

Laboratory Refrigerators and Freezers

2012

- * Refrigerators and Upright Freezers
- * Bloodbank Refrigerators and Freezers
- * Blood Plasma Shock Freezers
- * Chest Freezers
- * Temperature Monitoring and Recording Systems
- * Recirculating Chillers



<http://www.catalopedia.de>

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Labcool Genius



ProfiMaster Mini



ProfiLine Taurus



ProfiCool Minimus



ProfiLine Pegasus



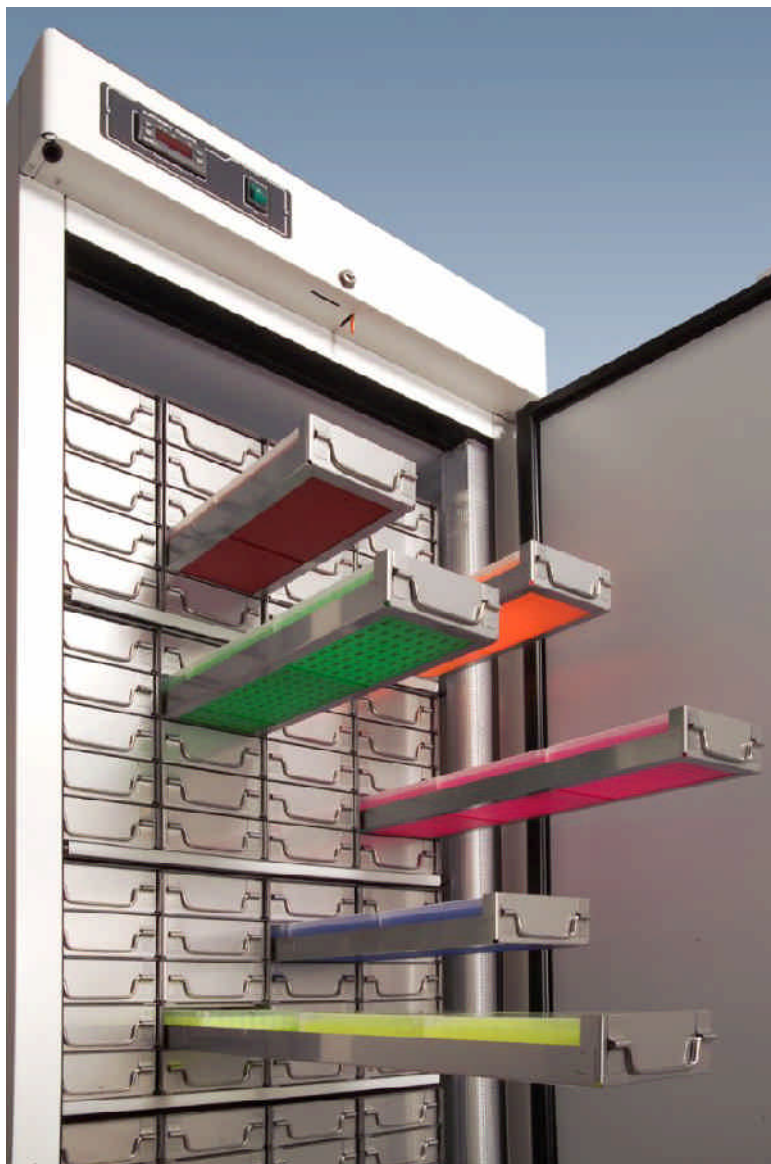
ProfiFrost



LabStar Sirius



AirCool Ventus



Matching storage systems
 can be found in our catalogue
 "Inventory Systems for
 Freezers and Refrigerators".



Laboratory Refrigerators and Freezers

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Interesting Links:

www.Kryobox.de

www.Probenaufbewahrung.de

www.Plasmafreezer.de

www.Labcool-Genius.de

www.Proficool.de

www.Wasser-wasser-waermetauscher.de

www.Weinkuehlung.org

Laboratory Upright Freezer FrostBox

- Static cooling and manual defrost
- Low-noise fully hermetic compressor, air-cooled and low-maintenance
- Operating panel with electronic control and digital display (LED)
- Can be stacked (maximum of 3 units)
- External housing made of stainless steel CNS
- Door with multi-pane glass
- Door lockable, door hinges on left
- Interior made of stainless steel (CNS) without mounted equipment, making it especially hygienic and easy to clean

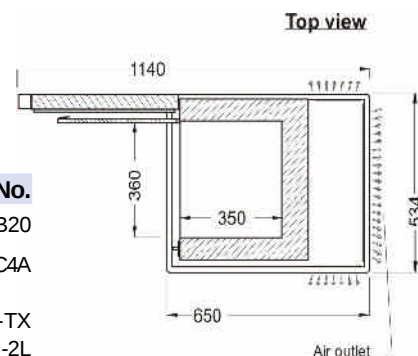


FrostBox FB20 with multi-pane glass

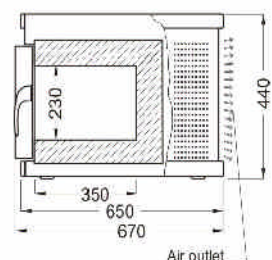
Model FrostBox	FB 20
Temperature range	°C: +10/-20
	: Other temperature ranges available on request.
Content litres (gross):	30
Ext. dimensions (WxDxH) mm:	534x670x440
Int. dimensions (WxDxH) mm:	360x350x230
Depth with door opened mm:	1140
Weight kgs:	42
Mains connection volts/Hz/ph:	230/50/1
Refrigerant	: R134a

FrostBox + Accessories:

	Cat. No.
FrostBox FB 20	GSFB20
ProfiTec Temperature Monitoring and Recording System (see sep. brochure).	GPTEC4A
ProfiCaller telephone dialler (see sep. brochure).	ZXX2-009-TX
Pt-100 temperature sensor, add. installed for ext. temperature recording.	ZPM2-023-2L
Forced air circulation.	on request
Solid door instead of multi-pane glass.	on request
Door hinges factory-mounted on right.	ZFB5-001
Duct to storage compartment 19 mm in diameter.	ZPM1-002-20
Storage set (see below).	ZFB3-090
Stainless steel insert with drawers (see below).	see table
MIN/MAX thermometer to be placed in refrigerators or freezers.	ZXX2-019-001
Measuring range -50/+50°C, an add. temperature sensor is not required.	
MIN/MAX digital thermometer. Hand-held unit with digital display as well as data-hold and relative measuring function. Measuring range -200/+1370°C.	ZXX2-019-011
An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.	
Temperature sensor for MIN/MAX thermometer ZXX2-019-011.	ZXX2-022-100
Measuring range -100/+1000°C. Length 2 m. Other ranges on request.	

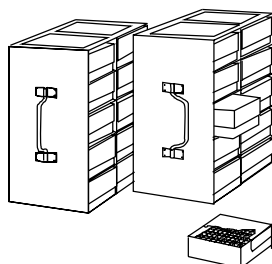


Side view

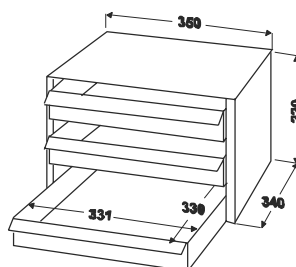


Storage System Alternatives

Stainless steel horizontal racks (modifiable)



Stainless Steel Insert with Drawers (modifiable)



Drawers	Height (mm)	Cat. No.
2	106,0	ZFB3-002
3	69,0	ZFB3-003
4	51,0	ZFB3-004
5	40,0	ZFB3-005
6	33,0	ZFB3-006
7	27,5	ZFB3-007
8	24,0	ZFB3-008
9	20,5	ZFB3-009
10	18,0	ZFB3-010

Height= Effective internal height of each drawer

Laboratory Upright Freezer ProfiLine Pegasus PLPE 0486

- Static cooling and manual defrost
- Most reliable and less complicated compressor technology from Danfoss
- Electronic control with digital display
- Visual/audible alarm device
- No-volt remote alarm contact for connection to an alarm system on the premises
- Rechargeable battery for full retention of all controller features
- Lockable door, door hinges on right
- Vacuum insulation
- Interior made of stainless steel CNS (hygienic and easy to clean)



ProfiLine Pegasus PLPE 0486
(With accessories Inventory Systems.
See sep. brochure.)

Model ProfiLine Pegasus PLPE 0486

Temperature range	°C:	-40/-80
Content litres	litres (gross):	35
Ext. dimensions (WxDxH)	mm:	490x650x670
Int. Dimensions (WxDxH)	mm:	330x355x300
Depth with door opened	mm:	1070
Weight	kgs:	60
Mains connection	volts/Hz/ph:	230/50-60/1
Refrigerant	:	EP88

ProfiLine Pegasus + Accessories:

Cat. No.

ProfiLine Pegasus PLPE 0486	GSPLPE0486
ProfiTec Temperature Monitoring and Recording System (see sep. brochure).	GPTEC4A
ProfiCaller telephone dialler (see sep. brochure).	ZXX2-009-TX
Temperature recorder, 7 days, circular chart.	on request
Pt-100 temperature sensor, add. installed for ext. temperature recording.	ZXX2-020-2L
CO ₂ back-up system, free-standing.	ZXX2-092
Facilities for customer connection of CO ₂ back-up system.	ZPLPE2-094
Storage set (see below).	on request
Stainless steel insert with drawers (see below).	see table
MIN/MAX digital thermometer. Hand-held unit with digital display as well as	ZXX2-019-011
data-hold and relative measuring function. Measuring range -200/+1370°C.	
An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.	
Temperature sensor for MIN/MAX thermometer ZXX2-019-011.	ZXX2-022-100
Measuring range -100/+1000°C. Length 2 m. Other ranges on request.	

Innovation prize

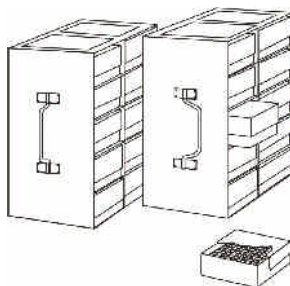
ProfiTec Intelligent Temperature Monitoring and Recording System



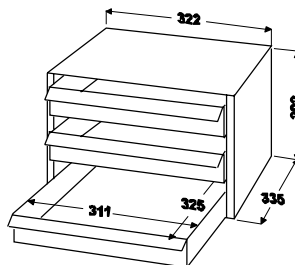
- For up to 4 refrigerators and/or freezers
- Readings are stored over a period up to 781 days
- Warning for excess and insufficient temperature
- Includes No-volt remote alarm contact
- The measuring protocol can be fed to PC via RS 232 port

Storage System (modifiable)

Storage Set (modifiable)



Stainless Steel Insert with 3 Drawers (modifiable)



Drawers	Height (mm)	Cat. No.
2	140	ZPLPE3-002
3	91	ZPLPE3-003
4	67	ZPLPE3-004
5	52	ZPLPE3-005
6	43	ZPLPE3-006
7	36	ZPLPE3-007
8	31	ZPLPE3-008
9	27	ZPLPE3-009
10	24	ZPLPE3-010

Height= Effective internal height of each drawer

Recommendations for additional storage sets can be found in our separate catalogue.

Please ask for a personal fitting option.



Laboratory Upright Freezer ProfiMaster PMU0452

- Alternatively with forced air circulation or static cooling
- Micro-processor driven temperature controller with digital display
 - Alarm device with independent circuit, visual/audible
 - No-volt remote alarm contact for connection to an alarm system on the premises
 - RS 485 port
- Exterior case contains stainless steel (CNS)
- Door lockable, door hinges on right
- Interior made of stainless steel (CNS)
- 1 height adjustable shelf
- Duct to storage compartment
- Height adjustable feet



ProfiMaster PMU0452EN

Model ProfiMaster		PMU0452EEU	PMU0452EEN
Temperature range	°C:	-10/-45	-10/-45
	:	Other temperature ranges available on request.	
	:	Forced air circulation	Static cooling
Content	litres (gross):	43	54
Ext. dimensions (WxDxH)	mm:	720x805x670	720x805x670
Int. dimensions (WxDxH)	mm:	480x275x330	480x340x330
Weight	kgs:	68	65
Mains connection	volts/Hz/ph:	230/50/1	230/50/1
Refrigerant	:	R507	R507
Shipping dimensions (WxDxH)	mm:	820x905x770	820x905x770
Shipping weight	kgs:	77	74

Alternative units: ProfiLine Pegasus PLPE 0486.

ProfiMaster + Accessories

Outside / Inside

Cat. No.

ProfiMaster PMU0452EEU	CNS / CNS	GSPMU0452EEU
ProfiMaster PMU0452EEN	CNS / CNS	GSPMU0450EEN

ProfiTec Temperature Monitoring and Recording System (see sep. brochure).

GPTEC4A

ProfiCaller telephone dialler (see sep. brochure).

ZXX2-009-TX

Pt-100 temperature sensor, add. installed for ext. temperature recording.

ZPM2-023-2L

Shelf 440x248 mm (WxD) for PMU0452EEU in the fan area.

ZPMU4-440x248

Shelf 440x310 mm (WxD).

ZPMU4-440x310

Angular guide rails for shelf (1 pair).

ZPMU4-024

Stainless steel insert with drawers (see below). Boxes optional.

on request

Stainless steel horizontal racks.

on request

MIN/MAX thermometer to be placed in refrigerators or freezers.

ZXX2-019-001

Measuring range -50/+50°C, an add. temperature sensor is not required.

MIN/MAX digital thermometer. Hand-held unit with digital display as well as data-hold and relative measuring function. Measuring range -200/+1370°C.

ZXX2-019-011

An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.

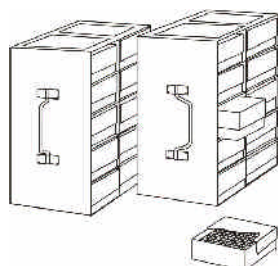
ZXX2-022-100

Temperature sensor for MIN/MAX thermometer ZXX2-019-011.

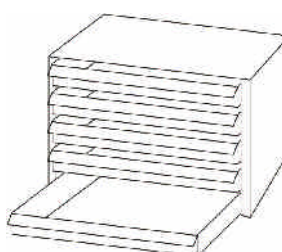
Measuring range -100/+1000°C. Length 2 m. Other ranges on request.

Storage System Alternatives

Stainless steel horizontal racks (modifiable)



Stainless steel insert with drawers (modifiable)



Innovation prize

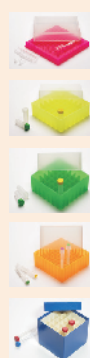
ProfiTec Intelligent Temperature Monitoring and Recording System



- For up to 4 refrigerators and/or freezers
- Readings are stored over a period up to 781 days
- Warning for excess and insufficient temperature
- Includes No-volt remote alarm contact
- The measuring protocol can be fed to PC via RS 232 port

Please ask for a personal fitting option.

Recommendations for additional storage sets can be found in our separate catalogue.



Laboratory Refrigerator and Upright Freezer LabMed

LM 05..WN

- Static cooling and manual defrost
- Analogue thermostat
- External housing made of white, galvanized steel plate
- Interior made of white ABS plastic
- 4 litres freezer compartment (only LM 0505WN)
- 1 plastic-plated grid insert
- 2 feet for height adjustment at front

LM 6025WN

- Static cooling and manual defrost
- Operating panel with main switch
 - Analogue thermostat and digital display (LED)
 - Visual alarm device
- Lockable door, door hinges on right, changeable
- Door seal changeable
- External housing and interior made of white, galvanized steel plate
- 5 plastic-plated grid inserts, height adjustable
- 4 castors, 2 feet for height adjustment at front



LabMed LM 05..WN



LabMed LM 6025WN

Model LabMed LM	LM 0505WN	LM 0522WN	LM 6025WN
Temperature range °C	-1/+8	-16/-24	-12/-25
Content litres (gross)	50	40	618
Ext. dimensions (WxDxH) mm	475x450x522	475x450x522	670x870x1960
Depth with door opened mm	895	895	1510
Weight kgs	16	18	130
Mains connection volts/Hz/ph	230/50/1	230/50/1	230/50/1
Refrigerant	R600a	R600a	R404A

Alternative units: ProfiFrost and LabStar Phoenix LSPH..24N.

LabMed LM + Accessories:

Cat. No.

LabMed LM 0505WN
LabMed LM 0522WN
LabMed LM 6025WN

GSLM0505WN
GSLM0522WN
GSLM6025WN

Alarm unit visual / audible, electronic control and digital display, ZLM2-005+110/-50
with no-volt remote contact (LM 6025WN only).

No-volt remote alarm contact for connection to a remote alarm system. ZXX2-070+10/-30
Digital temperature display incl. PTC temperature sensor. ZXX2-015-001

Measuring range +50/-50°C (LM05.. only).

ProfiTec Temperature Monitoring and Recording System (see sep. brochure). GPTEC4A

ProfiCaller telephone dialler (see sep. brochure).

ZXX2-009-TX

Pt-100 temperature sensor, add. installed for ext. temperature recording.

ZXX2-020-2L

MIN/MAX thermometer to be placed in refrigerators or freezers.

ZXX2-019-001

Measuring range -50/+50°C, an add. temperature sensor is not required.

MIN/MAX digital thermometer. Hand-held unit with digital display as well as data-hold and relative measuring function. Measuring range -200/+1370°C. ZXX2-019-011

An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.

Temperature sensor for MIN/MAX thermometer ZXX2-019-011.

ZXX2-022-100

Measuring range -100/+1000°C. Length 2 m. Other ranges on request.

Innovation prize

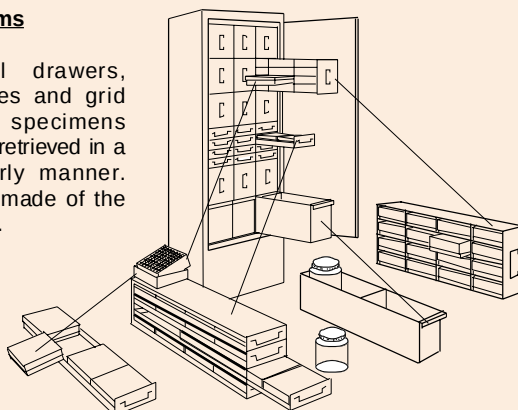
ProfiTec Intelligent Temperature Monitoring and Recording System



- For up to 4 refrigerators and/or freezers
- Readings are stored over a period up to 781 days
- Warning for excess and insufficient temperature
- Includes No-volt remote alarm contact
- The measuring protocol can be fed to PC via RS 232 port

Inventory Systems

Stainless steel drawers, freezer cassettes and grid inserts enable specimens to be stored and retrieved in a clear and orderly manner. Optimum use is made of the storage capacity.



Recommendations for additional storage sets can be found in our separate catalogue.



Please ask for a personal fitting option.



Http://www.Kryobox.de



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Laboratory Upright Freezer ProfiMaster PMU10..

- Static cooling and manual defrost (forced air circulation optional)
- Operating panel with micro-processor driven temperature controller and digital displays for set value and actual value
 - Visual/audible alarm device, mains-independent
 - No-volt remote alarm contact for connection to an alarm system on the premises
- RS 485 port
- 10 mV/K terminal for connection to a temperature recorder
- External housing made of stainless steel CNS
- Energy saving vacuum insulation
- Door lockable, door stop on left
- Interior made of stainless steel (CNS)
- 1 stainless steel shelf, perforated plate with 4 support brackets

Model ProfiMaster	PMU1050-1	PMU1050-2	PMU1080-1	PMU1080-2
Temperature range	°C: -10/-50	-10/-50	-50/-80	-50/-80
	Other temperature ranges available on request.			
Content litres (gross)	100	100	100	100
Ext. dimensions (WxDxH)	mm: 680x730x1160	930x630x745	680x730x1160	930x630x745
Int. dimensions (WxDxH)	mm: 453x453x503	453x453x503	453x453x503	453x453x503
Depth with door opened	mm: 1435	1335	1435	1335
Weight	kgs: 131	125	131	125
Mains connection	volts/Hz/ph: 230/50/1	230/50/1	230/50/1	230/50/1
Refrigerant	: R507	R507	R507/R508	R507/R508
Shipping dimensions	mm: 1020x780x1400	1020x780x790	1020x780x1400	1020x780x790
Shipping weight	kgs: 150	145	150	145



ProfiMaster PMU10.-1 figure with stainless steel insert (see accessories) and 50 mm EPPI® Boxes (see sep. brochure)

Alternative units: ProfiLine Pegasus PLPE 0486 and ProfiFrost.

Model	Outside / Inside	Cat. No.
ProfiMaster PMU1050-1	CNS / CNS	GSPMU1050-1
ProfiMaster PMU1050-2	CNS / CNS	GSPMU1050-2
ProfiMaster PMU1080-1	CNS / CNS	GSPMU1080-1
ProfiMaster PMU1080-2	CNS / CNS	GSPMU1080-2



ProfiMaster PMU10.-2 figure with EPPI-Rack inserts and EPPI® Boxes (see sep. brochure)

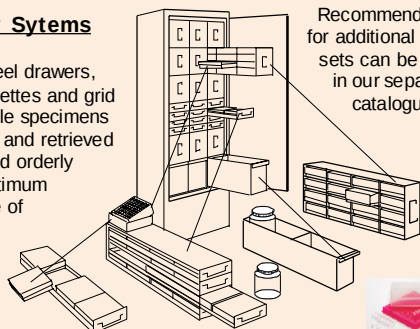
Accessories

Cat. No.

