

Laboratory cabinets and freezers at +4°C, -20°C and -30°C X-COLD Series



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Our expeerience in the freezing industry



For over 85 years, Angelantoni has produced a complete range of refrigerators/freezers for long-term preservation of biological samples used in scientific laboratories, pharmaceutical research, hospitals and any other application requiring material preservation at low temperatures.

Angelantoni's experience in the freezing industry, combined with continuous search for solutions able to offer its customers quality products, has resulted in the creation of **X-COLD**, a new line of products characterized by functions developed and tested for professionals in the biomedical sector.

The wide range of machines of different volumes equipped with cutting-edge electronic controllers makes the X-COLD line one of the best laboratory products in the market in terms of flexibility and reliability.









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X-COLD: Product features

Maximum protection

The internal AISI 304 stainless steel tank, combined with a load-bearing structure in hot-dip galvanized steel coated with PVC film, guarantee maximum protection against corrosion and a long service life.

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Optimization of internal spaces

Each model is equipped with height-adjustable shelves (optional drawers), for efficient organization of internal spaces and adequate arrangement of material.

E[°]C

Uniform cooling

The internal compartment is cooled by a ventilation system that guarantees temperature uniformity. Fans stop turning when the door is opened, thus protecting the operator from exposure to low temperatures and reducing heat loss.

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External communication

A 19, 23 or 50mm through-hole is provided on request, for inserting cables, probes or other utilities.

Easy and comfortable opening

New ergonomic handle designed for easy grip even with one hand. Standard key lock or Bioguard® system (optional).

Environmentally friendly

We have always considered ourselves as "environmentally friendly" and for this reason all our products use natural gas or gas with very low environmental impact.



Easy cleaning

The structure of the internal AISI 304 steel tank is designed to minimize edges; full sealing of joints makes bacterial proliferation impossible, while allowing easy cleaning.

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Low noise levels

The structure and cooling system of the X-COLD line are designed to minimize noise. When installed in laboratories, this equipment does not disturb the people who work there.

2 **Increased access security**

Sample security is increased by BIOGUARD®, an optional system that guarantees complete access control. With this accessory, the door is locked electrically, so that it may only be opened using authorized cards with total access traceability.





X-COLD from 100 to 500 liters





All products are equipped with balls, wheels and rollers to facilitate handling and with adjustable feet for stabilization.



Stored product visibility

These models are provided with glass door and internal led lighting for perfect product visibility including when the door is closed.



Maximum connectivity

A latest-generation electronic controller optimizes both performance and functions and allows the user to adjust and monitor the refrigerator remotely with extreme ease.





Cutting-edge **controller**

ACP7: TOTAL CONTROL AT A GLANCE

LABORATORY OUTPUTS 12:33 ALS **()** 3° i EVAPORATOR CONDENSER -16.0° -22.0° -31.0° 37.1° ┛ KEY LIGHT

The **X-COLD** range includes two graphic controllers differing in display size: 2.5 or 7 inches.

The cutting-edge **ACP7** controller, developed over the years with the support of the latest technologies, can ensure high performance, maximum safety and ease of use. Control electronics are based on three separate processors: one is dedicated to the control system, one is for the alarm section and one for communicating collected data. Access to parameters is protected by passwords with 3 privilege levels: users, service and administrator.

A 7-inch display shows all basic data on one screen, allowing real-time evaluation of the operating status.

The **ACP7 controller** has innovative functions optimizing consumption and allowing parameters to be continuously monitored thanks to 3 separate microprocessors for ADJUSTMENT, ALARM and CONNECTIVITY.

The aim of the **REAL-TIME function** is to display daily temperatures on the screen. This function adds to event listing and to the recording of working temperatures and variables that are sampled every 30 seconds for **10 years.** All values can be stored and event log files can be downloaded to the local PC via an **integrated USB port** in the controller.

The aim of the **ECOMODE function** is to operate the machine in an energy-saving mode. A PERSONAL PASSWORD is required to access the controller and to enable the functions that change user parameters.



ACP3: LEADER IN RELIABILITY, PERFORMANCE AND EASE OF USE



The 2.5" display of the **ACP3** controller is backlit and color-coded, with variable color touch key controls. The display shows the operating temperature, alarm limits and temperature chart.

The command key changes color according to the machine status:

Green display:

All operating parameters are correct, no faults worth reporting;

Orange display:

The machine is signaling an alert situation, which can normally be resolved by the operator;

Red display:

Critical condition, immediate user intervention or technical assistance is required.

