



**DAIREI** <sup>A</sup>/<sub>S</sub>  
EUROPE

**THE ART OF SIMPLICITY**



# DANISH DESIGN AND ULTIMATE PERFORMANCE TECHNOLOGY



The Dairei world wide patented single compressor system, offers the best solution in the Ultra Low temperature market. With focus on simplicity we strive to design products that are easy to use, equipped with all features and in the unlikely event, that a service problem should occur, all service can be done onsite without special training or tools.



The ORIGINAL and WORLD PATENTED single compressor cooling system, with the true single stage technology provides low energy consumption, low noise and low heat dissipation. The -85°C freezers are equipped with small footprint ensuring easy access to all laboratories and comes in exclusive Danish design.



Dairei products are CE marked and comply with EU standards.



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# UPRIGHT LOW & ULTRA LOW TEMPERATURE FREEZERS

-85/-40°C



Digital Controller with micro processor and battery backup.



New designed easy to use Door lock.



15 racks and 252 pieces 50mm plastic boxes (optional).



Halogen lights activate when door is opened.



Evaporator freezing shelves provide constant temperature in each compartment.



Prepared for our advanced CO2 backup system (optional).

**5 YEARS WARRANTY\***

## ULUF SERIES

- Single compressor
- Low energy consumption
- Low noise level
- Low Heat dissipation
- Insulated Inner doors
- Castors and Door Lock
- Ergonomic loading
- Heated door frame
- Heated vacuum valve
- 100% HCFC/CFC free

## NEW CONTROLLER

- Micro processor controller with Digital display
- Battery backup - 48 hours
- Visual and acoustic alarm
- Adjustable high/low temperature alarm
- Power failure alarm
- Probe failure alarm
- Instrument failure alarm
- Door open alarm
- Contact for remote alarm
- Prepared for GSM alarm
- Integrated Data Logger (software included)
- RS485 Interface
- USB read out

## ULUF SERIES -85/-40°C

The new ULUF series is a product of our passion, to strive after excellence when we offer the best in Ultra low temperature freezing. Once again we set new standards with the most user friendly controller in the market. Features as non-manipulative data logger and USB readout are just some of the features that comes as standard in the ULUF series.

## SPECIFICATIONS

Model	ULUF 400	ULUF 450
Item Code (DAI no.)	DAI1407	DAI1408
Dimensions exterior WxDxH (mm)	720x755x2080	720x755x2080
Net capacity (L)	390	390
Temperature range (°C)	-20/-40	-40/-85
Power supply (V)	230	230
Frequency (Hz)	50/60	50/60

We reserve the right to change specifications without notice. Subject to confirmation and availability.  
\* Optional, Excl. refrigerant, labour etc.



-85/-40°C

# UPRIGHT LOW & ULTRA LOW TEMPERATURE FREEZERS

## UPUL SERIES

- Single compressor
- Low energy consumption
- Low noise level
- 100% HCFC/CFC free
- Low Heat dissipation
- Inner doors
- Castors and door lock

## CONTROLLER

- Digital display
- Data logger (software included)
- RS 232 Interface
- Prepared for GSM alarm module
- Visual and acoustic alarm
- Power failure alarm
- Adjustable high/low temperature alarm
- Open door alarm
- Probe failure alarm
- Instrument (Eprom) failure alarm
- Contact for remote alarm



**5 YEARS WARRANTY\***



Heated vacuum valve to prevent a vacuum when opening the door at short intervals



Digital controller with visual + acoustic alarms, remote monitoring and 72 hrs battery backup



Each freezer shelf is designed with holes for easy access of CO<sup>2</sup> liquid from top to bottom.

## UPUL SERIES -85/-40°C

Experience a Danish design icon with a multi-functional controller, ergonomic usage and many alarm features for the extra security. With direct cooling in each compartment, the UPUL series ensures better temperature uniformity from top till bottom.

