



Laboratory
equipment manufacturer

Producator
echipamente
de laborator



■ As laboratory instruments and equipments manufacturer, our product range includes: ovens, incubators, climatic cabinets, centrifuges, -45°C and -87°C freezers

■ In developing our instruments, we always try to offer the best equipment for sample preparation and preservation, as well as for investigating product stability and ageing. Our after sales services, with its hotline, are one reason for our success, as it maintains the close links that exist between our customers and ourselves.

■ Visit our website for an overview of our product range.

■ *Producator aparatura de laborator de aproape un secol, va propune o gama variata de etuve, incubatoare, camere climatice, centrifuge, congelatoare la -45°C si la -86°C.*

■ *Aparatele noastre sunt dezvoltate cu preocuparea permanenta de a oferi cele mai bune echipamente pentru prepararea si conservarea esantioanelor care pot fi de orice natura: biologice, biochimice, organice si minerale.*

■ *Vizitati site-ul nostru internet pentru a avea o vizibilitate precisa asupra domeniilor noastre de competenta, asupra produselor si noutatilor noastre.*

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Centrifuges / Centrifuge : SW9



Applications :

Designed to centrifuge most of the existing tubes on the market (from 0.8 ml to 250 ml) as well as standard microtiter plate
Capacity : 4x250 ml maxi - 56 haemolyse tubes - 48 tubes BD
Vacutainer Hemogard 5ml

Benefits :

Induction motors minimizing maintenance operations
Very silent < 58 dba
Lid with assisted locking : high closing facility
Attractive design

Specifications :

Adjustable rotation speed up to 4500 rpm - 7700 rpm with fixed angular rotor
Acceleration up to 4200 g - 9020 with fixed angular rotor
Temperature range SW9R from -10°C to 40°C
Controls by micro processor - 10 centrifugation programs
9 acceleration ramps et 9 breaking ramps - Timer 0 - 9h59 min
Safety : lid closing - unbalanced detector - sealed carriers

Aplicatii :

Concepute pentru a centrifuga cea mai mare parte a tuburilor existente pe piata (de la 0.8 ml la 250 ml) ca si pentru placile de microtratate standard.
Capacitate : 4x250 ml maxi - 56 tuburi pentru hemoliza - 48 tuburi BD
Vacutainer Hemograd 5ml.

Avantaje :

Motor cu inductie care minimizeaza operatiile de mentenanta.
Foarte silentioase < 58 dba
Capac inchidere cu asistare : foarte usor de inchis
Aspect atractiv

Specificatii :

Viteza de rotatie reglabila pana la 4500 rot/min - 7700 rot/min cu rotor unghiular.
Gama de temperatura SW9R de la -10°C la 40°C.
Control cu microprocesor - 10 programe de centrifugare.
9 rampe de accelerare si 9 rampe de franare.
Timer 0 - 9h59 min

Securitate : capac inchidere, protectie la dezechilibru - nacele efanse.

Reference Referinta	Name / Denumire	Dimensions Dimensiune WxDxH LxPxH (mm)	Weight / Greutate (kg)	Description	Descriere
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Bench top centrifuges / Centrifuge de masa

CENSW09000003	SW9	476x600x415	60	Bench top ventilated centrifuge	Centrifuge ventilate de masa
CENSW09000001	SW9R	690x600x415	83	Bench top refrigerated centrifuge	Centrifuge refrigerante de masa

Stand alone centrifuges on castors / Centrifuge mobile (cu roti)

CENSW09000004	SW9H	476x600x995	75	Stand alone ventilated centrifuge	Centrifuge ventilate mobile.
CENSW09000002	SW9RH	476x600x995	93	Stand alone refrigerated centrifuge	Centrifuge refrigerante mobile.



Reference Referinta	Description	Descriere
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Accessories : swing out head and rotors / Accesorii : Suporti stea si rotoare.

ENSW09000007	4 places swing out head	Suport stea cu 4 brate pentru SW9
CENSW09000031	Fixed angular rotor for 20 x 15 ml tubes	Rotor unghiular pentru 20 tuburi de 15 ml
CENSW09000030	Fixed angular rotor for 10 x 50 ml tubes	Rotor unghiular pentru 10 tuburi de 50 ml
CENSW09000032	Fixed angular rotor for 8 x 100 ml tubes	Rotor unghiular pentru 8 tuburi de 100 ml

Accessories : carriers / Accesorii : Nacele

CENSW09000012	4 sealed carriers set	Set de 4 nacele etanse pentru modelul SW9
CENSW09000010	2 microtiter plates carriers	Set de 2 nacele pentru microtratate pentru SW9

Adapters for carriers / Accesorii : Suport tuburi

	Holes diameter Diametre alveole		
CENSW09000015	8.5 mm	4 adapters for 4x20 tubes of 0.8 ml - conical bottom	4 suporti pentru 4x20 tuburi de 0.8 ml cu fund conic
CENSW09000016	11.6 mm	4 adapters for 4x14 tubes of 1.5 ml - conical bottom	4 suporti pentru 4x14 tuburi de 1.5 ml cu fund conic
CENSW09000017	11.6 mm	4 adapters for 4x14 tubes of 4.5 ml - conical bottom	4 suporti pentru 4x14 tuburi de 4.5 ml cu fund conic
CENSW09000021	11.4 mm	4 adapters for 4x12 tubes of 5 ml hemogard	4 suporti pentru 4x12 tuburi de 5 ml tip hemogard, fund rotund.
CENSW09000026	13.5 mm	4 adapters for 4x14 tubes of 7 ml Vacutainer	4 suporti pentru 4x14 tuburi de 5 la 7 ml tip Vacutainer
CENSW09000024	16,5 mm	4 adapters for 4x7 tubes of 10 ml Vacutainer	4 suporti pentru 4x7 tuburi de 10 ml (Falcon) 12 ml
CENSW09000025	18 mm	4 adapters for 4x7 tubes of 15 ml Vacutainer	4 suporti pentru 4x7 tuburi de 15 ml Vacutainer
CENSW09000014	17.5 mm	4 adapters for 4x7 tubes of 15 ml - conical bottom	4 suporti pentru 4x7 tuburi de 15 ml fund conic
CENSW09000023	17 mm	4 adapters for 4x7 tubes of 15 ml started	4 suporti pentru 4x7 tuburi de 15 ml starsted
CENSW09000013	22.2 mm	4 adapters for 4x5 tubes of 20 ml - round bottom	4 suporti pentru 4x5 tuburi de 20 ml cu fund rotund
CENSW09000018	30 mm	4 adapters for 4x2 tubes of 50 ml - conical bottom	4 suporti pentru 4x2 tuburi de 50 ml cu fund conic
CENSW09000019	33 mm	4 adapters for 4x1 tubes of 50 ml - flat bottom	4 suporti pentru 4x1 tuburi de 50 ml cu fund plat
CENSW09000020	44 mm	4 adapters for 4x1 tubes of 100 ml - round bottom	4 suporti pentru 4x1 tuburi de 100 ml cu fund rotund
CENSW09000027	62 mm	4 adapters for 4x1 tubes of 250 ml - flat bottom	4 suporti pentru 4x1 tuburi de 250 ml

Special adapters / Suporti speciali

CENSW09000011	4 shock absorption parts for 4x1 tubes of 250 ml diam. 65 mm	4 suporti cu absorbtie soc pentru 4x1 tuburi de 250 ml - diam. 65 mm
CENSW09000022	Any set of 4 special made adapters	Pentru fiecare set de 4 suporti speciali se produc adaptori.

Sub frame on castors / Inaltimea pe roti

CENSW09000028	Sub frame on castors, H : 550 mm	Inaltimea pe roti pentru SW9, H : 550 mm
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Centrifuges / Centrifuge : SW12



Applications :

Designed to centrifuge most of the existing tubes on the market (from 0.8 ml to 750 ml)

As well as standard microtiter plates 96 holes

Capacity : 4x750 ml maxi - 120 haemolyse tubes - 120 tubes BD

Vacutainer Hemogard 5 ml

Benefits :

Induction motors minimizing maintenance operations

Very silent < 65 dBA

Lid with assisted locking : high closing facility

Attractive design

Specifications :

Adjustable rotation speed up to 4500 rpm - 7700 rpm with fixed angular rotor

Acceleration up to 4200 g - 9020 g with fixed angular rotor

Temperature range SW9R from -10°C to 40°C

Controls by micro processor - 10 centrifugation programs

9 acceleration ramps et 9 breaking ramps - Timer 0 - 9h59 min

Safety : lid closing - unbalanced detector - sealed carriers

Aplicatii :

Concepute pentru a centrifuga cea mai mare parte a tuburilor existente pe piata (de la 0.8 ml la 750 ml) ca si pentru placile de microtratate standard cu 96 de gauri.

Capacitate : 4x750 ml maxi - 120 tuburi hemolyse - 120 tuburi BD Vacutainer Hemogard 5 ml.

Avantaje :

Motor cu inductie care minimizeaza operatiile de mentenanta.

Foarte silentioase < 58 dba

Capac inchidere cu asistare : foarte usor de inchis

Aspect atractiv

Specificatii :

Viteza de rotatie reglabila pana la 4500 rot/min - 7700 rot/min cu rotor unghiular.

Gama de temperatura SW9R de la -10°C la 40°C.

Control cu microprocesor - 10 programe de centrifugare.

9 rampe de accelerare si 9 rampe de franare.

Timer 0 - 9h59 min

Securitate : capac inchidere, protectie la dezechilibru - nacele etanse.

Reference Referinta	Name / Denumire	Dimensions Dimensiune WxDxH LxPxH (mm)	Weight / Greutate (kg)	Description	Descriere
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Bench top centrifuges / Centrifuge de masa

CENSW12000021	SW12	520x635x425	68	Bench top ventilated centrifuge	Centrifuge ventilate de masa
CENSW12000019	SW12R	750x635x425	105	Bench top refrigerated centrifuge	Centrifuge refrigerante de masa

Stand alone centrifuges on castors / Centrifuge mobile (pe roti)

CENSW12000022	SW12H	520x635x995	85	Stand alone ventilated centrifuge	Centrifuge ventilate mobile.
CENSW12000020	SW12RH	520x635x995	119	Stand alone refrigerated centrifuge	Centrifuge refrigerante mobile.



Reference	Description	
Accessories : swing out head and rotors / Accesorii : Suporti stea si rotoare		
CENSW1200024	4 places swing out head	Suport stea cu 4 brate pentru SW 12
CENSW1200033	Fixed angular rotor for 8 x 100 ml tubes	Rotor unghiular pentru 8 tuburi de 100 ml
CENSW1200031	Fixed angular rotor for 10 x 50 ml tubes	Rotor unghiular pentru 10 tuburi de 50 ml
CENSW1200032	Fixed angular rotor for 20 x 15 ml tubes	Rotor unghiular pentru 20 tuburi de 15 ml
Accessories : carriers / Accesorii : Nacele		
CENSW1200027	4 sealed carriers set	Set de 4 nacele etanse
CENSW1200026	2 microtiter plates carriers	Set de 4 nacele de microtratate SW12
Adapters for carriers / Accesorii : Suporti		
	Holes diameter Diametre gauri	
CENSW1200004	8.5 mm	4 adapters for 4x44 tubes of 0.8 ml – conical bottom 4 suporti pentru 4x44 tuburi de 0.8 ml – cu fund conic
CENSW1200005	11.6 mm	4 adapters for 4x30 tubes of 1.5 ml - conical bottom 4 suporti pentru 4x30 tuburi de 1.5 ml – cu fund conic
CENSW1200008	11.6 mm	4 adapters for 4x30 tubes of 4.5 ml - conical bottom 4 suporti pentru 4x30 tuburi de 4.5 ml – cu fund conic
CENSW1200013	13.5 mm	4 adapters for 4x30 tubes of 5 ml - hemolyse 4 suporti pentru 4x30 tuburi de 5 ml – hemolyse
CENSW1200003	14 mm	4 adapters for 4x30 tubes of 7 ml - Hemogard or classical 4 suporti pentru 4x30 tuburi de 5 la 7 ml - tip hemolyse
CENSW1200015	16.5 mm	4 adapters for 4x19 tubes of 10 ml Vacutainer 4 suporti pentru 4x19 tuburi de 10 ml Vacutainer
CENSW1200016	18 mm	4 adapters for 4x7 tubes of 15 ml Vacutainer 4 suporti pentru 4x7 tuburi de 15 ml Vacutainer
CENSW1200006	17.5 mm	4 adapters for 4x9 tubes of 15 ml - conical bottom 4 suporti pentru 4x9 tuburi de 15 ml – cu fund conic
CENSW1200014	17 mm	4 adapters for 4x15 tubes of 15 ml starsted 4 suporti pentru 4x15 tuburi de 15 ml starsted
CENSW1200012	22.2 mm	4 adapters for 4x12 tubes of 20 ml – round bottom 4 suporti pentru 4x12 tuburi de 20 ml – cu fund rotund
CENSW1200009	30 mm	4 adapters for 4x4 tubes of 50 ml - conical bottom 4 suporti pentru 4x4 tuburi de 50 ml – cu fund conic
CENSW1200011	33 mm	4 adapters for 4x4 tubes of 50 ml – flat bottom 4 suporti pentru 4x4 tuburi de 50 ml - cu fund plat
CENSW1200010	44 mm	4 adapters for 4x2 tubes of 100 ml – flat bottom 4 suporti pentru 4x2 tuburi de 100 ml – cu fund plat
CENSW1200007	65 mm	4 adapters for 4x1 tubes of 225 ml - conical bottom 4 suporti pentru 4x1 tuburi de 225 ml – cu fund conic
CENSW1200017	65 mm	4 adapters for 4x1 tubes of 250 ml - flat bottom 4 reductoare + cuple pentru 4x1 tuburi de 250 ml
CENSW1200018	82 mm	4 adapters for 4x1 tubes of 450 ml – flat bottom 4 reductoare + cuple pentru 4x1 tuburi de 450 ml
CENSW1200001	97 mm	4 shock absorption parts for 4x1 tubes de 750 ml diam. 97 mm 4 suporti cu absorbtie soc pentru 4x1 tuburi de 750 ml
CENSW1200002	97 mm	4 PEHD flat bottoms for 4x1 tubes 750 ml diam. 97 mm 4 suporti PEHD cu fund plat pentru 4x1 tuburi 750 ml.
Special adapters / Suporti speciali		
CENSW1200028	Any set of 4 special made adapters	Pentru fiecare set de 4 suporti speciali se produc adaptori
Sub frame on castors / Inaltimea pe roti		
CENSW1200029	Sub frame on castors, H : 550 mm	Inaltimea pe roti pentru SW12, H : 550 mm

Universal Ovens / Etuve Universale: AC



Applications :

Designed to meet the quality control laboratories requirements which want to keep or get their quality insurance accreditation
Temperature range from ambient temperature +10°C to 250°C

benefits :

Really efficient electronic PID controls
dual digital display 1/10° actual and set point
Temperature cycle programming up to 8 temperatures
Integrated programming function: ramp set up / plateau time set up / timer
Pt 100 Ohms probe
Safety thermostat class 3.1 for over temperature
Cable entry port diam. 30 mm with lid, center left side

Specifications :

Ventilation to optimize temperature uniformity
Brush stainless steel interior
Model fitted with non-tipping adjustable perforated shelves

Aplicatii :

Uscare / incalzire / test de rezistenta / sterilizare.
Noua generatie de etuve AIR CONCEPT a fost conceputa pentru toate testele termice de precizie, de la temperatura ambianta +10°C la +250°C