- ProfiTec Temperature Monitoring and Recording System (see sep. brochure). GPTC4A
- ProfiCaller telephone dialler (see sep. brochure). ZXX2-009-TX
- 30-day linear temperature recorder with fanfold paper (inside base cover). ZXX2-030S
- Spare paper for 30-day linear temperature recorder (pack with 10 pcs.). ZXX2-034
- Pt-100 temperature sensor, add. installed for ext. temperature recording. ZPM2-023-2L
- Forced Air Circulation (not for -80°C-Version). on request
- CO₂ back-up system, free-standing. ZXX2-092
- Facilities for customer connection of CO₂ back-up system. ZPM2-094
- 4 castors (2 lockable), factory assembled. ZXX5-020
- Stainless steel shelf, perforated plate, 4 support brackets. ZPMU4-444x440CNS
- Duct to storage compartment 19 mm in diameter. ZPM1-002-20
- Stainless steel insert for 50 mm Cryo Boxes (see fig.PMU 10.-1). ZPMU3-001
- Modifications for other boxes on request.
- MIN/MAX thermometer to be placed in refrigerators or freezers. ZXX2-019-001
- Measuring range -50/+50°C, an add. temperature sensor is not required. ZXX2-019-011
- MIN/MAX digital thermometer. Hand-held unit with digital display as well as data-hold and relative measuring function. Measuring range -200/+1370°C. An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.
- Temperature sensor for MIN/MAX thermometer ZXX2-019-011. ZXX2-022-100
- Measuring range -100/+1000°C. Length 2 m. Other ranges on request.

Inventory Sytems

Stainless steel drawers, freezer cassettes and grid inserts enable specimens to be stored and retrieved in a clear and orderly manner. Optimum use is made of the storage capacity.



Recommendations for additional storage sets can be found in our separate catalogue.



Please ask for a personal fitting option.

Innovation prize

ProfiTec Intelligent Temperature Monitoring and Recording System



- For up to 4 refrigerators and/or freezers
- Readings are stored over a period up to 781 days
- Warning for excess and insufficient temperature
- Includes No-volt remote alarm contact
- The measuring protocol can be fed to PC via RS 232 port



MIN/MAX digital thermometer with add. temperature sensor

Laboratory Upright Freezer ProfiFrost PFU / PF

- Static cooling and manual defrost
- Maintenance-free cooling system
- Low-noise and low-vibration fully hermetic compressor, air-cooled
- Operating panel with micro-processor driven temperature controller and digital display in separate upright housing (can be positioned as per customer requirements)
- Visual/audible alarm device
 - Mains-independent
 - Alarm warning for excess and insufficient temperature
 - No-volt remote alarm contact for connection to a remote alarm system
 - RS 485 port
- External housing made of white, galvanized steel plate
- Freeze-proof special seal
- Lockable door (PFU14.. only, others on request)
- Door hinges on right, changeable
- Interior with closed removable plastic drawers (PFU14.. with 1 additional storage basket. PF27.. with 2 additional compartments above.)
- Feet made of plastic (PVC) (at PF27.. front feet of cabinet allow for height adjustment, two castors at rear)



ProfiFrost PFU1446WN ** incl. temperature controller with graphic display (see option)

Model ProfiFrost PFU / PF...WN	0832	0842	0846	1432	1442	1446	2732	2742	2746
Temperature range °C:	-16/-30	-40	-16/-45	-14/-30	-40	-14/-45	-16/-32	-40	-16/-45
Content litres gross:	70	70	70	143	143	143	241	241	241
Ext. dimensions (WxDxH) mm:	< 555x624x630* >			< 600x615x830* >			< 600x650x1700* >		
Depth with door opened mm:	1165	1165	1260	1215	1215	1215	1140	1140	1140
Weight kgs:	31	31	31	45	45	45	73	73	73
Mains connection volts/Hz/ph:	< 220-230/50/1 >			< 220-230/50/1 >			< 220-230/50/1 >		
Refrigerant	R600a	R507	R507	R600a	R507	R507	R600a	R507	R507
Number of drawers/compartments	2/0	2/0	2/0	3/1	3/1	3/1	5/2	5/2	5/2
Shipping dimensions (WxDxH) mm:	< 700x750x790 >			< 700x750x990 >			< 700x750x1860 >		
Shipping weight kgs:	40	40	40	54	54	54	83	83	83

* Positioning the upright housing¹⁾ with the operating panel on the cabinet increases the height by 90 mm.
The flexible connecting lead allows the unit to be positioned as per customer requirements.

¹⁾ Only in the case of models down to -30°C can the temperature controller be integrated into the top panel (the separate upright housing is no longer required). Please ask.

Model	Outside / Inside	Cat. No.
ProfiFrost PFU0832WN	white / white	GSPFU0832WN
ProfiFrost PFU0842WN	white / white	GSPFU0842WN
ProfiFrost PFU0846WN	white / white	GSPFU0846WN
ProfiFrost PFU1432WN	white / white	GSPFU1432WN
ProfiFrost PFU1442WN	white / white	GSPFU1442WN
ProfiFrost PFU1446WN	white / white	GSPFU1446WN
ProfiFrost PF2732WN	white / white	GSPF2732WN
ProfiFrost PF2742WN	white / white	GSPF2742WN
ProfiFrost PF2746WN	white / white	GSPF2746WN



ProfiFrost PF2732WN **

Accessories	Cat. No.
Temperature controller with graphics display and data logger for recording events (temperature change, exceeding limits, alarms triggered).	ZPF2-045-002
ProfiTec Temperature Monitoring and Recording System (see sep. brochure).	GPTEC4A
ProfiCaller telephone dialler (see sep. brochure).	ZXX2-009-TX
Pt-100 temperature sensor, add. installed for ext. temperature recording.	ZPM2-023-2L
Ex-Version „Interior free of ignition sources.“	ZPF1-070
Transport carriage with 4 castors (2 lockable).	ZPFU5-021
Door lock, factory mounted PFU08.. and PF27.. only).	on request

** The arrangement system (cryoboxes, etc.) that can be seen in the laboratory freezers is optional.
See our separate catalogue for Inventory Systems.



Option temperature controller with graphic display and data logger

Laboratory Upright Freezer ProfiLine Pegasus PLPE 4146/4186

- Static cooling and manual defrost
- Micro-processor driven temperature controller with digital display
- Visual/audible alarm device
 - Mains-independent
 - Alarm warning for excess and insufficient temperature
 - Door alarm
 - No-volt remote alarm contact for connection to a remote alarm system
 - RS 485 port
- Lockable door, door hinges on right, can only be changed in factory
- External housing made of white, galvanized steel plate
- Interior made of stainless steel CNS
- 5 compartments with additional inner doors
- 4 castors, 2 lockable



ProfiLine Pegasus PLPE 4186

Model ProfiLine Pegasus	PLPE 4146	PLPE 4186
Temperature range	°C: -20/-45	-40/-85
Content (net)	litres: 413	413
Ext. dimensions (WxDxH)	mm: 720x880x2090	720x880x2090
Int. dimensions of the 4 upper comp. (WxDxH)	mm: 440x595x255	440x595x255
Int. dimensions of the lowest comp. (WxDxH)	mm: 440x595x325	440x595x325
Depth with door opened	mm: 1475	1475
Weight	kgs: 185	185
Mains connection	volts/Hz/ph: 230/50/1	230/50/1
Refrigerant	: R507	EP88
Shipping dimensions	mm: 870x975x2250	870x975x2250
Shipping weight	kgs: 217	217

ProfiLine Pegasus + Accessories:

Cat. No.

ProfiLine Pegasus PLPE 4146
ProfiLine Pegasus PLPE 4186

GSPLPE4146
GSPLPE4186

ProfiTec Temperature Monitoring and Recording System (see sep. brochure).

GPTEC4A

ProfiCaller telephone dialler (see sep. brochure).

ZXX2-009-TX

Pt-100 temperature sensor, add. installed for ext. temperature recording.

ZXX2-020-2L

CO₂ back-up system, free-standing.

ZXX2-092

Facilities for customer connection of CO₂ back-up system.

ZPLPE2-094

MIN/MAX thermometer to be placed in refrigerators or freezers.

ZXX2-019-001

Measuring range -50/+50°C, an add. temperature sensor is not required.

MIN/MAX digital thermometer. Hand-held unit with digital display as well as data-hold and relative measuring function. Measuring range -200/+1370°C.

ZXX2-019-011

An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.

ZXX2-022-100

Temperature sensor for MIN/MAX thermometer ZXX2-019-011.

Measuring range -100/+1000°C. Length 2 m. Other ranges on request.

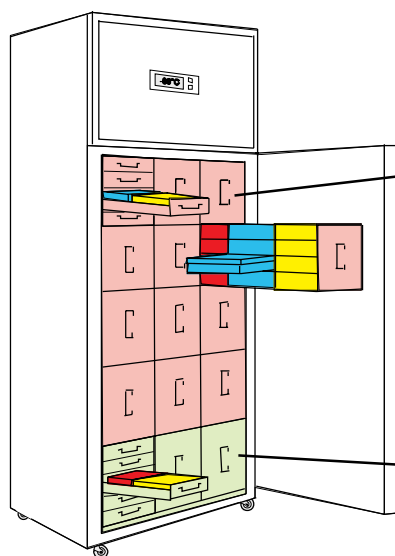
Innovation prize

ProfiTec Intelligent Temperature Monitoring and Recording System



- For up to 4 refrigerators and/or freezers
- Readings are stored over a period up to 781 days
- Warning for excess and insufficient temperature
- Includes No-volt remote alarm contact
- The measuring protocol can be fed to PC via RS 232 port

Storage System (modifiable)



4 compartments each with 3 stainless steel drawers to hold 16 boxes (height 50 mm) each.
12 x 16 = 192 boxes

50 mm

ALPHA Box



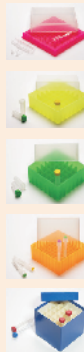
BRAVO Box

EPPI® Box

1 compartment with 3 stainless steel drawers to hold 20 boxes (height 50 mm) each.
3 x 20 = 60 boxes

Please ask for a personal fitting option.

Recommendations for additional storage sets can be found in our separate catalogue.



Laboratory Upright Freezer ProfiLine Pegasus PLPE 45..

- Static cooling and manual defrost
- Most reliable and less complicated compressor technology from Danfoss, low-noise
- Micro-processor driven temperature controller with digital display
- Visual/audible alarm device
 - Mains-independent
 - Alarm warning for excess and insufficient temperature
 - No-volt remote alarm contact for connection to a remote alarm system
- External housing made of stainless steel CNS
- Sturdy cabinet doors, double-walled and well insulated, balanced and easy to operate
- Door hinges on right, changeable
- Freeze-proof special seal
- Interior made of stainless steel CNS
- 5 inner doors inside the cabinet reduce cold losses on opening
- 4 castors, 2 lockable



ProfiLine Pegasus PLPE 45..

Model ProfiLine Pegasus	PLPE 4540	PLPE 4586
Temperature range	°C: -20/-40	-40/-85
Content	litres (gross): 450	450
Ext. dimensions (WxDxH)	mm: 678x785x2190	678x785x2190
Int. dimensions of the 3 upper comp. (WxDxH)	mm: 480x586x257	480x586x257
Int. dimensions of the 2 lower comp. (WxDxH)	mm: 480x586x318	480x586x318
Depth with door opened	mm: 1500	1500
Weight	kgs: 140	140
Mains connection	volts/Hz/ph: 230/50-60/1	230/50-60/1
Refrigerant	: R404A	EP88

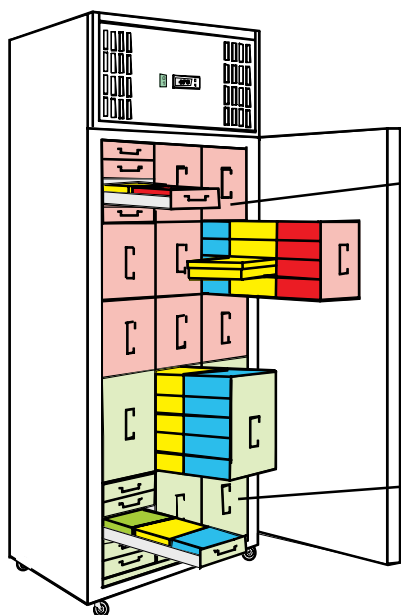
ProfiLine Pegasus + Accessories:

Cat. No.

ProfiLine Pegasus PLPE 4540	GSPLPE4540
ProfiLine Pegasus PLPE 4586	GSPLPE4586
ProfiTec Temperature Monitoring and Recording System (see sep. brochure).	GPTEC4A
ProfiCaller telephone dialler (see sep. brochure).	ZXX2-009-TX
Temperature recorder, 7 days, circular chart.	on request
Pt-100 temperature sensor, add. installed for ext. temperature recording.	ZXX2-020-2L
CO ₂ back-up system, free-standing.	ZXX2-092
Facilities for customer connection of CO ₂ back-up system.	ZPLPE2-094
Water-cooled version (water-cooled condenser).	on request
MIN/MAX digital thermometer. Hand-held unit with digital display as well as ZXX2-019-011 data-hold and relative measuring function. Measuring range -200/+1370°C.	
An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.	
Temperature sensor for MIN/MAX thermometer ZXX2-019-011.	ZXX2-022-100
Measuring range -100/+1000°C. Length 2 m. Other ranges on request.	

Storage System (modifiable)

3 compartments each with 3 stainless steel drawers to hold 16 boxes (height 50 mm) each.
9 x 16 = 144 boxes



50 mm
ALPHA Box
BRAVO Box
EPPI® Box

2 compartments each with 3 stainless steel drawers to hold 20 boxes (height 50 mm) each.
6 x 20 = 120 boxes

Innovation prize

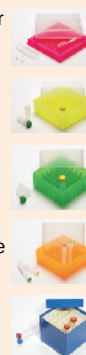
ProfiTec Intelligent Temperature Monitoring and Recording System



- For up to 4 refrigerators and/or freezers
- Readings are stored over a period up to 781 days
- Warning for excess and insufficient temperature
- Includes No-volt remote alarm contact
- The measuring protocol can be fed to PC via RS 232 port

Please ask for a personal fitting option.

Recommendations for additional storage sets can be found in our separate catalogue.



Laboratory Upright Freezer ProfiLine PLECU

- Static cooling and manual defrost
- Low-noise and low-vibration fully hermetic compressor, air-cooled and low-maintenance
- Operating panel with key-operated main switch
 - Electronic control with digital display
 - Visual/audible alarm device, mains-independent
 - Alarm warning for excess and insufficient temperature
 - No-volt remote alarm contact for connection to an alarm system on the premises
- Auto-voltage safeguard (12 VAC auto-boost)
- Double door gaskets and 5 inner doors to minimize cold air loss
- Sturdy cabinet doors, double-walled and well insulated, balanced and easy to operate
- External housing made of white corrosion-resistant, galvanized steel plate with high-impact epoxy finish, easy to clean
- White corrosion-resistant interior with smooth surface for optimum use, easy to clean
- Duct to storage compartment 25 mm in diameter
- 4 castors with brakes (PLECU41405 without brakes)



ProfiLine PLECU 51405

Model ProfiLine	PLECU 41405	PLECU 51405	PLECU 61405
Temperature range	°C: -10/-40	-10/-40	-10/-40
Content	litres gross: 368	490	651
Ext. dimensions (WxDxH)	mm: 846x836x1979	846x940x1979	1036x940x1979
Int. Dimensions (WxDxH)	mm: 584x490x1308	584x643x1308	777x643x1308
Depth with door opened	mm: 1641	1793	1930
Weight	kgs: 268	321	344
Mains connection	volts/Hz/ph: 230/50/1	230/50/1	230/50/1
Refrigerant	: Mix	Mix	Mix
Shipping dimensions	mm: 1050x1020x2100	1060x1180x2100	1250x1180x2100
Shipping weight	kgs: 298	351	374

Alternative units: ProfiFrost and ProfiLine Pegasus.

ProfiLine PLECU + Accessories:

Cat. No.

ProfiLine PLECU 41405	GSPLECU41405
ProfiLine PLECU 51405	GSPLECU51405
ProfiLine PLECU 61405	GSPLECU61405

ProfiTec Temperature Monitoring and Recording System (see sep. brochure). GPTEC4A

ProfiCaller telephone dialler (see sep. brochure).	ZXX2-009-TX
Pt-100 temperature sensor, add. installed for ext. temperature recording.	ZPL2-020-2L
Temperature recorder, 7-day drive, 6" circular chart. Factory installed.	ZXX2-031-85
6" 7-day circular charts. Pck. of 100 pieces.	ZXX2-032-115
CO ₂ back-up system, free-standing.	ZXX2-090
Water-cooled condenser.	ZPL9-010
MIN/MAX thermometer to be placed in refrigerators or freezers.	ZXX2-019-001
Measuring range -50/+50°C, an add. temperature sensor is not required.	
MIN/MAX digital thermometer. Hand-held unit with digital display as well as data-hold and relative measuring function. Measuring range -200/+1370°C.	ZXX2-019-011
An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.	
Temperature sensor for MIN/MAX thermometer ZXX2-019-011.	ZXX2-022-100
Measuring range -100/+1000°C. Length 2 m. Other ranges on request.	

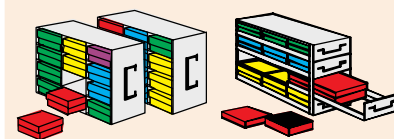
Innovationspreis

ProfiTec Intelligent Temperature Monitoring and Recording System



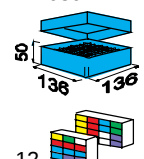
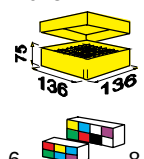
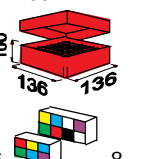
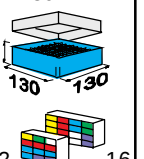
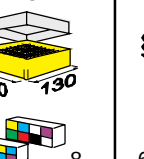
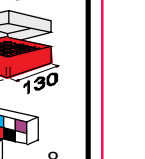
- For up to 4 refrigerators and/or freezers
- Readings are stored over a period up to 781 days
- Warning for excess and insufficient temperature
- Includes No-volt remote alarm contact
- The measuring protocol can be fed to PC via RS 232 port

Stainless steel horizontal racks and drawer racks:



See sep. brochure.

Storage System (modifiable)

Summary Stainless steel horizontal racks for upright freezers.	ALPHA Boxes (fiberboard)			EPPI® Cryo Boxes (Polypropylene)		
	KA1050..	KA1075..	KA1100..	EPPI® 50	EPPI® 75	EPPI® 102
						
	12	6	6	12	6	6
	No. of Racks x Boxes	No. of Racks x Boxes	No. of Racks x Boxes	No. of Racks x Boxes	No. of Racks x Boxes	No. of Racks x Boxes
Model No.						
PLECU 41..5	20 x 12	20 x 6	20 x 6	20 x 12	20 x 6	20 x 6
PLECU 51..5	20 x 16	20 x 8	20 x 8	20 x 16	20 x 8	20 x 8
PLECU 61..5	25 x 16	25 x 8	25 x 8	25 x 16	25 x 8	25 x 8

Alternatives and additional storage systems can be found in our separate catalogue.

Laboratory Upright Freezer ProfiLine PLECU

- Static cooling and manual defrost
- Low-noise and low-vibration fully hermetic compressor, air-cooled and low-maintenance
- Operating panel with key-operated main switch
 - Electronic control with digital display
 - Visual/audible alarm device, mains-independent
 - Alarm warning for excess and insufficient temperature
 - No-volt remote alarm contact for connection to an alarm system on the premises
- Auto-voltage safeguard (12 VAC auto-boost)
- Double door gaskets and 5 inner doors to minimize cold air loss
- Sturdy cabinet doors, double-walled and well insulated, balanced and easy to operate
- External housing made of white corrosion-resistant, galvanized steel plate with high-impact epoxy finish, easy to clean
- White corrosion-resistant interior with smooth surface for optimum use, easy to clean
- Duct to storage compartment 25 mm in diameter
- 4 castors with brakes (PLECU41865 without brakes)



ProfiLine PLECU 51865

Model ProfiLine	PLECU 41865	PLECU 51865	PLECU 61865	PLECU 71865
Temperature range °C: -50/-86	-50/-86	-50/-86	-50/-86	-50/-86
Content litres gross: 368	490	651	793	
Ext. dimensions (WxDxH) mm: 846x836x1979	846x940x1979	1036x940x1979	1189x940x1979	
Int. dimensions (WxDxH) mm: 584x490x1308	584x643x1308	777x643x1308	930x686x1308	
Depth with door opened mm: 1641	1793	1930	2136	
Weight kgs: 293	346	369	464	
Mains connection volts/Hz/ph: 230/50/1	230/50/1	230/50/1	230/50/1	
Refrigerant : Mix	Mix	Mix	Mix	
Shipping dimensions mm: 1050x1020x2100	1060x1180x2100	1250x1180x2100	1410x1180x2100	
Shipping weight kgs: 323	376	399	494	

Alternative units: ProfiLine Pegasus.

ProfiLine PLECU + Accessories:

Cat. No.

ProfiLine PLECU 41865	GSPLECU41865
ProfiLine PLECU 51865	GSPLECU51865
ProfiLine PLECU 61865	GSPLECU61865
ProfiLine PLECU 71865	GSPLECU71865

ProfiTec Temperature Monitoring and Recording System (see sep. brochure). GPTEC4A

ProfiCaller telephone dialler (see sep. brochure). ZXX2-009-TX

Pt-100 temperature sensor, add. installed for ext. temperature recording. ZPL2-020-2L

Temperature recorder, 7-day drive, 6" circular chart. Factory installed. ZXX2-031-85

6" 7-day circular charts. Pck. of 100 pieces. ZXX2-032-115

CO₂ back-up system, free-standing. ZXX2-090

Water-cooled condenser. ZPL9-010

MIN/MAX digital thermometer. Hand-held unit with digital display as well as data-hold and relative measuring function. Measuring range -200/+1370°C. ZXX2-019-011

An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.

Temperature sensor for MIN/MAX thermometer ZXX2-019-011. ZXX2-022-100

Measuring range -100/+1000°C. Length 2 m. Other ranges on request.

