
USER HELP	Integrated to the touch panel
DISPLAY	Pressure : Pa, mmCe or mbar (H ₂ O) : ppm/°C PR - (O ₂) : ppm
CONTROL	Purging - regeneration / purification
SETTING	Start/stop blower Overpressure Visual alarm according to O ₂ and/or H ₂ O



purification

PROCESS	Closed loop gas circulation Regenerable purifying loads
PURIFICATION	H ₂ O and/or O ₂ purification column
PERFORMANCE	H ₂ O < 1 ppm - O ₂ < 1 ppm
CAPACITY	O ₂ = 20 l - H ₂ O = 960 g
PURIFICATION FLOW	30 m ³ h ⁻¹
BLOWER	Brushless motor blower in leaktight box with electrical commutation
COOLING SYSTEM	Not required - no temperature elevation
REGENERATION PROCESS	Fully automatic Inlet and outlet regeneration gas through electrovalves
HEATING	Integrated temperature regulation and security thermal switch
TIGHTNESS	Leak level $< 10^{-5}$ mbar.l.s ⁻¹
REGENERATION GAS	95% N ₂ or Ar + 5% H ₂
SOUND LEVEL	49 dB in purification and pressure regulation



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front panel

FIXED (DISMOUNTABLE)	<ul style="list-style-type: none"> • polycarbonate • glass
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transfer systems

ACCESSORIES	Two stage vacuum pump 10 m ³ /h
MINI VACUUM CHAMBER	Vacuum chamber Ø 150 - length 400 mm

analyzers and filtration

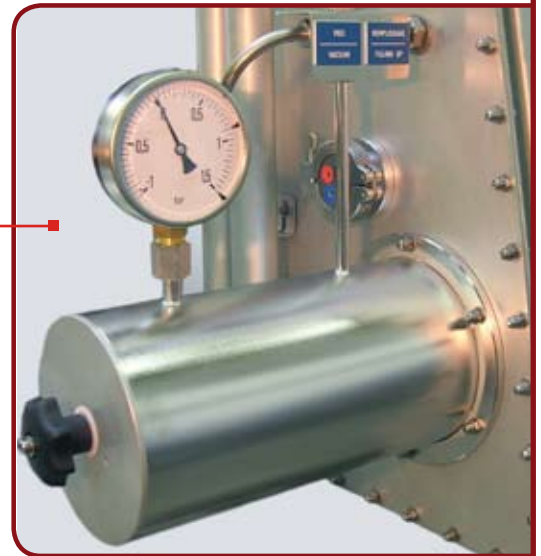
ANALYZERS	O ₂ and H ₂ O
FILTRATION	<ul style="list-style-type: none"> • HEPA : particles • activated charcoal : solvents

complementary information

SUPPORTING FRAME	Stainless steel 304L – height 950 mm casters and lock out cylinders
DOOR	POM door Ø 220 mm

tight feedthroughs

Consult specific documentation



JACOMEX

rue du Bicentenaire
Zone des Prés Seigneurs
01120 Dagneux - France
tél. : +33 (0)4 72 25 19 00
fax : +33 (0)4 72 25 19 01

contact@jacomex.fr

www.jacomex.com