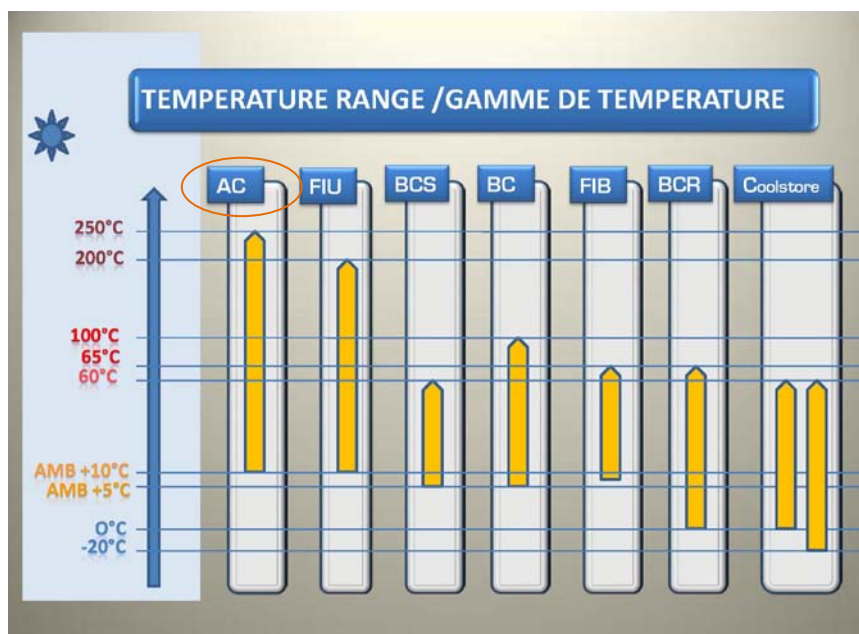
Avantaje :

Parametrare electronica cu PID auto reglant si auto adaptiv.
Afisaj simultan la 1/10°C a temperaturii reale si a consemnului.
Funcție de programare integrată în regulator.
Programare de cicluri de temperaturi : pana la 8 temp
Alarma de temperatura inalta si joasa.
Control cu sonda PT 100 Ohms
Securitate de supratemperatura clasa 3.1
Pasaj pentru cablu diam. 30 mm cu buson situat pe partea stanga

Specificatii :

Ventilatia optimizeaza omogenitatea temperaturii
Interior inox. **Modele prevazute cu gisleri care permit montarea de etajere perforate mobile cu sistem anti basculare.**

Type / Model			AC 60	AC 120	AC 240
Performances / Performante					
Uniformity / Omogenitate temperatura la	70°C	+/- °C	< 0.5	< 0.5	< 0.5
	105°C	+/- °C	< 1.2	< 1.2	< 1.2
	150°C	+/- °C	< 1.7	< 1.7	< 1.7
	250°C	+/- °C	< 2.5	< 2.5	< 2.5
Stability Stabilitate la	105°C	+/- °C	< 0.2	< 0.2	< 0.2
	250°C	+/- °C	< 0.4	< 0.4	< 0.4
Dimensions - Dimensiuni					
External dimensions W x D x H Dimensiuni exterioare L x l x H	mm		522x540x640	622x640x740	622x640x1236
Internal dimensions W x D x H Dimensiuni utile L x l x H	mm		400x370x390	500x470x500	500x470x980
Volume - clear / total (including air fan volute) Volume - util total (cu protectia ventilator)	litres		58 / 64	117/127	230/250
Shelves / Etajere					
Standard number / Standard	nbre		1	2	2
Max. number recommended / Nr. max	nbre		6	10	18
level position available / Niveluri de reglare			21	29	62
Maximum load - by shelf/ total / Greutate max / etajera	Kg		20 / 50	20 / 70	20 / 90
Shelves dimensions WxD / Dimensiuni etajera L x P	mm		380x 320	480 x 430	480 x 430
Weight - package dimensions / Greutate - colet					
Net weight / Greutate neta	Kg		39	53	79
Gross weight / Greutate bruta	Kg		53	69	97
Dimensions WxDxH / Dimensiuni colet LxPxH	mm		660x690x810	660x690x900	660x690x1450
Electrical specifications / Caracteristici electrice					
Supply / Alimentare	V / Hz		230 / 50	230 / 50	230 / 50
Power / Putere	W		1000	1000	2000



Reference / Referinta	Name / Denumire	Description	Descriere
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Universal Ovens / Etuve universale

ETUAIRC000003	AC 60	Accurate universal oven 58 liters	Etuva universala 58 litri
ETUAIRC000001	AC120	Accurate universal oven 117 liters	Etuva universala 117 litri
ETUAIRC000002	AC 240	Accurate universal oven 230 liters	Etuva universala 230 litri

Accessories / Accesorii

ETUAIRC000036	Additional stainless steel shelf for AC 60	Etajera inox suplimentara pentru AC 60
ETUAIRC000035	Additional stainless steel shelf for AC 120 et AC 240	Etajera inox suplimentara pentru AC 120 si Ac 240
ETUAIRC000034	Reinforced stainless steel shelf for AC 60	Etajera inox intarita pentru AC 60
ETUAIRC000033	Reinforced stainless steel shelf for AC 120 et AC 240	Etajera inox intarita pentru Ac 120 si AC 240
ETUAIRC000047	Stainless steel water tray / WxDxH 395x350x20 mm	Cuva retinere apa din inox LxPxH 395x350x20 mm
ETUAIRC000007	Stainless steel water tray / WxDxH 495x450x20 mm	Cuva retinere apa din inox LxPxH 495x450x20 mm
ETUAIRC000042	Sub frame H. 150 pour AC120 et 240	Support etuva fara roti H. 150 pentru AC120 si 240
ETUAIRC000041	Sub frame with castors H. 250 for AC 120 et 240	Support etuve cu roti H. 250 pentru AC120 si 240
ETUAIRC000023	AC 120 fitted on castors	AC 120 montat pe 4 roti
ETUAIRC000024	AC 240 fitted on castors	AC 240 montat pe 4 roti
ETUAIRC000048	Stacking kit	Kit pentru asezare

Options / Optiuni

ETUAIRC000045	Adjustable air exchange system for AC 60 et 120	Sistem reglabil pentru improspatare aer AC 60 si 120
ETUAIRC000046	Adjustable air exchange system for AC240 - double admission	Sistem reglabil pentru improspatare aer AC 240 - dubla admisie
ETUAIRC000022	Locking door	Sistem inchidere cu cheie
ETUAIRC000043	Pt 100 Ohms + DIN socket for recorder link	Sonda Pt 100 Ohms + prisa DIN pentru racordarea unui inregistrator
ETUAIRC000016	Circular disc recorder 1 channel	Inregistrator cu disc circular 1 canal
ETUAIRC000017	Electronic recorder 1 channel continuous graph	Inregistrator electronic 1 canal, cu grafic continuu
ETUAIRC000029	6 channels data logger link to Ethernet with a software	Interfata de supraveghere cu 6 canale, program de exploatare. Permite supravegherea in timp real si crearea de fisiere istorice.
ETUAIRC000028	12 channels data logger link to Ethernet with a software	Interfata de supraveghere cu 12 canale, program de exploatare. Permite supravegherea in timp real si crearea de fisiere istorice.
ETUAIRC000005	Over temperature ringing alarm	Alarma sonora de supratemperatura

9 points temperature monitoring performed by independent test organization / Calificare in 9 puncte realizata de un organism independent

PDSQUAL000006	Certificate for 1 oven - 1 set-point	1 etuva - 1 temperatura de consemn
PDSQUAL000004	Additional set point	1 temperatura de consemn
PDSQUAL000007	Certificate for 3 ovens - 1 set-point	3 etuve - 1 temperatura de consemn

Universal Ovens / Etuve Universale : FIU



Applications :

Ovens for drying and hardening applications

Benefits :

Electronic PID controller
dual digital display 1/10° actual and set point
Safety thermostat class 3.1
Double door
Built on castors

Specifications :

Temperature range from 40°C to 200°C
Air circulation
Pt 100 Ohms probe controls
Stainless steel interior
2 Shelves
Power supply 230V triphase or 380 V triphase + neutral

Principalele aplicatii :

Uscare / incalzire / test de rezistenta / serilizare

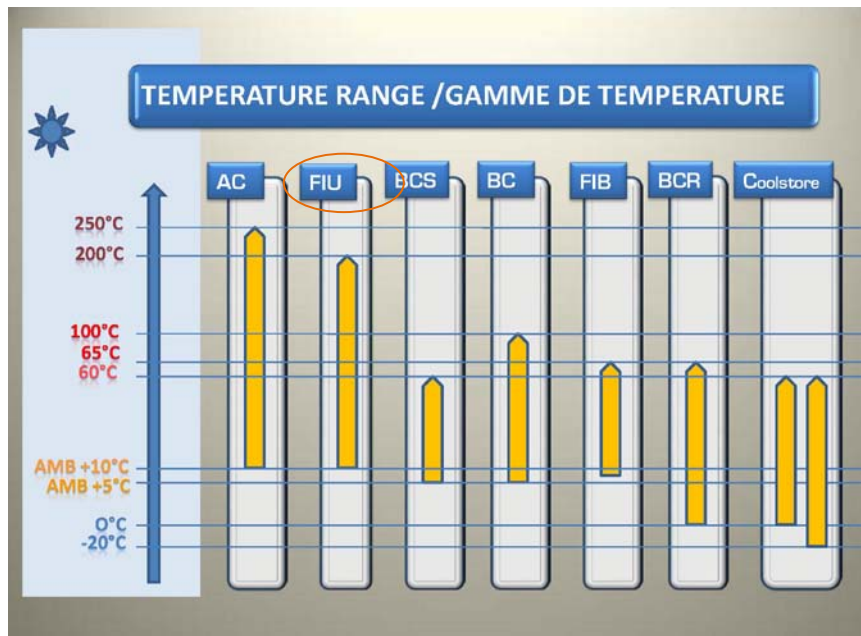
Avantaje :

Parametrare electronica cu PID auto reglant si auto adaptiv.
Afisaj simultan la 1/10° C a temperaturii reale si a consemnului.
Securitate de supratemperatura clasa 3.1
Doua usi
Posibilitate deplasare, pe roti

Specificatii :

Gama de temperatura 40°C la 200°C
Recirculare aer
Control cu sonda Pt 100 Ohms
Interior din otel inoxidabil.
2 etajere
Alimentare 230V trifazata sau 380 V trifazat + neutru

Reference Referinta	Name / Denumire	Volume Volum L	Dimensions (mm) WxHxD/ Dimensiuni lxxhxxp	Power supply/ Alimentare electrica
ETUETGV000005	FI 407 U	407	Internal /Util : 980x740x500 External/Exterior : 1120x1160x700	380 V tri + N
ETUETGV000004				230 V tri
ETUETGV000006				380 V tri without neutral fara neutru
ETUETGV000007	FI 727 U	727	Internal /Util : 1000x1140x600 External/Exterior : 1140x1540x800	380 V tri + N
ETUETGV000009				230 V tri
ETUETGV000008				380 V tri without neutral fara neutru
ETUETGV000002	FI 1007 U	1007	Internal /Util : 1000x1500x600 External/Exterior : 1140x1900x800	380 V tri + N
ETUETGV000001				230 V tri
ETUETGV000003				380 V tri without neutral fara neutru



Reference Referinta	Name / Denumire	Description	Descriere
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Accessories / Accessoires		
INCETGV000003	Additional stainless steel shelf for FI 407 (load 40 kg)	Etajera inox suplimentara pentru FI 407 (suportu 40 kg)
INCETGV000004	Additional stainless steel shelf for FI 727 (load 40 kg)	Etajera inox suplimentara pentru FI 727 (suportu 40 kg)
INCETGV000002	Additional stainless steel shelf for FI 1007 (load 40 kg)	Etajera inox suplimentara pentru FI 1007 (suportu 40 kg)
INCETGV000005	Additional reinforced stainless steel shelf for FI 407 (load 70 kg)	Etajera inox intarita pentru FI 407
INCETGV000006	Additional reinforced stainless steel shelf for FI727 -1007 (load 70 kg)	Etajera inox intarita pentru FI727 à 1007 (supporte 70 kg)
ETUAIRC000007	Stainless steel water tray WxHxD 495x450x20 mm	Cuva refinere apa din inox LxPxH 495x450x20 mm

Options		Optiuni	
INCETGV000007	Air extraction adjustable flow from 0 to 200 m3 / hour	Extractor variabil de aer de la 0 la 200 m3 / ora	
INCETGV000001	2 kneed exhaust diam. 50 and H 250 mm for vertical extraction	2 tuburi cu cot diam. 50 et H 250 mm entru extractie verticala	
ETUAIRC000022	Key lock for FI U	Inchidere cu cheie pentru FIU	
ETUAIRC000032	Timer - 0-300 h 16 adjustable scales	TIMER 0-300 h 16 scale modulabile	
ETUAIRC000038	Daily / weekly digital programmer	Programator orar digital zilnic / saptamanal	
ETUAIRC000039	16 ramps programmable controller for temperature cycling, 1 program	Regulator programabil 16 segmente 1 program pentru ciclu de temperatura	
ETUAIRC000013	Card Extension for 4 programs	Card extensie pentru 4 programe	
ETUAIRC000037	Daily / weekly digital programmer with 2 set-point	Programator saptamanal/zilnic cu dublu consemn	
ETUAIRC000031	"Poupinel" timer, start only when the set-point is reached	Timer "Poupinel" porneste numai cand temperatura setata este atinsa	
ETUAIRC000040	Additional PID controller + Pt 100	Al doi-lea regulator PID + sonda PT100 Ohms	
ETUAIRC000043	Pt 100 Ohms + DIN socket for recorder link	Sonda Pt 100 Ohms + prisa DIN pentru racordarea unui inregistrator	
ETUAIRC000016	Circular disc recorder 1 way	Inregistrator cu disc circular 1 canal	
ETUAIRC000017	Electronic recorder 1 way continuous graph	Inregistrator electronic 1 canal, graphic continuu	
ETUAIRC000005	Over temperature ringing alarm	Alarma sonora de supra temperatura	

9 points temperature monitoring performed by independent test organization / Calificare in 9 puncte realizata de un organism independent		
PDSQUAL000006	Certificate for 1 oven - 1 set-point	1 etuva - 1 temperatura de consemn
PDSQUAL000004	Additional set point	1 temperatura de consemn suplimentara
PDSQUAL000007	Certificate for 3 ovens - 1 set-point	3 etuve-1 temperatura de consemn

Natural convection bacteriological Incubator / Incubatoare bacteriologice cu convecție naturală : BCS



Applications :

For the first time, the BCS incubator range combines natural convection and uniformity required by the control laboratories.
You can carry out your tests without any risk for your most sensitive samples to the dryness.

Benefits :

Electronic PID controller – fuzzy logic
Controls by Pt 100 Ohms probe – double digital display 1/10th
Over temperature security, according to EN61010 norm
Cable entry port diam. 30 mm
Internal glass door

Specifications :

Temperature range; 5°C above ambient up to 65°C
Stainless steel interior
Removable racks
Non tipping shelves - Models stackable onto each other

Principalele aplicatii :

Incubatoarele bacteriologice BIO CONCEPT STATIC asociaza pentru prima oara convecția naturală cu omogenitatea temperaturii ceruta de laboratoarele de control.

Puteți realiza testele dvs. Fara riscul ca esantioanele cele mai sensibile sa se usuce.