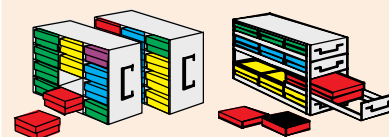
Innovationspreis

ProfiTec Intelligent Temperature Monitoring and Recording System



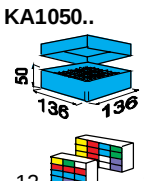
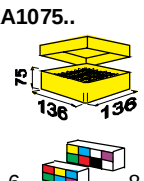
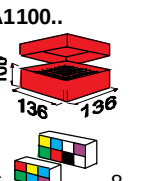
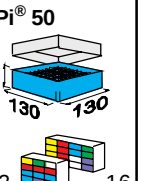
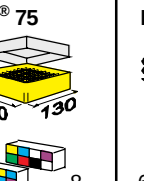
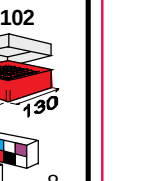
- For up to 4 refrigerators and/or freezers
- Readings are stored over a period up to 781 days
- Warning for excess and insufficient temperature
- Includes No-volt remote alarm contact
- The measuring protocol can be fed to PC via RS 232 port

Stainless steel horizontal racks and drawer racks:



See sep. brochure.

Storage System (modifiable)

Summary Stainless steel horizontal racks for upright freezers.	ALPHA Boxes (fiberboard)			EPPI® Cryo Boxen (Polypropylene)		
	KA1050..	KA1075..	KA1100..	EPPI® 50	EPPI® 75	EPPI® 102
						
	12	6	6	12	6	6
	No. of Racks x Boxes	No. of Racks x Boxes	No. of Racks x Boxes	No. of Racks x Boxes	No. of Racks x Boxes	No. of Racks x Boxes
Model No.						
PLECU 41.5	20 x 12	20 x 6	20 x 6	20 x 12	20 x 6	20 x 6
PLECU 51.5	20 x 16	20 x 8	20 x 8	20 x 16	20 x 8	20 x 8
PLECU 61.5	25 x 16	25 x 8	25 x 8	25 x 16	25 x 8	25 x 8
PLECU 71.5	30 x 16	30 x 8	30 x 8	30 x 16	30 x 8	30 x 8

Alternatives and additional storage systems can be found in our separate catalogue.

Laboratory Refrigerator and Upright Freezer LabStar Sirius

- Forced air circulation with automatic defrost and condensate evaporation
- Cooling unit top
- Operating panel with main switch
 - Electronic control with digital display
 - Visual/audible alarm device
 - Alarm warning for excess and insufficient temperature
 - Door alarm
 - No-volt remote alarm contact for connection to a remote alarm system
- RS 485 port
- Self-closing and lockable door
- Door hinges on right, changeable
- Door seal changeable
- 3 adjustable grid inserts in tilt-resistant guide rails
- Interior made of stainless steel CNS
- 4 castors, 2 lockable

Forced Air Circulation



LabStar Sirius LSSI 7505EWU
(With accessories Inventory Systems. See sep. brochure.)

Model LabStar Sirius	LSSI 3505	LSSI 3505	LSSI 3530
Version	EWU/EEU	GEWU/GEEU Glass door	EWU/EEU
Temperature range °C:	+1/+10	+1/+10	-10/-30
Content litres (gross):	346	346	346
Content litres (net):	218	218	218
Ext. dimensions (WxDxH) mm:	520x700x1997	520x700x1997	520x700x1997
Int. dimensions (WxDxH) mm:	400x575x1505	400x575x1505	400x575x1505
Depth with door opened mm:	1182	1182	1182
Weight kgs:	98	98	103
Mains connection volts/Hz/ph:	230/50-60/1	230/50-60/1	230/50-60/1
Grid inserts :	3	3	3
Shipping dimensions (WxDxH) mm:	650x780x2200	650x780x2200	650x780x2200
Shipping weight kgs:	112	112	117
Refrigerant :	R134a	R134a	R404A

LabStar Sirius + Accessories:

Outside / Inside

Cat. No.

LabStar Sirius LSSI 3505EWU	white / CNS	GSLSSI3505EWU
LabStar Sirius LSSI 3505EEU	CNS / CNS	GSLSSI3505EEU
LabStar Sirius LSSI 3505GEWU	white, glass door / CNS	GSLSSI3505GEWU
LabStar Sirius LSSI 3505GEEU	CNS, glass door / CNS	GSLSSI3505GEEU
LabStar Sirius LSSI 3530EWU	white / CNS	GSLSSI3530EWU
LabStar Sirius LSSI 3530EEU	CNS / CNS	GSLSSI3530EEU

ProfiTec Temperature Monitoring and

GPTEC4A

Recording System (see sep. brochure).

ProfiCaller telephone dialler (see sep. brochure).

ZXX2-009-TX

Pt-100 temperature sensor, add. installed for ext. temperature recording.

ZXX2-020-2L

Grid inserts, 330x545 mm (WxD).

ZLSSI4-330x545

Guide rails for grid inserts (1 pair).

ZLSSI4-023

Drawer with telescopic slide-out for LSSI 35xx, made of CNS.

ZLSSI4-003

Interior socket, tropical design.

ZLSSI1-001-01

Feet instead of castors, made of CNS (50 mm height adjustable).

ZLSSI5-021-125

Duct to storage compartment 26 mm in diameter.

ZLSSI1-002-26

MIN/MAX thermometer to be placed in refrigerators or freezers.

ZXX2-019-001

Measuring range -50/+50°C, an add. temperature sensor is not required.

ZXX2-019-011

MIN/MAX digital thermometer. Hand-held unit with digital display as well as

data-hold and relative measuring function. Measuring range -200/+1370°C.

An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.

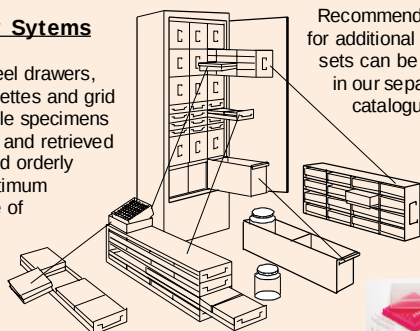
ZXX2-022-100

Temperature sensor for MIN/MAX thermometer ZXX2-019-011.

Measuring range -100/+1000°C. Length 2 m. Other ranges on request.

Inventory Systems

Stainless steel drawers, freezer cassettes and grid inserts enable specimens to be stored and retrieved in a clear and orderly manner. Optimum use is made of the storage capacity.

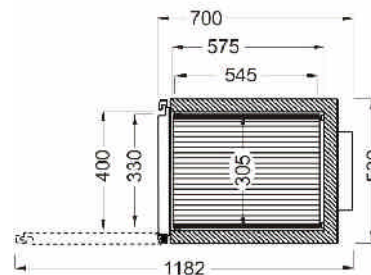


Recommendations for additional storage sets can be found in our separate catalogue.

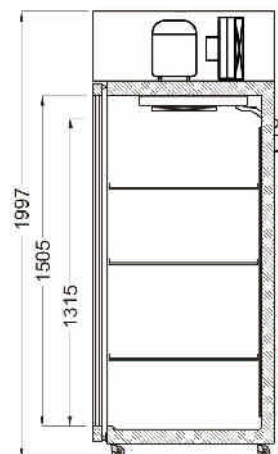


Please ask for a personal fitting option.

Top view



Side view



Http://www.Kryobox.de



National Lab GmbH
Tel.: +49 45 42 / 84 91 - 70
Fax: +49 45 42 / 84 91 - 71
e-Mail: LabSales@NationalLab.com

Grambeker Weg 157
D-23879 Moeln

Laboratory Refrigerator and Upright Freezer LabStar Sirius

- Forced air circulation with automatic defrost and condensate evaporation
- Cooling unit top
- Operating panel with main switch
 - Electronic control with digital display
 - Visual/audible alarm device
 - Alarm warning for excess and insufficient temperature
 - Door alarm
 - No-volt remote alarm contact for connection to a remote alarm system
- RS 485 port
- Self-closing and lockable door
- Door hinges on right, changeable
- Door seal changeable
- 5 adjustable grid inserts in tilt-resistant guide rails
- Interior made of stainless steel CNS
- 4 castors, 2 lockable

Forced Air Circulation



LabStar Sirius LSSI 7505EWU
(With accessories Inventory Systems. See sep. brochure.)

Model LabStar Sirius	LSSI 5005	LSSI 5005	LSSI 5030	LSSI 5025
Version	EWU/EEU	GEWU/GEEU Glass door	EWU/EEU	GEWU/GEEU Glass door
Temperature range	°C: +1/+10	+1/+10	-10/-30	-10/-23
Content litres (gross):	515	523	515	523
Content litres (net):	348	354	348	354
Ext. dimensions (WxDxH)	mm: 620x860x1997	620x860x1997	620x860x1997	620x860x1997
Int. dimensions (WxDxH)	mm: 500x685x1505	500x695x1505	500x685x1505	500x695x1505
Depth with door opened	mm: 1440	1440	1440	1440
Weight	kgs: 106	106	114	114
Mains connection	volts/Hz/ph: 230/50-60/1	230/50-60/1	230/50-60/1	230/50-60/1
Grid inserts	: 5	5	5	5
Shipping dimensions (WxDxH)	mm: 700x880x2200	700x880x2200	700x880x2200	700x880x2200
Shipping weight	kgs: 117	117	125	125
Refrigerant	: R134a	R134a	R404A	R404A

LabStar Sirius + Accessories:

Outside / Inside

Cat. No.

LabStar Sirius LSSI 5005EWU	white / CNS	GSLSSI5005EWU
LabStar Sirius LSSI 5005EEU	CNS / CNS	GSLSSI5005EEU
LabStar Sirius LSSI 5005GEWU	white, glass door / CNS	GSLSSI5005GEWU
LabStar Sirius LSSI 5005GEEU	CNS, glass door / CNS	GSLSSI5005GEEU
LabStar Sirius LSSI 5030EWU	white / CNS	GSLSSI5030EWU
LabStar Sirius LSSI 5030EEU	CNS / CNS	GSLSSI5030EEU
LabStar Sirius LSSI 5025GEWU	white, glass door / CNS	GSLSSI5025GEWU
LabStar Sirius LSSI 5025GEEU	CNS, glass door / CNS	GSLSSI5025GEEU

ProfiTec Temperature Monitoring and Recording System (see sep. brochure).

GPTEC4A

ProfiCaller telephone dialler (see sep. brochure).

ZXX2-009-TX

Pt-100 temperature sensor, add. installed for ext. temperature recording.

ZXX2-020-2L

Grid inserts, 430x655 mm (WxD).

ZLSSI4-430x655

Guide rails for grid inserts (1 pair).

ZLSSI4-024

Drawer with telescopic slide-out for LSSI 50xx, made of CNS.

ZLSSI4-001

Interior socket, tropical design.

ZLSSI1-001-01

Feet instead of castors, made of CNS (50 mm height adjustable).

ZLSSI5-021-125

Duct to storage compartment 26 mm in diameter.

ZLSSI1-002-26

Door hinges factory-mounted on left.

ZLSSI5-001

MIN/MAX thermometer to be placed in refrigerators or freezers.

ZXX2-019-001

Measuring range -50/+50°C, an add. temperature sensor is not required.

ZXX2-019-011

MIN/MAX digital thermometer. Hand-held unit with digital display as well as data-hold and relative measuring function. Measuring range -200/+1370°C.

ZXX2-019-011

An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.

ZXX2-022-100

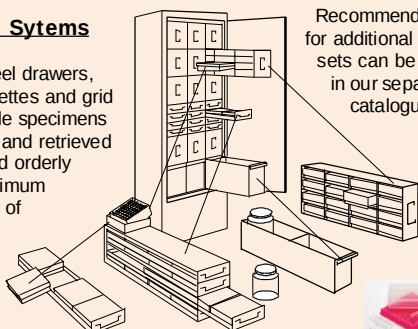
Temperature sensor for MIN/MAX thermometer ZXX2-019-011.

ZXX2-022-100

Measuring range -100/+1000°C. Length 2 m. Other ranges on request.

Inventory Systems

Stainless steel drawers, freezer cassettes and grid inserts enable specimens to be stored and retrieved in a clear and orderly manner. Optimum use is made of the storage capacity.



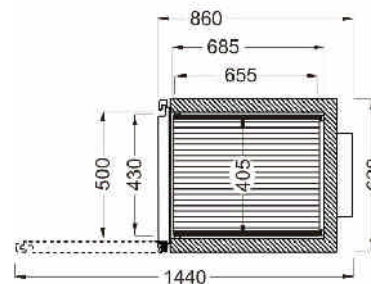
Recommendations for additional storage sets can be found in our separate catalogue.



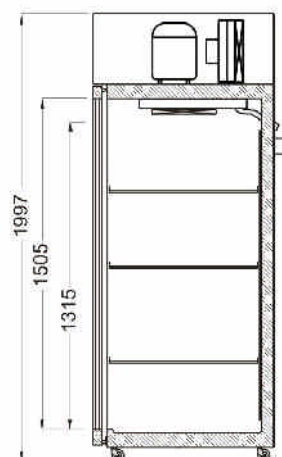
Please ask for a personal fitting option.



Top view



Side view



Http://www.Kryobox.de



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Grambeker Weg 157
D-23879 Moeln

Laboratory Refrigerator and Upright Freezer LabStar Sirius

- Forced air circulation with automatic defrost and condensate evaporation
- Cooling unit top
- Operating panel with main switch
 - Electronic control with digital display
 - Visual/audible alarm device
 - Alarm warning for excess and insufficient temperature
 - Door alarm
 - No-volt remote alarm contact for connection to a remote alarm system
- RS 485 port
- Self-closing and lockable door
- Door hinges on right, changeable
- Door seal changeable
- 3 adjustable grid inserts in tilt-resistant guide rails
- Interior made of stainless steel CNS
- 4 castors, 2 lockable

Forced Air Circulation



LabStar Sirius LSSI 7505EWU
(With accessories Inventory Systems. See sep. brochure.)

Model LabStar Sirius	LSSI 7505	LSSI 7505	LSSI 7530	LSSI 7525
Version	EWU/EEU	GEWU/GEEU Glass door	EWU/EEU	GEWU/GEEU Glass door
Temperature range	°C: +1/+10	+1/+10	-10/-30	-10/-23
Content litres (gross):	618	627	618	627
Content litres (net):	435	441	435	441
Ext. dimensions (WxDxH)	mm: 720x860x1997	720x860x1997	720x860x1997	720x860x1997
Int. dimensions (WxDxH)	mm: 600x685x1505	600x695x1505	600x685x1505	600x695x1505
Depth with door opened	mm: 1540	1540	1540	1540
Weight	kgs: 117	117	121	121
Mains connection	volts/Hz/ph: 230/50-60/1	230/50-60/1	230/50-60/1	230/50-60/1
Grid inserts	: 3	3	3	3
Shipping dimensions (WxDxH)	mm: 800x900x2200	800x900x2200	800x900x2200	800x900x2200
Shipping weight	kgs: 129	129	133	133
Refrigerant	: R134a	R134a	R404A	R404A

LabStar Sirius + Accessories:

Outside/ Inside

Cat. No.

LabStar Sirius LSSI 7505EWU	white / CNS	GSLSSI7505EWU
LabStar Sirius LSSI 7505EEU	CNS / CNS	GSLSSI7505EEU
LabStar Sirius LSSI 7505GEWU	white, glass door / CNS	GSLSSI7505GEWU
LabStar Sirius LSSI 7505GEEU	CNS, glass door / CNS	GSLSSI7505GEEU
LabStar Sirius LSSI 7530EWU	white / CNS	GSLSSI7530EWU
LabStar Sirius LSSI 7530EEU	CNS / CNS	GSLSSI7530EEU
LabStar Sirius LSSI 7525GEWU	white, glass door / CNS	GSLSSI7525GEWU
LabStar Sirius LSSI 7525GEEU	CNS, glass door / CNS	GSLSSI7525GEEU

ProfiTec Temperature Monitoring and Recording System (see sep. brochure).

GPTEC4A

ProfiCaller telephone dialler (see sep. brochure).

ZXX2-009-TX

Pt-100 temperature sensor, add. installed for ext. temperature recording.

ZXX2-020-2L

Grid inserts, 530x655 mm (WxD).

ZLSSI4-530x655

Guide rails for grid inserts (1 pair).

ZLSSI4-024

Drawer with telescopic slide-out for LSSI 75xx, made of CNS.

ZLSSI4-002

Interior socket, tropical design.

ZLSSI1-001-01

Feet instead of castors, made of CNS (50 mm height adjustable).

ZLSSI5-021-125

Duct to storage compartment 26 mm in diameter.

ZLSSI1-002-26

Door hinges factory-mounted on left.

ZLSSI5-001

MIN/MAX thermometer to be placed in refrigerators or freezers.

ZXX2-019-001

Measuring range -50/+50°C, an add. temperature sensor is not required.

ZXX2-019-011

MIN/MAX digital thermometer. Hand-held unit with digital display as well as data-hold and relative measuring function. Measuring range -200/+1370°C.

ZXX2-019-011

An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.

ZXX2-022-100

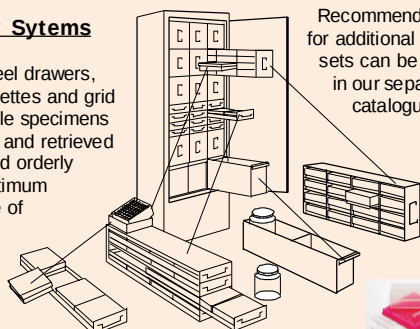
Temperature sensor for MIN/MAX thermometer ZXX2-019-011.

ZXX2-022-100

Measuring range -100/+1000°C. Length 2 m. Other ranges on request.

Inventory Systems

Stainless steel drawers, freezer cassettes and grid inserts enable specimens to be stored and retrieved in a clear and orderly manner. Optimum use is made of the storage capacity.



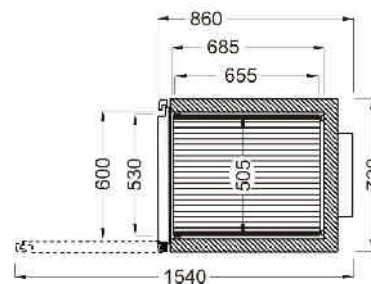
Recommendations for additional storage sets can be found in our separate catalogue.



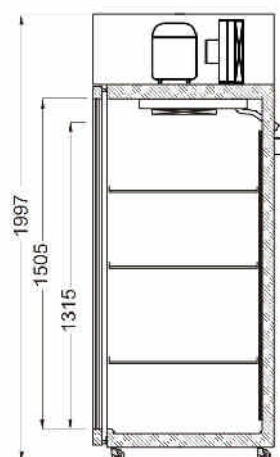
Please ask for a personal fitting option.



Top view



Side view



Http://www.Kryobox.de



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Laboratory Refrigerator and Upright Freezer LabStar Sirius

- Forced air circulation with automatic defrost and condensate evaporation
- Cooling unit top
- Operating panel with main switch
 - Electronic control with digital display
 - Visual/audible alarm device
 - Alarm warning for excess and insufficient temperature
 - Door alarm
 - No-volt remote alarm contact for connection to a remote alarm system
- RS 485 port
- Self-closing and lockable doors
- Door seal changeable
- 6 adjustable grid inserts in tilt-resistant guide rails
- Interior made of stainless steel CNS
- 5 castors, 3 lockable



LabStar Sirius LSSI 14005EUW
(With accessories Inventory Systems. See sep. brochure.)

Model LabStar Sirius	LSSI 14005	LSSI 14005	LSSI 14030	LSSI 14025
Version	EWU/EEU	GEWU/GEEU Glass door	EWU/EEU	GEWU/GEEU Glass door
Temperature range	°C: +1/+10	+1/+10	-10/-30	-10/-23
Content litres (gross)	1360	1380	1360	1380
Content litres (net)	870	883	870	883
Ext. dimensions (WxDxH) mm	1440x860x1997	1440x860x1997	1440x860x1997	1440x860x1997
Int. dimensions (WxDxH) mm	1320x685x1505	1320x695x1505	1320x685x1505	1320x695x1505
Depth with door opened	mm: 1540	1540	1540	1540
Weight	kgs: 178	178	188	188
Mains connection volts/Hz/ph	230/50-60/1	230/50-60/1	230/50-60/1	230/50-60/1
Grid inserts	: 6	6	6	6
Shipping dim. (WxDxH) mm	1520x900x2200	1520x900x2200	1520x900x2200	1520x900x2200
Shipping weight	kgs: 195	195	205	205
Refrigerant	R134a	R134a	R404A	R404A

LabStar Sirius + Accessories:

Outside / Inside

Cat. No.

LabStar Sirius LSSI 14005EUW	white / CNS	GSLSSI14005EUW
LabStar Sirius LSSI 14005EEU	CNS / CNS	GSLSSI14005EEU
LabStar Sirius LSSI 14005GEWU	white, glass door / CNS	GSLSSI14005GEWU
LabStar Sirius LSSI 14005GEEU	CNS, glass door / CNS	GSLSSI14005GEEU
LabStar Sirius LSSI 14030EUW	white / CNS	GSLSSI14030EUW
LabStar Sirius LSSI 14030EEU	CNS / CNS	GSLSSI14030EEU
LabStar Sirius LSSI 14025GEWU	white, glass door / CNS	GSLSSI14025GEWU
LabStar Sirius LSSI 14025GEEU	CNS, glass door / CNS	GSLSSI14025GEEU

ProfiTec Temperature Monitoring and Recording System (see sep. brochure).

GPTEC4A

ProfiCaller telephone dialler (see sep. brochure).

ZXX2-009-TX

Pt-100 temperature sensor, add. installed for ext. temperature recording.

ZXX2-020-2L

Grid inserts, 530x655 mm (WxD).

ZLSSI4-530x655

Guide rails for grid inserts (1 pair).

ZLSSI4-024

Drawer with telescopic slide-out for LSSI 140xx, made of CNS.

ZLSSI4-002

Interior socket, tropical design.