## SPECIFICATIONS

	UPUL 540	UPUL 580
Model	UPUL 540	UPUL 580
Item Code (DAI no.)	DAI1406	DAI1404
Dimensions exterior WxDxH (mm)	678x785x2162	678x785x2162
Net capacity (L)	450	450
Temperature range (°C)	-20/-40	-40/-85
Power supply (V)	230	230
Frequency (Hz)	50/60	50/60

We reserve the right to change specifications without notice. Subject to confirmation and availability.

\* Optional, Excl. refrigerant, labour etc.

# ULTRA LOW TEMPERATURE CHEST FREEZERS

**-85/-40°C**



**ULTF 320**

21 racks and 216 pieces 50mm plastic boxes. (optional for ULTF320)

Please see page 18 for information about racks and boxes



**ULTF 80**

5 racks and 40 pieces 50mm plastic boxes (optional for ULTF80)



**ULTF 420**

27 racks and 282 pieces 50mm plastic boxes. (optional for ULTF420)

**5 YEARS WARRANTY\***

## ULTF SERIES

- Single compressor
- Low energy consumption
- Low noise level (50 dBa)
- 100% HCFC/CFC free
- Low heat dissipation
- Sub lids
- Castors and lock
- Porthole for installation of PT100/CO2 backup

## CONTROLLER

- Digital display
- Visual and acoustic alarm
- Adjustable high/low temperature alarm
- Power failure alarm
- Instrument (Eprom) failure alarm
- Contact for remote alarm
- Approx. 48 hours battery back up for alarms and temperature display in the event of power cut
- 3 pin PT100 specially designed for ultra low temperature



## ULTF SERIES -85/-40°C

Innovative thinking is often spoiled by compromise, the ULTF series shows that high performance freezing with the focus on energy saving is the future. Our integrated cooling system gives maximum use on limited space, and we pride our selves with the lowest noise level available.



## SPECIFICATIONS

Model	ULTF 80	ULTF 320	ULTF 420
Item code (DAI no.)	DAI200	DAI205	DAI210
Dimensions exterior WxDxH (mm)	552x648x850	1260x698x850	1560x698x850
Net capacity (L)	71	284	368
Temperature range (°C)	-40 / -85	-40 / -85	-40 / -85
Power supply (V)	230	230	230
Frequency (Hz)	50/60	50/60	50/60

We reserve the right to change specifications without notice. Subject to confirmation and availability.

\* Optional, Excl. refrigerant, labour etc.

# -80/0°C

# ULTRA LOW TEMPERATURE FREEZERS

## MUF 40

- Single compressor
- Low energy consumption
- Low noise level
- Low heat dissipation
- Door lock

## CONTROLLER

- Digital display
- Battery backup
- Visual and acoustic alarms
- High/low temp. alarm
- Power failure alarm
- Probe failure alarm
- Contact for remote alarm



## MUF 40 -80°C FREEZER

With every generation, ahead of its time, the MUF 40 brings the noise level to all time low. With the possibility for under counter use in the laboratory or to have your samples stowed away in your private office, the MUF 40 with its 33 Liters is perfect for your needs.



## CRYO PORTER

- Changeable aluminium block
- Digital controller
- Simple & Easy Operation
- Temp. stability +/- 0,2°C.
- Safety system for over current, high temperature and low temperature
- Adjustable high/low temperature alarm
- AC (230V) and DC (12V) connection cables

## PORTABLE -80°C FREEZER

Keep your eyes on what's important. The DP-80 ensures direct access to your samples at Your desk. The Cryo porter is based on Sterling technology which means no compressor nor refrigerant. This makes it the most environmentally safe product in the Dairei range.



### ALUMINIUM BLOCKS:

- (DAI 1421) DPB-0296: 96 wells for PCR-tubes 0,2 ml
- (DAI 1422) DPB-0548: 48 wells for PCR-tubes 0,5 ml
- (DAI 1423) DPB-1548: 48 wells for Sample-tubes 1,5 ml
- (DAI 1424) DPB-1840: 40 wells for Vials, Cryotubes 1,8 ml
- (DAI 1425) DPB-2040: 40 wells, Cryotubes 2,0 ml



## SPECIFICATIONS

Model	Cryo Porter DP-80	MUF 40
Item Code (DAI no.)	DAI1420	DAI1410
Dimensions exterior WxDxH (mm)	230x262x390	580x740x890
Net capacity (L)	-	33
Temperature range (°C)	-80 / 0	-40 / -80
Power supply (V)	230 / 12	230
Frequency (Hz)	50/60	50/60

We reserve the right to change specifications without notice. Subject to confirmation and availability.

