



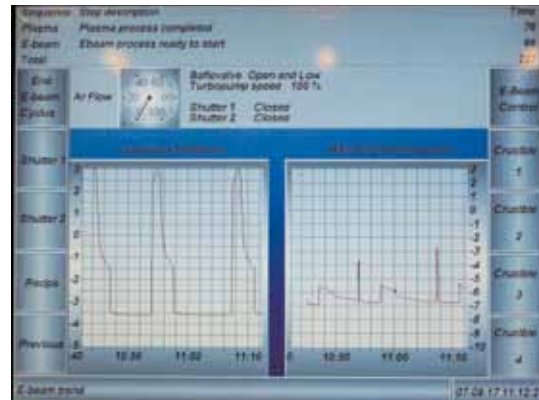
## Explorer 600 LT

The Cryofox Explorer 600 LT is a compact high vacuum unit for Thin Film production.

The Explorer 600 LT is ideal for Lift Off processes. In the Lift Off process there is a need for a very uniform line of incidence of the deposition material during the coating process. The Explorer 600 LT has a long throw distance of the deposition material so that a uniform line of incidence is obtained.

The Explorer 600 LT is a very versatile unit special developed for production and research and development.

The process technology is based on E-beam deposition.



Due to the very compact size of the plant, it is easy to transport and fit into existing laboratory facilities. It requires only an 850 mm wide and 1900 mm high door opening.

All Cryofox systems can be integrated in clean room facilities.

All Cryofox systems are developed, designed, and manufactured by Polyteknik AS.

## Mechanics

- Deposition throwing distance: 750 mm approx.
- Stainless steel chamber (optional: Electro polished)
- Plane tool for plane substrates (wafers) – up to 8 inch/200 mm
- Substrate cooling/heating (optional)
- Footprint:  
Vacuum unit: D1047 x W816 x H1848 mm  
Control unit: D1044 x W624 x H1848 mm

## Process

- E-Beam – single or multiple pockets
- Thermal evaporation (optional)
- Plasma pre-treatment in load lock
- Ion etch system (optional)

## Process supply

- Oil backing pump (optional: Dry pump)
- Turbo or Cryopump for high vacuum
- One or multiple mass flow controllers for gas supply
- Water cooling

## Process Control

- Receipt control with fully automatic process
- Fully automatic or manual control of the process
- Very good HMI on top of robust PLC control
- Internet access for machine control and operation (optional)
- Data logging function (optional)
- Thickness monitor with single/double crystals and connected to the control system
- RGA (residual gas analyzer) and logging PC (optional)

## AUX. Equip.

- Chiller (optional)