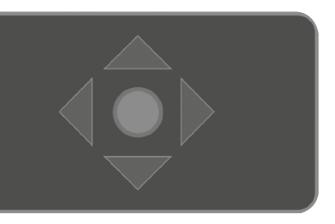
The **SMART DIAGNOSTIC** function ensures constant monitoring of key component wear. Once the preset limit wear threshold is reached, an alarm will prompt for replacement, reducing the risk of machine downtime.

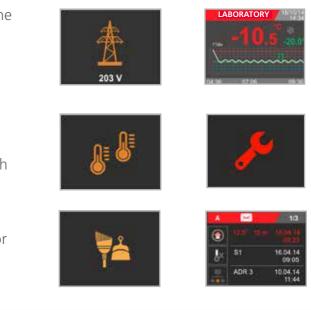
The technical chamber temperature is constantly monitored, alerting the user as soon as the safety threshold is reached.

The machine includes a charging circuit for the **BACK-UP BATTERY** featuring periodic test, charge status and replacement alert. In the event of loss of power, the battery can work autonomously for 30 hours.

A reliable **SMART CONTROL SYSTEM** maintains the set temperature even in the event of probe failure.









Laboratory cabinets and freezers at $+4^{\circ}$ C, -20° C and -30° C **X-COLD** Series

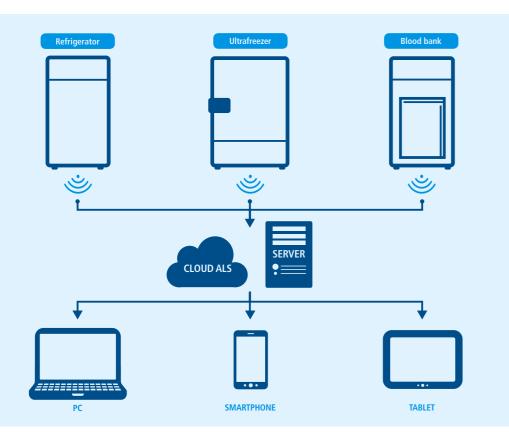
Your device in one click

CONTROL ANYTIME ANYWHERE

The controller guarantees maximum connectivity and constant monitoring thanks to the CloudALS infrastructure or local storage server (Proprietary Server), easily accessible from PC, Smartphone and Tablet.

This function allows users to monitor the trend of the refrigerator's storage temperatures in real time and maintenance personnel can promptly access detailed information on the operation of the refrigeration unit and its components.

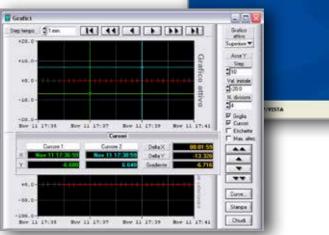
The possibility of choosing between **3G** coverage or the use of an **Ethernet** or Wi-Fi communication module facilitates any type of connection in the user environment. This feature also allows one or more Angelantoni machines (refrigerators, freezers, etc ...) to be remotely controlled, if they are equipped with the latest-generation controller (ACP series) and located in different laboratories.







CryoLog 2.00.00

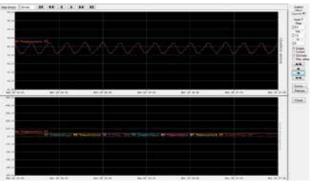


Cryolog is a monitoring system that combines robust technology with ease of use, an ideal system for remote supervision of machines in different rooms. Up to 32 units can be connected simultaneously and the operating parameters of each machine can be displayed.

The monitored parameters are:

- Working temperature
- Door status
- Alarms

Monitored parameters are also displayed in graphic form and stored in a destination folder.



- Master Management
- Multitrack Real-Time Graphs
- Event notification E-mail
- > Real-Time variable consultations

REMOTE FUNCTIONS

- Configuration Parameter Reading
- Configuration Parameter Writing
- **Firmware Update**
- Remote assistance