# LOW TEMPERATURE CHEST FREEZERS

-53°C



LTF 80



LTF 320



LTF 530

## LTF SERIES -53°C

As a synonym for security, the LTF series gives reliable low temperature freezing, with good temperature uniformity. Digital display, alarms, contact for remote monitoring, basket(s) and castors are some of the standards.

### LTF SERIES

- Single compressor
- Low energy consumption
- Low noise level
- 100% HCFC/CFC free
- Castors
- Lock
- Basket(s)

### CONTROLLER

- Digital display
- Acoustic alarm
- Adjustable high/low temp. alarm
- Probe failure alarm
- Contact for remote alarm



### SPECIFICATIONS

Model	LTF 80	LTF 150	LTF 320	LTF 420	LTF 530
Item Code (DAI no.)	DAI100	DAI105	DAI110	DAI115	DAI120
Dimensions exterior WxDxH (mm)	552×648×850	720×695×885	1260×695×885	1560×695×885	1705×655×865
Net capacity (L)	71	133	284	368	504
Temperature range (°C)	-30/-53	-30/-53	-30/-53	-30/-53	-30/-60
Power supply (V)	230	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60

We reserve the right to change specifications without notice. Subject to confirmation and availability.

# -45°C

# LOW TEMPERATURE LABORATORY FREEZERS

## UPLTF SERIES

- Digital display
- Adjustable high/low temperature alarm
- Probe failure alarm
- Acoustic alarm
- Noise level 48 dba
- Right hand hinged reversible door
- Adjustable feet at front, transport grips and castors at back
- Exterior contact for remote alarm (Alarm in case of power failure)
- All around sealed drawers to prevent frost escape when opening door



### UPLTF -45°C

Create new traditions with the UPLTF330. Designed for easy access and reliable storage at low temperatures. 7 sealed drawers with transparent fronts, ensures a good overview of your samples, and with direct cooling above each drawer the temperature is stable while the door is open.



**Drawer dimensions**  
**6 x 465x400x180 mm**  
**1 x 465x240x180 mm**



## LTFE SERIES

- Low energy consumption
- Low noise level
- Lock, castors and baskets
- Pull-out defrost drain for easy defrosting

## CONTROLLER

- Digital display
- Visual and acoustic alarm
- Adjustable high/low temperature alarm
- Power failure alarm
- Contact for remote alarm



### LTFE SERIES -45°C

Engineered for just a little bit more, the LTFE series gives you -45°C instead of the conventional -40°C. Equipped with digital display and alarm features these freezers gives the security needed for safe sample storage at low temperatures.



LTFE 410

### SPECIFICATIONS

Model	UPLTF 330				
Item Code (DAI no.)	DAI360				
Dimensions exterior WxDxH (mm)	660x683x1650				
Net capacity (L)	307				
Temperature range (°C)	-20/-45				
Power supply (V)	230				
Frequency (Hz)	50/60				
Model	LTFE 110	LTFE 210	LTFE 310	LTFE 410	LTFE 510
Item Code (DAI no.)	DAI135	DAI140	DAI145	DAI150	DAI155
Dimensions exterior WxDxH (mm)	725x655x865	1055x655x865	1305x655x865	1505x655x865	1705x655x865
Net capacity (L)	130	226	299	358	416
Temperature range (°C)	-10/-45	-10/-45	-10/-45	-10/-45	-10/-45
Power supply (V)	230	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60

We reserve the right to change specifications without notice. Subject to confirmation and availability.