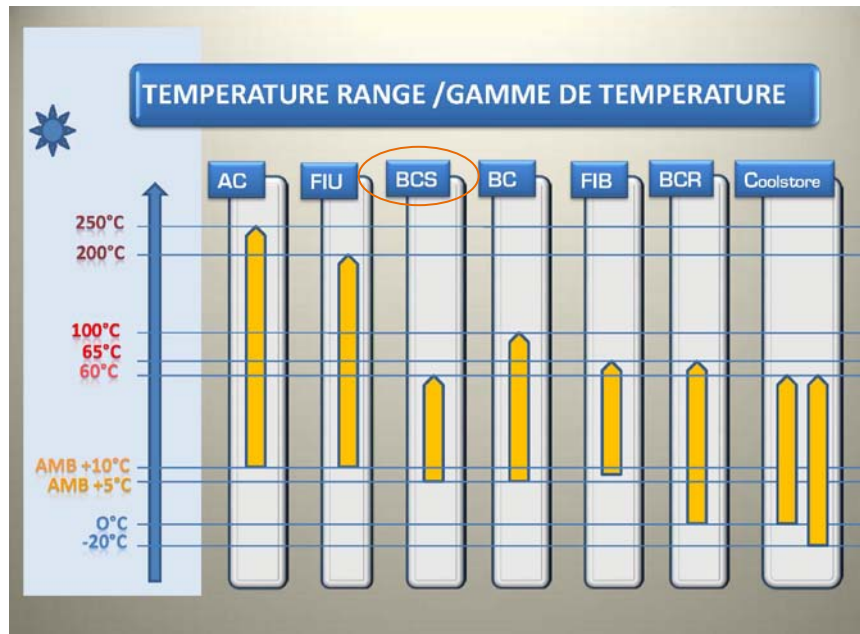
Avantaje :

Controler electronic PID foarte performant
Control cu sonda Pt 100 Ohms – Afisaj digital 1/10° (temperatura reala si consemnul)
Securitate de supratemperatura conform EN61010
Pasaj pentru cablu (sonda suplimentara) diam. 30mm cu buson.
Usa interioara din geam securizata care limiteaza fluctuatiile de temperatura, la deschiderea usii.

Specificatii :

Gama de temperatura : de la temperatura ambianta +5°C la 65°C
Interior inox lustruit care faciliteaza curatarea.
Modele prevazute cu glisiere care permit montarea de etajere perforate mobile cu sistem anti basculare.

Model / Model			BCS 65	BCS 125	BCS 245
Performances					
Uniformity at /Omogenitate temperatura la	37°C	+/- °C	< 1	< 1	< 1
	60°C	+/- °C	< 1.5	< 1.5	< 2
Stability /Stabilitate		+/- °C	< 0.2	< 0.2	< 0.2
Dimensions - volumes					
External dimensions W x D x H		mm	522x536x646	622x636x756	622x636x1236
Dimensiuni exterioare L x P x H					
Internal dimensions W x D x H		mm	400x400x390	500x500x500	500x500x980
Dimensiuni utile L x P x H					
Volume - clear /Volum - util		litri	62.4	125	245
Shelves / Etajere					
Standard number / Numar standard		nbre	2	2	2
Max. number recommended / Nr. max		nbre	21	29	62
Maximum load - by shelf/ total / Incarcare max / etajera /total		Kg	20 / 50	20 / 70	20 / 90
Shelves dimensions WxD / Dimensiuni etajere L x P		mm	380x320	480 x 430	480 x 430
Weight - package dimensions / Greutate - colet					
Net weight / Greutate neta		Kg	39	53	79
Gross weight / Greutate bruta		Kg	54	71	100
Dimensions WxDxH / Dimensiuni colet LxPxH		mm	660x690x810	660x690x900	660x690x1450
Electrical specifications / Caracteristici electrice					
Supply / Alimentare electrica		V / Hz	230 / 50	230 / 50	230 / 50
Power / Putere		W	300	500	500



Reference Referinta	Name / Denumire	Description	Descriere
Universal Ovens / Incubatoare convecție naturala			
INCBIOS000003	BCS 65	Natural convection incubator 62.4 liters	Incubator bacteriologic cu convecție naturala 62.4 litri
INCBIOS000001	BCS 125	Natural convection incubator 125 liters	Incubator bacteriologic cu convecție naturala 125 litri
INCBIOS000002	BCS 245	Natural convection incubator 245 liters	Incubator bacteriologic cu convecție naturala 245 litri
Accessories / Accesorii			
INCBIOS000005	Additional stainless steel shelf for BCS 65		Etajere suplimentare pentru BCS 65
INCBIOS000004	Additional stainless steel shelf BCS 125 et BCS 245		Etajere suplimentare pentru BCS125/245
INCBIOC000013	Lowenstein tray 42 tubes diam. 16 mm H. 170 mm for BCS125 and 245		Platou Lowenstein cu 42 tuburi diam. 16 mm L. 170 mm pentru BCS120 si 240
INCBIOC000014	Lowenstein tray 63 tubes diam. 18 mm H. 140 mm for BCS125 and 245		Platou Lowenstein cu 63 tuburi diam. 18 mm L. 140 mm pentru BCS120 si 240
INCBIOC000015	Stainless steel wire rack for 6 x 6 Petri boxes diam. 90mm for BCS65		Cutie din fir inox 6x6 cuti petri diam. 90mm pentru BCS60
INCBIOC000016	Stainless steel wire rack for 6 x 9 Petri boxes diam. 90mm for BCS125 and 245		Cutie fir inox pentru 9x6 cuti petri diam. 90mm pentru BCS120 si BC240
ETUAIRC000023	BCS 125 fitted with 4 castors		4 roti cu frana, montaj pe BCS 125
ETUAIRC000024	BCS 245 fitted with 4 castors		4 roti cu frana, montaj pe BCS 245
ETUAIRC000030	Stacking kit		Kit pentru asezare
Options / Optiuni			
ETUAIRC000022	Key locking door		Inchidere cu cheie
ETUAIRC000043	Pt 100 Ohms + DIN socket for recorder link		Sonda Pt 100 Ohms + prisa DIN pentru racordarea unui inregistrator
ETUAIRC000016	Circular disc recorder 1 way		Inregistrator pe disc circular 1 canal
ETUAIRC000017	Electronic recorder 1 way continuous graph		Inregistrator electronic 1 canal, graphic continuu
ETUAIRC000005	Over temperature ringing alarm		Alarma sonora pentru supratemperatura
9 points temperature monitoring performed by independent test organization / Calificare in 9 puncte realizata de un organism independent			
PDSQUAL000006	Certificate for 1 oven - 1 set-point		1 incubator - 1 temperatura de consemn
PDSQUAL000004	Additional set point		1 temperatura de consemn suplimentara
PDSQUAL000007	Certificate for 3 ovens - 1 set-point		3 incubatoare-1 temperatura de consemn

Bacteriological incubators / Incubatoare bacteriologice cu Ventilatie fortata : BC



Applications:

This Incubator range was designed to meet the requirements of biological and medical analysis laboratories, allowing them to have higher requirement than present norms

Benefits:

Really efficient electronic PID controls
Pt 100 Ohms probe
dual digital display 1/10° actual and set point
Integrated programming function
Temperature cycle up to 4 temperatures
High and low temperature alarms
✓ **Sterilization cycle: +160°C for 2h30**
Internal glass door
Safety thermostat class 3.1 for over temperature
Cable entry port diam. 30 mm with lid, center left side

Specifications :

Temperature range from ambient +5°C to 100°C
Ventilation to optimize temperature uniformity
Brush stainless steel interior for easy cleaning and disinfection
Model fitted with non-tipping adjustable perforated shelves
Stackable to each other

Principalele aplicatii :

Gama de incubatoare bacteriologice BIO CONCEPT a fost dezvoltata pentru a raspunde nevoilor laboratoarelor biologice de analize medicale, hospitaliere si private ceea ce le permite sa aiba exigente superioare normelor actuale.

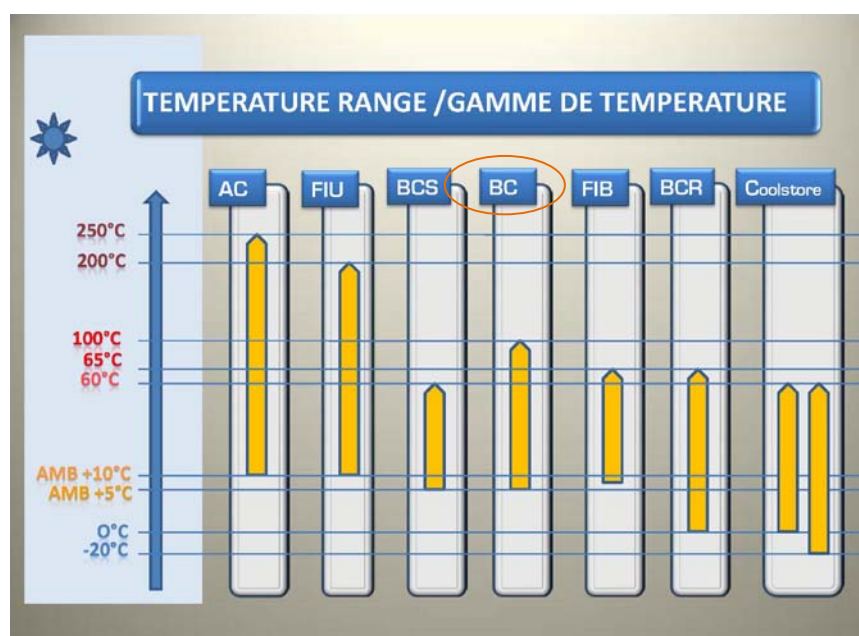
Avantaje :

Controler electronic PID cu auto reglare si autoadaptiv
Control cu sonda Pt 100 Ohms
Afisaj simultan cu 1/10°C a temperaturii reale si consemnului.
Funcție de prigramare integrata in regulator.
Programare de cicluri de temperatura, pana la 4 temperaturi
Alarma de temperatura inalta si joasa.
✓ **Ciclu sterilizare : 160°C pentru 2h30 min**
Usa interioara din geam securizat
Termostat de securitate clasa 3.1
Pasaj de cablu diam. 30mm cu un buson

Specificatii :

Gama de temperatura : de la temperatura ambienta +5°C la 100°C
Ventilatie pentru a optimiza omogenitatea temperaturii
Modelele se pot aseza si unele peste altele cu KIT-ul optional
Interior inox lustruit, usurand operatia de curatare.
Etajere anti basculante

Model / Model			BC 60	BC 120	BC 240
Performances					
Uniformity at / Omogenitate temperatura la	37°C	+/- °C	< 0.5	< 0.5	< 0.5
	60°C	+/- °C	< 1	< 1	< 1
Stability / Stabilitate		+/- °C	< 0.2	< 0.2	< 0.2
Dimensions - Dimensiuni					
External dimensions W x D x H		mm	522x540x622	622x640x732	622x640x1212
Dimensiuni exterioare L x P x H					
Internal dimensions W x D x H		mm	400x355x390	500x455x500	500x455x980
Dimensiuni etile L x P x H					
Volume - clear / total (including air fan volute)		litres	56 / 64	114 / 127	223 / 250
Volum util / total (cu protectia ventilator)					
Shelves / Etajere					
Standard number / Nr. standard		nbre	2	2	2
Max. number recommended / Nr. max.		nbre	6	10	18
level position available / Nivel de reglaj			21	29	62
Maximum load - by shelf/ total / Incarcare max pe etajera / total		Kg	20 / 50	20 / 70	20 / 90
Shelves dimensions WxD / Dimensiuni etajere L x P		mm	380x320	480 x 435	480 x 435
Weight - package dimensions / Greutate - colet					
Net weight / Greutate neta		Kg	40	55	82
Gross weight / Greutate bruta		Kg	54	71	99
Dimensions WxDxH / Dimensiuni colet LxPxH		mm	660x690x810	660x690x900	660x690x1450
Electrical specifications / Caracteristici electrice					
Supply / Alimentare		V / Hz	230 / 50	230 / 50	230 / 50
Power / Putere		W	750	750	1500



Reference Referinta	Name / Denumire	Description	Descriere
Bacteriological incubator / Incubatoare bacteriologice			
NCBIOC000003	BC 60	Natural convection incubator 62.4 liters	Incubator bacteriologic ventilat 56 litres
NCBIOC000001	BC 120	Natural convection incubator 125 liters	Incubator bacteriologic ventilat 114 litres
NCBIOC000002	BC 240	Natural convection incubator 245 liters	Incubator bacteriologic ventilat 223 litres
Accessories / Accesorii			
ETUAIRC000036	Additional stainless steel shelf for BC 60		Etajere inox suplimentare pentru BC 60
ETUAIRC000035	Additional stainless steel shelf BC 120 et BC 240		Etajere inox suplimentare pentru BC 120 si BC 240
INCBIOC000013	Lowenstein tray 42 tubes diam. 16 mm H. 170 mm for BC120 and 240		Platou Lowenstein pentru 42 tuburi diam. 16 mm L. 170 mm pentru BC120 et 240
INCBIOC000014	Lowenstein tray 63 tubes diam. 18 mm H. 140 mm for BC120 and 240		Platou Lowenstein pentru 63 tuburi diam. 18 mm L. 140 mm pentru BC120 si 240
ETUAIRC000042	Sub frame H. 150 for BC120 et 240		Cadru sustinere fara roti H. 150 pentru BC120 si 240
ETUAIRC000041	Sub frame with castors H. 250 for BC120 et 240		Cadru sustinere cu roti H. 250 pentru BC120 si 240
ETUAIRC000023	BC 120 fitted with 4 castors		4 roti cu frana fixate dedesubt BC 125
ETUAIRC000024	BC 240 fitted with 4 castors		4 roti cu frana fixate dedesubt BC 245
ETUAIRC000047	Stainless steel water tray WxDxH 395x350x20 mm		Cutie inox recuperare apa si umiditate LxPxH 395x350x20 mm
ETUAIRC000007	Stainless steel water tray WxDxH 495x450x20 mm		Cutie retentie apa inox LxPxH 495x450x20 mm
INCBIOC000015	Stainless steel wire rack for 6 x 6 Petri boxes diam. 90mm for BC60		Cos din fir inox pentru 6x6 cutii petri diam. 90mm pentru BC60
INCBIOC000016	Stainless steel wire rack for 6 x 9 Petri boxes diam. 90mm for BC120 and BC240		Cos fir inox pentru 9x6 cutii petri diam. 90mm pentru BC120 si BC240
ETUAIRC000030	Stacking kit		Kit pentru aranjare
Options		Optiuni	
ETUAIRC000022	Key locking door		Inchidere cu cheie
ETUAIRC000043	Pt 100 Ohms + DIN socket for recorder link		Sonda Pt 100 Ohms + prisa DIN pentru racordarea unui inregistrator
ETUAIRC000016	Circular disc recorder 1 way		Inregistrator cu disc circular 1 canal
ETUAIRC000017	Electronic recorder 1 way continuous graph		Inregistrator electronic 1 canal, graphic continuu
9 points temperature monitoring performed by independent test organization / Calificare in 9 puncte realizata de un organism independent			
PDSQUAL000006	Certificate for 1 oven - 1 set-point		1 incubator - 1 temperatura de consemn
PDSQUAL000004	Additional set point		1 temperatura de consemn suplimentara
PDSQUAL000007	Certificate for 3 ovens - 1 set-point		3 incubatoare-1 temperatura de consemn

Bacteriological incubators / Incubatoare bacteriologice : FIB



Applications :

Destinated to incube in biological environments

Benefits :

Digital display and electronic PID controller
dual digital display 1/10° actual and set point
Safety thermostat class 3.1
Double door – cable entry port diam 29mm.
Built on castors

Specifications :

Temperature range: from ambient +7°C to 65°C
Air circulation
Pt 100 Ohms probe controls
Stainless steel interior
2 Shelves
Power supply 230V /50Hz

Principalele aplicatii :

Destinate pentru incubatie in medii bacteriologice.

