

# ARCTIKO ULUF P820GG

true cooling specialists



**ULTRA LOW TEMPERATURE** | HIGHLY RELIABLE ULT FREEZER  
WITH NATURAL REFRIGERANT

The freezer comes with the extremely powerful independent **TRUE DUAL™** technology that keeps the samples protected at -70 °C if an unexpected failure occurred keeping you worry-free and the samples secured and safely guarded.

## ▶ EXTREMELY POWERFUL AND EFFICIENT COOLING

This model is characterized by the short pull down time of approx. 3 hours<sup>1</sup> indicating an exceptionally solid cooling system with robust insulation, due to the effective mixture of polyurethane and vacuum insulated panels.

Even with continuous door openings, it rapidly restores temperature uniformity creating a highly reliable environment that's not being affected by ambient temperature. Therefore, it is essentially defined by amazing temperature recovery properties.

<sup>1</sup> See below graph under "Improved recovery time".  
Ambient temperature 32°C Freezer with no-load.

## ▶ ENVIRONMENTALLY FRIENDLY

Our natural refrigerants include extremely low ODP<sup>1</sup> and GWP<sup>2</sup> values of less than 4. Our tried and tested environmentally friendly CFC/HCFC free refrigerants guarantee potent and powerful system securing your valuable samples, but without compromising our Earth's safety in the process.

Even though they are environmentally friendly, they consume significantly less energy without compromising the cooling system, and making it cost effective as well.

Our environmentally-safe refrigerants share strong thermodynamic properties creating high performance along the way.

<sup>1</sup> Zero Ozone Depletion Potential  
<sup>2</sup> Global Warming Potential

## ▶ ULTIMATE SAMPLE PROTECTION

This model is developed with our advanced and innovative technologies, including the very best components to secure first-rate performance.

Do not risk the safety of your samples due to the potential breakdown of your freezer. Having our **TRUE DUAL™** technology, you will avoid all the problems caused by an unexpected malfunction of the compressors. In the event of any failure on one of the cooling systems, the other system will still maintain the temperature of -70°C, meaning your valuable samples are stored with superior security all day and all night.

Don't ignore the huge risk of losing many years of your valuable research because of poor-quality laboratory equipment.



NATURAL REFRIGERANT



ULUF P820GG\* ▲



Extra insulated and durable inner doors. The inner doors will provide ultimate protection and more effective insulation when the doors open.

They are all effortlessly detachable to ease and speed up the cleaning process. They are opened independently to minimize sample exposure.



TRUE DUAL™ TECHNOLOGY



ONEGRIP™ HANDLE



DIRECT COOLING



VACUUM INSULATED PANELS



AIRFLOW CONTROL

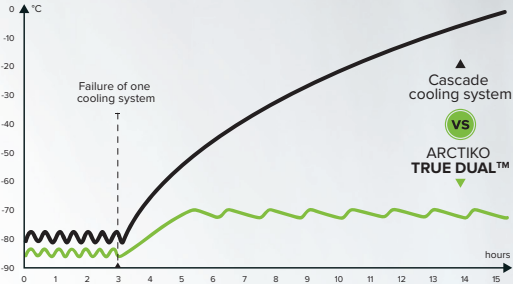


NOISE REDUCTION TECHNOLOGY



The modernized shelves in the new Integraline are perforated and easily adjustable, offering the best flexibility for your storage needs. Extra durable shelves with up to 50 kg.

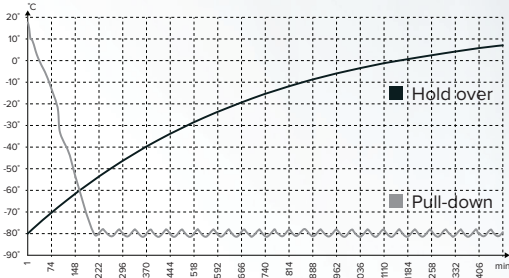
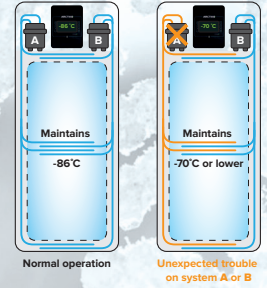
\* The pictures shown are for reference only, actual product size may vary. Please read the dimensions of the product in the specifications.