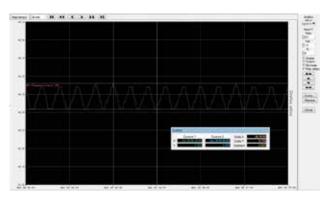






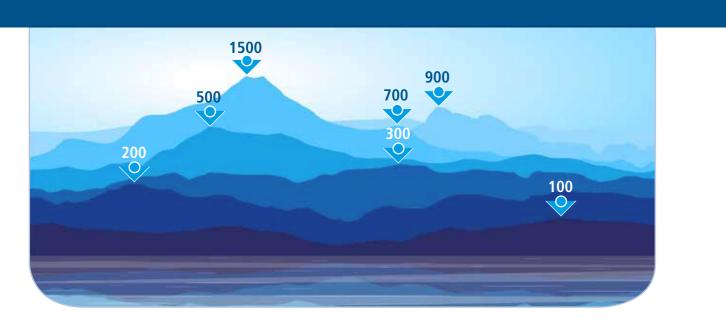
MONITORING FROM A SINGLE LOCATION

4	10% 1					-	-	6	Pute 1.2		
01 - Plenue 34773330	8.8	8.0	8.9	8.0	0.0				22		
C - Condition	1.1	- 10			1.0			÷.	55	12	
16 Percent/2		8.8			1.8			- 21	22		
18. Painer 340/314					0.0	121	- -		33		
III (Sener 34) Put				4.8	0.0				- 22.22		
07-Decision	1.8.8	0.0	4.6	8.8	0.0				14.14	24	
00 Halman 202	8.8	9.9	8.6	4.0	0.0				199	1	
09 Palmari 34072318	8.8	0.0	8.0	8.0	0.9				333		
10 - Plateau SAD Plue		8.0		6.0	0.8			- 51	22		
11 Endators C: Parmar IV/Z		**			12			- S.	33		
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A complete range from 100 to 1500 liters



The **X-COLD** series is a very comprehensive range of refrigerators and freezers meeting all requirements in terms of volumes and control electronics.

The full series includes machines from 100 to 1500 liters with glass or blind doors and with storage temperatures ranging from +4°C to -20°C.

The series is completed by the following models and formats:

- 300 liters **combined**, with one chamber of 200 liters at +4°C and one chamber of 100 liters at -20°C (mod. 300/2 TN / 2TS)
- 700 liters **combined**, with two chambers of 350 liters each, one at +4°C and one at -20°C (mod. 700/2 TN / 2TS)
- 1500 liters **combined**, with two chambers of 700 liters each, one at +4°C and one at -20°C (mod. 1500/2TN / 2TS)
- 700 liters, with a storage temperature of **-30°C** (mod. 700/1 liter)
- 900 liters, with a storage temperature of **-30°C** (mod. 900/1 liter)

Controlled access

The **BIOGUARD®** system allows keyless opening with a personal RFID ID card. Each machine equipped with Bioguard® is supplied with 3 ID cards. The BIOGUARD® lock increases the safety of stored products. In the event of damage to the ID cards or electronic malfunctions, the door can be opened manually with a special emergency key.



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Models and technical specifications

MODELS			10	0/1			20	0/1			30	0/1		500/1			
		100/1 TN	100/1 TN-GL	100/1 BT	100/1 BT-GL	200/1 TN	200/1 TN-GL	200/1 BT	200/1 BT-GL	300/1 TN	300/1 TN-GL	300/1 BT	300/1 BT-GL	500/1 TN	500/1 TN-GL	500/1 BT	500/1 BT-GL
DIMENSIONS																	
Internal size (LxWxH)	mm		480X50	00X450			480X50	0X815			480X50	0X1385			605X69	0X1355	
External size (LxWxH)	mm		600X61	5X850			600X61	5X1425			600X61	5X1995		685X805X1835			
Liters	1		9	5			17	76			30)3		52	28	50	00
Weight	Kg		8	5			10	00			11	15			13	30	
TECHNICAL FEATURES																	
Temperature range	°C	0/+15	0/+15	-10/-23	-10/-23	0/+15	0/+15	-10/-23	-10/-23	0/+15	0/+15	-10/-23	-10/-23	0/+15	0/+15	-10/-23	-10/-23
Climate class			CLASS	SN/ST		CLASS SN/ST				CLASS SN/ST				CLASS SN/ST			
Supply voltage		20	8-252 VAC / 50	(60) Hz / 1 + T (0	G)	208-252 VAC / 50 (60) Hz / 1 + T (G)			208-252 VAC / 50 (60) Hz / 1 + T (G)				208-252 VAC / 50 (60) Hz / 1 + T (G)				
Noise level	dB	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 5 0	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50
Max. absorbed current	A	1,5	1,5	3	3	2	2	4	4	2	2	4	4	3	3	6	6
	kcal/ h	170	170	400	400	215	215	430	430	215	215	430	430	400	400	700	700
Refrigerant gas			R 2	90		R 290			R 290				R 290				
FRAME																	
External finishes			Epoxy pow	der coating			Epoxy pow	der coating			Epoxy pow	der coating			Epoxy pow	der coating	
Internal material	I material AISI 304 Stainless steel			AISI 304 Stainless steel				AISI 304 Stainless steel				AISI 304 Stainless steel					
Insulation	mm	60 (PU)			60 (PU)				60 (PU)				60 (PU)				
Shelves	Nr.	2			2				3				3				
Max load per shelf	Kg		3	0			3	0			3	0		30			