ZLSSI1-001-01

Feet instead of castors, made of CNS (50 mm height adjustable).

ZLSSI5-021-125

Duct to storage compartment 26 mm in diameter.

ZLSSI1-002-26

MIN/MAX thermometer to be placed in refrigerators or freezers.

ZXX2-019-001

Measuring range -50/+50°C, an add. temperature sensor is not required.

ZXX2-019-011

MIN/MAX digital thermometer. Hand-held unit with digital display as well as data-hold and relative measuring function. Measuring range -200/+1370°C.

An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.

ZXX2-022-100

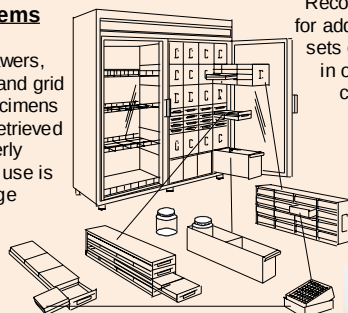
Temperature sensor for MIN/MAX thermometer ZXX2-019-011.

ZXX2-022-100

Measuring range -100/+1000°C. Length 2 m. Other ranges on request.

Inventory Systems

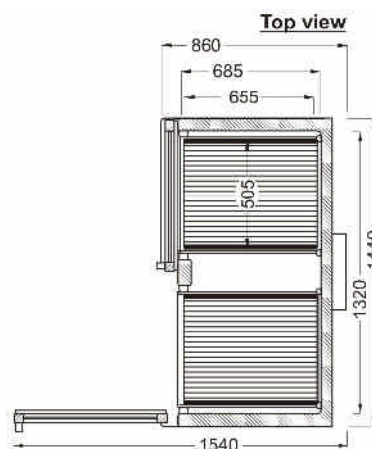
Stainless steel drawers, freezer cassettes and grid inserts enable specimens to be stored and retrieved in a clear and orderly manner. Optimum use is made of the storage capacity.



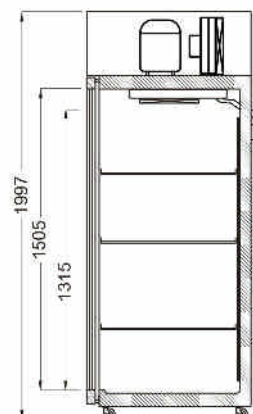
Recommendations for additional storage sets can be found in our separate catalogue.



Please ask for a personal fitting option.



side view



Laboratory Refrigerator and Upright Freezer LabStar Sirius

- Static cooling with automatic defrost and condensate evaporation
- Cooling unit top
- Operating panel with main switch
 - Electronic control with digital display
 - Visual/audible alarm device
 - Alarm warning for excess and insufficient temperature
 - Door alarm
 - No-volt remote alarm contact for connection to a remote alarm system
- RS 485 port
- Self-closing and lockable door
- Door hinges on right, changeable
- Door seal changeable
- 3 adjustable grid inserts in tilt-resistant guide rails
- Interior made of stainless steel CNS
- 4 castors, 2 lockable

Static Cooling



LabStar Sirius LSSI 7505EWN
(With accessories Inventory Systems. See sep. brochure.)

Model LabStar Sirius	LSSI 3505	LSSI 3505	LSSI 3530
Version	EWN/EEN	GEWN/GEEN Glass door	EWN/EEN
Temperature range °C:	+1/+10	+1/+10	-10/-30
Content litres (gross):	346	346	346
Content litres (net):	227	227	209
Ext. dimensions (WxDxH) mm:	520x700x1997	520x700x1997	520x700x1997
Int. dimensions (WxDxH) mm:	400x575x1505	400x575x1505	400x575x1505
Depth with door opened mm:	1182	1182	1182
Weight kgs:	98	98	103
Mains connection volts/Hz/ph:	230/50/1	230/50/1	230/50/1
Grid inserts :	3	3	3
Shipping dimensions (WxDxH) mm:	610x840x2200	610x840x2200	610x840x2200
Shipping weight kgs:	112	112	117
Refrigerant :	R134a	R134a	R404A

LabStar Sirius + Accessories:

Outside / Inside

Cat. No.

LabStar Sirius LSSI 3505EWN	white / CNS	GSLSSI3505EWN
LabStar Sirius LSSI 3505EEN	CNS / CNS	GSLSSI3505EEN
LabStar Sirius LSSI 3505GEWN	white, glass door / CNS	GSLSSI3505GEWN
LabStar Sirius LSSI 3505GEEN	CNS, glass door / CNS	GSLSSI3505GEEN
LabStar Sirius LSSI 3530EWN	white / CNS	GSLSSI3530EWN
LabStar Sirius LSSI 3530EEN	CNS / CNS	GSLSSI3530EEN

ProfiTec Temperature Monitoring and

GPTEC4A

Recording System (see sep. brochure).

ProfiCaller telephone dialler (see sep. brochure).

ZXX2-009-TX

Pt-100 temperature sensor, add. installed for ext. temperature recording.

ZXX2-020-2L

Ex-Version „Interior free of ignition sources.“

ZLSSI1-070

Grid inserts, 330x545 mm (WxD).

ZLSSI4-330x545

Guide rails for grid inserts (1 pair).

ZLSSI4-023

Drawer with telescopic slide-out for LSSI 35xx, made of CNS.

ZLSSI4-003

Interior socket, tropical design.

ZLSSI1-001-01

Feet instead of castors, made of CNS (50 mm height adjustable).

ZLSSI5-021-125

Duct to storage compartment 26 mm in diameter.

ZLSSI1-002-26

MIN/MAX thermometer to be placed in refrigerators or freezers.

ZXX2-019-001

Measuring range -50/+50°C, an add. temperature sensor is not required.

ZXX2-019-011

MIN/MAX digital thermometer. Hand-held unit with digital display as well as

data-hold and relative measuring function. Measuring range -200/+1370°C.

An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.

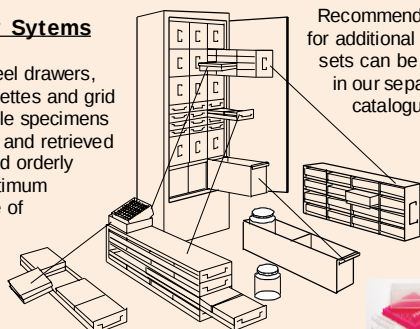
ZXX2-022-100

Temperature sensor for MIN/MAX thermometer ZXX2-019-011.

Measuring range -100/+1000°C. Length 2 m. Other ranges on request.

Inventory Systems

Stainless steel drawers, freezer cassettes and grid inserts enable specimens to be stored and retrieved in a clear and orderly manner. Optimum use is made of the storage capacity.

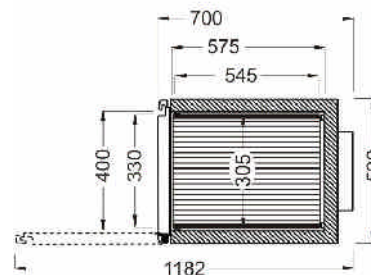


Recommendations for additional storage sets can be found in our separate catalogue.

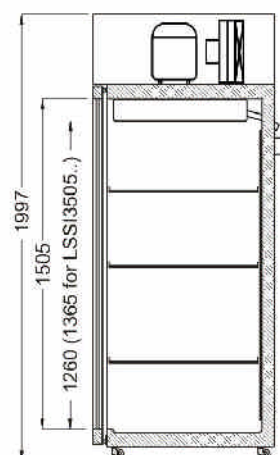


Please ask for a personal fitting option.

Top view



Side view



Laboratory Refrigerator and Upright Freezer LabStar Sirius

- Static cooling with automatic defrost and condensate evaporation
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 - Electronic control with digital display
 - Visual/audible alarm device
 - Alarm warning for excess and insufficient temperature
 - Door alarm
- No-volt remote alarm contact for connection to a remote alarm system
- RS 485 port
- Self-closing and lockable door
- Door hinges on right, changeable
- Door seal changeable
- 5 adjustable grid inserts in tilt-resistant guide rails
- Interior made of stainless steel CNS
- 4 castors, 2 lockable

Static Cooling



LabStar Sirius LSSI 7505EWN
(With accessories Inventory Systems. See sep. brochure.)

Model LabStar Sirius	LSSI 5005	LSSI 5005	LSSI 5030	LSSI 5025
Version	EWN/EEN	GEWN/GEEN Glass door	EWN/EEN	GEWN/GEEN Glass door
Temperature range	°C: +1/+10	+1/+10	-10/-30	-10/-23
Content litres (gross):	515	523	515	523
Content litres (net):	362	367	334	339
Ext. dimensions (WxDxH)	mm: 620x860x1997	620x860x1997	620x860x1997	620x860x1997
Int. dimensions (WxDxH)	mm: 500x685x1505	500x695x1505	500x685x1505	500x695x1505
Depth with door opened	mm: 1440	1440	1440	1440
Weight	kgs: 106	106	114	114
Mains connection	volts/Hz/ph: 230/50/1	230/50/1	230/50/1	230/50/1
Grid inserts	:5	5	5	5
Shipping dimensions (WxDxH)	mm: 700x880x2200	700x880x2200	700x880x2200	700x880x2200
Shipping weight	kgs: 117	117	125	125
Refrigerant	:R134a	R134a	R404A	R404A

LabStar Sirius + Accessories:

Outside / Inside

Cat. No.

LabStar Sirius LSSI 5005EWN	white / CNS	GSLSSI5005EWN
LabStar Sirius LSSI 5005EEN	CNS / CNS	GSLSSI5005EEN
LabStar Sirius LSSI 5005GEWN	white, glass door / CNS	GSLSSI5005GEWN
LabStar Sirius LSSI 5005GEEN	CNS, glass door / CNS	GSLSSI5005GEEN
LabStar Sirius LSSI 5030EWN	white / CNS	GSLSSI5030EWN
LabStar Sirius LSSI 5030EEN	CNS / CNS	GSLSSI5030EEN
LabStar Sirius LSSI 5025GEWN	white, glass door / CNS	GSLSSI5025GEWN
LabStar Sirius LSSI 5025GEEN	CNS, glass door / CNS	GSLSSI5025GEEN

ProfiTec Temperature Monitoring and Recording System (see sep. brochure).

GPTEC4A

ProfiCaller telephone dialler (see sep. brochure).

ZXX2-009-TX

Pt-100 temperature sensor, add. installed for ext. temperature recording.

ZXX2-020-2L

Ex-Version „Interior free of ignition sources.“

ZLSSI1-070

Grid inserts, 430x655 mm (WxD).

ZLSSI4-430x655

Guide rails for grid inserts (1 pair).

ZLSSI4-024

Drawer with telescopic slide-out for LSSI 50xx, made of CNS.

ZLSSI4-001

Interior socket, tropical design.

ZLSSI1-001-01

Feet instead of castors, made of CNS (50 mm height adjustable).

ZLSSI5-021-125

Duct to storage compartment 26 mm in diameter.

ZLSSI1-002-26

Door hinges factory-mounted on left.

ZLSSI5-001

MIN/MAX thermometer to be placed in refrigerators or freezers.

ZXX2-019-001

Measuring range -50/+50°C, an add. temperature sensor is not required.

ZXX2-019-011

MIN/MAX digital thermometer. Hand-held unit with digital display as well as data-hold and relative measuring function. Measuring range -200/+1370°C.

An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.

ZXX2-022-100

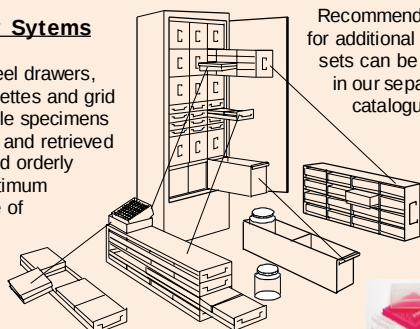
Temperature sensor for MIN/MAX thermometer ZXX2-019-011.

ZXX2-022-100

Measuring range -100/+1000°C. Length 2 m. Other ranges on request.

Inventory Systems

Stainless steel drawers, freezer cassettes and grid inserts enable specimens to be stored and retrieved in a clear and orderly manner. Optimum use is made of the storage capacity.



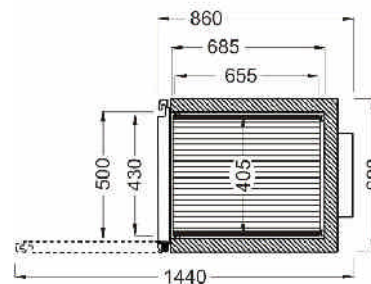
Recommendations for additional storage sets can be found in our separate catalogue.



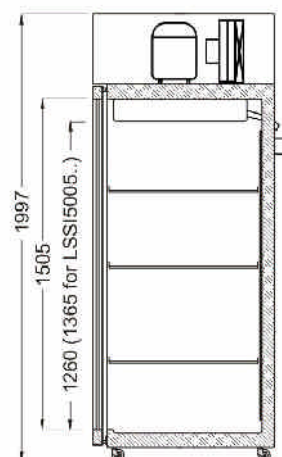
Please ask for a personal fitting option.



Top view



Side view



Http://www.Kryobox.de



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Laboratory Refrigerator and Upright Freezer LabStar Sirius

- Static cooling with automatic defrost and condensate evaporation
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- RS 485 port
- Self-closing and lockable door
- Door hinges on right, changeable
- Door seal changeable
- 3 adjustable grid inserts in tilt-resistant guide rails
- Interior made of stainless steel CNS
- 4 castors, 2 lockable

Static Cooling



LabStar Sirius LSSI 7505EWN
(With accessories Inventory Systems. See sep. brochure.)

Model LabStar Sirius	LSSI 7505	LSSI 7505	LSSI 7530	LSSI 7525
Version	EWN/EEN	GEWN/GEEN Glass door	EWN/EEN	GEWN/GEEN Glass door
Temperature range	°C: +1/+10	+1/+10	-10/-30	-10/-23
Content litres (gross):	618	627	618	627
Content litres (net):	451	458	416	423
Ext. dimensions (WxDxH)	mm: 720x860x1997	720x860x1997	720x860x1997	720x860x1997
Int. dimensions (WxDxH)	mm: 600x685x1505	600x695x1505	600x685x1505	600x695x1505
Depth with door opened	mm: 1540	1540	1540	1540
Weight	kgs: 117	117	121	121
Mains connection	volts/Hz/ph: 230/50/1	230/50/1	230/50/1	230/50/1
Grid inserts	: 3	3	3	3
Shipping dimensions (WxDxH)	mm: 800x900x2200	800x900x2200	800x900x2200	800x900x2200
Shipping weight	kgs: 129	129	133	133
Refrigerant	: R134a	R134a	R404A	R404A

LabStar Sirius + Accessories:

Outside/ Inside

Cat. No.

LabStar Sirius LSSI 7505EWN	white / CNS	GSLSSI7505EWN
LabStar Sirius LSSI 7505EEN	CNS / CNS	GSLSSI7505EEN
LabStar Sirius LSSI 7505GEWN	white, glass door / CNS	GSLSSI7505GEWN
LabStar Sirius LSSI 7505GEEN	CNS, glass door / CNS	GSLSSI7505GEEN
LabStar Sirius LSSI 7530EWN	white / CNS	GSLSSI7530EWN
LabStar Sirius LSSI 7530EEN	CNS / CNS	GSLSSI7530EEN
LabStar Sirius LSSI 7525GEWN	white, glass door / CNS	GSLSSI7525GEWN
LabStar Sirius LSSI 7525GEEN	CNS, glass door / CNS	GSLSSI7525GEEN

ProfiTec Temperature Monitoring and Recording System (see sep. brochure).

GPTEC4A

ProfiCaller telephone dialler (see sep. brochure).

ZXX2-009-TX

Pt-100 temperature sensor, add. installed for ext. temperature recording.

ZXX2-020-2L

Ex-Version „Interior free of ignition sources.“

ZLSSI1-070

Grid inserts, 530x655 mm (WxD).

ZLSSI4-530x655

Guide rails for grid inserts (1 pair).

ZLSSI4-024

Drawer with telescopic slide-out for LSSI 75xx, made of CNS.

ZLSSI4-002

Interior socket, tropical design.

ZLSSI1-001-01

Feet instead of castors, made of CNS (50 mm height adjustable).

ZLSSI5-021-125

Duct to storage compartment 26 mm in diameter.

ZLSSI1-002-26

Door hinges factory-mounted on left.

ZLSSI5-001

MIN/MAX thermometer to be placed in refrigerators or freezers.

ZXX2-019-001

Measuring range -50/+50°C, an add. temperature sensor is not required.

ZXX2-019-011

MIN/MAX digital thermometer. Hand-held unit with digital display as well as data-hold and relative measuring function. Measuring range -200/+1370°C.

An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.

ZXX2-022-100

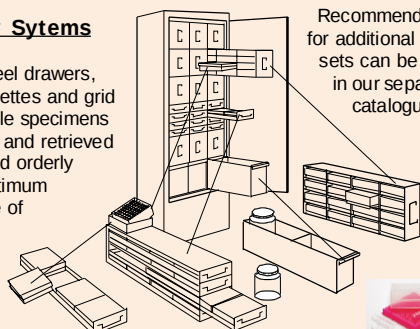
Temperature sensor for MIN/MAX thermometer ZXX2-019-011.

ZXX2-022-100

Measuring range -100/+1000°C. Length 2 m. Other ranges on request.

Inventory Systems

Stainless steel drawers, freezer cassettes and grid inserts enable specimens to be stored and retrieved in a clear and orderly manner. Optimum use is made of the storage capacity.



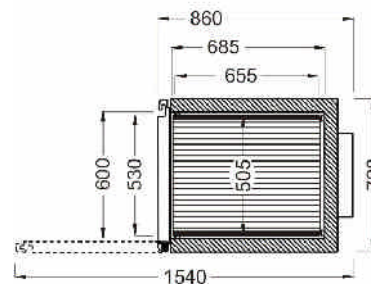
Recommendations for additional storage sets can be found in our separate catalogue.



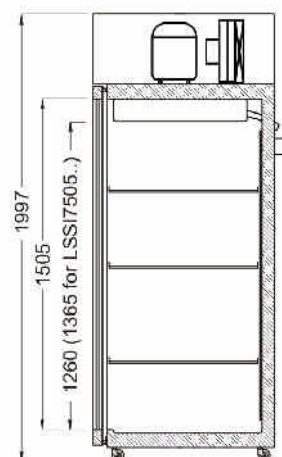
Please ask for a personal fitting option.



Top view



Side view



Http://www.Kryobox.de



National Lab GmbH
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e-Mail: LabSales@NationalLab.com

Grambeker Weg 157
D-23879 Moeln

Laboratory Refrigerator and Upright Freezer LabStar Sirius

- Static cooling with automatic defrost and condensate evaporation
- Cooling unit top
- Operating panel with main switch
 - Electronic control with digital display
 - Visual/audible alarm device
 - Alarm warning for excess and insufficient temperature
 - Door alarm
- No-volt remote alarm contact for connection to a remote alarm system
- RS 485 port
- Self-closing and lockable doors
- Door seal changeable
- 6 adjustable grid inserts in tilt-resistant guide rails
- Interior made of stainless steel CNS
- 5 castors, 3 lockable

Static Cooling



LabStar Sirius LSSI 14005EWN
(With accessories Inventory Systems. See sep. brochure.)

Model LabStar Sirius	LSSI 14005	LSSI 14005	LSSI 14030	LSSI 14025
Version	EWN / EEN	GEWN / GEEN Glass door	EWN / EEN	GEWN / GEEN Glass door
Temperature range	°C: +1/+10	+1/+10	-10/-30	-10/-23
Content litres (gross):	1360	1380	1360	1380
Content litres (net):	903	917	833	846
Ext. dimensions (WxDxH) mm:	1440x860x1997	1440x860x1997	1440x860x1997	1440x860x1997
Int. dimensions (WxDxH) mm:	1320x685x1505	1320x695x1505	1320x685x1505	1320x695x1505
Depth with door opened	mm: 1540	1540	1540	1540
Weight kgs:	178	178	188	188
Mains connection volts/Hz/ph:	230/50/1	230/50/1	230/50/1	230/50/1
Grid inserts	: 6	6	6	6
Shipping dim. (WxDxH) mm:	1520x900x2200	1520x900x2200	1520x900x2200	1520x900x2200
Shipping weight kgs:	195	195	205	205
Refrigerant	: R134a	R134a	R404A	R404A

LabStar Sirius + Accessories:

Outside / Inside

Cat. No.

LabStar Sirius LSSI 14005EWN	white / CNS	GSLSSI14005EWN
LabStar Sirius LSSI 14005EEN	CNS / CNS	GSLSSI14005EEN
LabStar Sirius LSSI 14005GEWN	white, glass door / CNS	GSLSSI14005GEWN
LabStar Sirius LSSI 14005GEEN	CNS, glass door / CNS	GSLSSI14005GEEN
LabStar Sirius LSSI 14030EWN	white / CNS	GSLSSI14030EWN
LabStar Sirius LSSI 14030EEN	CNS / CNS	GSLSSI14030EEN
LabStar Sirius LSSI 14025GEWN	white, glass door / CNS	GSLSSI14025GEWN
LabStar Sirius LSSI 14025GEEN	CNS, glass door / CNS	GSLSSI14025GEEN

ProfiTec Temperature Monitoring and Recording System (see sep. brochure).

GPTEC4A

ProfiCaller telephone dialler (see sep. brochure).

ZXX2-009-TX

Pt-100 temperature sensor, add. installed for ext. temperature recording.

ZXX2-020-2L

Ex-Version „Interior free of ignition sources.“

ZLSSI1-070

Grid inserts, 530x655 mm (WxD).

ZLSSI4-530x655

Guide rails for grid inserts (1 pair).

ZLSSI4-024

Drawer with telescopic slide-out for LSSI 140xx, made of CNS.

ZLSSI4-002

Interior socket, tropical design.