### ◀ CASCADE VS ARCTIKO TRUE DUAL™ System

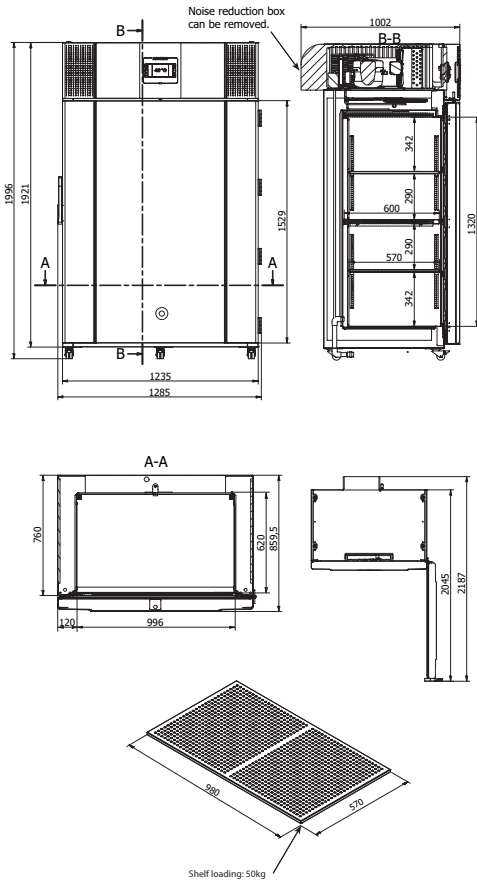
With a Cascade system (marked black ●) the temperature will rise gradually and the samples will be destroyed.

ARCTIKO's TRUE DUAL™ cooling system (marked green ●) will serve as a backup and the inside temperature will stay in the low temperatures



### ▲ IMPROVED RECOVERY TIMES

Pull-down times measures the time taken for temperature to rise, the faster the better. Hold over indication the freezers ability to keep the samples safe.



| MODEL   | ULUF P820GG   |  |
|---|---|--|
| Main specifications   | Item code   | DAI 1850                                   |
|   | Temperature range (°C)  | -40 / -86                                  |
|   | Max. ambient temperature (°C)                                 | 32   |
|   | Capacity (L)  | 819  |
|   | Exterior dimensions WxDxH (mm)                                | 1285x859,5/1002x1999                       |
|   | Interior dimensions WxDxH (mm)                                | 996x620x1320                               |
|   | Weight (KG)   | 307  |
|   | Insulation (mm)   | 120  |
|   | Cooling technology  | dual system / static                       |
|   | Controller model / probe type                                 | V700 / PT100                               |
| Power   | Power supply (V)  | 230  |
|   | Frequency (Hz)  | 50/60                                      |
|   | Power consumption (kWh/24h)                                   | 17,3                                       |
|   | AMP (A)   | 10,3                                       |
|   | Power (Watt)  | 1550                                       |
|   | Horse power (HP)  | 2 x 3/4                                    |
| Alarm functions   | Alarm display as text - not codes                             | yes  |
|   | Visual / acoustic alarm                                       | yes / yes                                  |
|   | Power failure alarm   | yes  |
|   | Adjustable high / low temperature alarm                       | yes / yes                                  |
|   | Open door alarm   | yes  |
|   | Probe failure alarm   | yes  |
|   | Low battery alarm   | yes  |
|   | Compressor failure alarm                                      | yes  |
| Battery backup for alarms (approx. hrs.)                          | 72  |  |
| Data logging & external connection                                | Voltage free contact for remote alarm (e.g. GSM alarm module) | yes  |
|   | Electronic data logger  | yes  |
|   | RS 485 port   | optional                                   |
|   | USB port for software update & data download                  | yes  |
| Temperature chart recorder  | optional  |  |
| Display features  | Display type  | 7" touch screen                            |
|   | Number of optional reference probes                           | 0 (1 reference probe included as standard) |
|   | Password protection for turning unit on / off                 | yes  |
|   | Temperature graph on display                                  | yes  |
| Other features  | Automatic defrost   | no   |
|   | Vacuum release port   | yes  |
|   | Access port for external probe etc. (int. diameter mm)        | 12   |
|   | Light   | yes  |
|   | Lock with key   | yes  |
|   | Castors (total pcs) / castors with brake (pcs)                | 5 / 2                                      |
|   | Fixed feet (pcs) / levelling feet (pcs)                       | no   |
|   | Sub lids / inner doors (pcs)                                  | 4  |
|   | Reversible door(s)  | no   |
|   | Fixed shelves (pcs) / adjustable shelves (pcs)                | 1 / 2                                      |
| Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs) | 5 / 5   |  |
| Max. load per shelf (kg)  | 50  |  |
| Total capacity of 50 mm boxes 9x9 dividers (pcs)                  | 616   |  |
| Total capacity of 75 mm boxes 9x9 dividers (pcs)                  | 392   |  |
| Total capacity of 96 mm boxes 9x9 dividers (pcs)                  | 280   |  |
| Max. capacity of samples in Arctiko 10x10 boxes (pcs)             | 61.600  |  |
| Refrigeration & cabinet   | Number of compressors   | 2  |
|   | Refrigerant   | GG20                                       |
|   | Interior cabinet material                                     | stainless steel                            |
|   | Exterior cabinet material                                     | painted steel                              |
|   | Colour (exterior cabinet)                                     | white                                      |
|   | Foam type   | polyurethane                               |
| VIP vacuum insulated panels                                       | yes   |  |
| Shipping  | Shipping weight (KG)  | 459  |
|   | Shipping dimensions WxDxH (cm)                                | 141x127x225                                |
|   | Shipping volume (m <sup>3</sup> )                             | 4,03                                       |