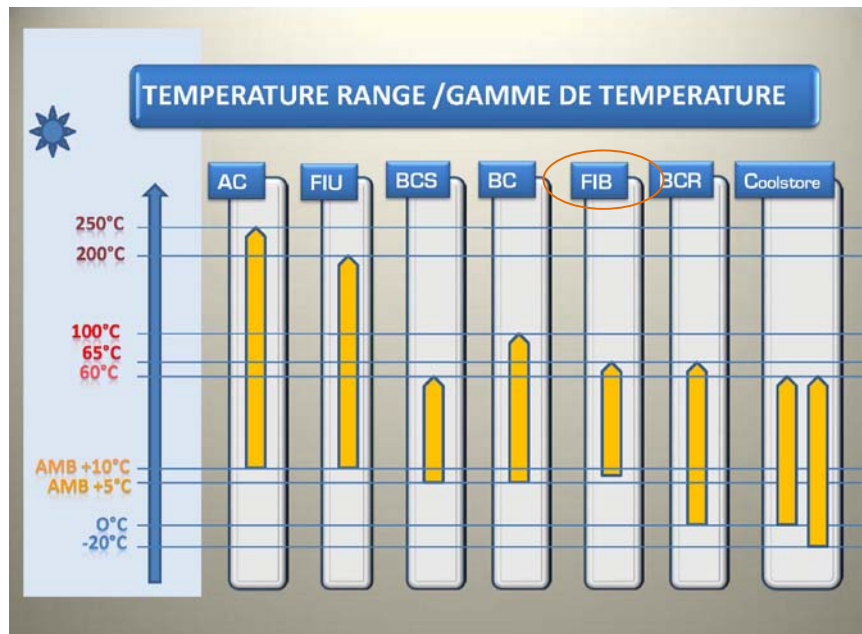
Avantaje :

Controler electronic PID cu autoreglare si autoadaptiv.
Afisaj simultan 1/10 °C temperatura reala si temperatura de consemn.
Termostat de securitate clasa 3.1
Usi duble. Pasaj cablu diam 29 mm.
Montaj pe 4 roti cu frana.

Specificatii :

Gama de temperatura : temperatura ambienta +7°C la +65 °C.
Recirculare aer pentru optimizarea omogenitatii temperaturii.
Control cu sonda PT 100.
Interior din otel – inox.
Livrate cu 2 etajere.
Alimentare electrica 230 V / 50 Hz.

Reference Referinta	Name / Denumire	Volume (l) Volum (l)	Dimensions w x h x d (mm) Dimensiuni exterioare l x L x h (mm)
INCINGV000002	FI 407B	407	980x740x500 1120x1160x700
INCINGV000003	FI 727B	727	1000x1140x600 1140x1540x800
INCINGV000001	FI 1007B	1007	1000x1500x600 1140x1900x800



Reference Referinta	Name / Denumire	Description	Descriere
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Accessories / Accesorii

INCETGV000003	Additional stainless steel shelf for FI 407 (load 40 kg)	Etajera inox suplimentara pentru FI 407 (suportă 40 kg)
INCETGV000004	Additional stainless steel shelf for FI 727 (load 40 kg)	Etajera inox suplimentara pentru FI 727 (suportă 40 kg)
INCETGV000002	Additional stainless steel shelf for FI 1007 (load 40 kg)	Etajera inox suplimentara pentru FI 1007 (suportă 40 kg)
INCETGV000005	Additional reinforced stainless steel shelf for FI 407 (load 70 kg)	Etajera inox intarita pentru FI 407 (suportă 70 kg)
INCETGV000006	Additional reinforced stainless steel shelf for FI727 -1007 (load 70 kg)	Etajera inox intarita pentru FI727 la 1007 407 (suportă 70 kg)
ETUAIRC000007	Stainless steel water tray WxHxD 495x450x20 mm	Cutie retinere apa din inox LxIxH 495x450x20 mm
INCBIOC000013	Lowenstein tray 42 tubes diam. 16 mm H. 170 mm	Platou Lowenstein pentru 42 tuburi diam. 16 mm L. 170 mm
INCBIOC000014	Lowenstein tray 63 tubes diam. 18 mm H. 140 mm for	Platou Lowenstein pentru 63 tuburi diam. 18 mm L. 140 mm
INCBIOC000016	Stainless steel wire rack for 6 x 9 Petri boxes diam. 90mm	Cos din fir inox pentru 9x6 cutii petri diam. 90mm

Options

Optiuni

ETUAIRC000022	Key lock for FI U	Inchidere cu cheie FIU
NCBIOC000004	Internal lighting - 1 lamp with switch on the control panel	Iluminat interior cu un buton de comanda pe panou
ETUAIRC000032	Timer - 0-300 h 16 adjustable scales	Timer 0-300 h 16 paliere ajustabile
ETUAIRC000038	Daily / weekly digital programmer	Programator orar digital zilnic / saptamanal
ETUAIRC000037	Daily / weekly digital programmer with 2 set-point	Programator zilnic / saptamanal cu dublu consemn
ETUAIRC000040	Additional PID controller + Pt 100 high / low safety device - temperature check	Al doilea controler + sonda Pt100 Ohms
ETUAIRC000043	Pt 100 Ohms + DIN socket for recorder link	Sonda Pt 100 Ohms + prisa DIN pentru racordarea unui inregistrator
ETUAIRC000016	Circular disc recorder 1 way	Inregistrator cu disc circular 1 canal
ETUAIRC000017	Electronic recorder 1 way continuous graph	Inregistrator electronic 1 canal, graphic continuu
ETUAIRC000005	Over temperature ringing alarm	Alarma sonora de supra-temperatura

9 points temperature monitoring performed by independent test organization / Calificare in 9 puncte realizata de un organism independent

PDSQUAL000006	Certificate for 1 oven - 1 set-point	1 incubator - 1 temperatura de consemn
PDSQUAL000004	Additional set point	1 temperatura de consemn suplimentara
PDSQUAL000007	Certificate for 3 ovens - 1 set-point	3 incubatoare-1 temperatura de consemn

Cooled incubators / Incubatoare de precizie refrigerante : BCR



Applications:

This incubator range allows you to work at temperatures close to the ambient or lower. They are used for cell growth, bacteriology...

Benefits:

Really efficient electronic PID controller
Pt 100 Ohms probe controls
Dual digital display 1/10° (real and set-point)
Safety thermostat class 3.1
Internal Glass door avoiding temperature drop when opening
Cable entry port diam. 30 mm centre left side with lid

Specifications:

Temperature range from 0°C to 65°C
Air circulation for temperature uniformity
Brushed stainless steel for easy cleaning and disinfection
Model fitted with non-tipping adjustable perforated shelves
Stackable to each other

Aplicatii :

Incubatoarele Bio Concept Refrigerante va permit sa lucrati la temperaturi apropiate sau mai joase fata de ambient. Pot fi utilizate in aplicatii de : culturi celulare, bacteriologice...

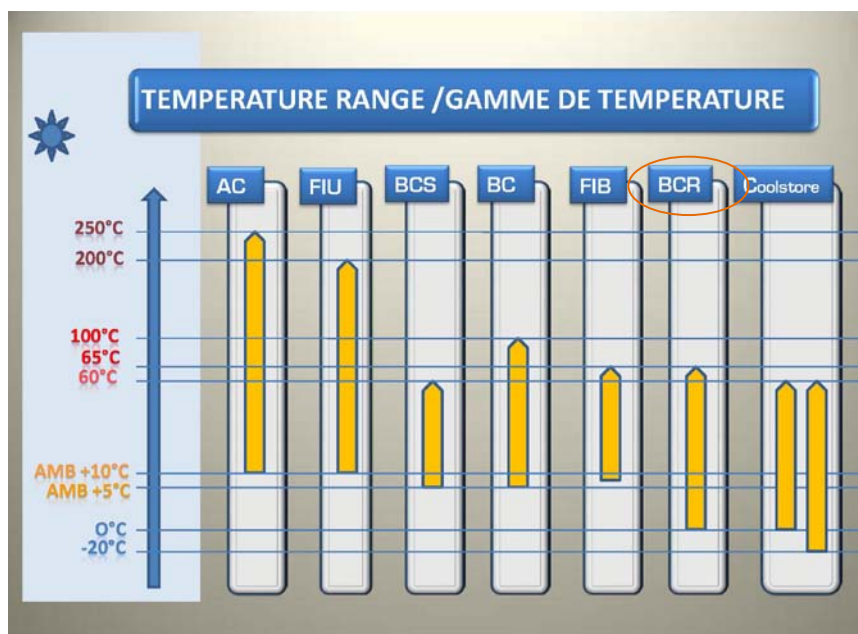
Avantaje :

Controler electronic PID
Afisaj digital 1/10° temperatura reala si de consemn
Control cu sonda Pt 100 Ohms -
Securitate de supra - temperatura clasa 3.1
Usa interioara din geam securizat, care limiteaza variatiile de temperatura la deschiderea usii.
Pasaj cablu diam. 30mm

Specificatii :

Temperatura reglabila de la 0°C la 65°C
Recirculare aer pentru optimizarea omogenitatii temperaturii.
Interior inox lustruit pentru a facilita operatia de curatare si dezinfectare.
Modele prevazute cu glisiera care permit montarea de etajere perforate mobile cu sistem anti basculare.
Permit aranjarea una peste alta.

Model / Model		BCR 60	BCR 120	BCR 240
Performances				
Uniformity at /Omogenitate temperatura la 5°C	+/- °C	< 0.7	< 0.7	< 0.7
	+20°C	+/- °C < 0.5	< 0.5	< 0.5
	+37°C	+/- °C < 0.5	< 0.5	< 0.5
	+60°C	+/- °C < 1	< 1	< 1
Stability / Stabilitate	+/- °C	< 0.2	< 0.2	< 0.2
Recovery time after 60'open door	min	1'30	2	2
Dimensions - Dimensiuni				
External dimensions W x D x H	mm	522x540x942	622x640x1052	622x640x1532
Dimensiuni exterioare L x P x H				
Internal dimensions W x D x H	mm	400x355x390	500x455x500	500x455x980
Dimensiuni utile L x P x H				
Volume - clear / total (including air fan volute)	litres	56 / 64	114 / 127	223 / 250
Volum - util / total (cu protectia ventilator)				
Shelves / Etajere				
Standard number / Nr. standard	nbre	2	2	2
Max. number recommended / Nr. max.	nbre	6	10	18
level position available / Nivele de reglare		21	29	62
Maximum load - by shelf/ total / Incarcare max /totala	Kg	20 / 50	20 / 70	20 / 90
Shelves dimensions WxD / Dimensiuni etajre L x l	mm	380x320	480 x 435	480 x 435
Weight - package dimensions / Greutate - colet				
Net weight / Greutate neta	Kg	71	88	114
Gross weight / Greutate bruta	Kg	85	94	132
Dimensions WxDxH / Dimensiuni colet LxIxH	mm	660x690x1130	660x690x1220	660x690x1770
Electrical specifications / Caracteristici electrice				
Supply / Alimentare electrica	V / Hz	230 / 50	230 / 50	230 / 50
Power / Putere	W	1650	1650	2400
Power consumption at 20°C/Consum electric la +20°C	W	460	460	650



Reference Referinta	Name / Denumire	Description	Descriere
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Cooled Incubators / Incubatoare refrigerante

INCBIOR000003	BCR 60	Cooled incubator 56 liters ,	Incubator refrigerant 56 litri
INCBIOR000001	BCR 120	Cooled incubator 114 liters	Incubator refrigerant 114 litri
INCBIOR000002	BCR 240	Cooled incubator 223 liters	Incubator refrigerant 223 litri

Accessories / Accesorii

ETUAIRC000036	Additional stainless steel shelf for BCR 60	Etajera inox suplimentare pentru BCR 60
ETUAIRC000035	Additional stainless steel shelf BCR 120 et BCR 240	Etajera inox suplimentare pentru BCR 120 si BC R240
INCBIOC000013	Lowenstein tray 42 tubes diam. 16 mm H. 170 mm for BCR120 and 240	Platou Lowenstein pentru 42 tuburi diam. 16 mm L. 170 mm pentru BC120 si 240
INCBIOC000014	Lowenstein tray 63 tubes diam. 18 mm H. 140 mm for BCR120 and 240	Platou Lowenstein pentru 63 tuburi diam. 18 mm L. 140 mm pentru BC120 si 240
INCBIOR000006	BCR 60 fitted with 4 castors	4 roti fixate sub BCR60
INCBIOR000004	BCR 120 fitted with 4 castors	4 roti fixate sub BCR120
INCBIOR000005	BCR 240 fitted with 4 castors	4 roti fixate sub BCR240
ETUAIRC000047	Stainless steel water tray WxDxH 395x350x20 mm	Cutie retinere apa din inox LxIxh 395x350x20 mm
ETUAIRC000007	Stainless steel water tray WxDxH 495x450x20 mm	Cutie retinere apa din inox LxIxh 495x450x20 mm
INCBIOC000015	Stainless steel wire rack for 6 x 6 Petri boxes diam. 90mm for BC60	Cos din fir inox pentru 6x6 cutii petri diam. 90mm pentru BCR60
INCBIOC000016	Stainless steel wire rack for 6 x 9 Petri boxes diam. 90mm for BCR120 and BCR240	Cos fri inox pentru 9x6 cutii petri diam. 90mm pentru BCR120 si BCR240

Options

Options	Optiuni	
ETUAIRC000022	Key locking door	Inchidere cu cheie
ETUAIRC000043	Pt 100 Ohms + DIN socket for recorder link	Sonda Pt 100 Ohms + prisa DIN Pentru racordarea unui inregistrator
INCBIOC000017	Internal socket (220v)	Priza interioara (220v)
ETUAIRC000016	Circular disc recorder 1 way	Inregistrator cu disc circular 1 canal
ETUAIRC000017	Electronic recorder 1 way continuous graph	Inregistrator electronic 1 canal, grafic continuu

9 points temperature monitoring performed by independent test organization / Calificare in 9 puncte realizata de un organism independent

PDSQUAL000006	Certificate for 1 oven - 1 set-point	1 incubator - 1 temperatura de consemn
PDSQUAL000004	Additional set point	1 temperatura de consemn suplimentara
PDSQUAL000007	Certificate for 3 ovens - 1 set-point	3 incubatoare-1 temperatura de consemn

Cooled incubators / Incubatoare refrigerante de mare volum : COOLSTORE



Applications:

The "COOLSTORE" are adapted for incubation, germination, growth... applications

The two temperature range 0°C or -20°C enlarge the application panel without effect on the uniformity and stability metrological performances.

Benefits:

Really efficient electronic PID controller

Pt 100 Ohms probe controls

Dual digital display 1/10° (real and set-point)

Safety thermostat class 3.1

Cable entry port diam. 35 mm

Specifications:

The two temperature range 0°C to +60°C or -20°C to +60°C

Air circulation for temperature uniformity

Stainless steel for easy cleaning and disinfection

Aplicatii :

Incubatoarele « COOLSTORE » sunt perfect adaptate pentru aplicatii de incubare, germinare, culturi...

Cele doua game de temperaturi 0° C si -20° C permit largirea domeniului de aplicatie ale acestor aparate fara a altera performantele metrologice de omogenitate si de stabilitate.

Avantaje :

Controler electronic cu PID.

Afisaj digital 1/10°, temperatura reala si consemnul.

Control cu sonda PT 100.