ZLSSI1-001-01

Feet instead of castors, made of CNS (50 mm height adjustable).

ZLSSI5-021-125

Duct to storage compartment 26 mm in diameter.

ZLSSI1-002-26

MIN/MAX thermometer to be placed in refrigerators or freezers.

ZXX2-019-001

Measuring range -50/+50°C, an add. temperature sensor is not required.

ZXX2-019-011

MIN/MAX digital thermometer. Hand-held unit with digital display as well as data-hold and relative measuring function. Measuring range -200/+1370°C.

ZXX2-019-011

An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.

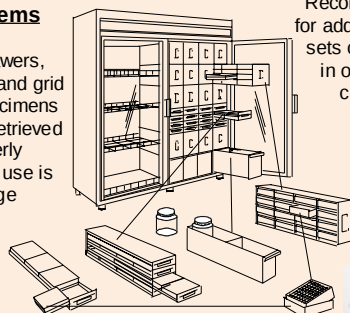
ZXX2-022-100

Temperature sensor for MIN/MAX thermometer ZXX2-019-011.

Measuring range -100/+1000°C. Length 2 m. Other ranges on request.

Inventory Systems

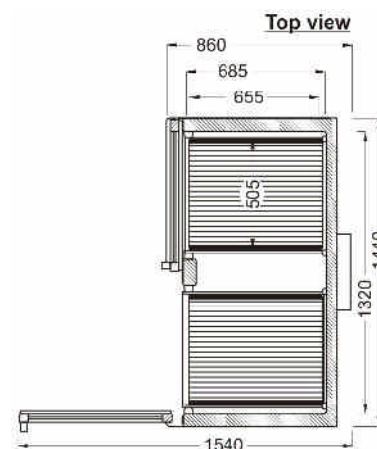
Stainless steel drawers, freezer cassettes and grid inserts enable specimens to be stored and retrieved in a clear and orderly manner. Optimum use is made of the storage capacity.



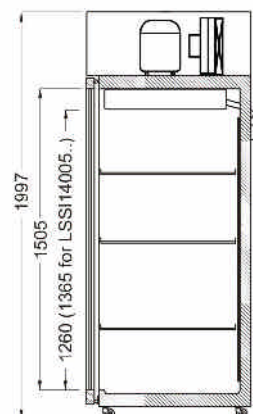
Recommendations for additional storage sets can be found in our separate catalogue.



Please ask for a personal fitting option.



side view



Http://www.Kryobox.de



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Fax: +49 45 42 / 84 91 - 71
e-Mail: LabSales@NationalLab.com

National Lab GmbH
Grambeker Weg 157
D-23879 Moelln

Bloodbank Refrigerator LabStar Sirius

- Forced air circulation with automatic defrost and condensate evaporation
- Cooling unit top
- Operating panel with main switch
 - Electronic control with digital display
 - Visual/audible alarm device, mains-independent
 - Alarm warning for excess and insufficient temperature
 - Door alarm
 - No-volt remote alarm contact for connection to a remote alarm system
 - RS 485 port
- Self-closing and lockable door(s)
- Door hinges on right, changeable (for models with one door)
- Door seal changeable
- 7 drawers with telescopic slide-out and dividers (14 at LSSI 14004.); can be factory-fitted with 8 drawers if required (16 at LSSI 14004.)
- Interior made of stainless steel CNS
- Interior lighting
- 4 castors, 2 lockable, (LSSI 14004.. with 5 castors, 3 lockable)

Model LabStar Sirius		LSSI 5004	LSSI 7504	LSSI 14004
Version		GEWU/GEEU	GEWU/GEEU	GEWU/GEEU
Temperature range	°C:	+4	+4	+4
Content	litres (net):	525	630	1255
Ext. dimensions (WxDxH)	mm:	620x860x1997	720x860x1997	1440x860x1997
Int. dimensions (WxDxH)	mm:	500x695x1505	600x695x1505	1320x695x1505
Depth with door opened	mm:	1440	1540	1540
Weight	kgs:	105	112	178
Mains connection	volts/Hz/ph:	230/50/1	230/50/1	230/50/1
Telescopic drawers	:	7	7	14
Doors	:	1	1	2
Shipping dimensions (WxDxH)	mm:	700x880x2200	800x900x2200	1540x900x2200
Shipping weight	kgs:	115	122	195
Refrigerant	:	R134a	R134a	R134a



LabStar Sirius LSSI 7504GEWU



drawer with telescopic slide-out, made of CNS



individually partitionable telescopic drawers

LabStar Sirius + Accessories: Outside / Inside Cat. No.

LabStar Sirius LSSI 5004GEWU	white, glass door / CNS	GSLSSI5004GEWU
LabStar Sirius LSSI 5004GEEU	CNS, glass door / CNS	GSLSSI5004GEEU
LabStar Sirius LSSI 7504GEWU	white, glass door / CNS	GSLSSI7504GEWU
LabStar Sirius LSSI 7504GEEU	CNS, glass door / CNS	GSLSSI7504GEEU
LabStar Sirius LSSI 14004GEWU	white, glass door / CNS	GSLSSI14004GEWU
LabStar Sirius LSSI 14004GEEU	CNS, glass door / CNS	GSLSSI14004GEEU

ProfiTec Temperature Monitoring and Recording System (see sep. brochure). GPTEC4A

ProfiCaller telephone dialler (see sep. brochure). ZXX2-009-TX

Pt-100 temperature sensor, add. installed for ext. temperature recording. ZXX2-020-2L

Circular chart recorder for 7 days. ZLSSI2-031-040

6" 7-day circular charts. Pck. of 100 pieces. on request

Drawer with telescopic slide-out for LSSI 50xx, made of CNS. ZLSSI4-001

Drawer with telescopic slide-out for LSSI 75xx and LSSI 140xx, CNS. ZLSSI4-002

Interior socket, tropical design. ZLSSI1-001-01

Feet instead of castors, made of CNS (50 mm height adjustable). ZLSSI5-021-125

Duct to storage compartment 26 mm in diameter. ZLSSI1-002-26

Door hinges factory-mounted on left. ZLSSI5-001

MIN/MAX thermometer to be placed in refrigerators or freezers. ZXX2-019-001

Measuring range -50/+50°C, an add. temperature sensor is not required. ZXX2-019-011

MIN/MAX digital thermometer. Hand-held unit with digital display as well as data-hold and relative measuring function. Measuring range -200/+1370°C.

An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.

Temperature sensor for MIN/MAX thermometer ZXX2-019-011. ZXX2-022-100

Measuring range -100/+1000°C. Length 2 m. Other ranges on request.

Innovation prize

ProfiTec Intelligent Temperature Monitoring and Recording System



- For up to 4 refrigerators and/or freezers
- Readings are stored over a period up to 781 days
- Warning for excess and insufficient temperature
- Includes No-volt remote alarm contact
- The measuring protocol can be fed to PC via RS 232 port

Plasma Storage Cabinet ProfiLine Pegasus PLPE 4145EWN-P

- Static cooling and manual defrost
- Micro-processor driven temperature controller with digital display
- Visual/audible alarm device
 - Mains-independent
 - Alarm warning for excess and insufficient temperature
 - Door alarm
 - No-volt remote alarm contact for connection to a remote alarm system
 - RS 485 port
- Lockable door, door hinges on right, can only be changed in factory
- External housing made of white, galvanized steel plate
- Interior made of stainless steel CNS
- 5 drawers with telescopic slide-out
- 4 castors, 2 lockable

Model ProfiLine Pegasus	PLPE 4145EWN-P
Temperature range	°C: -20/-45
Content (net)	litres: 413
Ext.dimensions (WxDxH)	mm: 720x880x2090
Int. dimensions of the 4 upper drawers (WxDxH)	mm: 355x530x205
Int. dimensions of the lowest drawer (WxDxH)	mm: 355x530x260
Depth with door opened	mm: 1475
Weight	kgs: 223
Mains connection	volts/Hz/ph: 230/50/1
Refrigerant	: R507
Shipping dimensions	mm: 870x975x2250
Shipping weight	kgs: 255



ProfiLine Pegasus PLPE 4145EWN-P



Telescopic drawers made of stainless steel

ProfiLine Pegasus + Accessories:

Cat. No.

ProfiLine Pegasus PLPE 4145EWN-P

GSPLPE4145EWN-P

ProfiTec Temperature Monitoring and

GPTEC4A

Recording System (see sep. brochure).

ProfiCaller telephone dialler (see sep. brochure).

ZXX2-009-TX

Pt-100 temperature sensor, add. installed for ext. temperature recording.

ZXX2-020-2L

MIN/MAX thermometer to be placed in refrigerators or freezers.

ZXX2-019-001

Measuring range -50/+50°C, an add. temperature sensor is not required.

MIN/MAX digital thermometer. Hand-held unit with digital display as well as

ZXX2-019-011

data-hold and relative measuring function. Measuring range -200/+1370°C.

An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.

Temperature sensor for MIN/MAX thermometer ZXX2-019-011.

ZXX2-022-100

Measuring range -100/+1000°C. Length 2 m. Other ranges on request.

Innovation prize

ProfiTec Intelligent Temperature Monitoring and Recording System



- For up to 4 refrigerators and/or freezers
- Readings are stored over a period up to 781 days
- Warning for excess and insufficient temperature
- Includes No-volt remote alarm contact
- The measuring protocol can be fed to PC via RS 232 port

Blood Plasma Shock Freezer Model Labcool Genius LCGE 21

- The horizontal freezing technique with high-performance contact plates provides plasmas frozen to the core in uniformly shaped bags
- 21 EU standard plasma bags of 500 ml are frozen to a core temperature of -30°C in less than 30 minutes
- Contact cover plate with pneumatically controlled operating device, which adjusts precisely to the size and shape of the bag for the batch to be frozen
- Contact operating plate and contact cover plate are supplied and regulated by separate refrigeration systems
- Ergonomic design enables quick loading and removal
- Several batches of plasma can be shock-frozen consecutively without the need for an interim defrosting operation

Capacity, Temperature, Freezing Time

Freezing capacity	: 21 EU - standard plasma bags (500 ml)
	: 12 EU - industry plasma bags (1000 ml)
Operating temperature	: -50°C
Max. deep-freeze and storage temperature	: till -50°C
Freezing time at -30°C	: approx. 30 min. with 500 ml bags
	: approx. 60 min. with 1000 ml bags
Defrost cycle with integrated defrost heating	: approx. 30 min.



Labcool Genius LCGE 21



For 21 EU-standard plasma bags 500 ml

Plasma Storage Cabinet ProfiFrost PFU / PF

- Static cooling and manual defrost
- Maintenance-free cooling system
- Low-noise and low-vibration fully hermetic compressor, air-cooled
- Operating panel with micro-processor driven temperature controller and digital display in separate upright housing (can be positioned as per customer requirements)
- Visual/audible alarm device
 - Mains-independent
 - Alarm warning for excess and insufficient temperature
 - No-volt remote alarm contact for connection to a remote alarm system
 - RS 485 port
- External housing made of white, galvanized steel plate
- Freeze-proof special seal
- Lockable door (PFU14.. only, others on request)
- Door hinges on right, changeable
- Interior with closed removable plastic drawers (PFU14.. with 1 additional storage basket. PF27.. with 2 additional compartments above.)
- Feet made of plastic (PVC) (at PF27.. front feet of cabinet allow for height adjustment, two castors at rear)



ProfiFrost PFU1446WN ** incl. temperature controller with graphic display (see option)

Model ProfiFrost PFU / PF...WN	0832	0842	0846	1432	1442	1446	2732	2742	2746
Temperature range °C:	-16/-30	-40	-16/-45	-14/-30	-40	-14/-45	-16/-32	-40	-16/-45
Content litres gross:	70	70	70	143	143	143	241	241	241
Ext. dimensions (WxDxH) mm:	< 555x624x630* >			< 600x615x830* >			< 600x650x1700* >		
Depth with door opened mm:	1165	1165	1260	1215	1215	1215	1140	1140	1140
Weight kgs:	31	31	31	45	45	45	73	73	73
Mains connection volts/Hz/ph:	< 220-230/50/1 >			< 220-230/50/1 >			< 220-230/50/1 >		
Refrigerant :	R600a	R507	R507	R600a	R507	R507	R600a	R507	R507
Number of drawers/compartments :	2/0	2/0	2/0	3/1	3/1	3/1	5/2	5/2	5/2
Shipping dimensions (WxDxH) mm:	< 700x750x790 >			< 700x750x990 >			< 700x750x1860 >		
Shipping weight kgs:	40	40	40	54	54	54	83	83	83

* Positioning the upright housing¹⁾ with the operating panel on the cabinet increases the height by 90 mm.
The flexible connecting lead allows the unit to be positioned as per customer requirements.

¹⁾ Only in the case of models down to -30°C can the temperature controller be integrated into the top panel (the separate upright housing is no longer required). Please ask.

Model	Outside / Inside	Cat. No.
ProfiFrost PFU0832WN	white / white	GSPFU0832WN
ProfiFrost PFU0842WN	white / white	GSPFU0842WN
ProfiFrost PFU0846WN	white / white	GSPFU0846WN
ProfiFrost PFU1432WN	white / white	GSPFU1432WN
ProfiFrost PFU1442WN	white / white	GSPFU1442WN
ProfiFrost PFU1446WN	white / white	GSPFU1446WN
ProfiFrost PF2732WN	white / white	GSPF2732WN
ProfiFrost PF2742WN	white / white	GSPF2742WN
ProfiFrost PF2746WN	white / white	GSPF2746WN



ProfiFrost PF2732WN **

Accessories	Cat. No.
Temperature controller with graphics display and data logger for recording events (temperature change, exceeding limits, alarms triggered).	ZPF2-045-002
ProfiTec Temperature Monitoring and Recording System (see sep. brochure).	GPTEC4A
ProfiCaller telephone dialler (see sep. brochure).	ZXX2-009-TX
Pt-100 temperature sensor, add. installed for ext. temperature recording.	ZPM2-023-2L
Ex-Version „Interior free of ignition sources.“	ZPF1-070
Transport carriage with 4 castors (2 lockable).	ZPFU5-021
Door lock, factory mounted PFU08.. and PF27.. only).	on request

** The arrangement system (cryoboxes, etc.) that can be seen in the plasma storage cabinets is optional. See our separate catalogue for Inventory Systems.



Option temperature controller with graphic display and data logger

Labcool Genius[®]

Blood Plasma Shock Freezer



Direct Shock-Freezing Technology with
High-Performance Contact Plates

Labcool Genius[®]

Labcool Genius®

The Labcool Genius® high-performance contact shock freezer has been developed in collaboration with transfusion specialists from blood banks and the pharmaceutical industry. Standard plasmas can be frozen to -30°C core temperature in less than 30 minutes using superior refrigeration technology. The particularly effective refrigeration system complies with all industrial demands for shock-freezing down to -50°C .

The horizontal freezing technique with high-performance contact plates provides plasmas frozen to the core in uniformly shaped bags. This makes optimum use of the storage capacities inside instruments and transport containers, improves legibility of labelling and barcodes and enables the plasmas to be further processed in automated systems.

With the Labcool Genius® the blood plasma is prepared for storage in compliance with directives. All currently valid quality requirements are met and even surpassed.



The Labcool Genius® works using a contact cover plate with pneumatically controlled operating device. When the cover is closed, the system adjusts precisely to the size and shape of the bag for the batch to be frozen.

As a result, optimum freezing results are always achieved. Contact operating plate and contact cover plate are supplied and regulated by separate refrigeration systems.

The control elements in the operation panel are clearly arranged. They are easy to understand and can also be operated with gloves on. Pt100 reference sensor (with a works certificate) or a measuring bag can be connected quickly and easily. The Labcool Genius® is supplied with a water-cooled refrigeration system as standard and optionally with an air-cooled refrigeration system. An additional



- The Labcool Genius® is precooled to the working temperature and ready for operation within 15-20 minutes.
- 21 EU standard plasma bags of 500 ml are frozen to a core temperature of -30°C in less than 30 minutes.
- Ergonomic design enables quick loading and removal.
- Several batches of plasma can be shock-frozen consecutively without the need for an interim defrosting operation.
- The Labcool Genius® is designed for continuous operation.



option offers a combination of water-cooled and air-cooled refrigeration systems. The combined system is designed with automatic switchover to air-cooled operation if no water is flowing or no water is available at all. This provides a maximum level of operating safety. Depending on the conditions at the installation site, the company operating the Labcool Genius® always has all working options available. This avoids expensive conversion costs.

Model LCGE21

Capacity, Temperature, Freezing Time

Freezing capacity	21 EU - standard plasma bags (500 ml) 12 EU - industry plasma bags (1000 ml)
Operating temperature (Temperature of cooling plates)	-50°C
Max. deep-freeze and storage temperature	till -50°C
Freezing time	-30°C / approx. 30 min. with 500 ml bags * -30°C / approx. 60 min. with 1000 ml bags *
Defrost cycle with integr. defrost heating	approx. 30 min.

Temperature Controlling and Recording, Evaluation

Controlling unit	IMAGO 500 with additional RS485 interface
Reference measuring	Sensor element Pt100 with works certificate
Recording software, standard	PCA-Recording software
Recording software, optional	FreezeMon for bar code scanning and evaluation

Technical Data

Cooling capacity at operating temperature -50°C	1.8 kW
Mains supply	4.0 kW / 3 x 400 V, 50 Hz
Recommended fuse protection	3 x T 16 A with B-type characteristic
Refrigerant	R507 (CFC/HCFC-free)
Power consumption at operating temperature -50°C	2.1 kW
Mains current max.	14 A
Method of heat removal	• Standard • Option 1 • Option 2 water-cooled air-cooled water-cooled and air-cooled (automatic switchover to air-cooling if no water is flowing or if no water is available at all)
Noise level	62 dB (A)
Castors	Mobility by means of heavy castors with brakes
Dimensions (W x D x H)	1300 x 890 x 1650 mm
Weight	approx. 400 kgs

*) filling level and wether hose connection is folded in or not vary according to bag manufacturer

Labcool Genius®

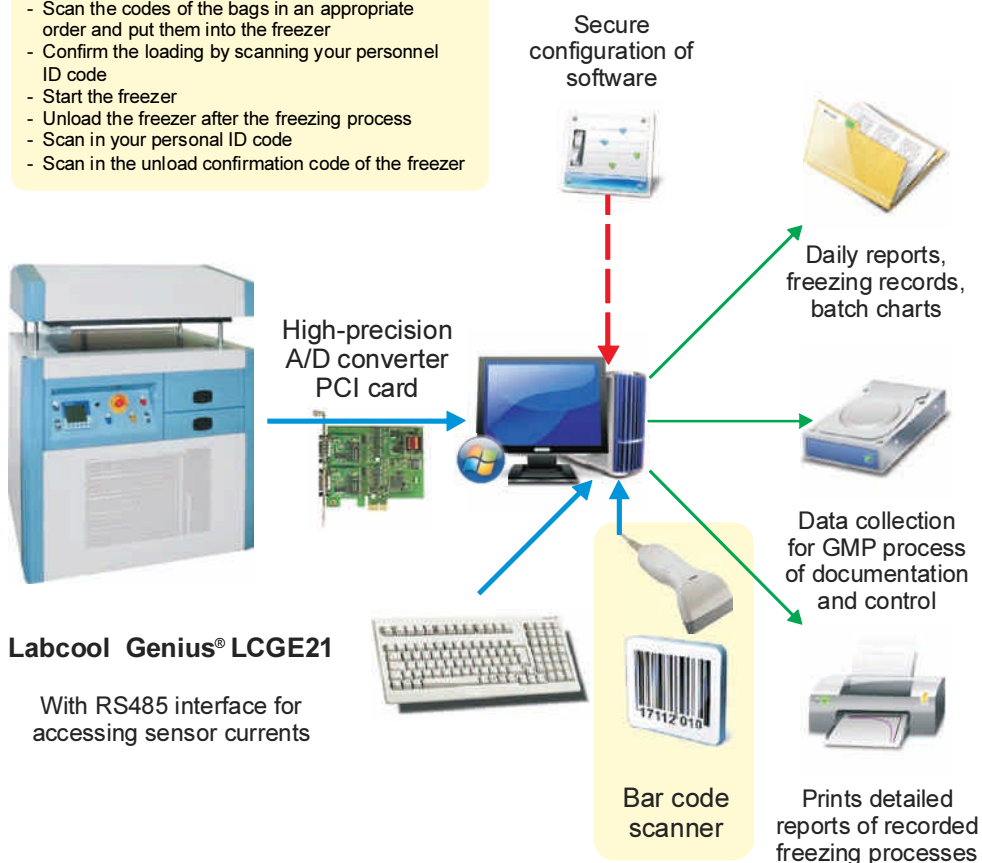
FreezeMon

Recording and Analysis Software (optional)

This special software package is intended for the comprehensive recording of freezing processes. It not only records actual temperature data but also additional information about the personnel involved. Options to print records for individual days or a selection of batches containing all the important data for the completed processes allow for clearly structured filing and easy control. When the blood plasma is frozen, it is possible to determine for each individual bag exactly when and where it was frozen at what particular temperature and who was responsible for the freezing operation.