# LABORATORY REFRIGERATORS AND FREEZERS

-30/+10°C



LR/LF 300-ST

LR 270-2-ST/LFF 270-ST

LR/LF 500/700

Available with white exterior

## LR SERIES - ALL IN ONE

Unite the latest technology in one refrigerator, the new Dairei laboratory line with many features and sizes is produced with attention to details. No matter which product you choose, its build after the same strict guidelines.



LR/LF 1400

## LR/LF/LFF SERIES

- Door lock
- Stainless steel interior
- White or Stainless steel exterior
- Automatic door closing
- Air forced cooling
- Adjustable shelves
- Stainless steel interior
- Lights, locks and castors

## NEW CONTROLLER

- Micro processor controller with Digital display
- Battery backup - 48 hours
- Visual and acoustic alarm
- Adjustable high/low temperature alarm
- Power failure alarm
- Probe failure alarm
- Instrument failure alarm
- Door open alarm
- Contact for remote alarm
- Prepared for GSM alarm
- Integrated Data Logger (software included)
- RS485 Interface
- USB read out

## SPECIFICATIONS

Model	LR 300**	LF 300**	LR 270-2**	LFF 270**	LR 500**	LF 500**
Item code (DAI no.)	DAI220/221*	DAI225/226*	DAI230/231*	DAI235//236*	DAI240/241*	DAI245/246*
Dimensions exterior WxDxH (mm)	520x700x2020	520x700x2020	520x700x2020	520x700x2020	615x800x2010	615x800x2010
Net capacity (L)	300	300	135/135	135/135	500	500
Temperature range (°C)	+1/+10	-10/-30	+1/+10	+1/+10 / -10/-30	+1/+10	-10/-25
Power supply (V)	230	230	230	230	230	230
Frequency (Hz)	50	50	50	50	50	50
Model	LR 700**	LF 700**	LR 660-2**	LFF 660**	LR 1400**	LF 1400**
Item code (DAI no.)	DAI250/251*	DAI255/256*	DAI260/261*	DAI265//266*	DAI270/271*	DAI275/276*
Dimensions exterior WxDxH (mm)	720x860x2020	720x860x2020	720x860x2020	720x860x2020	1440x860x2020	1440x860x2020
Net capacity (L)	700	700	330/330	330/330	1400	1400
Temperature range (°C)	+1/+10	-10/-30	+1/+10	+1/+10 / -10/-30	+1/+10	-10/-30
Power supply (V)	230	230	230	230	230	230
Frequency (Hz)	50	50	50	50	50	50

We reserve the right to change specifications without notice. Subject to confirmation and availability.

\*\* For stainless steel exterior please add -ST to the existing product name.

\* DAI number for unit with stainless steel exterior



-30/+15°C

# LABORATORY REFRIGERATORS AND FREEZERS

## LR/LF/LRM 430/630

- Steel interior/Alu
- White exterior (LRM models only available with steel exterior)
- Right hand hinged reversible door
- Fan for air circulation
- Light
- Castors
- Door lock
- Air forced cooling
- Automatic door closing
- Adjustable shelves

## CONTROLLER

- Digital display
- Visual and acoustic alarm
- Adjustable high/low temperature alarm
- Contact for remote alarm
- Door open alarm
- Probe failure alarm

## LR/LF 140/170/390/340

- Digital display
- High/low temperature visual alarm
- Acoustic open door alarm
- Spark free interior
- White exterior
- Lock
- Right hand hinged reversible door
- Auto defrost in refrigerator



LR/LF 430



LR 390/LF 340



LF 140 comes with direct cooling under each basket.



LR 170/LF 140

## SPECIFICATIONS

Model	LR 430 **	LF 430 **	LRM 430	LR 630 **	LF 630 **
Item code (DAI no.)	DAI520	DAI525	DAI530	DAI535	DAI540
Dimensions exterior WxDxH (mm)	600×731×2000	600×731×2000	600×731×2000	815×740×2000	815×740×2000
Net capacity (L)	388	388	388	571	571
Temperature range (°C)	+2/+12	-5/-30	-5/+12	+2/+12	-5/-30
Power supply (V)	230	230	230	230	230
Frequency (Hz)	50	50	50	50	50

Model	LRM 630	LR 170 *	LF 140 *	LR 390 *	LF 340 *
Item code (DAI no.)	DAI545	DAI550	DAI560	DAI555	DAI565
Dimensions exterior WxDxH (mm)	815×740×2000	595×620×830	596×620×830	596×620×1785	596×620×1785
Net capacity (L)	571	161	122	377	312
Temperature range (°C)	-5/+12	+2/+15	-10/-26	+2/+15	-10/-26
Power supply (V)	230	230	230	230	230
Frequency (Hz)	50	50	50	50	50

We reserve the right to change specifications without notice. Subject to confirmation and availability.

