

# UPGRADE

## Service™ – LN<sub>2</sub> Auto Changeover Unit

### Upgrade to Oxford Instruments Cryo Tables

Oxford Instruments' LN<sub>2</sub> Auto Changeover Unit enables table cooling fluid to be automatically switched between Liquid Nitrogen (LN<sub>2</sub>) and Chiller Fluid, via a recirculating chiller. The Unit may be added as an upgrade to many of our Systems, including **Plasmalab**® systems with cryo cooled electrodes.

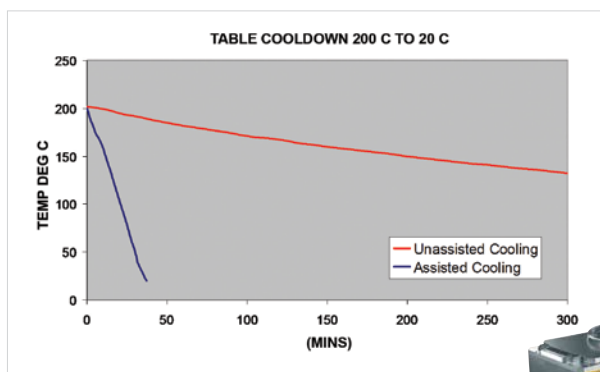
#### Key Benefits

- Accelerated cooling in temperature range 200 °C to 0 °C
- Fully automated, not requiring the manual removal of pipe work and blowing out the table, saving time and reducing the exposure risk to LN<sub>2</sub> when changing between Chiller and Cryo modes
- Saves time when rapid mode change is required
- Unmanned/Overnight mode changes, gives time for the table temperature to stabilise, ready for process at the beginning of the next day
- Setpoint range: -150 °C to +400 °C (System 100 tool)
- Setpoint range: -120 °C to +350 °C (System 133 tool)



#### Fantastic time saving

Natural cool down 200°C to 20°C takes around 10 to 12 hours. Using the ACU time is cut to 40 minutes (including switching from Cryo to Chiller mode)



Comparison table shows assisted vs unassisted cooling, offering proven time and cost savings

Great cost savings gained



#### Systems compatible with LN<sub>2</sub> Auto Changeover Unit

This Autochangeover unit can be used with all new or existing **Plasmalab** systems with a Cryo Table or RIE heated electrode fitted. It could also be used to purge chiller fluid from Hot Tables.

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# Service – Global Support

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