Standard recording procedure

- Prepare the bags
- Scan the appropriate freezer load start code
- Scan the codes of the bags in an appropriate order and put them into the freezer
- Confirm the loading by scanning your personnel ID code
- Start the freezer
- Unload the freezer after the freezing process
- Scan in your personal ID code
- Scan in the unload confirmation code of the freezer



Tamper-proof recording of:



Batch code



Date



Time



Temperature profile



Personnel ID

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 Tel: +49 45 42 / 84 91-70 · Fax: -71
 E-mail: LabSales@NationalLab.com
 www.plasmafreezer.de



Refrigerator/Freezer Combination LabStar Sirius

- Forced air circulation for refrigerator and freezer with automatic defrost and condensate evaporation
- 2 separate cooling circuits for refrigerator and freezer
- Cooling unit top
- 2 operating panels with:
 - Main switch
 - Electronic control with digital display
 - Visual/audible alarm device
 - Alarm warning for excess and insufficient temperature
- Door alarm
- No-volt remote alarm contact for connection to a remote alarm system
- RS 485 port
- Self-closing and lockable doors
- Door hinges on right, changeable
- Door seal changeable
- 4 castors, 2 lockable
- 4 (2x2) adjustable grid inserts in tilt-resistant guide rails
- Interior made of stainless steel CNS

Model LabStar Sirius		LSSI 3030	LSSI 7030
Version		KEWU/KEEU	KEWU/KEEU
Refrigerator:			
Temperature range	°C:	+1/+10	+1/+10
Content	litres (net):	160	290
Int. dimensions (WxDxH)	mm:	400x560x700	600x685x700
Grid inserts	:	2	2
Refrigerant	:	R134a	R134a
Freezer:			
Temperature range	°C:	-10/-30	-10/-30
Content	litres (net):	160	290
Int. dimensions (WxDxH)	mm:	400x560x700	600x685x700
Grid inserts	:	2	2
Refrigerant	:	R404A	R404A
Ext. dimensions (WxDxH)	mm:	520x700x1997	720x860x1997
Depth with door opened	mm:	1182	1540
Weight	kgs:	120	151
Mains connection	volts/Hz/ph:	230/50/1	230/50/1
Shipping dimensions (WxDxH)	mm:	610x840x2200	800x900x2200
Shipping weight	kgs:	130	163

LabStar Sirius + Accessories:	Outside/ Inside	Cat. No.
LabStar Sirius LSSI 3030KEWU	white / CNS	GSLSSI3030KEWU
LabStar Sirius LSSI 3030KEEU	CNS / CNS	GSLSSI3030KEEU
LabStar Sirius LSSI 7030KEWU	white / CNS	GSLSSI7030KEWU
LabStar Sirius LSSI 7030KEEU	CNS / CNS	GSLSSI7030KEEU

ProfiTec Temperature Monitoring and Recording System (see sep. brochure). GPTEC4A

ProfiCaller telephone dialler (see sep. brochure). ZXX2-009-TX

Pt-100 temperature sensor, add. installed for ext. temperature recording. ZXX2-020-2L

Grid inserts, 330x545 mm (WxD). ZLSSI4-330x545

Grid inserts, 530x655 mm (WxD). ZLSSI4-530x655

Guide rails for grid inserts LSSI 3030.. (1 pair). ZLSSI4-023

Guide rails for grid inserts LSSI 7030.. (1 pair). ZLSSI4-024

Drawer with telescopic slide-out for LSSI 3030.., made of CNS. ZLSSI4-003

Drawer with telescopic slide-out for LSSI 7030.., made of CNS. ZLSSI4-002

Interior socket, tropical design. ZLSSI1-001-01

Feet instead of castors, made of CNS (50 mm height adjustable). ZLSSI5-021-125

Duct to storage compartment 26 mm in diameter. ZLSSI1-002-26

Door hinges factory-mounted on left. ZLSSI5-001

MIN/MAX thermometer to be placed in refrigerators or freezers. ZXX2-019-001

Measuring range -50/+50°C, an add. temperature sensor is not required.

MIN/MAX digital thermometer. Hand-held unit with digital display as well as data-hold and relative measuring function. Measuring range -200/+1370°C. ZXX2-019-011

An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.

Temperature sensor for MIN/MAX thermometer ZXX2-019-011. ZXX2-022-100

Measuring range -100/+1000°C. Length 2 m. Other ranges on request.



LSSI 7030KEEU
(optional with feet)

Innovation prize

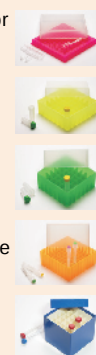
ProfiTec Intelligent Temperature Monitoring and Recording System



- For up to 4 refrigerators and/or freezers
- Readings are stored over a period up to 781 days
- Warning for excess and insufficient temperature
- Includes No-volt remote alarm contact
- The measuring protocol can be fed to PC via RS 232 port

Please ask for a personal fitting option.

Recommendations for additional storage sets can be found in our separate catalogue.



Refrigerator/Freezer Combination LabStar Sirius

- Static cooling for refrigerator and freezer with automatic defrost and condensate evaporation
- 2 separate cooling circuits for refrigerator and freezer
- Cooling unit top
- 2 operating panels with:
 - Main switch
 - Electronic control with digital display
 - Visual/audible alarm device
 - Alarm warning for excess and insufficient temperature
- Door alarm
- No-volt remote alarm contact for connection to a remote alarm system
- RS 485 port
- Self-closing and lockable doors
- Door hinges on right, changeable
- Door seal changeable
- 4 castors, 2 lockable
- 4 (2x2) adjustable grid inserts in tilt-resistant guide rails
- Interior made of stainless steel CNS

Model LabStar Sirius		LSSI 3030	LSSI 7030
Version		KEWN/KEEN	KEWN/KEEN
Refrigerator:			
Temperature range	°C:	+1/+10	+1/+10
Content	litres (net):	160	290
Int. dimensions (WxDxH)	mm:	400x560x700	600x685x700
Grid inserts	:	2	2
Refrigerant	:	R134a	R134a
Freezer:			
Temperature range	°C:	-10/-30	-10/-30
Content	litres (net):	160	290
Int. dimensions (WxDxH)	mm:	400x560x700	600x685x700
Grid inserts	:	2	2
Refrigerant	:	R404A	R404A
Ext. dimensions (WxDxH)	mm:	520x700x1997	720x860x1997
Depth with door opened	mm:	1182	1540
Weight	kgs:	120	151
Mains connection	volts/Hz/ph:	230/50/1	230/50/1
Shipping dimensions (WxDxH)	mm:	610x840x2200	800x900x2200
Shipping weight	kgs:	130	163



LSSI 7030KEEN
(optional with feet)

Innovation prize

ProfiTec Intelligent Temperature Monitoring and Recording System



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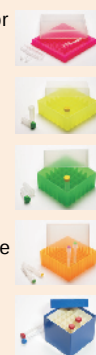
LabStar Sirius + Accessories:	Outside/ Inside	Cat. No.
LabStar Sirius LSSI 3030KEWN	white / CNS	GSLSSI3030KEWN
LabStar Sirius LSSI 3030KEEN	CNS / CNS	GSLSSI3030KEEN
LabStar Sirius LSSI 7030KEWN	white / CNS	GSLSSI7030KEWN
LabStar Sirius LSSI 7030KEEN	CNS / CNS	GSLSSI7030KEEN

ProfiTec Temperature Monitoring and Recording System (see sep. brochure) GPTEC4A

ProfiCaller telephone dialler (see sep. brochure). ZXX2-009-TX
 Pt-100 temperature sensor, add. installed for ext. temperature recording. ZXX2-020-2L
 Grid inserts, 330x545 mm (WxD). ZLSSI4-330x545
 Grid inserts, 530x655 mm (WxD). ZLSSI4-530x655
 Guide rails for grid inserts LSSI 3030.. (1 pair). ZLSSI4-023
 Guide rails for grid inserts LSSI 7030.. (1 pair). ZLSSI4-024
 Drawer with telescopic slide-out for LSSI 3030.., made of CNS. ZLSSI4-003
 Drawer with telescopic slide-out for LSSI 7030.., made of CNS. ZLSSI4-002
 Interior socket, tropical design. ZLSSI1-001-01
 Feet instead of castors, made of CNS (50 mm height adjustable). ZLSSI5-021-125
 Duct to storage compartment 26 mm in diameter. ZLSSI1-002-26
 Door hinges factory-mounted on left. ZLSSI5-001
 MIN/MAX thermometer to be placed in refrigerators or freezers. ZXX2-019-001
 Measuring range -50/+50°C, an add. temperature sensor is not required.
 MIN/MAX digital thermometer. Hand-held unit with digital display as well as ZXX2-019-011
 data-hold and relative measuring function. Measuring range -200/+1370°C.
 An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.
 Temperature sensor for MIN/MAX thermometer ZXX2-019-011. ZXX2-022-100
 Measuring range -100/+1000°C. Length 2 m. Other ranges on request.

Please ask for a personal fitting option.

Recommendations for additional storage sets can be found in our separate catalogue.



Portable Deepfreeze Precision PDP0180WN

- Static cooling and manual defrost
- Sterling Technology which means no compressor nor refrigerant
- Electronic control with digital display
 - Visual/audible alarm device
 - Alarm warning for excess and insufficient temperature
- Additional 12V DC-connection with connection cable
- External housing made of grey, galvanized steel plate
- 1 internal cover
- Simple operation
- Cryo racks exchangeable (see accessories)

Please note! For operation a cryo rack is required. (See accessories.)

Model	PDP0180WN	
Temperature range	°C:	±0/-80 (at R +25°C)
Temperature constancy	K:	±0.2
Ext. dimensions (WxDxH)	mm:	230x262x390
Int. dimensions (WxDxH)	mm:	136x136x80 (54)*
Weight	kgs:	10
Mains connection	volts/Hz/ph:	230/50-60/1 and 12V DC
Shipping dimensions	mm:	370x480x520
Shipping weight	kgs:	11

* The height in brackets apply when the supplied internal cover is used.



Portable Deepfreeze Precision PDP0180WN with cryo rack (See accessories.)

Accessories

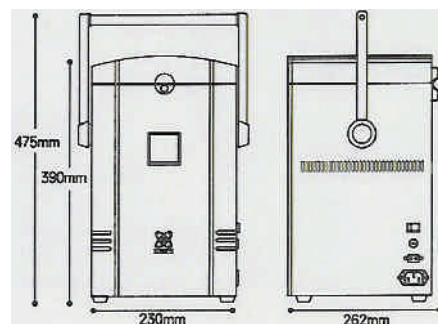
PDP0180WN

Cat. No.

GTPDP0180WN

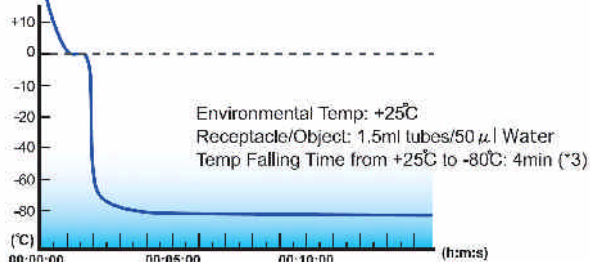
- Cryo rack, 96 conical holes for 0.2 ml PCR-tubes.
- Cryo rack, 48 conical holes for 0.5 ml PCR-tubes.
- Cryo rack, 48 conical holes for 1.5 ml sample-tubes.
- Cryo rack, 40 flat holes for 1.8 ml/2.0 cryo tubes.
- Cryo rack, 40 conical holes for 2.0 ml cryo tubes.

- ZPDP3-001
- ZPDP3-002
- ZPDP3-003
- ZPDP3-004
- ZPDP3-005



Cooling Speed

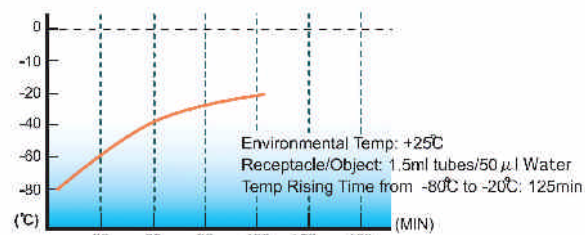
(When putting tubes into -80°C aluminum blocks)



*3: Takes approx. 120min to reach down to -80°C.

Temperature Keeping Ability

(After turning OFF at -80°C)



Simple & Easy Operation

Just press "ON" and the Portable Deepfreeze Precision will reach the set temperature within short time (will reach -80°C in approx. 1.5 hour). Then place the samples/objects in the freezer and it will keep them at the set temperature. It is portable between your desk and distant freezer and is convenient for preparatory/temporary freezing. (*2) Can be operated by DC-power (12V) on vehicles and by batteries (sold separately).

*2: Not recommended for long-term preservation of those irreplaceable samples/objects.

ProfiLine Pegasus PLPE 0486



FrostBox FB20



ProfiMaster Mini PMM0860EEN



Small Scale Chest Freezer ProfiMaster *Mini*

- Static cooling and manual defrost
- Low-noise refrigeration system, air-cooled
- Operating panel with electronic control and digital display (LED)
 - Visual/audible alarm device
 - Alarm warning for excess and insufficient temperature
- External housing made of stainless steel (CNS)
- Interior made of stainless steel (CNS)
- Insulated lid with hinge and magnetic seal

Model ProfiMaster PMM0860EEN

Temperature range	°C: -20/-50
	: Other temperature ranges available on request.
Content	litres (gross): 8
Ext. dimensions (WxDxH)	mm: 370x500x580
Int. dimensions (WxDxH)	mm: 150x300x200
Weight	kgs: 35
Mains connection	volts/Hz/ph: 230/50/1
Refrigerant	: R507



Small Scale Chest Freezer PMM0860EEN

ProfiMaster Mini + Accessories Outside / Inside Cat. No.

ProfiMaster Mini PMM0860	CNS / CNS	GTPMM0860
No-volt remote alarm contact for connection to a remote alarm system.		ZFB2-009
ProfiTec Temperature Monitoring and Recording System (see sep. brochure).		GPTEC4A
ProfiCaller telephone dialler (see sep. brochure).		ZXX2-009-TX
Pt-100 temperature sensor, add. installed for ext. temperature recording.		ZPM2-023-2L
Forced air circulation.		on request
MIN/MAX thermometer to be placed in refrigerators or freezers.		ZXX2-019-001
Measuring range -50/+50°C, an add. temperature sensor is not required.		
MIN/MAX digital thermometer. Hand-held unit with digital display as well as data-hold and relative measuring function. Measuring range -200/+1370°C.		ZXX2-019-011
An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.		
Temperature sensor for MIN/MAX thermometer ZXX2-019-011.		ZXX2-022-100
Measuring range -100/+1000°C. Length 2 m. Other ranges on request.		

Innovation prize

ProfiTec Intelligent Temperature Monitoring and Recording System



- For up to 4 refrigerators and/or freezers
- Readings are stored over a period up to 781 days
- Warning for excess and insufficient temperature
- Includes No-volt remote alarm contact
- The measuring protocol can be fed to PC via RS 232 port

Laboratory Upright Freezer ProfiLine Pegasus PLPE 0486

Content 35 litres.
See separate brochure.



MIN/MAX digital thermometer with add. temperature sensor

Laboratory Chest Freezer ProfiLine Taurus

- Static cooling and manual defrost
- Most reliable and less complicated compressor technology from Danfoss, low-noise
- Micro-processor driven temperature controller with digital display
- Visual/audible alarm device
 - Mains-independent (PLTAxx86 only)
 - Alarm warning for excess and insufficient temperature
- No-volt remote alarm contact for connection to a remote alarm system
- External housing made of white, galvanized steel plate
- Interior made of white plastic
- Inner lids (PLTAxx86 only)
- Lockable lid and spring-loaded hinges to allow opening at any angle
- With castors, supplied separately (except for PLTA 09xx and PLTA 5561)



Model ProfiLine Taurus	PLTA 0960	PLTA 3360	PLTA 4360	PLTA 5561	PLTA 0986	PLTA 3386	PLTA 4386
Temperature range °C	-30/-60	-30/-60	-30/-60	-30/-60	-40/-83	-40/-83	-40/-83
Content litres (gross)	74	296	383	532	74	296	383
Ext. dimensions (WxDxH) mm	555x635x885	< see sketch >		1705x655x865	555x635x885	< see sketch >	
Int. dimensions 1 (WxDxH) mm	385x385x470	< see sketch >		1340x490x700	385x385x470(450*)	< see sketch >	
Int. dimensions 2 (WxDxH) mm	—	< see sketch >		200x490x450	—	< see sketch >	
Height at open top mm	1480	1500	1500	1540	1480	1500	1500
Weight kgs	45	85	98	104	45	85	98
Mains connection volts/Hz/Ph	230/50-60/1	230/50-60/1	230/50-60/1	230/50-60/1	230/50-60/1	230/50-60/1	230/50-60/1
Refrigerant	< EP-53 (CFC- and HCFC-free) >			EP-88	< EP-88 (CFC- and HCFC-free) >		

* The heights in brackets apply when the supplied internal covers are used.

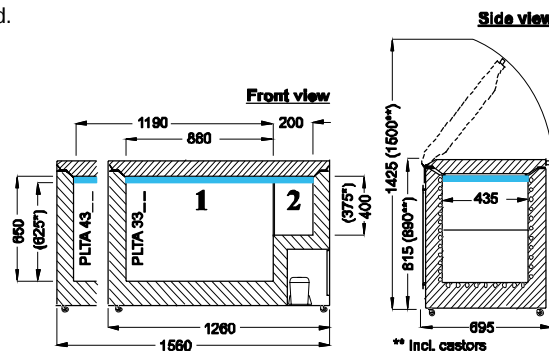
Alternative units: ProfiLine Pollux.

ProfiLine Taurus + Accessories:

	Cat. No.
ProfiLine Taurus PLTA 0960	GTPLTA0960
ProfiLine Taurus PLTA 3360	GTPLTA3360
ProfiLine Taurus PLTA 4360	GTPLTA4360
ProfiLine Taurus PLTA 5561	GTPLTA5561
ProfiLine Taurus PLTA 0986	GTPLTA0986
ProfiLine Taurus PLTA 3386	GTPLTA3386
ProfiLine Taurus PLTA 4386	GTPLTA4386

ProfiTec Temperature Monitoring and Recording System (see sep. brochure).
 ProfiCaller telephone dialler (see sep. brochure). ZXX2-009PLTA-TX
 Pt-100 temperature sensor, additionally installed for external temperature recording. ZXX2-020-2L
 CO₂ back-up system, free-standing. ZXX2-092
 Facilities for customer connection of CO₂ back-up system. ZPLTA2-094
 Ex-Version „Interior free of ignition sources.“ ZPLTA1-070
 Storage basket PLTA 09xx, 195x385x200 mm (WxDxH). ZXX4-084
 Storage basket PLTA 33xx/43xx, 220x430x200 mm (WxDxH). ZXX4-085
 Storage basket PLTA 5561, 220x480x215 mm (WxDxH). ZXX4-093

GPTEC4A



Innovation prize

ProfiTec
 Intelligent
 Temperature
 Monitoring
 and Recording
 System

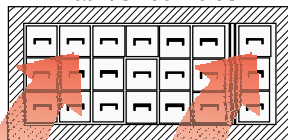


- For up to 4 refrigerators and/or freezers
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- Warning for excess and insufficient temperature
- Includes No-volt remote alarm contact
- The measuring protocol can be fed to PC via RS 232 port

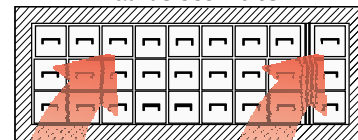
Taurus 74 Litres



Taurus 296 Litres



Taurus 383 Litres



Number of racks when fully equipped

Type of box	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
50 mm	TA50-08AN	TA50-11AN	TA50-06AN	TA50-11AN	TA50-06AN
75 mm	TA75-05AN	TA75-07AN	TA75-04AN	TA75-07AN	TA75-04AN
100 mm	TA100-04AN	TA100-03AN	TA100-03AN	TA100-03AN	TA100-03AN

Laboratory Chest Freezer ProfiLine PLECC

- Static cooling and manual defrost
- Low-noise and low-vibration fully hermetic compressor, air-cooled and low-maintenance
- Operating panel with key-operated main switch
 - Electronic control with digital display
 - Visual/audible alarm device, mains-independent
 - No-volt remote alarm contact for connection to an alarm system on the premises
- Auto-voltage safeguard (12 VAC auto-boost)
- Double lid gaskets and inner lids to minimize cold air loss
- Sturdy lid, double-walled and well insulated, balanced and easy to operate, lockable
- External housing made of white corrosion-resistant, galvanized steel plate with high-impact epoxy finish, easy to clean
- Interior made of stainless steel CNS, easy to clean
- Duct to storage compartment 25 mm in diameter
- 4 castors with brakes



ProfiLine PLECC 31406

Model ProfiLine	PLECC 11406	PLECC 31406	PLECC 51406	PLECC 61406
Temperature range °C:	-10/-40	-10/-40	-10/-40	-10/-40
Content litres (gross):	85	360	481	566
Ext.dimensions (WxDxH) mm:	724x804x1113	1829x830x1029	2225x830x1029	2438x830x1029
Int.dimensions (WxDxH) mm:	470x470x419	1077x470x706	1473x470x706	1686x470x706
Height at open top mm:	1900	1850	1850	1850
Weight kgs:	150	270	318	323
Mains connection volts/Hz/ph:	230/50-60/1	230/50-60/1	230/50-60/1	230/50-60/1
Refrigerant :	Mix	Mix	Mix	Mix
Shipping dimensions mm:	970x970x1300	2100x1000x1200	2500x1000x1200	2700x1000x1200
Shipping weight kgs:	180	300	348	353

Alternative units: ProfiLine Taurus, ProfiLine Pollux and ProfiMaster Mini.

ProfiLine PLECC + Accessories:

Cat. No.

ProfiLine PLECC 11406	GTPLECC11406
ProfiLine PLECC 31406	GTPLECC31406
ProfiLine PLECC 51406	GTPLECC51406
ProfiLine PLECC 61406	GTPLECC61406

ProfiTec Temperature Monitoring and Recording System (see sep. brochure).	GPTEC4A
ProfiCaller telephone dialler (see sep. brochure).	ZXX2-009-TX
Pt-100 temperature sensor, add. installed for ext. temperature recording.	ZPL2-020-2L
Temperature recorder, 7-day drive, 6" circular chart. Factory installed.	ZXX2-031-85
6" 7-day circular charts. Pck. of 100 pieces.	ZXX2-032-115
CO ₂ back-up system, free-standing.	ZXX2-090
Water-cooled condenser.	ZPL9-010
Storage basket, 240x440x240 mm (WxDxH).	ZXX4-088
MIN/MAX thermometer to be placed in refrigerators or freezers.	ZXX2-019-001
Measuring range -50/+50°C, an add. temperature sensor is not required.	
MIN/MAX digital thermometer. Hand-held unit with digital display as well as data-hold and relative measuring function. Measuring range -200/+1370°C.	ZXX2-019-011
An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.	
Temperature sensor for MIN/MAX thermometer ZXX2-019-011.	ZXX2-022-100
Measuring range -100/+1000°C. Length 2 m. Other ranges on request.	