\* This unit can optionally be equipped with 60 Hz compressor.

\*\* For stainless steel exterior please add -ST to the existing product name

# PHARMACEUTICAL REFRIGERATORS AND FREEZERS

-23/+10°C



PR/PF 1400

## PR SERIES

With class leading cooling performance, the pharmaceutical refrigerators and freezers from Dairei gives a good overview with the double pane glass doors. The new Dairei controller ensures reliable temperature and is equipped with many alarm features you receive full security.



PR/PF 500/700

## SPECIFICATIONS

Model	PR 500**	PF 500**	PR 700**	PF 700**	PR 1400**	PF 1400**
Item code (DAI no.)	DAI850/851*	DAI857/856*	DAI860/861*	DAI865/866*	DAI870/871*	DAI875/876*
Dimensions exterior WxDxH (mm)	615x800x2010	615x800x2010	720x860x2020	720x860x2020	1440x860x2020	1440x860x2020
Net capacity (L)	500	500	700	700	1400	1400
Temperature range (°C)	+1/+10	-10/-23	+1/+10	-10/-23	+1/+10	-10/-23
Power supply (V)	230	230	230	230	230	230
Frequency (Hz)	50	50	50	50	50	50

We reserve the right to change specifications without notice. Subject to confirmation and availability.

\* DAI number for unit with stainless steel exterior

\*\* For stainless steel exterior please add -ST to the existing product name.

## PR/PF SERIES

- Stainless steel interior
- White exterior
- Automatic door closing
- Air forced cooling
- Adjustable shelves
- Door lock
- Glass door

## NEW CONTROLLER

- Micro processor controller with Digital display
- Battery backup - 48 hours
- Visual and acoustic alarm
- Adjustable high/low temperature alarm
- Power failure alarm
- Probe failure alarm
- Instrument failure alarm
- Door open alarm
- Contact for remote alarm
- Prepared for GSM alarm
- Integrated Data Logger (software included)
- RS485 Interface
- USB read out



+2/+15°C

# PHARMACEUTICAL REFRIGERATORS AND FREEZERS

## PR 310/380/380-2

- Analogue thermostat
- Interior Light
- Flexible shelf system
- Air forced cooling
- Lock



PR 380-2



PR 380



PR 170



PR 390

## PR/PF 170/390

- Digital display
- High/low temperature visual alarm
- Acoustic open door alarm
- Spark free interior
- ABS interior
- White exterior
- Light & door lock
- Right hand hinged reversible door
- Adjustable shelves
- Auto defrost in refrigerator

## SPECIFICATIONS

Model	PR 170 *	PR 310	PR 380	PR 380-2	PR 390 *
Item code (DAI no.)	DAI590	DAI821	DAI822	DAI823	DAI595
Dimensions exterior WxDxH (mm)	595x620x830	595x595x1550	595x595x1850	595x595x1850	595x620x1780
Net capacity (L)	166	281	351	347	387
Temperature range (°C)	+2/+15	+3/+10	+3/+10	+3/+10	+2/+15
Power supply (V)	230	230	230	230	230
Frequency (Hz)	50	50/60	50/60	50/60	50

\* This unit can optionally be equipped with 60 Hz compressor. (add -60 to the above product name)  
We reserve the right to change specifications without notice. Subject to confirmation and availability.

