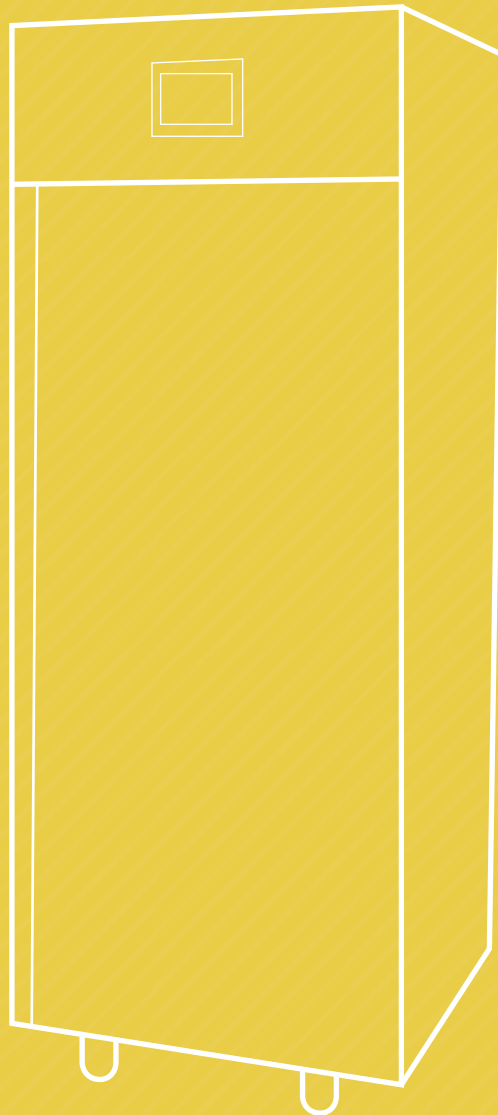


GROWTH CHAMBER

Create your own growth



Simulate the perfect light distribution with the right led type for the right specimens. This is your choice for bacteria, plants and insect growing.

FDM offers different light climate chamber for lamp type.

DayLamp: Full-spectrum light suitable for different purpose Growth

BioLamp: Selected spectrum for Bacteria growth optimization

FluoLamp: Tends to yellow area of the spectrum. Suitable for specific Plant/Animal Growth

ArabLamp: Dedicated to delicate Plant Growth like Arabidopsis

DAYLAMP

LDC-LDT Series

Full-spectrum light suitable for different purpose Growth



BIOLAMP

LBC-LBT Series

Selected spectrum for Bacteria growth optimization.



FLUOLAMP

LFC-LFT Series

Tends to yellow area of the spectrum. Suitable for specific Plant/ Animal Growth



ARABLAMP

LAC-LAT Series

Dedicated to delicate Plant Growth like Arabidopsis



TEMPERATURE

Range: -25°C to +70°C (LCB PRO)
and 0°C to +70°C (LCS PRO)

Uniformity ($\pm$ K): 1

Fluctuation ($\pm$ K): 0.1

DISPLAY

Display revoFACE with
1 program of 20 sections.

HUMIDITY

Humidity range
10% r.H. to 98% r.H.