Securitate de supra-temperatura clasa 3.1

Pasaj pentru cablu diam. 35mm

Specificatii:

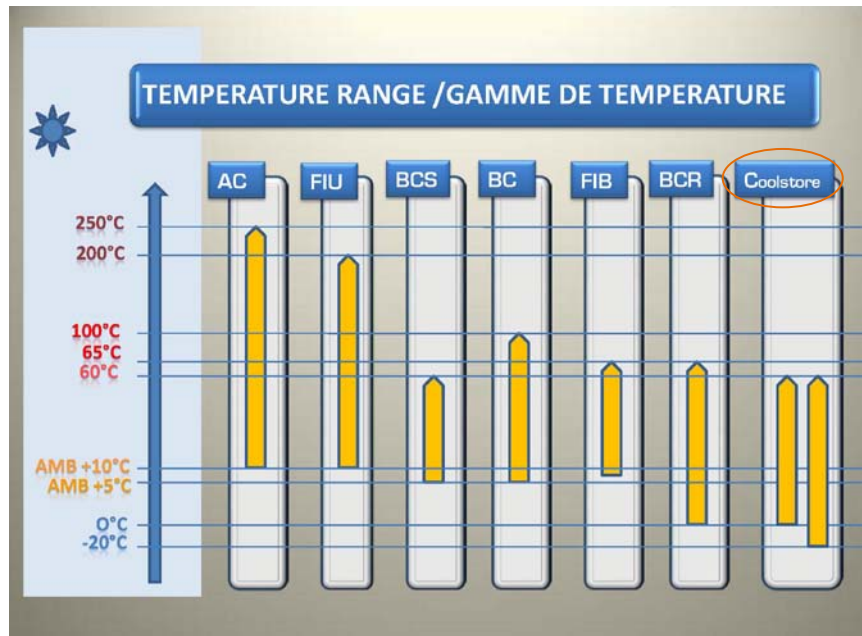
Doa game de temperatura de la 0° C la + 60° C si

- 20° C la + 60° C.

Recircularea aerului pentru optimizarea omogenitatii temperaturii.

Interior si exterior din inox, ceea ce usureaza operatia de curatare si dezinfectare.

Reference Referinta	Name / Denumire	Volume (l) Volum (l)	Temperature Temperatura	Dimensions wxhxd Dimensiuni lxLxh (mm)	Door nb/ Nr. de usi
INCMEDI000003	COOLSTORE 600/0	600	0°C -> +60°C	Ext :700x830x2130 Int :625x570x1440	1
INCMEDI000001	COOLSTORE 1300/0	1200		Ext : 1430x830x2130 Int :1400x670x1450	2
INCMEDI000004	COOLSTORE 600/-20	600	-20°-> +60°C	Ext :700x830x2130 Int :625x570x1440	1
INCMEDI000002	COOLSTORE 1300/-20	1200		Ext : 1430x830x2130 Int :1400x670x1450	2



Reference	Name / Appellation	Description
Accessories / Accesorii		
CLIMEDH000012	Additional shelf for model 600	Etajere suplimentare pentru modelul 600 1 etajera pe nivel
CLIMEDH000013	Additional shelf for Model 1300 2 side + middle	Set de etajere suplimentare pentru modelul 1300 3 etajere pe nivel
INCETGV000008	Additional cable entry port (max 6)	Pasaj pentru cablu diam. 35mm (max 6)
Options Optiuni		
ETUAIRC000043	Pt 100 Ohms + DIN socket for recorder link	Sonda PT 100 + priza DIN pentru racordarea unui inregistrator
ETUAIRC000016	Circular disc recorder 1 way	Inregistrator cu un disc circular 1 canal
ETUAIRC000005	Over temperature ringing alarm	Alarma de supra-temperatura
CLIMEDH000006	Automatic defrost (recommended between 0 and +10°C)	Dezghetare automata. Recomandata pentru o utilizare de la 0 la +10°C
9 points temperature monitoring performed by independent test organization / Calificari in 9 puncte realizata de un organism independent		
PDSQUAL000006	Certificate for 1 oven - 1 set-point	1 incubator - 1 temperatura de consemn
PDSQUAL000004	Additional set point	1 temperatura de consemn suplimentara
PDSQUAL000007	Certificate for 3 ovens - 1 set-point	3 incubatoare-1 temperatura de consemn

Climatic cabinets for ICH tests / Camere climatice pentru test ICH : MEDITEST

ICH Norm guideline Q1A Norma ICH Guideline Q1A	Uniformity for couple temperature/humidity / Omogenitate pentru cuplu de temperatura / umiditate	Performance according to afnor norm NFX 15-140 / Performante in concordanta cu norma NFX 15-140
Long term stability tests 12 months <i>Stabilitate pe termen lung 12 luni</i>	+25°C / 60%HR	+/- 2°C +/- 5%
	+30°C / 60%HR	+/- 2°C +/- 5%
Accelerated ageing tests 6 months <i>Accelerare test imbatranire 6 luni</i>	+40°C / 75%HR	+/- 2°C +/- 5%
Intermediary condition <i>Conditie intermediara</i>	+30°C / 60%HR	+/- 2°C / +/- 5%
Tests for semi-permeables <i>Test pentru semi-permeabilitate</i>		
Long term stability tests <i>Stabilitate lung timp</i>	+25°C / 40%HR	+/- 2°C +/- 5%
Accelerated ageing tests <i>Imbatranire accelerata</i>	+40°C / 25%HR	+/- 2°C +/- 5%



Applications:

The ICH tests are proceed on drugs and active principals in order to test their stability in long term and their ageing resistance before their launch on the market

Benefits:

Double auto-tune electronic PID controller
Dual digital display, real and set point
Pt 100 Ohms probe controls
RH by capacitive sensor
Ultrasonic humidity generator
Safety thermostat class 3.1
Cable entry port diam. 35 mm
Key locking doors

Specifications:

Temperature range +10°C to 60°C
Relative humidity from 40% to 90% RH
Air circulation for temperature uniformity
Stainless steel interior and exterior for easy cleaning and disinfection
Fitted with castors, 2 auto-breaking
Automatic demineralised water supply by supple tube

Aplicatii:

Testele ICH sunt practicate pentru medicamente pentru a determina stabilitatea acestora pe termen lung, precum si rezistenta acestora la imbatranire, inainte de a se pune pe piata.

Avantaje:

Dublu controler electronic PID autoreglant.
Afisaj digital temperatura reala si consmn.
Control temperatura cu sonda PT 100 Ohms.
Masura HR cu senzor capacitiv.
Generator umiditate cu ultrasunete.
Securitate la supra-temperatura clasa 3.1
Pasaj cablu diam. 35 mm, cu buson
Inchidere cu cheie.

Specificatii:

Gama de temperatura de la +10°C la 60 °C.
Umiditate relativa de la 40% la 90% HR.
Recirculare aer pentru uniformitatea temperaturii.
Interior si exterior din inox pentru a facilita curatarea si dezinfectarea
Montaj pe 4 roti, doua cu auto-blocare.
Alimentare automata cu apa demineralizata prin racord flexibil.

Reference Referinta	Name/ Denumire	Dimensions wxhxd / Dimensiuni lxlxh (mm)	Door nb/ Nr. De usi	Description	Descriere
CLIMEDH000008	MEDITEST 600	Ext :700x830x2130 Int :625x570x1440	1	Climatic cabinet Warm Cold Humidity 600 liters, 4 shelves	Camera climatica cald, frig, umiditate 600 litri, 4 etajere
CLIMEDH000007	MEDITEST 1300	Ext : 1430x830x2130 Int :1400x670x1450	2	Climatic cabinet Warm Cold Humidity 1350 liters, 8 shelves	Camera climatica cald, frig, umiditate 1350 litres, 8 etajere

Model / Model			MEDITEST 600	MEDITEST 1300
Performances				
Uniformity at ICH tests conditions/ Omogenitate pentru conditii de test ICH	T Hr	+/- °C +/- %	< 1 < 3	< 1 < 3
Stability / Stabilitate		+/- °C	< 0.2	< 0.2
Gamme de température Gamme d'humidité		%HR	+10 à +60°C de 40 à 90%	+10 à +60°C de 40 à 90%
Dimensions - volumes				
External dimensions W x D x H Dimensiuni exterioare L x l x H		mm	765x700x1990	1530x800x1990
Internal dimensions W x D x H Dimensiuni utile L x l x H		mm	625x570x1440	1250x670x1440
Volume - clear / total (including air fan volute) Volum - util / total (cu protectie ventilator)		litres	550 / 550	1300 / 1400
Shelves / Etajere				
Standard number / Nr. standard		nbre	4	2x4
Max. number recommended / Nr. max.		nbre	8	2x8
level position available / Nivele de reglare			30	2x30
Maximum load - by shelf/ total / Incarcare maxima pe etajera / total		Kg	50 / 300	50 / 300
Shelves dimensions WxD / Dimensiuni etajere L x l		mm	530x655	2x(530x655)+(230x500)
Weight - package dimensions / Greutate - colet				
Net weight / Greutate neta		Kg	40	55
Gross weight / Greutate bruta		Kg	54	71
Dimensions WxDxH / Dimensiuni colet LxIxH		mm	660x690x810	660x690x900
Electrical specifications / Specificatii electrice				
Supply / Alimentare cu electricitate		V / Hz	230 / 50	230 / 50
Power / Putere		W	750	750
Water consumption / Consum de apa		L/24h	0.3 à 0.5	0.3 à 0.5
Power to keep 20°C / Putere pentru mentinere la 20°C		W	460	650

Reference Referință	Name / Denumire	Description	Descriere
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Accessories /		Accesorii
CLIMEDH000012	1 stainless steel shelf for MEDITEST 600 Dim : WxD 530 x 655 mm / 2 stands	Etajere suplimentare pentru modelul 600 (1 etajera pe nivel Dim : Lxl 530 x 655 mm / 2 suportii)
LIMEDH000013	Set of 3 stainless steel shelves for MEDITEST 1300 Dim : WxD 530 x 655 mm / 4 stands	Set de etajere suplimentare pentru modelul 1300 3 etajere pe nivel Dim: LxP 530 x 655 mm /4 suportii

Options		Optiuni
CLIMEDH000004	Manual demineralised water supply by 10 Liters tank on the top	Alimentare manuala cu apa demineralizata dintr-un rezervor de 10 litri plasat pe aparat.
CLIMEDH000019	Automatic water feed from resin cartridge allowing direct connection to tap water	Rezervor echipat cu o butelie de rasina conectat permanent la retea de apa.
CLIMEDH000018	Dry contact output for alarm report - For MEDITEST 600 et 1300	Iesiri prin contact sec pentru alarme, pentru MEDITEST 600 si 1300
CLIMEDH000003	Over-temperature audible alarm	Alarma sonora de supra-temperatura
CLIMEDH000002	Over-humidity audible alarm	Alarma sonora de supra-umiditate
CLIMEDH000001	Lack of water audible alarm	Alarma sonora lipsa apa
CLIMEDH000021	Additional relative humidity sensor	Senzor suplimentar pentru umiditate
CLIMEDH000020	Additional Pt100 Ohms probe for temperature	Sonda suplimentara pentru temperatura - tip Pt100 Ohms
ETUAIIRC000039	16 ramps programmable controller for temperature cycling, 1 program	Controler programabil cu 16 rampe + 1 program pentru ciclul de temperatura
ETUAIIRC000012	Card Extension for 4 programs	Card extensie 4 programe
ETUAIIRC000029	6 channels data logger link to Ethernet with a software	Inerfata cu 6 canale racordata la o retea inernet cu soft de exploatare
ETUAIIRC000028	12 channels data logger link to Ethernet with a software	Inerfata cu 12 canale racordata la o retea inernet cu soft de exploatare
CLIMEDH000009	Electronic recorder 2 ways, continuous graph	Inregistrator electronic 2 canale, grafic continuu
CLIMEDH000010	Electronic recorder 4 ways, continuous graph	Inregistrator electronic 4 canale, grafic continuu
CLIMEDH000011	Electronic recorder 6 ways, multi-points graph	Inregistrator electronic 6 canale, grafic multipunct
CLIMEDH000016	Pleated paper for recorder	Coli diagrama pentru inregistrator
CLIMEDH000014	Roll paper for recorder	Hartie diagrama in rola pentru inregistrator
CLIMEDH000023	Pen for recorder, type and color to precise	Varf pana pentru inregistrator, a ne comunica modelul si culoarea

9 points temperature monitoring performed by independent test organization / Calificare in 9 puncte realizata de un organism independent		
PSDQUAL000008	Certificate for one cabinet - 1 set-point, temperature and humidity	1 temperatura de consemn + 1 consemn HR asociat
PSDQUAL000009	Certificate for three cabinets - 1 set-point, temperature and humidity	1 temperatura de consemn + 1 consemn HR asociat pentru 3 incinte

Climatic cabinets / Camere climatice : SP



Applications

The SP climatic Cabinets range has been designed to carry out almost all hygro-thermometric tests.

Benefits

Really efficient electronic PID controllers
Dual digital display real and set point
Ultrasonic humidity generator for fast recovering time after a door opening
Security: band alarm – high temperature security
Air circulation for uniformity

Specifications

2 types in the range:
Warm and Humidity, SP BVEH models
Warm, Cold and Humidity, SP BVEHF models
Relative humidity controls from 5 to 95% RH depending on associated temperature
Pt100 Ohms probe for temperature controls– capacitive sensor for RH controls
10 liters tank for demineralised water supply
Internal glass door – cable entry port Diam 35 mm with lid
2 Shelves
Fitted with castors, 2 with auto-breaking
Power supply 230 V / 50 Hz

Aplicatii :

Camere climatice SP permit cea mai mare parte parte a testelor termo-hidrometrice : uscare, imbatarnire accelerata, teste de stabilitate ...