Innovation prize

ProfiTec Intelligent Temperature Monitoring and Recording System



- For up to 4 refrigerators and/or freezers
- Readings are stored over a period up to 781 days
- Warning for excess and insufficient temperature
- Includes No-volt remote alarm contact
- The measuring protocol can be fed to PC via RS 232 port

Storage System (modifiable)

Summary Stainless steel vertical racks for chest freezers.	ALPHA Boxes (fiberboard)			EPPI® Kryo Boxes (Polypropylene)		
	KA1050..	KA1075..	KA1100..	EPPI® 50	EPPI® 75	EPPI® 102
	7 12	5 8	3 6	7 12	5 8	3 6
	No. of Racks X Boxes	No. of Racks X Boxes	No. of Racks X Boxes	No. of Racks X Boxes	No. of Racks X Boxes	No. of Racks X Boxes
Model No.						
PLECC 11..6	9 x 7	9 x 5	9 x 3	9 x 7	9 x 5	9 x 3
PLECC 31..6	21 x 12	21 x 8	21 x 6	21 x 12	21 x 8	21 x 6
PLECC 51..6	30 x 12	30 x 8	30 x 6	30 x 12	30 x 8	30 x 6
PLECC 61..6	33 x 12	33 x 8	33 x 6	33 x 12	33 x 8	33 x 6

Alternatives and additional storage systems can be found in our separate catalogue.

Laboratory Chest Freezer ProfiLine PLECC

- Static cooling and manual defrost
- Low-noise and low-vibration fully hermetic compressor, air-cooled and low-maintenance
- Operating panel with key-operated main switch
 - Electronic control with digital display
 - Visual/audible alarm device, mains-independent
 - No-volt remote alarm contact for connection to an alarm system on the premises
- Auto-voltage safeguard (12 VAC auto-boost)
- Double lid gaskets and inner lids to minimize cold air loss
- Sturdy lid, double-walled and well insulated, balanced and easy to operate, lockable
- External housing made of white corrosion-resistant, galvanized steel plate with high-impact epoxy finish, easy to clean
- Interior made of stainless steel CNS, easy to clean
- Duct to storage compartment 25 mm in diameter
- 4 castors with brakes



ProfiLine PLECC 31866

Model ProfiLine	PLECC 11866	PLECC 31866	PLECC 51866	PLECC 61866
Temperature range °C:	-50/-86	-50/-86	-50/-86	-50/-86
Content litres (gross):	85	360	481	566
Ext.dimensions (WxDxH) mm:	724x804x1113	1829x830x1029	2225x830x1029	2438x830x1029
Int.dimensions (WxDxH) mm:	470x470x419	1077x470x706	1473x470x706	1686x470x706
Height at open top mm:	1900	1850	1850	1850
Weight kgs:	166	295	343	350
Mains connection volts/Hz/ph:	230/50-60/1	230/50-60/1	230/50-60/1	230/50-60/1
Refrigerant :	Mix	Mix	Mix	Mix
Shipping dimensions mm:	970x970x1300	2100x1000x1200	2500x1000x1200	2700x1000x1200
Shipping weight kgs:	196	325	373	380

Alternative units: ProfiLine Taurus.

ProfiLine PLECC + Accessories:

Cat. No.

ProfiLine PLECC 11866	GTPLECC11866
ProfiLine PLECC 31866	GTPLECC31866
ProfiLine PLECC 51866	GTPLECC51866
ProfiLine PLECC 61866	GTPLECC61866

ProfiTec Temperature Monitoring and Recording System (see sep. brochure). GPTEC4A

ProfiCaller telephone dialler (see sep. brochure). ZXX2-009-TX

Pt-100 temperature sensor, add. installed for ext. temperature recording. ZPL2-020-2L

Temperature recorder, 7-day drive, 6" circular chart. Factory installed. ZXX2-031-85

6" 7-day circular charts. Pck. of 100 pieces. ZXX2-032-115

CO₂ back-up system, free-standing. ZXX2-090

Water-cooled condenser. ZPL9-010

Storage basket, 240x440x240 mm (WxDxH). ZXX4-088

MIN/MAX digital thermometer. Hand-held unit with digital display as well as data-hold and relative measuring function. Measuring range -200/+1370°C. ZXX2-019-011

An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100. ZXX2-022-100

Temperature sensor for MIN/MAX thermometer ZXX2-019-011.

Measuring range -100/+1000°C. Length 2 m. Other ranges on request.

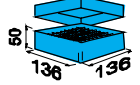
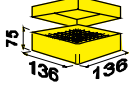
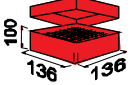
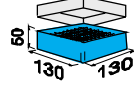
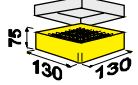
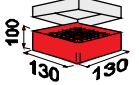
Innovation prize

ProfiTec Intelligent Temperature Monitoring and Recording System



- For up to 4 refrigerators and/or freezers
- Readings are stored over a period up to 781 days
- Warning for excess and insufficient temperature
- Includes No-volt remote alarm contact
- The measuring protocol can be fed to PC via RS 232 port

Storage System (modifiable)

Summary Stainless steel vertical racks for chest freezers.	ALPHA Boxes (fiberboard)			EPi® Kryo Boxes (Polypropylene)		
	KA1050..	KA1075..	KA1100..	EPi® 50	EPi® 75	EPi® 102
						
	7  12	5  8	3  6	7  12	5  8	3  6
	No. of Racks X Boxes	No. of Racks X Boxes	No. of Racks X Boxes	No. of Racks X Boxes	No. of Racks X Boxes	No. of Racks X Boxes
Model No.						
PLECC 11..6	9 x 7	9 x 5	9 x 3	9 x 7	9 x 5	9 x 3
PLECC 31..6	21 x 12	21 x 8	21 x 6	21 x 12	21 x 8	21 x 6
PLECC 51..6	30 x 12	30 x 8	30 x 6	30 x 12	30 x 8	30 x 6
PLECC 61..6	33 x 12	33 x 8	33 x 6	33 x 12	33 x 8	33 x 6

Alternatives and additional storage systems can be found in our separate catalogue.

Chest Freezer ProfiTest PTC

- Static cooling and manual defrost (forced air circulation optional)
- Manual defrost
- Operating panel with micro-processor driven temperature controller and digital displays for set value and actual value
- Visual/audible alarm device, mains-independent
- No-volt remote alarm contact for connection to an alarm system on the premises (optional)
- External housing made of stainless steel (CNS) or white, galvanized steel plate
- Lockable lid and spring-loaded hinges to allow opening at any angle
- Interior made of stainless steel (CNS)

ProfiTest chest freezers are manufactured according to customers' requirements. Therefore the following chart of some models does not show any temperature range. Dimensions are examples only.



ProfiTest PTC
(Special version with 2 separate cooling circuits)

Model ProfiTest	PTC10..	PTC20..	PTC30..	PTC40..	PTC50..
Temperature range °C:	< Temperature range according to customers' requirements >				
Content litres (gross):	100	200	300	400	500
Ext.dimensions (WxDxH) mm ⁹⁾ :	840x680x820	1340x680x820	1340x680x1020	1540x730x1020	1740x780x1020
Int.dimensions (WxDxH) mm ⁹⁾ :	500x500x400	1000x500x400	1000x500x600	1200x550x600	1400x600x600
Weight kgs:	130	180	220	260	300
Mains connection volts/Hz/ph:	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1
Refrigerant	R507	R507	R507	R507	R507

¹⁾ Inner and exterior dimensions can be fixed according to customers' requirements.

Alternative units: ProfiMaster, ProfiLine Taurus and ProfiLine PLECC.

Accessories

- * Forced air circulation for temperature constancy up to ±1K
- * Duct to storage compartment.
- * 4 castors (2 lockable), factory assembled.
- * Pt-100 temperature sensor, additionally installed for external recording.
- * ProfiTec Temperature Monitoring and Recording System (see below or separate brochure).
- * 30-day linear temperature recorder.
- * ProfiCaller telephone dialler (see separate brochure).
- * Alarm device with mains-independent circuit, visual/audible, with no-volt remote alarm contact
- * Water-cooled condenser.



Option "Forced air circulation"



Laboratory Upright Freezers
35 and 100 litres ...



...also with insulated glass door
(See separate brochure.)

Recirculating Chillers



ProfiCool Genius PCGE



ProfiCool Minimus PCMin



Water Flow Regulator, 6-way



Small Scale Chest Freezers 8 litres
(See separate brochure.)

Recirculating chillers

www.nationallab.eu



Laboratory Chest Freezer LabStar Mira LSMI

- Static cooling and manual defrost
- Operating panel with thermostat
 - Visual alarm device
- External housing made of white, galvanized steel plate
- Interior made of aluminium
- Condensate drain integrated in base
- Lockable lid and spring-loaded hinges to allow opening at any angle
- Interior lighting (except for ex-version)



LabStar Mira 3525WN

Model LabStar Mira LSMI	2225WN	3525WN	4525WN	5325WN	6125WN	7125WN
Temperature range °C:	-10/-25	-10/-25	-10/-25	-10/-25	-10/-25	-10/-25
Content litres (gross) l:	215	347	447	527	607	701
External dimensions mm:						
A	720	1050	1300	1500	1700	1800
B	730	730	730	730	730	770
C	650	650	650	650	650	690
D	860	860	860	860	860	860
E	1560	1560	1560	1560	1560	1600
Internal dimensions mm:						
F	600	930	1180	1380	1580	1680
G	400	730	980	1180	1380	1480
H	690	690	690	690	690	690
I	250	250	250	250	250	250
J	530	530	530	530	530	570
Weight kgs:	43	54	64	67	77	85
Energy consumption kW/24h:	0.71	0.90	1.05	1.30	1.52	1.95
Mains connection volts/Hz/ph:	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1
Refrigerant mm:	R134a	R134a	R134a	R134a	R134a	R134a
Storage baskets	1	2	2	3	3	3
Shipping dimensions (WxDxH) mm:	770x750x930	1100x750x930	1350x750x930	1550x750x930	1750x750x930	1850x790x930
Shipping weight kgs:	50	60	70	75	80	90

Alternative units: ProfiLine Taurus and ProfiLine Pollux.

LabStar Mira + Accessories:

Cat. No.

LabStar Mira LSMI 2225WN	GTLSMI2225WN
LabStar Mira LSMI 3525WN	GTLSMI3525WN
LabStar Mira LSMI 4525WN	GTLSMI4525WN
LabStar Mira LSMI 5325WN	GTLSMI5325WN
LabStar Mira LSMI 6125WN	GTLSMI6125WN
LabStar Mira LSMI 7125WN	GTLSMI7125WN

Alarm unit opt./acoust., electronic control with digital display and no-volt remote alarm contact. ZLSMI2-005+150/-55

Digital temperature display incl. PTC temperature sensor. ZXX2-015-001

Measuring range +50/-50°C.

ProfiTec Temperature Monitoring and GPTEC4A

Recording System (see sep. brochure).

ProfiCaller telephone dialler (see sep. brochure). ZXX2-009-TX

Pt-100 temperature sensor, add. installed for ext. temperature recording. ZXX2-020-2L

Ex-Version „Interior free of ignition sources.“ ZLSMI1-070

Storage basket LSMI 2225 to LSMI 6125, 280x515x220 mm (WxDxH). ZXX4-089

Storage basket LSMI 7125, 280x565x245 mm (WxDxH). ZXX4-090

MIN/MAX digital thermometer. Hand-held unit with digital display as well as data-hold and relative measuring function. Measuring range -200/+1370°C. ZXX2-019-011

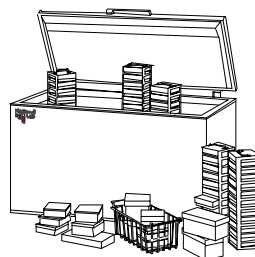
An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.

Temperature sensor for MIN/MAX thermometer ZXX2-019-011. ZXX2-022-100

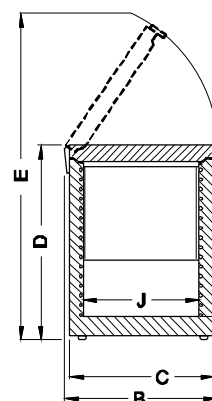
Measuring range -100/+1000°C. Length 2 m. Other ranges on request.

Inventory Sytems

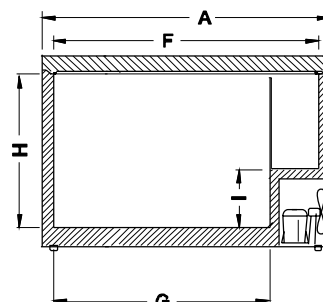
Stainless steel vertical racks, freezer cassettes and grid inserts enable specimens to be stored and retrieved in a clear and orderly manner. Optimum use is made of the storage capacity. Storage systems are also available for this model in our separate brochures. You can also contact us for a personal consultation.



Side view



Front view



Laboratory Chest Freezer ProfiLine Pollux PLPO

- Static cooling and manual defrost
- Electronic control and digital display
 - Visual/audible alarm warning for excess and insufficient temperature
 - No-volt remote alarm contact for connection to a remote alarm system
- External housing made of white, galvanized steel plate
- Interior made of aluminium
- Condensate drain integrated in base
- Lockable lid and spring-loaded hinges to allow opening at any angle
- Interior lighting (except for ex-version)
- With castors, supplied separately



ProfiLine Pollux 3645WN

Model ProfiLine Pollux	PLPO1345WN	PLPO2245WN	PLPO3045WN	PLPO3645WN	PLPO4245WN
Temperature range	°C: -5/-45	-5/-45	-5/-45	-5/-45	-5/-45
Content	litres (gross): 130	226	299	358	416
Ext.dimensions (WxDxH)	mm: 725x731x865	1055x731x865	1305x731x865	1505x731x865	1705x731x865
Int.dimensions 1 (WxDxH)	mm:	< see sketch >			
Int.dimensions 2 (WxDxH)	mm:	< see sketch >			
Height at open top	mm: 1555	1555	1555	1555	1555
Weight	kgs: 43	54	64	67	77
Mains connection	volts/Hz/Ph: 230/50/1	230/50/1	230/50/1	230/50/1	230/50/1
Insulation CFC-free	mm: 100	100	100	100	100
Refrigerant	: R404	R404	R404	R404	R404

Alternative units: ProfiLine Taurus and LabStar Mira.

ProfiLine Pollux + Accessories:

ProfiLine Pollux PLPO 1345WN
 ProfiLine Pollux PLPO 2245WN
 ProfiLine Pollux PLPO 3045WN
 ProfiLine Pollux PLPO 3645WN
 ProfiLine Pollux PLPO 4245WN

Cat. No.

GTPLPO1345WN
 GTPLPO2245WN
 GTPLPO3045WN
 GTPLPO3645WN
 GTPLPO4245WN

ProfiTec Temperature Monitoring and Recording System (see sep. brochure).
 ProfiCaller telephone dialler (see sep. brochure).
 Pt-100 temperature sensor, add. installed for ext. temperature recording.
 Ex-Version „Interior free of ignition sources.“
 Storage basket 253x410x183 mm (WxDxH).
 MIN/MAX thermometer to be placed in refrigerators or freezers.
 Measuring range -50/+50°C, an add. temperature sensor is not required.
 MIN/MAX digital thermometer. Hand-held unit with digital display as well as data-hold and relative measuring function. Measuring range -200/+1370°C.
 An add. temperature sensor is required, eg. Cat.-No. ZXX2-022-100.
 Temperature sensor for MIN/MAX thermometer ZXX2-019-011.
 Measuring range -100/+1000°C. Length 2 m. Other ranges on request.

GPTEC4A

ZXX2-009-TX

ZXX2-020-2L

on request

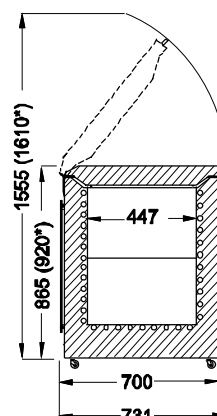
ZXX4-092

ZXX2-019-001

ZXX2-019-011

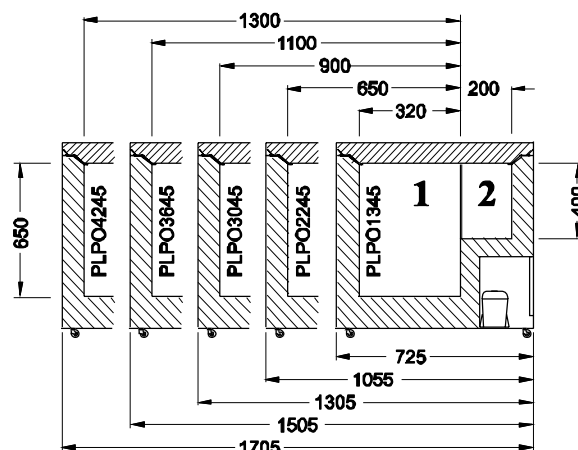
ZXX2-022-100

Side view



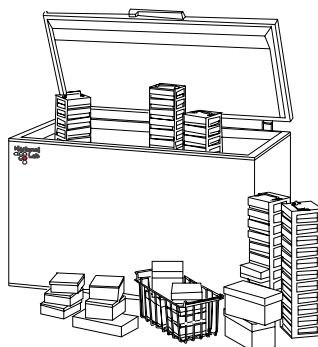
* Incl. castors

Front view



Inventory Sytems

Stainless steel vertical racks, freezer cassettes and grid inserts enable specimens to be stored and retrieved in a clear and orderly manner. Optimum use is made of the storage capacity. Storage systems are also available for this model in our separate brochures. You can also contact us for a personal consultation.



Temperature Monitoring and Recording System ProfiTec

Temperature monitoring and recording system for up to 4 refrigerators and freezers, ovens and incubators. Operating panel with digital display options for date, time, temperature of the 4 measuring stations, automatic adjustment from summer to winter time. The digital display is also used for programming. Measuring stations can be individually identified. Acoustic alarm device with individually adjustable warning levels and delay times. No-Volt remote alarm contact for connection to central control stations or telephone relaying. 3 signal inputs for door contact and/or system fault. Records up to 4 measuring stations simultaneously over a period of up to 781 days (5-minute intervals). Storage intervals selectable from 1 to 60 minutes. The readings are stored even in the event of a power failure. A rechargeable battery is available as an option and enables readings to be taken and stored even during a power cut. The measuring protocol can be read out directly on the instrument or PC via the RS 232 port (for software see Accessories). Up to 79 ProfiTec units can be linked within a network via the RS 485 port. The measuring protocols can then be called up individually with the PC. The casing is made of plastic with a transparent cover for the operating panel. Screws and a set of plugs are included for mounting the instrument on a wall.



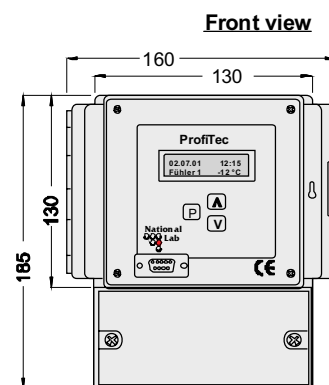
ProfiTec 424A

Temperature monitoring range	°C: +600/-110
Resolution	°C: 0.5
Ambient temperature	°C: 0 to +50
External dimensions (WxDxH)	mm: 160x105x185
Power consumption	watts: 5
Measuring stations	: 4
Signal inputs	: 3x230V with time delay
Storage capacity for readings	: 225,000
Interfaces	: RS 232 - serial port
	: RS 485 - PC network
Calibration	: factory preset, maintenance free
Protective system electrical	: IP 54
Mains connection	volts/Hz/ph: 230/50-60/1

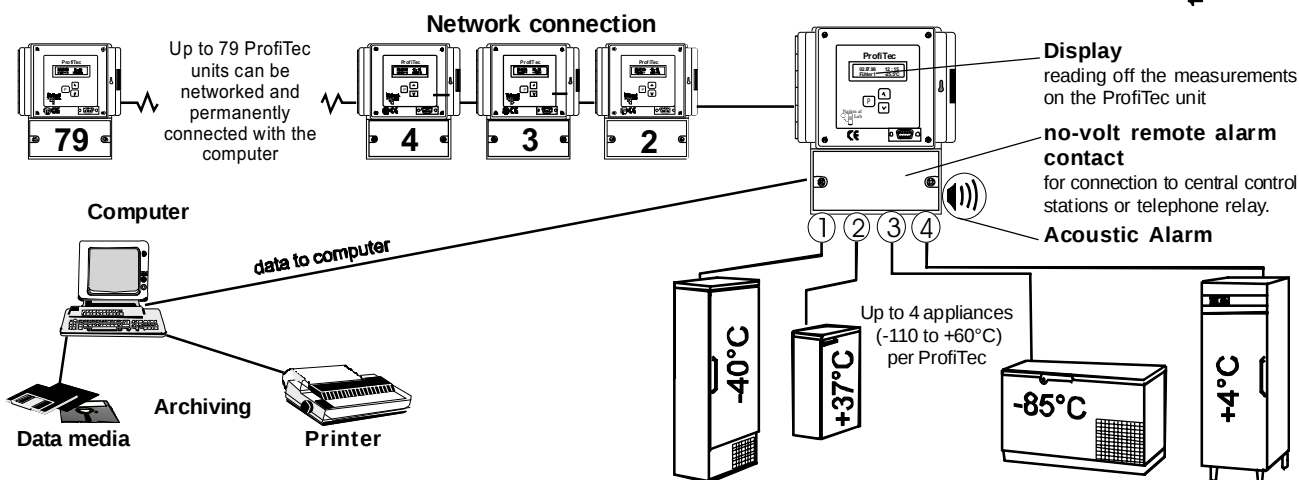
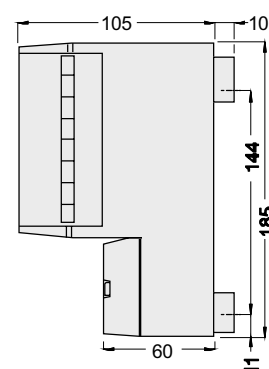
ProfiTec + Accessories:

Cat. No.