# REFRIGERATION AND FREEZERS FOR DAILY USE

-21/+9°C



## DAILY USE SERIES

DAIREI offer a series of high quality refrigeration and freezers for daily use. A wide range of 10 different models in refrigeration as well as freezers and fridge/freezers. The models are equipped with digital display, visual and acoustic alarm, heavy duty transparent drawers and quick cool/freeze function.

## DKS SERIES

- Upright refrigerators
- Low energy consumption
- Door open alarm
- High temperature alarm
- Automatic defrost
- Interior light
- Right hand hinged reversible door
- Glass shelves
- Visual and acoustic alarm

## DFS SERIES

- Upright freezers
- Low energy consumption
- Door open alarm
- High temperature alarm
- Digital display
- Interior light
- Right hand hinged reversible door
- Glass shelves
- Visual and acoustic alarm

## DKF 320-350

- Fridge/Freezers
- Low energy consumption
- Door open alarm
- High temperature alarm
- Digital display
- Interior light
- Right hand hinged reversible door
- 2 compressors
- Glass shelves

## DKF 130-240

- Fridge/Freezers
- Low energy consumption
- Interior light
- Low noise level
- Right hand hinged reversible door

## SPECIFICATIONS

Model	DKS 390	DKS 360	DKS 290	DFS 320	DFS 290
Item code (DAI no.)	DAI830	DAI831	DAI832	DAI833	DAI834
Dimensions exterior WxDxH (mm)	595x600x2000	595x600x1850	595x600x1550	595x600x2000	595x600x1850
Net capacity (L)	380	346	280	275	256
Temperature range (°C)	+2/+9	+2/+9	+2/+9	-14/-21	-14/-21
Power supply (V)	230	230	230	230	230
Frequency (Hz)	50	50	50	50	50
Model	DFS 230	DKF 350	DKF 320	DKF 220	DKF 130
Item code (DAI no.)	DAI835	DAI836	DAI837	DAI841	DAI839
Dimensions exterior WxDxH (mm)	595x600x1550	595x600x2000	595x600x1850	558x600x1440	563x600x850
Net capacity (L)	230	238	226	161	113
Temperature range (°C)	-14/-21	+2/+9 / -14/-21	+2/+9 / -14/-21	+2/+9 / -14/-21	+2/+9 / -14/-21
Power supply (V)	230	230	230	230	230
Frequency (Hz)	50	50	50	50	50

We reserve the right to change specifications without notice. Subject to confirmation and availability.

+4°C

# BLOOD BANK REFRIGERATORS AND FREEZERS

## BBR 500/700/1400

- Stainless steel interior
- White exterior
- Automatic door closing
- Air forced cooling
- Drawers
- Right hand hinged reversible door
- Castors
- Chart recorder
- Temp. recording in glycerol

## NEW CONTROLLER

- Micro processor controller with Digital display
- Battery backup - 48 hours
- Visual and acoustic alarm
- Adjustable high/low temperature alarm
- Power failure alarm
- Probe failure alarm
- Instrument failure alarm
- Door open alarm
- Contact for remote alarm
- Prepared for GSM alarm
- Integrated Data Logger (software included)
- RS485 Interface
- USB read out



## BLOOD BANK SERIES

A perfect combination of unique temperature uniformity and reliable technology, The Dairei Blood Bank segment offers extreme security where needed. Experience the Blood Bank refrigerators with advanced controllers, integrated non-manipulative data logger with USB read out and chart recorder as standard.



## Carry Coolers

- For safe transportation
- Digital display
- Constant temperature
- The carry coolers have different features. Please contact us for more information.
- AC (230 V) and DC (12V) connection cable
- Safety system for Wire basket



Compressor.  
DC connection cable.



Thermoelectric. AC and DC connection cable. Cooling capacity: max. 30°C below ambient temperature. Can be rebuilt for +20°C

# PLASMA BLAST FREEZERS

**-55°C**



The barcode reader ensures unique logging of the freezing phase of each blood bag/ampoule. It is constructed according to ISP 128.