Avantaje :

Controler electronic PID foarte important
Afişaj digital dublu, temperatura reala si consemnul
Generator de umiditate cu ultra sunete ce permite urcarea rapida a umiditatii dupa deschiderea usii
Securitate : band alarm – securitate inalta
Recirculare aer pentru omogenitate temperatura

Specificatii :

Doua modele :
Cald - Umiditate SPBVEH
Cald – Frig – Umiditate SPBVEHF.
Umiditate controlata de la 5 la 95% HR dependente de temperatura asociata
Controlul temperaturii cu sonda Pt100 Ohms
HR cu captor capacitiv
Alimentare cu apa demineralizata cu un rezervor de 10 litri
Usa interioara din sticla – Pasaj de cablu diam. 35mm cu buson
2 etajere
Montaj pe 4 roti, doua cu autoblocare
Alimentare electrica : 230V/50Hz

Reference Referinta	Name / Denumire	Volume (l) Volum l	Dimensions W xDxH Dimensiuni LxIxH (mm)	Power / Putere (W)
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SP...BVEH Temperatura Amb +7°C -> +60°C

CLIENC2000013	SP 90 BVEH	90	Int : 460x400x470 Ext : 830x520x1190	600
CLIENC2000009	SP 260 BVEH	330	Int : 600x550x1000 Ext : 960x670x1770	1100
CLIENC2000011	SP 540 BVEH	540	Int : 700x700x1100 Ext : 1080x820x1870	1600
CLIENC2000007	SP 1000 BVEH	1000	Int : 1000x800x1250 Ext : 1250x920x2200	2600

SP...BVEHF Temperatura 0°C -> +60°C

CLIENC2000014	SP 90 BVEHF	90	Int : 460x400x470 Ext : 830x520x1190	900
CLIENC2000010	SP 260 BVEHF	330	Int : 600x550x1000 Ext : 960x670x1770	1600
CLIENC2000012	SP 540 BVEHF	540	Int : 700x700x1100 Ext : 1080x820x1870	2200
CLIENC2000008	SP 1000 BVEHF	1000	Int : 1000x800x1250 Ext : 1250x920x2200	3500

Referinta	Name / Denumire	Description	Descriere
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Accessories / Accesorii

CLIENC2000018	Additional shelf for SP90	Etajere suplimentare pentru SP90 (460 x 400 mm)
CLIENC2000016	Additional shelf for SP260	Etajere suplimentare pentru SP260 (600 x 550 mm)
CLIENC2000017	Additional shelf for SP540	Etajere suplimentare pentru SP540 (700 x 700 mm)
CLIENC2000015	Additional shelf for SP1000	Etajere suplimentare pentru SP1000 (1000 x 800 mm)

Options

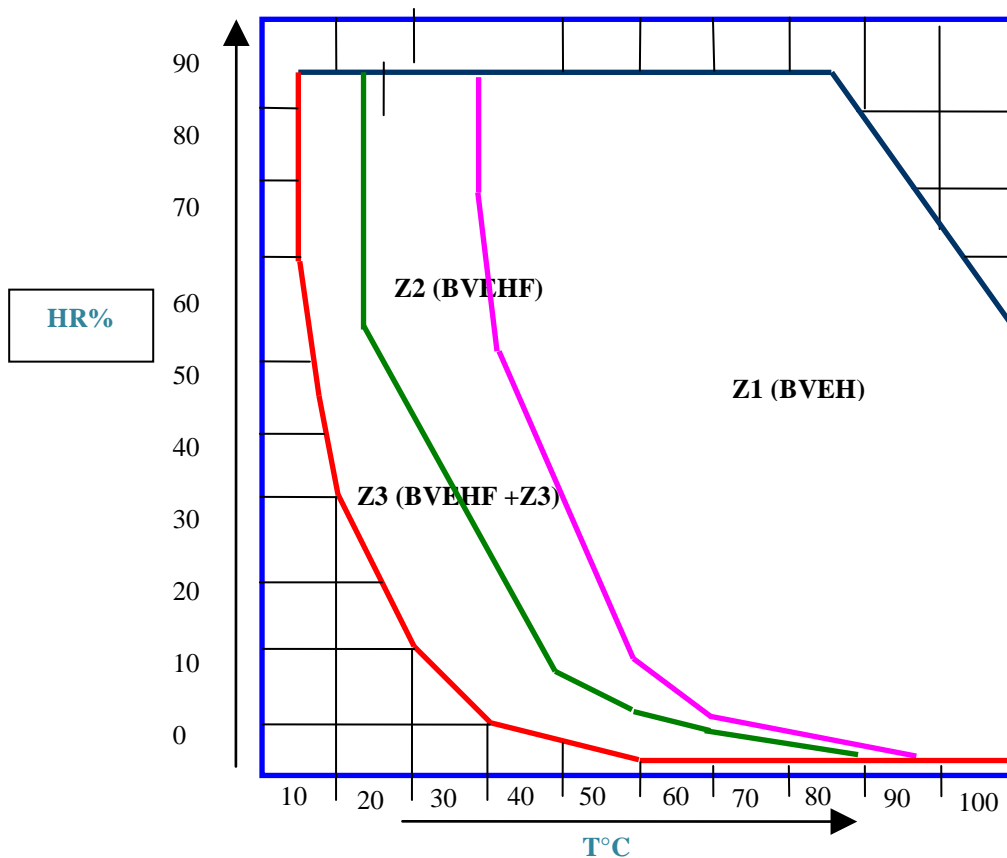
CLIENC2000001	Power supply 230 V triphase
CLIENC2000002	Power supply 380 V triphase + neutral
CLIENC2000003	Power supply 380 V triphase without neutral
CLIENC2000028	Automatic demineralised water feed from resin cartridge allowing direct connection to tap water
CLIENC2000004	Automatic demineralised water supply
CLIENC2000019	Temperature range extension to 140°C
CLIENC2000022	Humidity trap for extension to Z3 RH zone for model SP90BVEHF
CLIENC2000023	Humidity trap for extension to Z3 RH zone for models SP260BVEHF to SP540BVEHF
CLIENC2000006	Internal lighting 1 lamp
CLIENC2000020	Key locking door
CLIENC2000027	Dry contact for alarm report
CLIMEDH000021	Additional relative humidity sensor
CLIMEDH000020	Additional PT 100 Ohms temperature probe
CLIENC2000026	16 ramps electronic programmable controller
CLIMEDH000009	Electronic recorder 2 ways, continuous graph
CLIMEDH000010	Electronic recorder 4 ways, continuous graph
CLIMEDH000011	Electronic recorder 6 ways, multi-points graph
CLIMEDH000016	Pleated paper for recorder
CLIMEDH000015	Roll paper for recorder
CLIMEDH000022	Pen for recorder, type and color to precise

Optiuni

Alimentare electrica 230 V trifazat
Alimentare electrica 380 V trifazat + neutru
Alimentare electrica 380 V trifazat fara neutru
Rezervor echipat cu o butelie de rasina care permite conectarea directa la rețeaua de apa
Alimentare automata cu apa demineralizata
Extensie temperatura la 140°C
Extensia plajei de umiditate Z3 HR doar pentru modelele SP90BVEHF
Extensia plajei de umiditate Z3 HR doar pentru modelele SP260BVEHF la SP1540BVEHF
Iluminat interior manual - 1 bec
Inchidere cu cheie
iesire contact pentru alarma
Sonda HR suplimentara
Sonda temperatura tip PT 100 Ohms suplimentara
Controler electronic 16 paliere
Inregistrator electric 2 canale, grafic continuu
Inregistrator electric 4 canale, grafic continuu
Inregistrator electronic 6 canale, grafic multipunct
Coli hartie pentru inregistrator
Hertie rulou pentru inregistrator
Varf pana pentru inregistrator, a ne comunica modelul si culoarea

9 points temperature monitoring performed by independent test organization / Calificare in 9 puncte realizata de un organism independent

PSDQUAL000008	Certificate for one cabinet - 1 set-point, T° +HR	Pentru o camera climatica - 1 consemn T°C +HR
PSDQUAL000009	Certificate for three cabinets - 1 set-point, T° +HR	Pentru 3 camere climatice 1 consemn T°C +HR



Thermostatic water baths / Bai de aburi termostatare : BMP



Applications:

The most selling serologic water bath in the labs

Specifications:

Temperature range from ambient +7°C to +60°C

Preselected temperature at +37°C and +56°C

Lack of water security

Principalele aplicatii :

Baile de serologie cele mai vandute in laboratoare

Specificatii :

Temperatura reglabila : ambient +7°C la +60°C

Temperatura prereglata la + 37°C si + 56°C

Securitate in caz de lipsa apa

Reference Referinta	Name / Denumire	Volume (l) Volum (l)	Dimensions WxDxH Dimensiuni LxIxH (mm)	Power / Putere (W)	Description	Descriere
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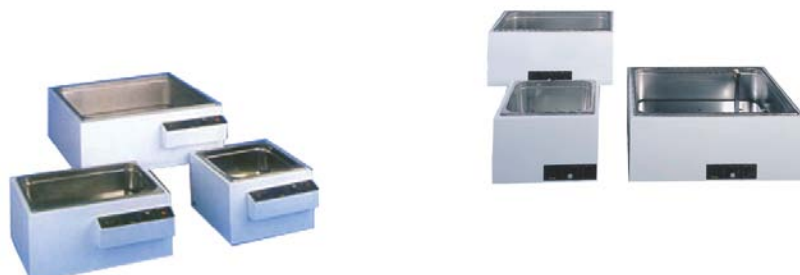
Polycarbonate Water baths / Bains marie polycarbonat

BAIPOLY000003	BMP 30	3	Int : 280x110x80 Ext : 360x130x120	250	Polycarbonate water bath 3 liters	Bain Marie din polycarbonat, 3 litri
BAIPOLY000004	BMP 60	6	Int : 290x110x1900 Ext : 370x210x150	250	Polycarbonate water bath 6 liters	Bain Marie din polycarbonat, 6 litri

Accessories / Accesorii

FA3BAIBMP30001	Plexiglas cover (roof style) with thermometer holder for BMP30				Capac din plexiglas in forma de acoperis cu support termometru / pentru BMP30	
FA3BAIBMP60001	Plexiglas cover (roof style) with thermometer holder for BMP60				Capac din plexiglas in forma de acoperis cu support termometru / pentru BMP60	
FA3BAIBMP00002	Holder for 30 haemolysis tubes Diam 14 mm BMP30 / 1 holder BMP60 / 2 holders				Cutie cu capacitate de 30 tuburi hémolyse diam 14 mm BMP30 / posibilitate 1 cutie BMP60 / posibilitate 2 cutii	
FA3BAIBMP00003	Holder for 30 test tubes Diam 20 mm BMP30 / 1 holder BMP60 / 2 holders				Cutie pentru 30 tuburi de test diam 20 mm BMP30 / posibilitate 1 cutie BMP60 / posibilitate 2 cutii	
FA3BAIBMP00001	Thermometer				Termometru	

Thermostatic water baths / Bai de abur termostatare : BMUT



2 versions:

BMUTE: temperature digital display, electronic controller
BMUT: economic, thermostat controls and alcohol thermometer

Specifications

Stainless steel internal
Thermal insulation
Temperature range: from amb +7°C to +70°C (100°C with cover)
3 predefined temperatures +37°C, +56°C and +70°C on the eco model
BMUT
Lighting switch and controls witness
Lack of water security
Uniformity and stability: +/-0.2°C at +37°C

2 versiuni:

BMUTE : afisaj digital al temperaturii, controler electronic
BMUT : economic, control cu termostat si termometru cu alcool

Specificatii:

Construcie solida cu o cuva din otel inoxidabil
Isolatie termica
Gama temperatura : ambient +7°C la + 70°C
(+100°C cu capac)
3 temperaturi presetate 37°C, +56°C si +70°C pentru versiunea BMUT
Intrerupator luminos
Securitate in caz de lipsa apa
Omogenitate si stabilitate : +/-0.2°C la +37°C

Reference Referinta	Name / Denumire	Volume (l) Volum (l)	Dimensions WxDxH Dimensiuni LxIxH (mm)	Description	Descriere
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Stainless Steel electronic Water baths / Bain marie inox electronic

FA1BAIBMUTE151	BMUTE 15	15	Int : 300x160x280	Electronic water bath 15 l	Bain-marie Inox Electronic 15 L
FA1BAIBMUTE251	BMUTE 25	25	Int : 490x160x280	Electronic water bath 25 l	Bain-marie Inox Electronic 25 L
FA1BAIBMUTE451	BMUTE 45	45	Int: 590x160x480	Electronic water bath 45 l	Bain-marie Inox Electronic 45 L

Stainless Steel thermostatic Water baths / Bains marie inox Termostatic

FA1BAIBMUT1501	BMUT 15	15	Int : 300x160x280	Thermostatic water bath 15 l	Bain-marie inox termostatic 15 L
FA1BAIBMUT2501	BMUT 25	25	Int : 490x160x280	Thermostatic water bath 25 l	Bain-marie inox termostatic 25 L
FA1BAIBMUT4501	BMUT 45	45	Int: 590x160x480	Thermostatic water bath 45 l	Bain-marie inox termostatic 45 L

Accessories /

Accesorii

FA3BAIBMU15001	Roof style cover for BMUT BMUTE 15	Capac in forma de acoperis pentru BMUT15
FA3BAIBMU25001	Roof style cover for BMUT BMUTE 25	Capac in forma de acoperis pentru BMUT25
FA3BAIBMU45001	Roof style cover for BMUT BMUTE 45 liters	Capac in forma de acoperis pentru Bain-marie Inox 45 litri
FA3BAIBMU00002	Roof style cover for 200 mm high tubes (add to the price of the classical roof style cover)	Capac adaptat cu un tub H 200 mm (suplimentar la pretul capacului standard)
FA3BAIBMU15002	Flat cover with 4 set of concentric rings diam. 130 mm for BMUT / TE 15 liters	Capac plat cu 4 rondele concetrice diam. 130 mm pentru BMUT / TE 15 litri
FA3BAIBMU25002	Flat cover with 6 set of concentric rings diam. 130 mm for BMUT / TE 25 liters	Capac plat cu 6 rondele concetrice diam. diam. 130 mm pentru BMUT / TE 25 litri
FA3BAIBMU45002	Flat cover with 12 set of concentric rings diam. 130 mm for BMUT / TE 45 liters	Capac plat cu 12 rondele concetrice diam. diam. 130 mm pentru BMUT / TE 45 litri

Options

Optiuni

BAIINOX000007	Hinge for cover	Balamale pe capac
BAIPOLY000017	Long bent thermometer for BMUT / TE	Termometru lung BMUT / TE
BAIINOX000023	Drain tap	Robinet de golire aparat
BAIINOX000015	Constant level device	Nivel de apa constant
BAIINOX000024	Cooling coil for 15 liters	Serpentina de racire, pentru 15 litri
BAIINOX000025	Cooling coil for 25 liters	Serpentina de racire, pentru 25 litri
BAIINOX000026	Cooling coil for 45 liters	Serpentina de racire, pentru 45 litri

Ultra Low Temperature Freezers / Ultra congelatoare -45 si -86°C : BioMemory



Specifications:

Last generation of insulation

Vacuum insulated panels

The insulation quality is improved at the same time as reducing the wall thickness from 10 to 8 cm

Increased storage capacity : 48 000 – 2ml vials on 0,75m²

The operating time of the compressors is reduced and your electricity consumption is cut by 15%

The autonomy in the event of a temperature rise is improved by over 22%

Specificatii :

Isolatie de ultima generatie:

Panouri izolatoare sub vid:

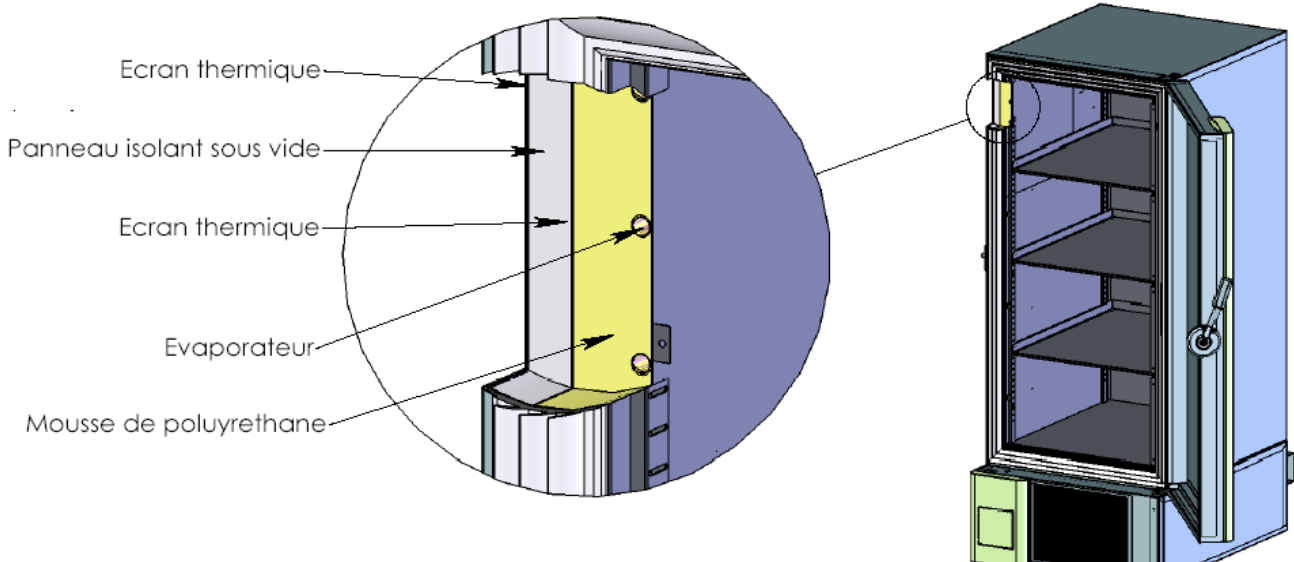
Calitatea izolatiei este mult ameliorata cu toate ca grosimea acesteia a scazut de la 13 la 8 cm.