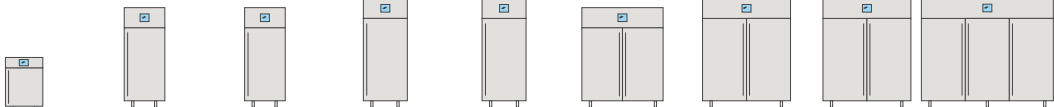
ELECTRIC

Rated Voltage: 220/240 V
Power Frequency: 50 Hz

SAFETY

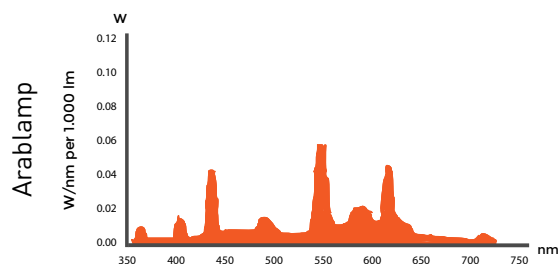
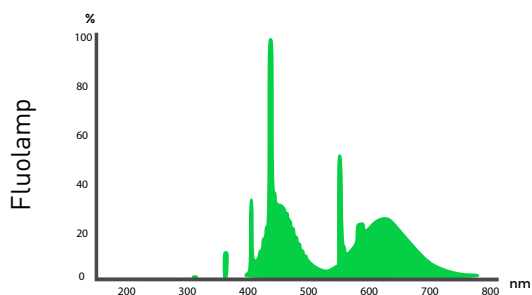
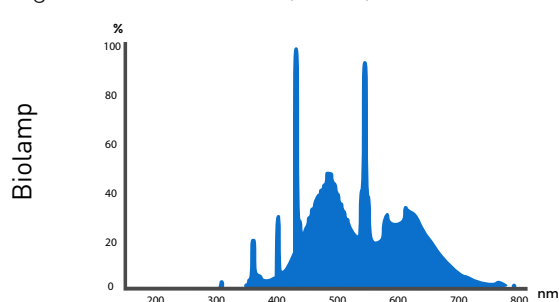
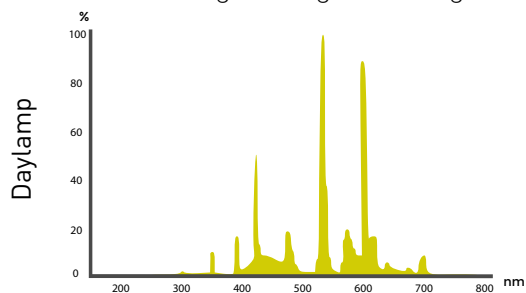
Safety device with manual
reset class (DIN 12880)



Main spec chamber										
Volume	liters [l]	140	370	440	600	700	900	1200	1500	2300
External dimensions	width [mm]	530	600	600	750	750	1200	1500	1500	2250
	depth [mm]	800	760	860	860	980	860	860	980	980
	height [mm]	940	1920	1920	2100	2100	1920	2100	2100	2100
Internal dimensions	width [mm]	450	500	500	600	600	1100	1320	1320	2070
	depth [mm]	535	480	580	570	670	580	570	670	670
	height [mm]	520	1250	1250	1350	1350	1250	1350	1350	1350
Temperature	range [°C]	0..+70 or -25..+70								
	fluct. [K]	0.1								
	unif. [K]	1								
Humidity	range [°C]	10..98								
	fluct. [±%r.h]	≤ 3								
Illumination of shelf	lamp x shelf	4	5	5	5	6	10	12	12	12
	daylamp	58 [W/m2] - 20.000 [lx]								
	biolamp	58 [W/m2] - 21.000 [lx]								
	fluolamp	58 [W/m2] - 8.000 [lx]								
	arablamp	57 [W/m2] - 11.000 [lx]								
Shelves	number	2	3	3	3	3	6	6	6	9
	depth [mm]	400	460	460	530	530	460	530	530	530
	height [mm]	500	470	570	550	650	570	550	650	650

Average heating and cooling rate according to EN 60068-3-5: +1.5/-0.8°C/min

Spectrum lamps



Main options



Door lock



Lighting system



Glass door



LED illumination system



Air extraction/replacement system



ICH illumination system



Water softer system (self-regenerating)



USB port



Flooding system



Ethernet port



Digital recorder

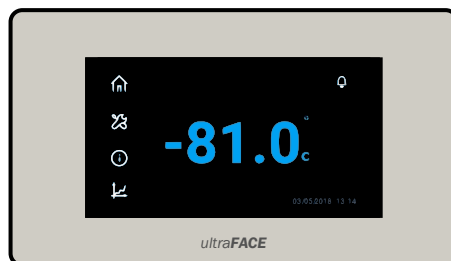


Wi-Fi remote control

INTERFACE

New dedicated interface for Ultra freezer

Even more accurate monitoring, historical temperature and data backup.
Your samples will be safe with the new triple-level security interface.



*ultra***FACE**



Tocuh screen



USB storage



Components
status



Historical data of
parameters and
alarm



Remote alarm



Triple security
level



Battery status
monitoring



Multy language
interface

ADVANTAGES

Why our Ultra freezers are the best choice.

Performance

Completely sealed cooling circuit with double cascade compressors

Insulation

High degree insulation 14 cm thick, CFC and HCFC free

Quadruple seal

The system improves the insulation of internal temperature by quadruple silicon seal

Backup system

Alarm system with backup battery

Cooling down rate

180 minutes warm-down time from 0°C to -80°C

Heating up rate

140 minutes warm-up time from -80°C to -60°C

Shield

Phosphate sheet steel outer coated, with high resistance castors

Materials

Internal of freezer is made of full stainless steel 18/8 AISI.

Safety system

The automatic protection system take action if the pressure of refrigerant gas increase

Ecological HFC gas

Refrigerant gas are CFC and HCFC free

Easy maintenance

Condenser filter is easily removable for replacement or cleaning