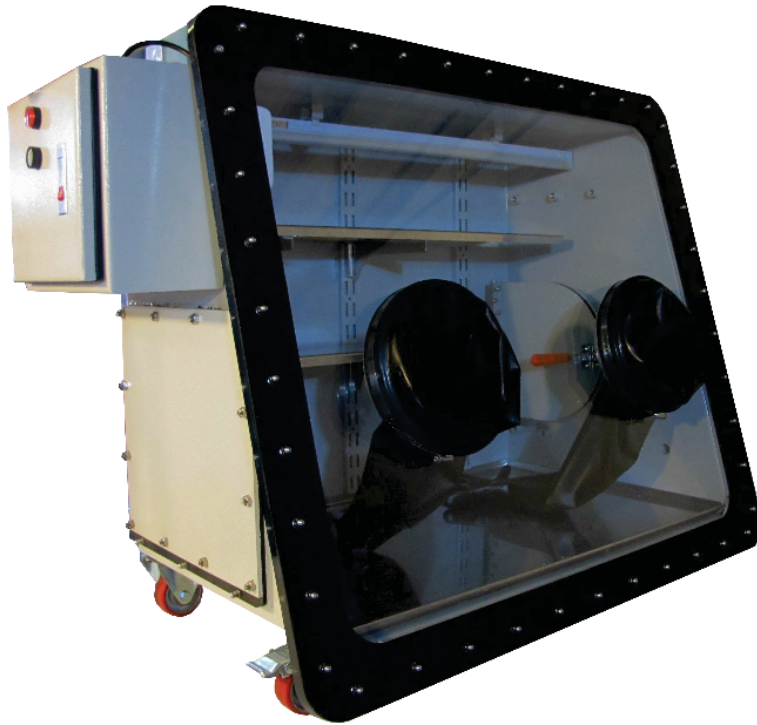


## OVERVIEW

GLX-280I is a semi-automatic glovebox with a pressure control system based on pressure switches, and manual purging/evacuation control. This system keeps the pressure constant inside the chamber during operation. Four sensors are installed on the system to monitor the conditions of inside of the main chamber: temperature, oxygen, humidity and volatile organic compounds (VOC). One of the main features of the GLX-280I is the very low leakage rate. GLX-280I is an economic glovebox for applications that do not need a closed-loop oxygen/moisture removal system.



## FEATURES

- Pressure switch based control system
- Very low leakage rate
- Multiple electrical and gas ports
- O<sub>2</sub>, H<sub>2</sub>O, VOC, T sensors installed on system
- Three-way hand valve for evacuation/purging

## SPECIFICATIONS

GLX-280I Technical Specifications	
Model	GLX-280I
Glovebox size (l x w x h)	138 cm x 65 cm x 85 cm
Main chamber size (l x w x h)	82 cm x 60 cm x 70 cm
Loading chamber size	l = 25 cm, D = 20 cm (Volume = 7 lit)
Main chamber walls	Carbon steel, t = 1.5 mm
Glovebox window	Tempered glass, t = 10 mm
Glove Port	Round Al port, for 8 inch gloves
Shelves	2 shelves, 60 cm x 12 cm, mounted at different height
Gas Ports	KF16 port (1x), 1/4 inch manual on/off valve (2x)
Gloves	Butyl gloves, l = 80 cm, D = 8 inch, t = 0.4 mm
Light	Warm white (1x), Cool white (1x)
Manual pressure gauge	2 manual pressure gauge: vacuum gauge (-1 - 0 bar), Input gas pressure gauge (0 - 2.5 bar)
Loading chamber doors	Outside door: rotation sliding, screw lock ; Inside door: Jack-lift, screw lock
Sensors	Oxygen sensor: Electrochemical, 0-100% , Resolution 0.01%
	Temperature sensor: Resolution 0.1 °C
	Humidity sensor: 0-100%, Resolution 0.1%
	Differential pressure sensor: 0-4000 Pa, Resolution 1 Pa
	Absolute pressure sensor: -1000 mbar - 1000 mbar, Resolution 1 mbar
Electric ports	VOC sensor: 0-100 ppm, Resolution 1 ppm
	4 banana plug connections
Pneumatic system	Electric valves, 1/4 inch and 1 inch.
	Pressure regulator 0-2.5 bar at the gas input line
	Pressure Switch (1x) for Tuning of Gas Entrance/ Exhaust Pressure
	Stainless Steel Three way Hand Valve
Power	Exhaust foot pedal (to ease of working with gloves)
	Single phase, 220 VAC, 1000W
	16A surface socket inside main chamber (2x)
	6 A circuit breaker for electric valves
	16 A circuit breaker for the surface sockets
Weight	Safety switch
	150 Kg