



CRYO 230

HIGHLY RELIABLE CRYOGENIC FREEZER WITH DUAL COOLING PROVIDES THE BEST SECURITY FOR YOUR SAMPLES. The cryogenic freezer offers a wide variety of research and long-term storage application for ultra low temperature scientific experiments, preservation of cells, DNA, bone material & bacteria



DUAL COOLING SYSTEM



FILTERLESS CONSTRUCTION



REDUCED NOISE LEVEL

ENERGY EFFICIENT

Arctiko's CRYO 230 freezer only uses 33kwh/24h which is extremely low compared with competitors. The dual cooling technology ensures extremely low cost of ownership and noticeable impact on the running costs. Our CRYO is a superior alternative to LN2 based products, e.g. cryotanks. With no LN2 needed, it operates solely on a power supply which lowers the operating costs.

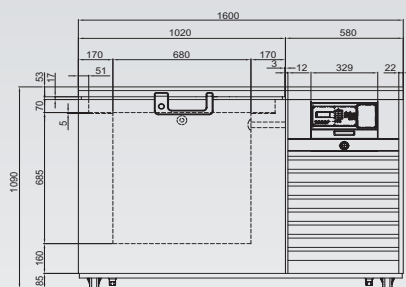
SUPERIOR PERFORMANCE

The dual cooling system is designed to keep the unit at -150°C, and with only one cooling system active the unit is still able to achieve -130°C – with an outstanding uniformity of +/-3°C. The dual cooling system makes sure that you are provided with the best and most secure and reliable cryogenic freezers with excellent temperature stability and superior performance.

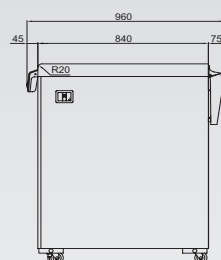
MOST SECURE CHOICE

Arctiko's CRYO freezer eliminates the cost of LN2 storage maintenance and avoids hazardous operation conditions. Arctiko's CRYO freezers are specially developed to avoid cross contamination and to provide a more environmentally friendly economic alternative to the LN2 cryotanks. Choosing this CRYO you will have one of the most reliable freezers available in the market.

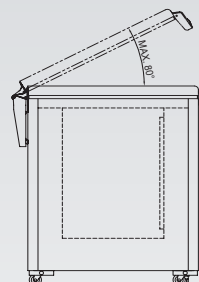
MAIN DIMENSION FOR CRYO 230



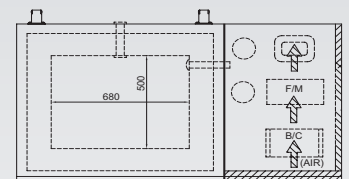
Front



Right side



Left side



Plane



Temperature chart recorder comes as standard in all our CRYO freezers, for optimal recording of temperature.



User-friendly controller with access to all the necessary functions



Key lock is standard feature in our CRYO 230. Placed on handle for optimal security of your samples.

OPTIONAL ACCESSORIES

- LN2 backup
- GSM alarm module
- Racks & boxes
- Cryo gloves

MAIN SPECIFICATIONS

| | |
|--------------------------------|----------------------|
| Item code | DAI 0198 |
| Temperature range (°C) | -140 / -150 |
| Max. ambient temperature (°C) | 30 |
| Capacity (L) | 233 |
| Exterior dimensions WxDxH (mm) | 1760x960/1135*x1090 |
| Interior dimensions WxDxH (mm) | 680x500x685 |
| Weight (KG) | 391 |
| Insulation (mm) | 170 |
| Cooling technology | dual system / static |
| Controller model / probe type | TTM-004 / PT100 |

POWER

| | |
|-----------------------------|---------|
| Power supply (V) | 3 x 400 |
| Frequency (Hz) | 50 |
| Power consumption (kWh/24H) | 33,5 |
| AMP (A) | 4,7 |
| Power (Watt) | 2021 |
| Horse power (HP) | 2 x 1,5 |

ALARM FUNCTIONS

| | |
|--|-----------|
| Alarm display as text - not codes | no |
| Visual / acoustic alarm | yes / yes |
| Power failure alarm | yes |
| Adjustable high / low temperature alarm | yes / yes |
| Open door alarm | no |
| Probe failure alarm | yes |
| Low battery alarm | no |
| Compressor failure alarm | no |
| Battery backup for alarms (approx. hrs.) | 48 |

DATA LOGGING & EXTERNAL CONNECTION

| | |
|---|-----|
| Voltage free contact for remote alarm (e.g. GSM module) | yes |
| Electronic data logger | no |
| RS 485 port | no |
| USB port for software update & data download | no |
| Temperature chart recorder | yes |

DISPLAY FEATURES

| | |
|---|-------------|
| Display type | LED display |
| Number of optional reference probes | no |
| Password protection for turning unit on / off | no |
| Temperature graph on display | no |

OTHER FEATURES

| | |
|--|-------|
| Automatic defrost | no |
| Vacuum release port | yes |
| Access port for external probe etc. (int. diameter mm) | 20 |
| Light | no |
| Lock with key | yes |
| Castors (total pcs) / castors with brake (pcs) | 4 / 0 |
| Feet (pcs) / levelling feet (pcs) | 0 / 2 |
| Sub lids or inner doors (pcs) | 2 |
| Baskets (pcs) | no |
| Total capacity of 50 mm boxes 9x9 dividers (pcs) | 144 |
| Total capacity of 75 mm boxes 9x9 dividers (pcs) | 96 |
| Total capacity of 96 mm boxes 9x9 dividers (pcs) | 72 |

REFRIGERATION & CABINET

| | |
|-----------------------------|-------------------------|
| Number of compressors | 2 |
| Refrigerant | mix |
| Interior cabinet material | stainless steel |
| Exterior cabinet material | electrogalvanized steel |
| Colour (exterior cabinet) | ivory |
| Foam type | polyurethane |
| VIP vacuum insulated panels | no |

SHIPPING

| | |
|-----------------------------------|-------------|
| Shipping weight (KG) | 563 |
| Shipping dimensions WxDxH (cm) | 210x122x140 |
| Shipping volume (m ³) | 3,59 |

*Depth of 1135mm includes distance fittings on back for correct air circulation