Capacitatea de stocare a crescut desi dimensiunea ext. este aceeaasi.

O mai buna izolatie reduce consumul dvs. de energie

Compressoarele vor functiona mai putin timp deci, durata lor de viata este prelungita

Autonomia, atunci cand temperatura creste este ameliorata cu 22%



	BM-45°C	BM -86°C	BM STAR -86°C
Temperature range /Gama de temperatura	-20°C à -45°C	-60°C à -86°C	-60°C à -86°C
Vacuum insulation panel /Panouri izolatoare sub vid	✓	✓	✓
Stainless steel cabinet /Cuva interior din inox	✓	✓	✓
Key lock / Inchidere cu cheie	✓	✓	✓
Pressure regulation /Egalizator de presiune	✓	✓	✓
Insulated inner door /Usi izolante	✓	✓	✓
Castors /Roti	✓	✓	✓
Cable port /Pasaj cablu	✓	✓	✓
Audible visual alarms /Alarma sonora si luminoasa	✓	✓	✓
Battery backup / Acumulator backup	○	○	✓
Remote alarm contact / Contact iesire alarma	✓	✓	✓
CO2 Back up /Securitate CO ₂	✗	○	✓
Advanced alarm control / Sistem avansat de control	✗	✗	✓
Ethernet communication /Comunicatii prin internet	✗	✗	✓
Predictive maintenance /Mentenananta predictiva	✗	✗	✓

✓ As standard / Standard ✗ Not available / Nu este disponibil ○ Option / optional

Deep Freezer -45°C / Ultra congelator -45°C : BioMemory -45°C



Reference Referinta	Name / Denumire	Volume (l) Volum (l)	Dimensions WxDxH Dimensiuni LxIxH (mm)	Compartments Nb / Nr. compartimente
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Desk freezer / Versiunea de masa "BioMemory -45°C"

CNGMEMO000023	BM P175 (-45°C)	176	1275x680x810	2
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Upright freezers / Congelatoare verticale "BioMemory -45°C"

CNGMEMO000005	BM 175 (-45°C)	176	875x712, 5x1330	2
CNGMEMO000008	BM 340 (-45°C)	339	875x1012x1280	2
CNGMEMO000013	BM 515 (-45°C)	510	875x1012x1640	3
CNGMEMO000018	BM 690 (-45°C)	680	875x1012x2000	4
CNGMEMO000001	BM 1000 (-40°C)	1011	1200x1004x2000	4

Chest freezers / Congelatoare orizontale "BioMemory -45°C"

CNGMEMO000011	BM 340 H (-45°C)	339	1380x794x1032	
CNGMEMO000016	BM 515 H (-45°C)	510	1740x794x1032	
CNGMEMO000022	BM 690 H (-45°C)	680	2100x794x1032	
CNGMEMO000003	BM 1000 H (-40°C)	1011	2000x1084x1050	

Deep Freezer -86°C / Ultra congelator -86°C : BioMemory -86°C



Reference Referinta	Name / Denumirea	Volume (l) Volum (l)	Dimensions WxDxH Dimensiune LxIxH (mm)	Compartments Nb / Nr. compartimente
Desk freezer / Versiunea de masa "BioMemory -86°C"				
CNGMEMO000024	BM P175 (-86°C)	176	1275x680x810	2
Upright freezers / Congelatoare verticale "BioMemory -86°C"				
CNGMEMO000006	BM 175 (-86°C)	176	875x712, 5x1330	2
CNGMEMO000009	BM 340 (-86°C)	339	875x1012x1280	2
CNGMEMO000014	BM 515 (-86°C)	510	875x1012x1640	3
CNGMEMO000019	BM 690 (-86°C)	680	875x1012x2000	4
CNGMEMO000002	BM 1000 (-82°C)	1011	1200x1004x2000	4
Chest freezers / Congelatoare orizontale "BioMemory -86°C"				
CNGMEMO000012	BM 340 H (-86°C)	339	1380x794x1032	
CNGMEMO000017	BM 515 H (-86°C)	510	1740x794x1032	
CNGMEMO000021	BM 690 H (-86°C)	680	2100x794x1032	
CNGMEMO000004	BM 1000 H (-82°C)	1011	2000x1084x1050	

Deep Freezer -86°C / Ultra congelator -86°C : BioMemory Star -86°C

Access to a world of security / Unic in lume



Quality of conservation as well as safety of your samples is our main goal.

The unique in the world system **Intellidiag**, developed by the company FROILABO, secures your samples for long years. Along the years, your freezer gets older and the risk of breakdown increases proportionally to its age (Usual life expectancy of a deep freezer is approximately 15 years). The Intellidiag system will follow this evolution during all these years and will alarm you in case of any single risk of possible failure.

Until today only preventive maintenance operation could limit the risk of technical failure.

This regular checking finds now a precious assistant with the built-in installation for the BIO MEMORY "STAR" range of algorithm for detection of possible future defect: Intellidiag

By being able to model the comportment of influent parameters, it becomes possible to propose an in line predictive diagnostic system.

This permanent surveillance allows bettering managing the forecast of failures by interpreting the operation drifts of the freezer.

The predictive contracts include, on top of Intellidiag, the control and analysis by a qualified « FROILABO » technician of the technical information stored by the freezer.

You can check in line the reports.

Thanks to Intellidiag, by forecasting the maintenance operation with in line surveillance of the equipment, you take short the blocking breakdowns and avoid 50% of repairs costing in organization and intervention

A One year predictive maintenance contract is included in the package when acquiring a BM STAR freezer.

Sistemul **Intellidiag**

dezvoltat de catre societatea Froilabo va pune in siguranta esantioanele pe durata mai multor ani, timp in care el va functiona corect iar riscul de defectiuni tehnice a fost redus.

Pana astazi operatiile de mentenanta preventiva permitea reducerea riscurilor de pane tehnice. Aceasta supraveghere regulata permite acum, cu mare precizie, standard pentru BIO MEMORY "STAR", descoperirea eventualelor defecte inainte ca acestea sa se produca.

In paralel pentru a urmari evolutia parametrilor care influenteaza congelatorul se poate propune un program de diagnostic predictiv.

Aceasta supraveghere permite o gestionare si interpretare mai buna a congelatorului.

Contractele predictive includ supravegherea de catre un tehnician calificat de « FROILABO » a datelor stocate de catre congelator.

Dvs. Puteti consulta prin retea parametri stabiliti.

In previziune operatiile de mentenanta prin supravegherea in timp real a aparatului pot reduce defectiunile blocante si pot reduce cu 50% interventiile costisitoare pentru organizatie.

Contractul de mentenanta predictiv este inclus pentru 1 an cu ocazia achizitionarii Congelatorului BM Star.

Reference Referinta	Name / Denumire	Volume (l) Volum (l)	Dimensions WxDxH Dimensiuni LxIxH (mm)	Compartments Nb / Nr. compartimente
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Desk freezer / Versiunea de masa "BioMemory Star -86°C"

CNGMEMO000006	BMS P175 (-86°C)	176	875x712, 5x1330	2
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Upright freezers / Congelatoare verticale "BioMemory Star -86°C"

CNGMEMO000026	BMS 175 (-86°C)	176	875x712, 5x1330	2
CNGMEMO000027	BMS 340 (-86°C)	339	875x1012x1280	2
CNGMEMO000028	BMS 515 (-86°C)	510	875x1012x1640	3
CNGMEMO000029	BMS 690 (-86°C)	680	875x1012x2000	4
CNGMEMO000025	BMS 1000 (-82°C)	1011	1200x1004x2000	4

Reference Referinta	Name / Denumire	Description Descriere		BioMemory	BioMemory Star
Security Options / Optiuni de securitate					
CNGOPT5000088	Sursa CO ₂	CO2 Backup system	Sistem rezerva cu CO 2	Option	✓
CNGOPT5000068	Flexibil CO2	1 HP Flexible length 2 m	Racord flexibil din inox CO2	Option	Option
FA2CNG0860001 FA2CNG0860002	Sursa LN ₂	LN2 Backup system	Sistem rezerva LN2 (azot lichid)	Option	Option
CRYSTOC000018	Flexibil DN 10	1 Flexible DN 10	Flexibil de racordare azot lichid la congelator / distribuitor LN2	Option	Option
CNGOPT5000031	Crio Accumulator	Safety tips. are composed of materials able to give back the cold energy (+/- 8 hours additional autonomy at -60°C°	Crio Acumulator pentru stocarea de energie frigorifica care permite, in caz de pana, mentinerea pentru +/- 8 ore de autonomie la -60°C	Option	Option
CNGOPT5000072	Inter ON/OFF	Turn on, turn off key locked	Intrerupator ON / OFF cu cheie	Option	*
CNGOPT5000004	Acumulator pentru electricitate	Additional 12V Battery increasing the backup system range in case of power failure	Controler si alarme alimentate cu un acumulator de 24 V. Incarcator incorporat in aparat	Option	✓

Monitoring Options / Optiuni monitorizare					
	Raport alarma	Output relays	Iesire pe o priza DIN pentru raport alarma	✓	✓
CNGOPT5000095	Iesire Ohms/°c	Pt 100 ohms probe x 3wired in the freezer output on electric terminal	Senzor de temperatura independent Pt 100 Ohms x3 -100°C la + 50°C Iesire pe un terminal electric plasat in spatele aparatului	Option	✓
CNGOPT5000092	Iesire 4 - 20 mA	Independent Pt 100 ohms probe output 4-20 mA / -100°C to +50 °C on electric terminal	Senzor de temperatura independent Pt 100 ohms Convertizor iesire 4-20 mA / -100°C la +50°C	Option	Option
CNGOPT5000094	Iesire mV/°c	-100°C - +50°C additional temperature sensor	-100°C - + 50°C senzor temperatura suplimentar	Option	Option
CNGOPT5000027	Senzor etalonabil	Sensor delivered with its qualification certificate	Senzorul va fi livrat cu certificatul sau de etalonare	Option	Option
CNGOPT5000028	Senzor certificat	Certified temperature sensor	Senzor temperatura livrat cu raportul de certificare	Option	Option
CNGOPT5000097	Iesire RS 485	Circular chart recorder 1r/7 days range 0°C to -100°C / independent power supply with battery	Iesire RS 485 pentru transmisie informatica a parametrilor de reglaj si a temperaturii interioare	Option	Option
THEMESU000026	Inregistrator t° circular	Independent Pt 100 ohms probe output 4-20 mA / -100°C to +50 °C on electric terminal	Inregistrator de temperatura cu diagrama circulara 1 disc/7 zile gama 0°C à -100°C	Option	Option

Communication Options / Optiuni comunicare					
	Com. Internet			*	✓
CNGOPT5000029	Com. Wifi	WIFI	Comunicatie prin radio frecventa	*	Option
LYOOPTA000005	Intrare video	3 channels video recorder	Inregistrator video 3 canale	*	Option

Other Options / Optiuni de fabricatie					
CNGOPT5000030	Condensator cu apa	Water condenser	Racirea condensatorului cu apa Intrare / Iesire 20/27 M	Option	Option
CNGOPT5000005	220 v / 60 Hz	220 Volts / 60 Hz Electric supply	Alimentare 220 Volts / 60 Hz	Option	Option

Qualification Certificari					
FA2CNG0860012	Qualification BM / BMS	Performance Qualification to measure the uniformity with 9 temperature probes by a COFRAC laboratory. Before delivering	Caracterizare in 9 puncte, 1 punct de consemn, de catre un organism abilitat CFRAC Inaintea livrarii aparatului.	On Demand / Consultati-ne	

✓ As standard / Standard

* Not available / Nu este disponibil


Equipments for model :175 / Echipament pentru modelul : 175

Reference Referinta	Name / Denumire
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Additional Shelves /Etajere suplimentare


CNGOPT5000066 **Selves model 175 / Etajere modelul 175**

Racks with drawers /Grupuri cu sertare

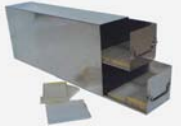
	Dimensions external WxLxH / Dimensiuni exterioare LxIxH		Drawer Nb/ Nr. sertare	Necessary arrangements between drawers/ Inaltime utila	Nb of cryoboxes 133x133xh51 per rack/ Nr. Cryocutii par rack 133x133xh51
	CNGOPT5000034	EL2T175	288 x 425 x 290 mm	2	142 mm
CNGOPT5000039	EL3T175	3		93 mm	18
CNGOPT5000041	EL4T175	4		68 mm	24
CNGOPT5000043	EL5T175	5		54 mm	30



Etajere rack cu acces lateral pe stanga

	Dimensions external WxLxH / Dimensiuni externe LxpxH		Shelves Nb/ Nb Etajere	Necessary arrangements between shelves/ Inaltime utila	Nb of cryoboxes 133x133xh51 per rack/ Nb cryocutii per rack 133x133xh51
	CNGOPT5000050	EL3E175	140 x 424 x 290 mm	3	95 mm
CNGOPT5000051	EL4E175	4		68 mm	12
CNGOPT5000053	EL5E175	5		54 mm	15

Racks for microplates /Rack - uri pentru micro-placi

	Dimensions external WxLxH / Dimensiuni exterioare LxpxH		Drawer Nb/ Nr. sertare	Necessary arrangements between drawers/ Inaltime utile	Nb of Microplates 172x85xh16.5 per rack/ Nr. Micro- placi 172x85xh16.5mm per rack
	CNGOPT5000037	ELMP175	142 X 425 X 294 mm	2	140 mm


Equipments for model : 340 515 690 1000 / Echipamente pentru modelele : 340 515 690 1000

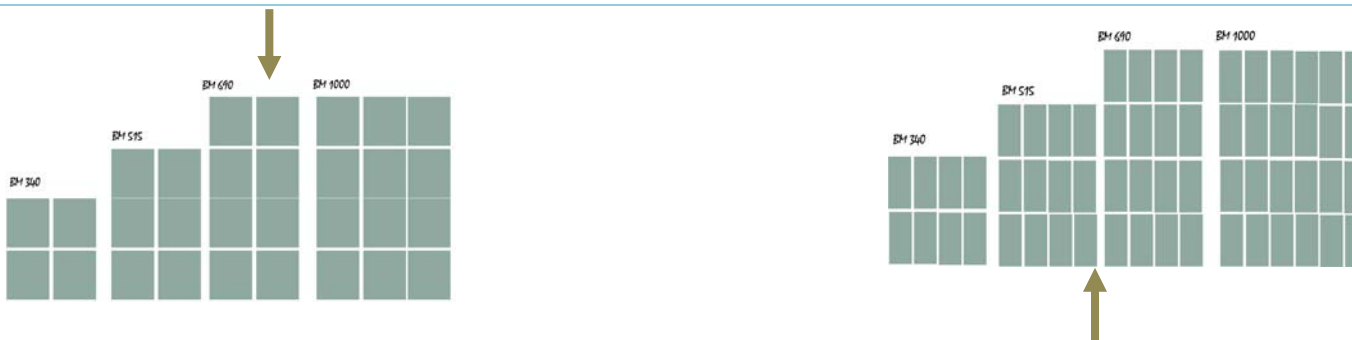
Reference / Referinta Name / Denumire

Additional Shelves / Etajere suplimentare


CNGOPT5000067 **Selves model 340 515 690 / Etajere pentru modele 340 515 690**
CNGOPT5000065 **Selves model 1000 / Etajere pentru modele 1000**

