

Genlab

Laboratory Division



NEW Genlab E³ Drying cabinets

State of the art design, energy efficient, safe and sustainable

Forget traditional energy inefficient, costly to run drying cabinets.

Genlab's new E3 range of glassware drying cabinets are unique - first to market, energy efficient, safer and cheaper to run. Working with the **University of Cambridge**, Genlab has developed units that represent a novel, **sustainable solution** to glassware drying. In addition they're much easier to use.



Key features

- Fully insulated with adjustable vent cover
- Integral 7 Day timer with display
- Digital controller with fixed over-temperature safety cut-out
- Adjustable shelf runners with removable chrome shelves
- Lockable castors on the 425 and 885 litre models
- Easy clean powder coated body with toughened glass doors



What is E³

Genlab is proud to offer their customers a unique range of sustainable laboratory products and services. E3 is our market leading brand for scientifically developed, cutting edge, sustainable, eco-friendly products – only available from Genlab. Whether you are a single laboratory needing to buy greener and smarter, or a larger organisation concerned with reducing overall running costs, Genlab E3 can provide the solution that's best for you.



GENLAB LTD, TANHOUSE LANE, RIVERVIEW INDUSTRIAL ESTATE, WIDNES, CHESHIRE WA8 0SR, UK
telephone: 0151 424 5001 fax: 0151 495 2197 e-mail: enquiries@genlab.co.uk www.genlab.co.uk

Asynt Contact us for more information & pricing:

E: enquiries@asynt.com
T: +44 (0)1638 781709
W: www.asynt.com

Benefits and cost savings

- Low energy consumption - $\geq 50\%$ lower than traditional cabinets
- Low heat output - reducing air conditioning costs
- Fully insulated - safer for end users
- Easy, specific temperature controller
- Integral programmable 7 day timer - ON/OFF to reflect your needs
- Convection or fan - heat up time < 1 hour

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Drying/warming cabinets



| Capacity (l) | 100 | 200 | 425 | 885 |
|----------------------------|--|--------------------------|-----------------------|-----------------------|
| Max. temperature (°C) | 80 | 80 | 80 | 80 |
| Shelves supplied / max. | 3/4 | 3/4 | 3/12 | 3/12 |
| Doors | Sliding, toughened glass | Sliding, toughened glass | Double glazed, hinged | Double glazed, hinged |
| External WxDxH (mm) | 740x420x660 | 1000x500x770 | 600x650x1755 | 1180x650x1755 |
| Internal WxDxH (mm) | 670x370x400 | 930x450x490 | 530x590x1350 | 1110x590x1350 |
| Net weight | 50kg | 75kg | 140kg | 210kg |
| Max. power consumption (W) | 500 | 750 | 1750 | 2500 |
| Power requirements | 220-240 V, 50 Hz, 1 ph. | | | |
| Construction | Powder coated paint, with stainless steel interior | | | |
| Energy consumption | (kWh/day @75 °C)* | | | |
| Natural convection | 5.56 | 8.65 | 13.27 | N/A |
| Fan circulation | 8.35 | 12.97 | 18.32 | 27.18 |

Moisture removal – convection vs. fan circulation*

| Unit – set at 75 °C | Water loss (g/hr) | kWh/day |
|-----------------------|-------------------|---------|
| Unit A (82 l) | 22.02 | 11.184 |
| E3 Convection (100 l) | 22.80 | 5.560 |
| E3 Fan (100 l) | 43.56 | 8.350 |

E3 fan units are able to remove approximately **double the moisture** of a convection unit, the time taken to dry a load is therefore **halved**. As a result the energy used to dry a load is actually **lower for a fan unit compared to a convection unit**.

*Note: All units tested were at a set temperature of 75 °C (empty chamber) and the ambient temperature was 22 °C. Energy consumption figures will differ based on unit set temperature and ambient conditions

| Cat. No. | Model |
|---------------------------|----------------------------------|
| Natural convection | |
| E3DWC100/N | E3DWC100/N, 100 l drying cabinet |
| E3DWC200/N | E3DWC200/N, 200 l drying cabinet |
| E3DWC425/N | E3DWC425/N, 425 l drying cabinet |
| Fan circulation | |
| E3DWC100/F | E3DWC100/F, 100 l drying cabinet |
| E3DWC200/F | E3DWC200/F, 200 l drying cabinet |
| E3DWC425/F | E3DWC425/F, 425 l drying cabinet |
| E3DWC885/F | E3DWC885/F, 885 l drying cabinet |
| Options | |
| E3EXT | Extractor system |

produced in association with  www.greenlightlabs.co.uk

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