The lid can be opened during freezing process if you need to freeze more blood bags/ampoules



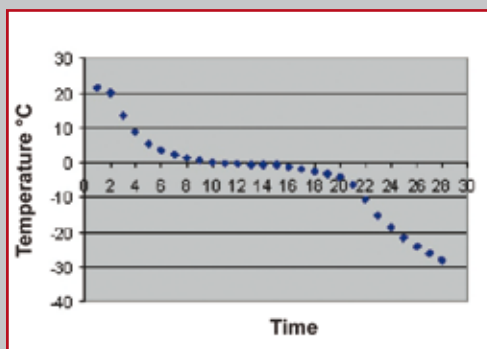
Compartments for blood bags or ampoules for individual freezing



Digital display of data as numeric values or diagram

## PLASMA BLAST FREEZERS

Based on newly developed contact freezing the Dairei PBF series is the future in the blood segment. Dairei PBF models ensures a controlled environment and a continues production with less time waste. The freezers works with a water cooled compressor to decrease noise, and is equipped with logging features, alarms, barcode reader and all software included.



Freezing phase of 12 bags (300 ml) + 2 bags (600 ml)

## SPECIFICATIONS

Model	BBR 500	BBR 700	BBR 1400	CO25DC
Item code (DAI No.)	DAI735	DAI740	DAI745	DAI715
Dimensions exterior WxDxH (mm)	615x800x2010	720x860x2020	1440x860x2020	260x550x425
Net capacity (L)	500	700	1400	23
Temperature range (°C)	+4	+4	+4	+10/-18
Power supply (V)	230	230	230	12/24
Frequency (Hz)	50	50	50	50/60
Model	TE21AC	PBF108	PBF116	PBF124
Item Code (DAI no.)	DAI725	DAI994	DAI995	DAI996
Dimensions exterior WxDxH (mm)	303x450x420	880x623x1060	1192x623x1060	1650x623x1060
Net capacity (L)	21	-	-	-
Temperature range (°C)	+1/+15	-55	-55	-55
Power supply (V)	12/24/230	230	230	230
Frequency (Hz)	50	50/60	50/60	50/60

We reserve the right to change specifications without notice. Subject to confirmation and availability.

## PBF SERIES

PBF108: 8 freezing compartments for blood ampoules max. 1000 ml each or plasma bags 250-325 ml each (325-600 ml optional)

PBF116: 16 freezing compartments for plasma bags 250-325 ml (325-600 ml optional) or blood ampoules max. 1000 ml

PBF124: 24 freezing compartments for plasma bags 250-325 ml (325-600 ml optional) or blood ampoules 1000 ml

High temperature alarm (TA °C): -35

Timer for each compartment

Individual freezing phase display and logging of each compartment as numeric values or diagram

The freezing time to 0°C which is absolutely crucial to the quality of the end product is extremely short

ATA-Flash drive for data storage

RS 232/485 interface (optional)

Ethernet interface (optional)

Sleep mode



# DAIREI ENGINEERING

## DAIREI ENGINEERING

DAIREI ENGINEERING is our project department which specialises in customer specific refrigeration solutions. We elaborate projects, offer propositions of solutions and carry out installations all over the world in cooperation with our suppliers.

We can handle every assignment, especially projects that include, low temperature rooms for storage of medicine, blood banking or other products which require stable temperature under extreme surroundings. Most often we can meet all your requirements, typically from  $-25/+2^{\circ}\text{C}$  to  $-60/-40^{\circ}\text{C}$ . Our projects are supported by professional sub suppliers, complete documentation, including AUTOCAD and we take pride in customer satisfaction.

Among our projects we have supplied cold rooms for medicine storage and arranged delivery and installation of freezers to multiple sites in Africa, Middle East and Europe  
We have also produced  $-60^{\circ}\text{C}$  mobile 40 ft