			70	0/4				0/4			4500/2		
MODELS		700/1 TN	700 700/1 TN-GL	0/1 700/1 BT	700/1 LT	900/1 TN	90 900/1 TN-GL	0/1 900/1 BT	900/1 LT	1500/2 TN	1500/2 1500/2TN-GL	1500/2 BT	
DIMENSIONS		700/1111	700/TIN-GL	700/1 B1	700/1 LI	900/11N	900/TINFGL	900/1B1	900/11	1500/2 IN	1500/2 IN-GL	1300/2 B1	
Internal size (LxWxH)	mm		590X67	5X1500			660X87	/5X1510			1330X675X1500		
External size (LXWXH)	mm		740X81					10X1998			1480X815X1998		
· · ·													
Liters	1		60					70			1400		
Weight	Kg		17	70			18	80			230		
TECHNICAL FEATURES													
Temperature range	°C	0/+15	0/+15	-10/-23	-10/-30	0/+15	0/+15	-10/-23	-10/-30	0/+15	0/+15	-10/-23	
Climate class		CLASS SN/T CLASS SN			IS SN	CLASS SN/T CLASS SN			CLASS	CLASS SN			
Supply voltage		20	08-252 VAC / 50	(60) Hz / 1 + T (G)	208-252 VAC / 50 (60) Hz / 1 + T (G)				208-252 VAC / 50 (60) Hz / 1 + T (G)			
Noise level	dB	≤ 50	≤ 50	≤ 50	≤ 50	≤ 43	≤ 43	≤ 45	≤ 50	≤ 50	≤ 50	≤ 55	
Max. absorbed current	A	4	4	5,5	6	5,5	5,5	5,8	6	5	5	3,8	
Thermal dissipation	kcal/ h	180	180	210	345	215	260	320	430	220	225	345	
Refrigerant gas			R 290		R452A	R 290 R452A				R 290			
FRAME													
External finishes		Epoxy powder coating				Epoxy powder coating				Epoxy powder coating			
Internal material		AISI 304 Stainless steel				AISI 304 Stainless steel				AISI 304 Stainless steel			
Insulation	mm	75 (PU)			75 (PU)				75 (PU)				
Shelves	Nr.		3	3		3				6			
Max load per shelf	Kg		4	0			4	10		40			



10	0/1		200/1					30	0/1		500/1				
11TN-GL	100/1 BT	100/1 BT-GL	200/1 TN	200/1 TN-GL	200/1 BT	200/1 BT-GL	300/1 TN	300/1 TN-GL	300/1 BT	300/1 BT-GL	500/1 TN	500/1 TN-GL	500/1 BT	500/1 BT-GL	
480X50	00X450			480X50	00X815			480X50	0X1385		605X690X1355				
600X61	5X850		600X615X1425				600X615X1995				685X805X1835				
9	5		176				303				528 500				
8	5		100					1	15		130				
							·								

30	0/2						
300/2 TN/2TS							
480X500X845	480X500X495						
600X635X1995							
184	100						
120							
1° VANO	2° VANO						
0/+15	-10/-23						
CLASS SN/ST							
208-252 VAC / 50 (60) Hz / 1 + T (G)							
</th <th>50</th>	50						
6	5						
70)0						
R 290							
Epoxy powder coating							
AISI 304 Stainless steel							
60 (PU)						
3	2						
3	0						