Racks with drawers / Grupuri cu sertare


		Dimensions external WxLxH / Dimensiuni exterioare LxpxH	Drawer Nb/ Nr. sertare	Necessary arrangements between drawers/ Inaltime utila	Nb of cryoboxes 133x133xh51 per rack/ Nr. cryocutii per rack 133x133xh51
					
CNGOPT5000035	EL2T690	288 x 730 x 343 mm	2	164	60
CNGOPT5000040	EL3T690		3	109	60
CNGOPT5000042	EL4T690		4	80	40
CNGOPT5000044	EL5T690		5	63	50
CNGOPT5000046	EL6T690		6	53	60



Racks with fixed shelves left side access / Rack etajere cu acces lateral pe partea stanga

		Dimensions external WxLxH / Dimensiuni exterioare LxpxH	Shelves Nb/ Nr. etajere	Necessary arrangements between shelves/ Inaltime utila	Nb of cryoboxes 133x133xh51 per rack/ Nr. cryocutii per rack 133x133xh51
					
CNGOPT5000047		140x730x343 mm	3	109	30
CNGOPT5000052			4	80	20
CNGOPT5000054			5	63	25
CNGOPT5000055			6	54	30

Racks for microplates / Rack - uri pentru micro-placi

		Dimensions external WxLxH / Dimensiuni exterioare LxpxH	Drawer Nb/ Nr. sertare	Necessary arrangements between drawers/ Inaltime utila	Nb of Microplates 172x85xh16.5 per rack/ Nr. Micro-placi 172x85xh16.5mm per rack
					
CNGOPT5000038	ELMP690	142 x 740 x 330	2	140	160



CNGOPT5000104 **Etajere standard**

Reference Referinta	Name / Denumire
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Racks with drawers /Grupuri cu sertare



*Dimensions external WxLxH
/ Dimensiuni exterioare
LxpxH*

**Nb of cryoboxes
133x133xh51 per
rack/ Nr. cryocutii per
rack 133x133xh51**

**Nb of cryoboxes
133x133xh95 per
rack/ Nr. cryocutii per
rack 133x133xh95**

CNGOPT5000057	FL12EBV	144 x 140 x 737 mm	12	
CNGOPT5000056	FL7EBV			7
CNGOPT5000073	PAN VRAC H	340 x 288 x 368 mm		

Cooled table for blood bag / Masa cu racitor pentru pungii cu sange : TE



Applications :

Used to select and label blood products
Adjustable temperature from +10°C down to -25°
Blood product : +4°C
Blast product : -25°C
Stability +/-2°C

Benefits :

Working area in 18/10 stainless steel
Useful dimensions: WxDxH: 1540 x 750 x 200 mm
Digital indication of the set point and actual temperature
High and low temperature audible and visible alarm

Specifications :

External dimensions : WxDxH : 1700 x 910 x 890 mm
The working area is lightly tilted to evacuate the condensation
Hermetical compressor / Air condenser
Automatic defrost (4 / 24 h)
Safety pressure switch
Voltage 230 V single phase + neutral / 50Hz

Aplicatii :

Pentru trierea si etichetarea pungilor cu sange
Temperatura reglabila de la +10°C la -25°C
Pentru pungii cu sange +4°C
Pentru plasma -25°C
Stabilitate +/-2°C

Avantaje :

Suprafata de lucru din otel inoxidabil 18/10
Dimensiunile suprafetei de lucru : Lx l x P : 1540 x 750 x 200 mm
Suprafata de lucru inclinata pentru recuperare condensului
Afisare digitala a temperaturii
Alarma sonora si vizuala pentru temperatura inalta si joasa

Specificatii :

Dimensiuni ext. LxPxH : 1700 x 910 x 890 mm
Dezghetare automata
Compresor ermetic / condensor cu aer
Presostat de securitate HP
Alimentare electrica - 230 V/50Hz

Reference Referinta	Name / Denumire	Description	Descriere
Blood product labeling/ Masa etichetare			
SNGETIQ000003	TE30	Cooled table Working area : 1.15 m ² Adjustable temperature from +10°C up to -25°	Masa etichetare refrigerata Suprafata de lucru : 1.15 m ² Temperatura reglabila : +10°C/-25°C
Options Optiuni			
CNGOPT5000058	Enregistreur de t° circulaire	Circular chart recorder 1 r / 7 days rage from 0°C to -100°C /independent power supply with battery	Inregistrator temperatura cu diagrama circulara 1 disc/7 zile ; gama de temperatura : -35°C à +15°C. Alimentare cu baterie
SNGETIQ000001	SUP	Movable shelf for computer keyboard	Consola mobila pentru tastatura calculatorului
SNGETIQ000002	PONT.	Working area in stainless steel Working area : 740 x 450 mm	Suprafata de lucru din otel inoxidabil Dimensiunile suprafetei de lucru : 740 x 450 mm

Blast plasma freezers / Congelatoare Rapide de Plasma : CRP



Applications :

Designed for rapid freezing of human plasma
CRP meet current EEC standards
They will reduce 280ml bags of plasma to -30°C in 60 minutes

Benefits :

Computerized monitoring. Touch screen.
Access to parameters key locked
Easy cycle starting access
Advanced alarm control and monitoring
Freezing conditions autotest
Packs can be loaded directly onto shelves, or the cabinet can be provided with a trolley loading system
Adjustable preserving temperature after freezing

Specifications :

Safety pressure switch

Aplicatii :

Destinat congelarii rapide a plasmelor
Congelatoarele respecta standardele EEC
Acestea scad temperatura plasmelor la -30°C in 60 de minute

Avantaje :

Control si monitorizare prin touch-screen .
Blocarea accesului la parametrii congelatorului prin cheia
Lansarea ciclului prin apasarea unui buton
Afisarea si inregistrarea digitala a temperaturii
Stocaj de date in memoria flash
Jurnal de evenimente
Controlul derularii procesului de congelare printr-un diferential T°/Temps
Mentinerea temperaturii la -40°C la terminarea procesului de congelare
Carut pentru manipulare

Specificatii :

Presostat de securitate HP



Reference Referinta	Name / Denumire	Description	Descriere
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Blood product labeling/ Masa etichetare

SNGCRPL000008	CRP 20 / A	Blast freezer for human blood -50°C 20 x 280 ml bags Air cooling condenser	Congelator rapid vertical -50°C pentru 20 pungi de 280 ml plasma Condensor racire cu aer
SNGCRPL000010	CRP 40 / A	Blast freezer for human blood -50°C 40 x 280 ml bags Air cooling condenser	Congelator rapid vertical -50°C pentru 40 pungi de 280 ml plasma Condensor racire cu aer
SNGCRPL000012	CRP 40 / A / GD	Blast freezer for human blood -50°C 40 x 280 ml bags External Frigorific part	Congelator rapid vertical -50°C pentru 40 pungi de 280 ml plasma Grup frigorific amplasat in exterior
SNGCRPL000011	CRP 40 / A / CD	Blast freezer for human blood -50°C 40 x 280 ml bags External condensor	Congelator rapid vertical -50°C pentru 40 pungi de 280 ml plasma Condensor amplasat in exterior
SNGCRPL000002	CRP 100 / E	Blast freezer for human blood -50°C 100 x 280 ml bags Water cooling condenser	Congelator rapid vertical -50°C pentru 100 pungi de 280 ml plasma Condensor racire cu apa
SNGCRPL000007	CRP 100 / A / GD	Blast freezer for human blood -50°C 100 x 280 ml bags External Frigorific part	Congelator rapid vertical -50°C pentru 100 pungi 280 ml plasma Grup frigorific amplasat in exterior
SNGCRPL000009	CRP 200 / A / GD	Blast freezer for human blood -50°C 180 x 280 ml bags External Frigorific part	Congelator rapid vertical -50°C pentru 180 pungi de 280 ml plasma Grup frigorific amplasat in exterior

Options

Optiuni

SNGCRPL000001	CHAR	Loading trolley on castors with racks and shelves for CRP 40/100/200	Carut de manipulare cu rack pe roti si sertare inox incarcarea de pungi plasma. Pentru CRP 40 / 100 / 200
SNGCRPL000017	INST	Installation on demand	CRP 40 / 100 / 200 Instalare si punere in functiune : La cerere.



Plasma freezer / Conservatoare plasma -45°C : EMOTEC



Applications :
Plasma freezer

Benefits :

Electronic controller with digital temperature display
Audible and visible alarm system with rechargeable battery power supply
Dry contact for remote alarm (NO/NF)
Alarm Test function
Air forced Ventilation (except EMOTEC V)

Specifications :

Temperature range from -20°C to -45°C
Fitted with plastic drawers
Fitted with 4 castors including 2 with break
Key locking door
90 mm insulation
External epoxy painted
Internal poly styrol
Air cooled condenser with safety pressure switch
CE compliant
Power supply 230V 50Hz mono

Aplicatii :

Conservarea plasmei

Avantaje :

Controler electronic de temperatura cu afisaj digital
Sistem alarma sonora si vizuala alimentat cu un acumulator
Contact sec pentru alarma NO/NF
Funcie de test alarma
Racire prin ventilatie forzata mai putin modelul EMOTEC V care dispune de racire statica prin etajere refrigerante

Specificatii :

Temperatura ajustabila de la -20°C la -45°C
Echipat cu 4 roti dintre care 2 cu frana
Usa cu inchidere prin cheie
Super izolatie de 90 mm grosime
Caroserie cu vopsea epoxidica
Cuva interioara poly styrol
Condensator cu racire pe aer cu sistem de securitate HP conforma CE fara CFC
Alimentare electrica 230V 50Hz mono

Reference Referinta	Name / Denumire	Description	Descriere
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Plasma freezers / Conservator de plasma : EMOTEC

SNGEMO2000001	EMOTEC I	Plasma freezer -45°C / 217 liters ext. Dim. WxDxH 660 x 918 x1560 mm 5 drawers	Conservator vertical -40°C 216 litri (+/- 200 poches) dim ext LxPxH 660 x 900 x1760 mm 5 sertare
SNGEMO2000002	EMOTEC II	Plasma freezer -45°C / 261 liters ext. Dim. WxDxH 660 x 918 x 1760 mm 6 drawers	Conservator vertical -40°C 261 litri (+/- 240 poches) dim ext LxPxH 660 x 900 x 1950 mm 6 sertare
SNGEMO2000003	EMOTEC III	Plasma freezer -45°C / 305 liters ext. Dim. WxDxH 660 x 918 x 1950 mm 7 drawers	Conservator vertical -40°C 305 litri (+/- 280 poches) dim ext LxPxH 660 x 900 x 2150 mm 7 sertare
SNGEMO2000004	EMOTEC V	Plasma freezer -45°C / 520 liters ext. Dim. WxDxH 753 x 960 x 2020 mm 14 drawers	Conservator vertical -40°C 520 litri (+/- 450 poches) dim ext LxPxH 753 x 980 x 2020 mm 14 sertare

Options		Optiuni	
CNGOPT5000005	Enregistreur de t° circulaire	Circular chart temperature recorder 1r/7 days range 0°C to -100°C / battery power supply	Inregistrator de temperatura cu diagrama circulara 1disc/7 zile gama 0°C à -100°C / Alimentare cu baterie
CNGOPT5000096	Sortie Ohms/°C	Pt100 additional	Sonda Pt 100 ohms x 3 plasate in interiorul congelatorului
CNGOPT5000075	Passage de sonde	Cable port diameter 35 mm	Pasaj pentru sonda cu buson 35 mm pe partea dreapta

Air streamer / Generator de aer : DRAGON



Applications

- Fast and precise temperature control on :
Components, printed circuit boards, electronic devices
Plastic or ceramic
Aerospace simulation
Freezing of biological products

Technical specifications

- Air flow control : 2,2 to 8,4 l/s (8 Nm³/h to 30 Nm³/h)
- Temperature range : from -80°C to +250°C (this range can be extended to -100°C or 300°C on request)
- Temperature transition time :
Controlled: 0,03 to 20°C / second*
Uncontrolled: from -55°C to +125°C: 7 seconds*
From +125°C to -55°C: 14 seconds*
- RS232
- Continuous use under extreme conditions : 24/7
- Control panel specially designed to ease operation. Touch screen
- Easy maintenance- help permanently displayed
- Regulation
Accuracy +/-, 1°C
Air or DUT temperature control
- Working method : manual, automatic or programmable

*according to the working conditions

Dimensions

- Size (H x L x D) : 1040 x 900 x 700 mm
- Weight : 250 Kg
- Arm rotation : 270 °
- Head rotation : 180 °

Requirements

- Power supply : 230 V - 50 HZ - 32A
- Compressed air supply : flow 35 Nm³/h - 10 bar > Pressure > 6 bar - Temperature ≤ 25°C - Dew point ≤ +2°C
- Ambient Air : Temperature < 30°C - Hygrometry < 70%

International Standards

- In accordance with international standards

Options and accessories

- Temperature range to -100°C or 300°C
- ESD free equipment
- IEEE 488.1 remote interface
- Nozzles
- Mechanical fixtures
- Board enclosures
- Silicon foam sheets

Dragon este un aparat puternic care sufla cu rapiditate si precizie, aer la o temperatura intre -80°C si +250°C

Uimitoarea viteza de variatie a temperaturii a acestui aparat il recomanda ca fiind foarte bun pentru testele exigente practicate in domenii precum electronica si aeronautica.

Aplicatii :

- Aducerea la temperatura de test, foarte rapid si precis a :
Componentelor electronice, circuite integrate, circuite hibride, module, placi electronice, esantioane metalurgice, produse compozite
Simularea climatica in aeronautica
Congelare de produse biologice

Specificatii :

- Debit de aer ajustabil : de 2,2 à 8,4 l/s (8 Nm³/h la 30 Nm³/h)
- Temperatura : de -80°C à +250°C in standard, gama de poate fi extinsa la -100°C sau +300°C
- Viteza de variatie a temperaturii :
Rampa controlata : ajustabila de la 0,03 la 20°C /

secunde*

- Rampa necontrolata : -55°C la +125°C in 7 secunde* +125°C la -55°C in 14 secunde*
- Interfata : RS232
- Utilizare continua in conditii extreme : 24h/24 si 7/7
- Touch-screen usor de utilizat
- Mentenanța facila cu ajutorul diagnosticului
- Reglare :
Precizie +/-, 1°C
Alegerea senzorului de reglare (aer sau component)
Personalizarea regimului de functionare
- Mod de functionare : manual, automatic
Sau mod program

Dimensiuni

- (H x L x l) : 1040 x 900 x 700 mm
- Greutate : 250 Kg
- Rotatia bratului : 270 °
- Rotatia capului : 180 °

Servitute

- Alimentare electrica : 230 V - 50 HZ - 32A
- Alimentare aer comprimat : debit 35 Nm³/h
- 10 bar > Presiune > 6 bar - Temperatura ≤ 25°C - Punct de bruma ≤ +2°C
- Aer ambient : Temperatura < 30°C - Hygrometrie < 70%

Norme

- Conforme cu normele europene

Optiuni si scesorii

- Gama de temperatura extinsa la -100°C sau +300°C
- IEEE 488.1
- Echipament antistatic
- Ajutaj
- Piese de adaptare mecanica
- Cutii de test
- Placi izolante cu spuma siliconica