ProfiTec 424A	GPTEC4A
Temperature sensor with 6-m lead.	ZPTC2-040-06
Temperature sensor with 12-m lead.	ZPTC2-040-12
Temperature sensor with 30-m lead.	ZPTC2-040-30
Temperature sensor with other lead.	on request
Set of rechargeable batteries 12V / 1.3 Ah.	ZPTC2-041
Connection lead between ProfiTec and PC (RS 232 port), 12 m long.	ZPTC2-043-12-2
Software for evaluation and recording for Windows 2000 and XP.	ZPTC2-042-XP
Digital converter for networking the ProfiTec units with a PC. With integrated power supply.	ZPTC2-044-NT
Connection lead between ProfiTec and digital converter for networking (price per metre).	ZPTC2-046
Converter USB 2.0 / RS 232.	ZPTC2-044-RS232-USB



Side view



Telephone dialler ProfiCaller

The **ProfiCaller** telephone dialler independently calls up to 4 telephone numbers in the event of a fault and issues a previously entered text. There is a free choice of dialling sequence. The automatic redial setting is 3 times for each number. The message text has a maximum length of 40 seconds. The dialler comes with a plug-in power supply unit. All 4 alarm outputs are preconfigured in the standard (5 m connecting lead).



ProfiCaller

External Dimensions (WxDxH) mm	: 150x30x104
Mains connection volts/Hz/ph	: 230/50/1 with a plug-in power supply unit 11.5V up to 14V
PBX-capable	: yes
System requirements	: telephone connection (TAE-N socket); no-volt remote alarm contact at the cooling and freezing devices or Temperature Monitoring and Recording System ProfiTec (see separate brochure)

ProfiCaller + Accessories:

Cat. No.

ProfiCaller	ZXX2-009-TX
Uninterrupted power supply unit (UPS).	ZXX2-007-20

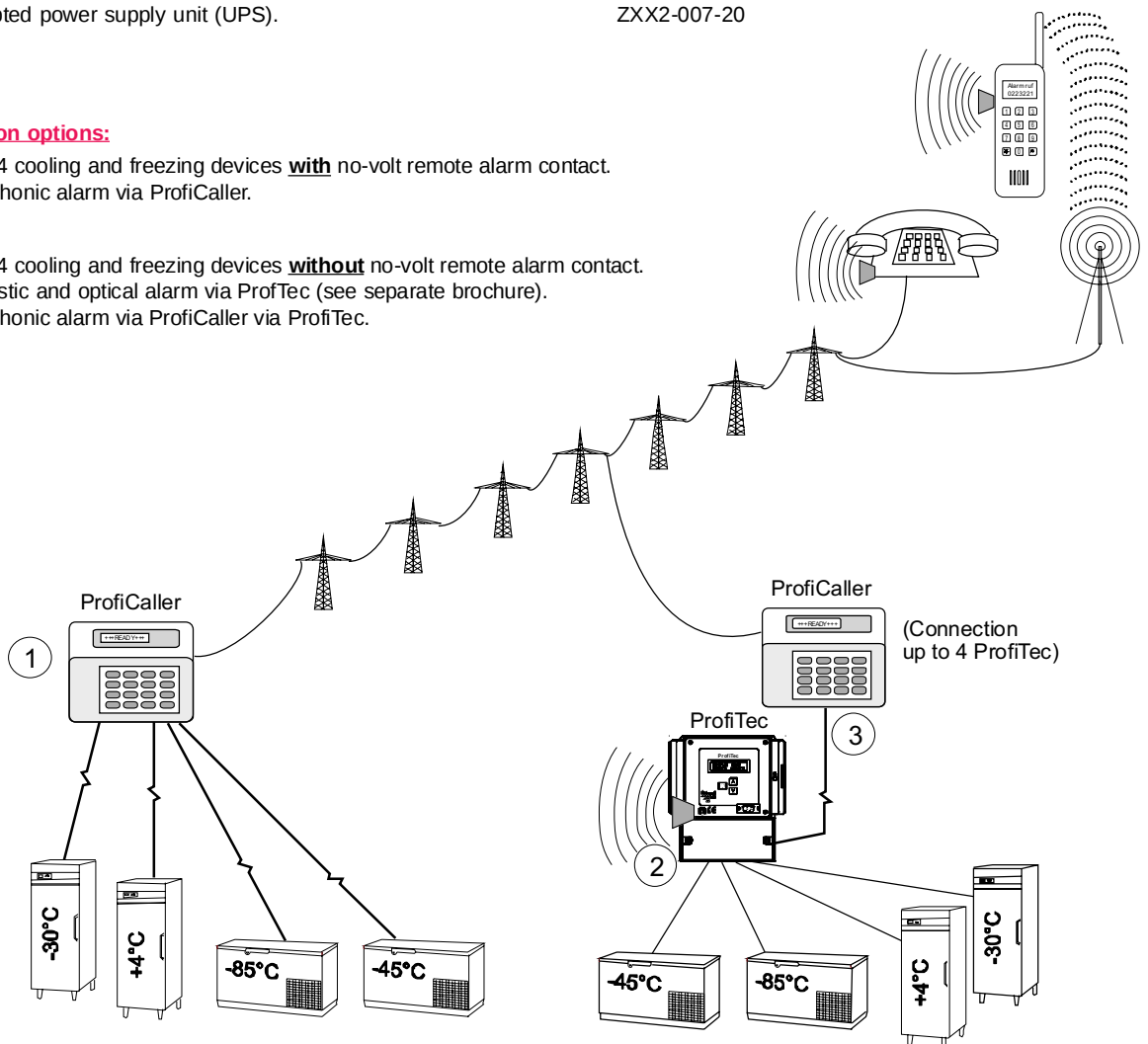
Connection options:

For up to 4 cooling and freezing devices **with** no-volt remote alarm contact.

- ① Telephonic alarm via ProfiCaller.

For up to 4 cooling and freezing devices **without** no-volt remote alarm contact.

- ② Acoustic and optical alarm via ProfiTec (see separate brochure).
- ③ Telephonic alarm via ProfiCaller via ProfiTec.



Chilling or freezing device **with** no-volt remote alarm contact

Chilling or freezing device **without** no-volt remote alarm contact

ProfiCool

Intelligent Recirculating Chillers



Recirculating Chillers ProfiCool *Minimus*

Air-cooled cooling machine with storage tank* and pump as well as electronic digital thermostat.

Model ProfiCool <i>Minimus</i>		PCMin 04.02	PCMin 06.02
Refrigerant	CFC-free	R134a	R134a
Cooling capacity at +20°C/+15°C	Watts	350/310	500/450
Operating range	°C	+5 / +25	+5 / +25
Pump capacity	l/min	12.5	12.5
Pump pressure	bars	0.75	0.75
Tank capacity	litres	7	7
Water connection (quick connection) CPC quick connection couplers for hose 10 mm outside diameter			
Operating voltage	Volts/Hz/Ph	230/50-60/1	230/50-60/1
Weight	kgs	22	25
Dimensions (WxDxH)	mm	413x283x415	413x283x415



Recirculating Chillers ProfiCool *Primus*

Air-cooled cooling machine with storage tank* and pump as well as electronic digital thermostat for temperature constancy ± 0.5 K (± 0.1 K optional).

Model ProfiCool <i>Primus</i>		PCPR 009	PCPR 013	PCPR 020
Refrigerant	CFC-free	R134a	R134a	R134a
Cooling capacity at +20°C/+15°C	kWs	0.6 / 0.4	1.0 / 0.8	1.7 / 1.4
Operating range	°C	+15 / +30	+15 / +30	+15 / +30
Temperature constancy	K	± 0.5	± 0.5	± 0.5
Rated coolant flow	m³/h	0.35	0.35	0.35
Pump pressure	bars	5.0	5.0	5.0
Tank capacity	litres	4	4	4
Water connection (quick connection) CPC quick connection couplers for hose 10 mm outside diameter				
Operating voltage (Models-NED)	Volts/Hz/Ph	230/1/50-60	230/1/50-60	230/1/50-60
Weight	kgs	35	42	48
Dimensions (WxDxH)	mm	235x520x625	235x520x625	235x520x625

more units up to 3 kW available



Recirculating Chillers 19" ProfiCool *Exactus*

Air-cooled cooling machine as 19" rack with storage tank* and pump as well as electronic digital thermostat for temperature constancy ± 0.5 K (± 0.1 K optional).

Model ProfiCool <i>Exactus</i>		PCEX 020	PCEX 055
Refrigerant	CFC-free	R404a	R404a
Cooling capacity at +20°C	kWs	1.8	5.3
Operating range	°C	+15 / +30	+15 / +30
Temperature constancy	K	± 0.1	± 0.1
Pump capacity	l/min	5-20	4-40
Pump pressure	bars	0.5-4	1-5
Tank capacity	litres	4.5	15
Water connection (quick conn.) CPC quick connection couplers for hose 12 mm outside diameter			
Operating voltage	Volts/Hz/Ph	230/50-60/1	400-460/50-60/3
Weight	kgs	40	55
Dimensions (WxD)	mm	440x500	440x580
Height (1 rack unit = 44.5 mm)	RU	7.5	18

more units up to 1.5 kW available



* in standard version open to atmosphere

We are pleased to send detailed information about described series.
For all units we provide a wide range of options. Please contact us.

F.010



ProfiCool

Intelligent Recirculating Chillers



Water-to-Water Heat Exchanger System FlowCool Unicus

Heat exchanger system without active refrigeration for connection to an in-house circuit. Exchanging system with storage tank* and pump as well as electronic digital thermostat for application cooling circuit.

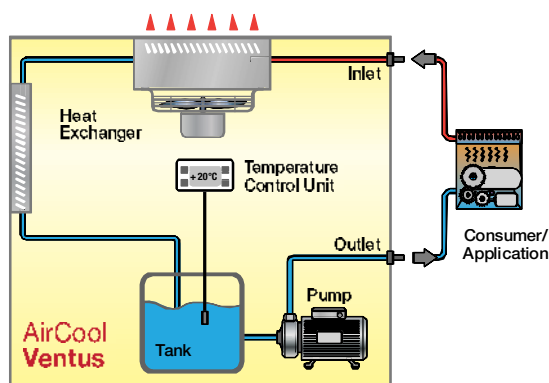
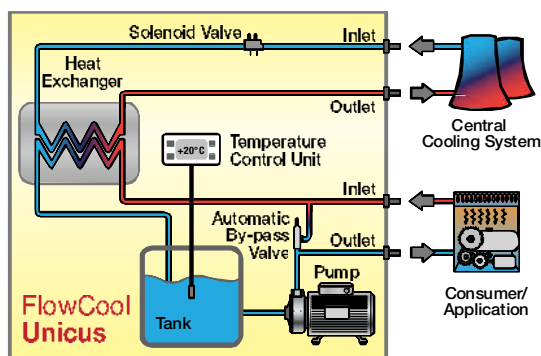
Model FlowCool Unicus		FCUN 001	FCUN 004	FCUN 006	FCUN 011
Cooling capacity	kWs	1.3	3.8	6.5	11.5
Operating range cooling temperature	°C	+10/+50	+10/+50	+10/+50	+10/+50
Temperature constancy	K	±2	±2	±2	±2
Rated coolant flow	m³/h	0.6	0.7	1.1	2.0
Pump pressure	bars	2.9	2.9	4.2	2.3
Tank capacity	litres	10	10	10	10
Water connection		for hose 12 mm inside-Ø		Female R 3/4"	
Operating voltage	Volts/Hz/Ph	230/50/1	230/50/1	230/50/1	230/50/1
Weight	kgs	19	22	32	33
Dimensions (WxDxH)	mm	230x520x650	445x575x540	445x575x540	445x575x540

Air-to-Water Heat Exchanger System AirCool Ventus

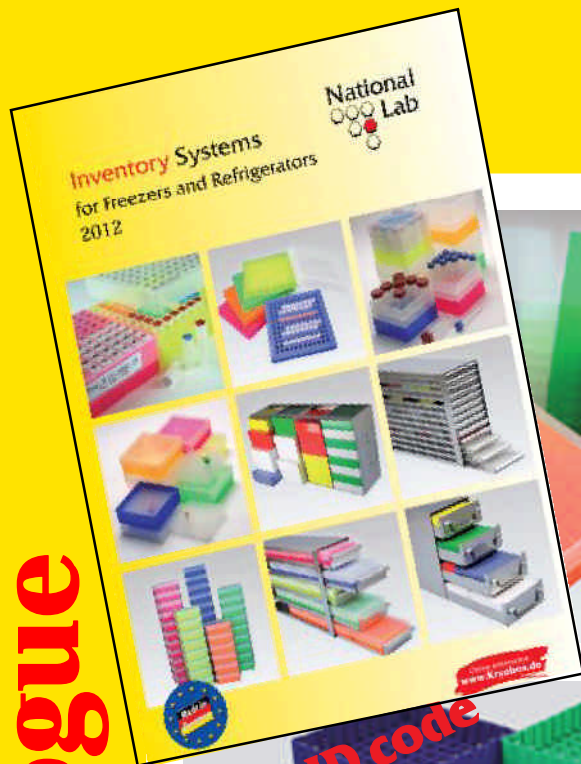
Heat exchanger system without active refrigeration for heat discharged into the ambient air. Application cooling circuit with storage tank* and pump as well as electronic digital thermostat.

Model AirCool Ventus		ACVE 001	ACVE 002	ACVE 004
Cooling capacity at dT of 5K/20K	kWs	0.8 / 3.2	1.3 / 5.2	3.9 / 15.6
Cooling medium		water	water	water
Rated coolant flow	m³/h	0.6	0.6	0.7
Pump pressure	bars	2.9	2.9	2.8
Tank capacity	litres	10	10	30
Water connection		(hose olives) for hose 12 mm inside-Ø		Female R 3/4"
Required flow of cooling air	m³/h	880	800	2,100
Operating voltage	Volts/Hz/Ph	230/50/1	230/50/1	230/50/1
Weight	kgs	23	25	101
Dimensions (WxDxH)	mm	230x520x650	230x520x650	580x650x920

* in standard version open to atmosphere



EPi® Box made of Polypropylene 130 x 130 mm



EPi® 50 / 9x9 • height 52 mm fix.

Inner height 50 mm. 9x9 divider holds 81 vials up to 12.5 mm diameter. Without ID code.
(See also page 4: KEA45)

Cat. No.	Colour	Cat. No.	Colour
KEA50-C81NA	natural	KEA50-C81YE	yellow
KEA50-C81NY	neon-yellow	KEA50-C81BU	blue
KEA50-C81NB	neon-blue	KEA50-C81GR	green
KEA50-C81NG	neon-green	KEA50-C81RE	red
KEA50-C81NP	neon-red/pink	KEA50-C81VT	violet
KEA50-C81NO	neon-orange	KEA50-C81BL	black
KEA50-C81WH	white	KEA50-C81BB	black/black*

*black/black: Lower half and lid black for light-sensitive samples

EPi® 50 / 9x9 • height 52 mm fix.

Inner height 50 mm. 9x9 divider holds 81 vials up to 12.5 mm diameter. With alphanumeric ID code on all 4 sides. (See also page 4: KEB45)

Cat. No.	Colour	Cat. No.	Colour
KEB50-C81NA	natural	KEB50-C81YE	yellow
KEB50-C81NY	neon-yellow	KEB50-C81BU	blue
KEB50-C81NB	neon-blue	KEB50-C81GR	green
KEB50-C81NG	neon-green	KEB50-C81RE	red
KEB50-C81NP	neon-red/pink	KEB50-C81VT	violet
KEB50-C81NO	neon-orange	KEB50-C81BL	black
KEB50-C81WH	white	KEB50-C81BB	black/black*

*black/black: Lower half and lid black for light-sensitive samples

EPi® 50 / 9x9 • height 52 mm fix.

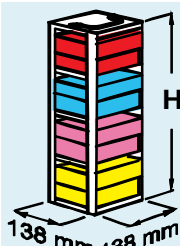
Inner height 50 mm. 9x9 divider holds 81 vials up to 12.5 mm diameter. With alphanumeric ID code on all 4 sides as well as on the bottom of the box (transparent). (See also page 4: KEC45)

Cat. No.	Colour
KEC50-C81NA	natural
KEC50-C81NY	neon-yellow
KEC50-C81NB	neon-blue
KEC50-C81NG	neon-green
KEC50-C81NP	neon-red/pink
KEC50-C81NO	neon-orange

EPi® 50 / 9x9 • height 52 mm fix.

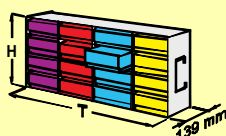
Inner height 50 mm. 9x9 divider holds 81 vials up to 12.5 mm diameter. With alphanumeric ID code on all 4 sides as well as on the bottom of the box (transparent) and on the lid. (See also page 4: KEE45)

Cat. No.	Colour
KEE50-C81NA	natural
KEE50-C81NY	neon-yellow
KEE50-C81NB	neon-blue
KEE50-C81NG	neon-green
KEE50-C81NP	neon-red/pink
KEE50-C81NO	neon-orange



Stainless Steel Vertical Racks for EPPI®50 and EPPI®45

No. of Boxes	Height (mm)	Cat. No.	No. of Boxes	Height (mm)	Cat. No.
4	226	TE50-04AN	10	556	TE50-10AN
5	281	TE50-05AN	11	611	TE50-11AN
6	336	TE50-06AN	12	666	TE50-12AN
7	391	TE50-07AN	13	721	TE50-13AN
8	446	TE50-08AN	14	776	TE50-14AN
9	501	TE50-09AN			



Stainless Steel Horizontal Racks for EPPI®50 and EPPI®45

No. of Boxes	DxH (mm)	Cat. No.	No. of Boxes	DxH (mm)	Cat. No.
8 (2x4)	278 x 224	SE50-24AN	12 (4x3)	549 x 169	SE50-43AN
10 (2x5)	278 x 279	SE50-25AN	16 (4x4)	549 x 224	SE50-44AN
12 (2x6)	278 x 334	SE50-26AN	20 (4x5)	549 x 279	SE50-45AN
14 (2x7)	278 x 389	SE50-27AN	24 (4x6)	549 x 334	SE50-46AN
9 (3x3)	414 x 169	SE50-33AN	28 (4x7)	549 x 389	SE50-47AN
12 (3x4)	414 x 224	SE50-34AN	15 (5x3)	685 x 169	SE50-53AN
15 (3x5)	414 x 279	SE50-35AN	20 (5x4)	685 x 224	SE50-54AN
18 (3x6)	414 x 334	SE50-36AN	25 (5x5)	685 x 279	SE50-55AN
21 (3x7)	414 x 389	SE50-37AN	30 (5x6)	685 x 334	SE50-56AN
			35 (5x7)	685 x 389	SE50-57AN



L

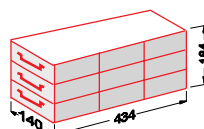
Base of drawer in middle open.
Facilitates removal and insertion.

V

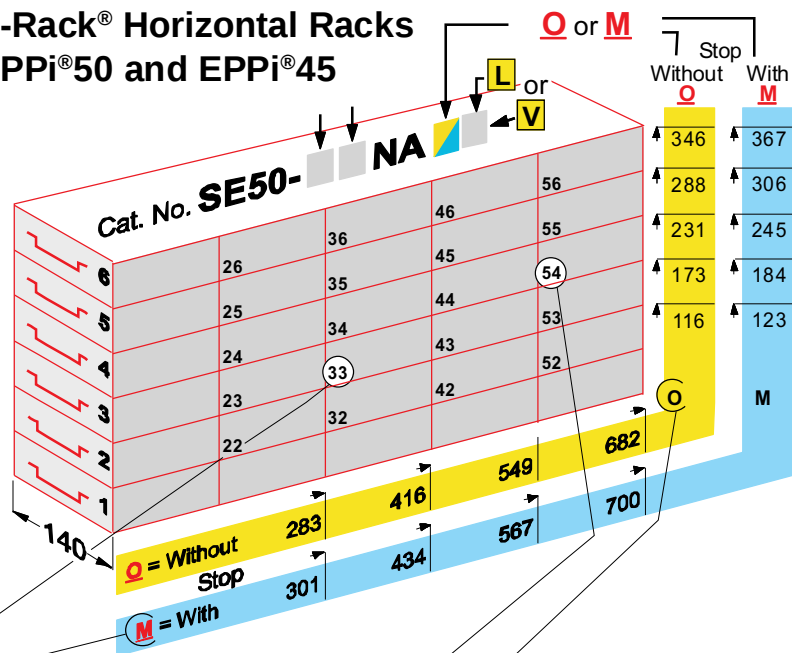
Base of drawer closed.

Example: Cat. No. **SE50-3 3 NA M V**

EPPI-Rack **with** safety stop.
Base of drawers closed.
For 9 x EPPI®50 and
EPPI®45 Kryo Box.



EPPI-Rack® Horizontal Racks for EPPI®50 and EPPI®45



Cat. No. **SE50-5 4 NA O L**

EPPI-Rack **without** safety stop.
Base of drawers open.
For 20 x EPPI®50 and
EPPI®45 Kryo Box.