700/2 TN / 2 TS 1500/2 TN / 2 TS 590X650X720 590X650X720 635X675X1500 635X675X1500 710X8∪X1998 1480X815X1998 300 300 600 600 100/2 TN / 2 TS 1480X815X1998 300 300 600 600 100/2 TO X1998 1480X815X1998 1480X815X1998 300 300 600 600 100/2 TO X1998 1480X815X1998 1480X815X1998 300 300 600 600 100/2 TO X1998 1480X815X1998 1480X815X1998 300 300 600 600 100/2 TO X1998 1480X815X1998 200 100/2 TO X1998 100/23 0/+15 -10/-23 100/2 TO X010 100/23 0/+15 -10/-23 100/2 TO X010 100/2 TO X01 208-252 VAC / 50 (60) Hz / 1 + T (G) 208-252 VAC / 50 (60) Hz / 1 + T (G) 200 200 8 200 8 320 40 40 40		700/2 T -	1500/2 T					
1480X815X1998 300 300 600 600 160 250 In VANO 2° VANO 1° VANO 2° VANO 0/+15 -10/-23 0/+15 -10/-23 CLASS SN/T CLASS SN/T CLASS SN/T 208-252 VAC / 50 (60) Hz / 1 + T (G) 208-252 VAC / 50 (60) Hz / 1 + T (G) ≤ 60 ≤ 60 ≤ 60 ≤ 60 7 8 320 430 R 290 R 290 R 290 R 290 Epoxy powder coating Epoxy powder coating AISI 304 Stainless steel AISI 304 Stainless steel AISI 304 Stainless steel 75 (PU) 75 (PU) 75 (PU) 75 (PU)	700/2 T	N / 2 TS	1500/2 TN / 2 TS					
1480X815X1998 300 300 600 600 160 250 In VANO 2° VANO 1° VANO 2° VANO 0/+15 -10/-23 0/+15 -10/-23 CLASS SN/T CLASS SN/T CLASS SN/T 208-252 VAC / 50 (60) Hz / 1 + T (G) 208-252 VAC / 50 (60) Hz / 1 + T (G) ≤ 60 ≤ 60 ≤ 60 ≤ 60 7 8 320 430 R 290 R 290 R 290 R 290 Epoxy powder coating Epoxy powder coating AISI 304 Stainless steel AISI 304 Stainless steel AISI 304 Stainless steel 75 (PU) 75 (PU) 75 (PU) 75 (PU)								
300 300 600 600 16 25 1° VANO 2° VANO 1° VANO 2° VANO 0/+15 -10/-23 0/+15 -10/-23 CLASS SN/T CLASS SN/T CLASS SN/T 208-252 VAC / 50 (60) Hz / 1 + T (G) 208-252 VAC / 50 (60) Hz / 1 + T (G) ≤ 60 ≤ 60 ≤ 60 ≤ 60 7 8 320 430 R 290 R 290 R 290 R 290 Epoxy powder coating Epoxy powder coating Epoxy powder coating AISI 304 Stainless steel 75 (PU) 75 (PU) 75 (PU) 3	590X650X720	590X650X720	635X675X1500	635X675X1500				
160 250 1° VANO 2° VANO 1° VANO 2° VANO 0/+15 -10/-23 0/+15 -10/-23 CLASS SN/T CLASS SN/T CLASS SN/T 208-252 VAC / 50 (60) Hz / 1 + T (G) 208-252 VAC / 50 (60) Hz / 1 + T (G) ≤ 60 ≤ 60 7 8 320 430 R 290 R 290 Epoxy powder coating Epoxy powder coating Epoxy powder coating AISI 304 Stainless steel AISI 304 Stainless steel 75 (PU) 75 (PU) 3	710X80	0X1998	1480X81	5X1998				
I ° VANO 2° VANO 1° VANO 2° VANO 0/+15 -10/-23 0/+15 -10/-23 CLASS SN/T CLASS SN/T 208-252 VAC / 50 (60) Hz / 1 + T (G) 208-252 VAC / 50 (60) Hz / 1 + T (G) ≤ 60 ≤ 60 ≤ 60 ≤ 60 7 8 320 430 R 290 R 290 Epoxy powder coating Epoxy powder coating Epoxy powder coating AISI 304 Stainless steel 75 (PU) 75 (PU) 75 (PU) 2 3 3	300	300	600	600				
0/+15 -10/-23 0/+15 -10/-23 CLASS SN/T CLASS SN/T CLASS SN/T 208-252 VAC / 50 (60) Hz / 1 + T (G) 208-252 VAC / 50 (60) Hz / 1 + T (G) ≤ 60 ≤ 60 7 8 320 430 R 290 R 290 Epoxy powder coating Epoxy powder coating Epoxy powder coating AISI 304 Stainless steel 75 (PU) 75 (PU) 2 3	16	50	25	50				
0/+15 -10/-23 0/+15 -10/-23 CLASS SN/T CLASS SN/T CLASS SN/T 208-252 VAC / 50 (60) Hz / 1 + T (G) 208-252 VAC / 50 (60) Hz / 1 + T (G) ≤ 60 ≤ 60 7 8 320 430 R 290 R 290 Epoxy powder coating Epoxy powder coating AISI 304 Stainless steel AISI 304 Stainless steel 75 (PU) 75 (PU) 2 3								
CLASS SN/T CLASS SN/T 208-252 VAC / 50 (60) Hz / 1 + T (G) 208-252 VAC / 50 (60) Hz / 1 + T (G) ≤ 60 ≤ 60 7 8 320 430 R 290 R 290 Epoxy powder coating Epoxy powder coating AISI 304 Stainless steel AISI 304 Stainless steel 75 (PU) 75 (PU) 2 3	1° VANO	2° VANO	1° VANO	2° VANO				
208-252 VAC / 50 (60) Hz / 1 + T (G) 208-252 VAC / 50 (60) Hz / 1 + T (G) ≤ 60 ≤ 60 7 8 320 430 R 290 R 290 Epoxy powder coating Epoxy powder coating Epoxy powder coating AISI 304 Stainless steel AISI 304 Stainless steel 75 (PU) 75 (PU) 2 3	0/+15	-10/-23	0/+15	-10/-23				
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320430R 290R 290Epoxy powder coatingEpoxy powder coatingAISI 304 Stainless steelAISI 304 Stainless steel75 (PU)75 (PU)23	≤	50	≤ 60					
R 290 R 290 Epoxy powder coating Epoxy powder coating AISI 304 Stainless steel AISI 304 Stainless steel 75 (PU) 75 (PU) 2 3	7	1	8					
Epoxy powder coating Epoxy powder coating AISI 304 Stainless steel AISI 304 Stainless steel 75 (PU) 75 (PU) 2 3	32	20	430					
AISI 304 Stainless steel AISI 304 Stainless steel 75 (PU) 75 (PU) 2 3	R 2	90	R 290					
AISI 304 Stainless steel AISI 304 Stainless steel 75 (PU) 75 (PU) 2 3								
75 (PU) 75 (PU) 2 3	Epoxy pow	der coating	Epoxy powder coating					
2 3	AISI 304 Sta	ainless steel	AISI 304 Stainless steel					
	75 (PU)	75 (PU)					
40 40	2	2	3					
	4	0	40					



