



ULUF P390

HIGHLY RELIABLE ULTRA LOW FREEZER WITH DOUBLE SECURITY.

ULUF P390 FREEZERS COMES WITH DUAL COOLING TECHNOLOGY THAT OFFERS THE HIGHEST LEVEL OF SECURITY FOR YOUR VALUABLE SAMPLES.



**NOISE
REDUCTION
TECHNOLOGY**



**DUAL
COOLING
SYSTEM**



**VACUUM
INSULATED
PANELS**



**AIRFLOW
CONTROL**

WORKING ENVIRONMENT

The INTEGRA range helps provide a pleasant work environment where they are installed by placing the compressor and other heat and noise generating components on top of the unit, rather than the bottom. By placing the components on top of the freezer, there is never a compartment that you will have difficulties overlooking or using fully. Ensuring an ergonomically correct unit, which is easy and pleasant to use on a day-to-day basis. We are also able to reduce the noise level to only 49 dBA with our Noise Reduction Technology, ensuring a pleasant work environment.

RELIABLE AND ENERGY EFFICIENT

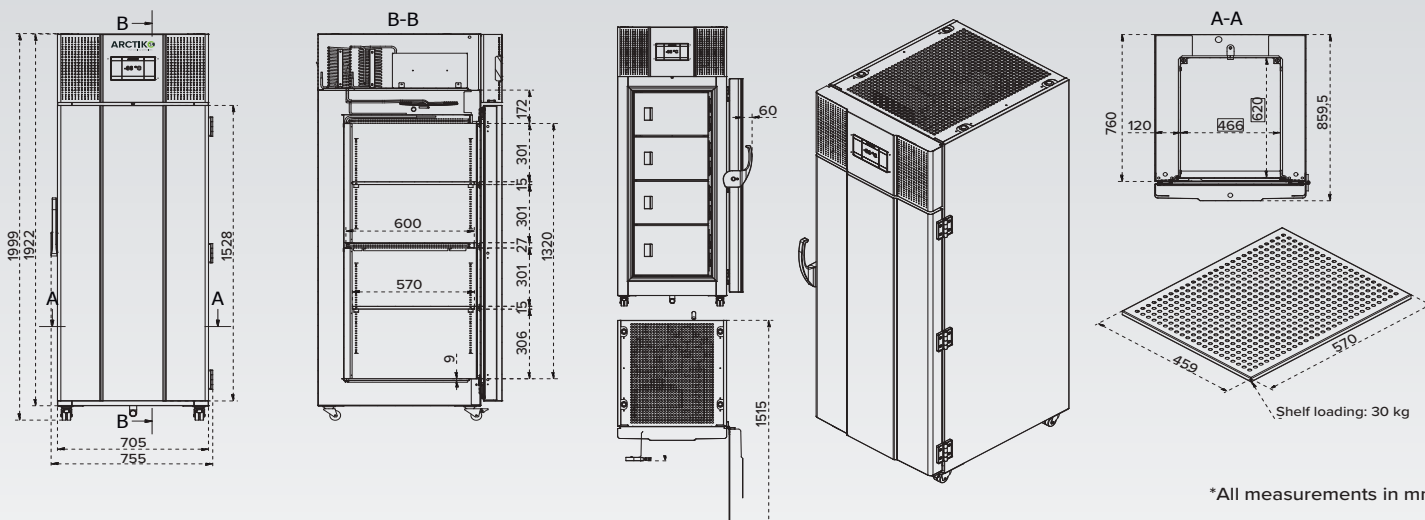
The INTEGRA range is developed with our advanced technologies and with the best components to secure the best performance. Besides of the regular polyurethane foam the INTEGRA range has a layer of vacuum insulated panels (VIP), that provides an even better insulating effect, this helps provide a stable cooling performance while also lowering the energy consumption. Our filter less construction makes cleaning unnecessary. With our compressors located on top, the dust intake is minimal - eliminating the need for filters entirely, saving you maintenance time and cost.

ULTIMATE SAMPLE PROTECTION

The dual cooling system is standard in the new INTEGRA range, offering great advantages.

In the event of any failure on one of the cooling systems, the other system will still maintain the temperature of -80°C meaning your valuable samples at all times are stored with best possible security.

MAIN DIMENSION FOR ULUF P390





The sublids are all easy detachable to ease and speed up the cleaning process.



The new developed V700 controller comes as standard on the new INTEGRA range.



The shelves in the new INTEGRA range are perforated and easy adjustable in order to offer best flexibility for your storage needs.

OPTIONAL ACCESSORIES

CO2 backup
Chart recorder
SVS voltage stabilizer
GSM alarm module
Racks & boxes
Cryo gloves
Drawer systems
Modbus adapter

UNIT INFORMATION

Item code	DAI 1800
Dimensions exterior WxDxH (mm)	705x860x1999
Controller (name)	V700
Capacity (L)	381
Dimensions interior WxDxH (mm)	466x600x1320
Insulation (mm)	120
Temperature range (°C)	-90/ -40
Max. ambient temperature (°C)	25
Cooling technology	Dual cooling

POWER

Power supply (V)	230
Frequency (Hz)	50/60
Power consumption (KWH/24H)	14,9
AMP (A)	8,6
Power (Watt)	1152
Horse power (HP)	2 x 3/4
Battery backup for alarms and temperature display in the event of power cut (approx hours)	72 hours

ALARM FUNCTIONS

Alarm display as text - not codes	yes
Visual / Acoustic alarm	yes
Power failure alarm	yes
Adjustable high/low temperature alarm	yes
Open door alarm	yes
Probe failure alarm	yes
Low battery alarm	yes
Compressor alarm	yes

LOGGER & EXT. CONNECTION

Contact for remote alarm	yes
Prepared for GSM alarm module	yes
Data logger	yes
RS 232 interface	yes
USB for software upload	yes
USB readout for logged data	yes
Chart recorder	optional

DISPLAY FEATURES

Digital display	yes
Defrost manual / auto	manual
2 extra probes can be mounted inside	yes
Password protection for turning unit on/off	yes
Temperature graph on display	yes

OTHER EQUIPMENT

Porthole for external probe etc.	yes
Porthole position	back
Porthole diameter (mm)	ø10
Temperature sensor	PT100
Lighting	yes
Key lock / Card lock	yes / optional
Castors / with break in front	yes / yes
Shelves (pcs.) / drawers (pcs.)	3 / no
Adjustable shelves (pcs.) / drawers (pcs.)	2 / no
Max load per shelf	30kg
Vacuum release port	yes
Basket (pcs.)	no
Sub lids / sub doors (pcs.)	no / 4
Reversible doors (pcs.)	no

REFRIGERATION & CABINET

No. of compressors	2
Refrigerant	EP88
Inner liner material	stainless steel
Cabinet material	varnished steel
Colour (exterior)	white
Foam agent	polyurethane

SHIPPING

Weight (KG)	180
Shipping weight (KG)	250
Shipping dimensions WxDxH (cm)	84x127x223
Shipping volume (m³)	2,38

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