Laboratory cabinets and freezers at +4°C, -20°C and -30°C X-COLD Series

ACCESSORY AND OPTIONS
Weekly chart recorder
BIOGUARD, door opening with badge for X-COLD 200, 300, 500, 700, 900, 1500 and 1500 2T (requires ACP7 controller)
Additional user badge for BIOGUARD system (in combination with optional BIOGUARD)
Ø19 mm through-hole with closing cap for X-COLD 100, 200, 300, 500 and 300 2T
Ø23 mm through-hole with closing cap
Ø50 mm through-hole with closing cap
Stainless steel sliding and pull-out drawer
Plastic coated grid shelf
Stainless steel perforated shelf
Stainless steel grid shelf
Wheel mounting
External stainless steel cladding
Additional PT 100 class A probe (complete with calibration certificate)
Additional PT 100 class A probe with 4-20mA signal converter (complete with calibration certificate)
Additional PT 100 class A probe calibrated for 3 specific temperatures (complete with calibration certificate)
Integrated safety thermostats to prevent freezing
IQ-OQ qualification protocols (ALS standard)
Packaged in a wooden case/box
Model with 230V / 60Hz supply voltage
Model with 115V / 60Hz supply voltage

CONNECTIVITY ACCESSORY AND OPTIONS

GSM dialer for alarm signaling (SIM card not included) Wi-Fi module for Cloud monitoring and control (requires Wi-Fi router + PC or Smartphone or Tablet) Ethernet module for Cloud monitoring and control (network cable, hub / switch + PC are required) 3G-GSM module for SMS alarms (SIM card not included) Ethernet module for Cryolog monitoring (network cable, hub / switch + PC are required) RS485 module for Cryolog monitoring (serial cable, Hub / switch + PC are required) CLOUD license for remote control and monitoring (in combination with Wi-Fi or Ethernet module) CRYOLOG software for monitoring up to 32 units from a remote PC (in combination with Ethernet or RS485 module)











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