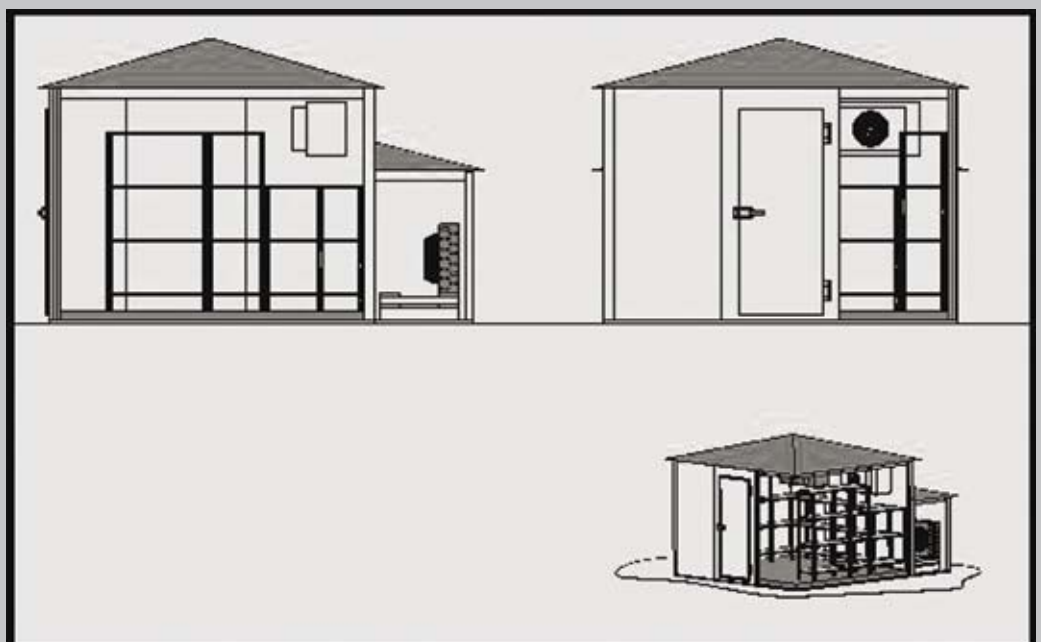
container solutions for medical companies as emergency cooling capacity.

These are just a few examples of our projects and show how flexible we are at the engineering department at DAIREI. Quality inspections and developments of new products together with partners is also a daily task where the DAIREI Engineering involves itself. This ensures stable and good quality and we also strive for the highest standard of value for money in our products and projects.

Furthermore, we help our customers with selecting the best solution based on their actual needs, requirement and budgets. In special case we can assist in validation and specially built products for use in chemistry, biotech, microbiology and ingredient field.

We look forward to assisting your project.

Best Regards  
Technical Department

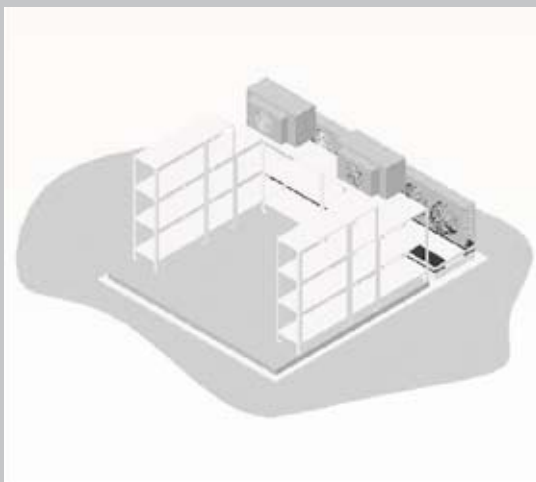


3D drawing of cold store room

# COLD STORE ROOM



COLD STORE ROOM



Example 3D



Redundant compressor system for cold store room -25°C

# ACCESSORIES

## Accessories

- CO2 back up
- Racks and boxes
- Chart recorder
- GSM alarm module
- Datalogger



Datalogger



GSM alarm module



Chart recorder



Racks and boxes



CO<sup>2</sup> back up

RACKS AND BOXES	ULTF 80 / 74 Litres		ULTF 320 / 296 Litres			ULTF 420 / 383 Litres			ULUF 400 / 450 / 390 Litres			UPUL 580 / 540 / 450 Litres						
	Number of racks when fully equipped	5	18	3	3	24	3	3	12	3	3	9	6	6				
Type of box		Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.				
EPPI Cryo 50mm	8	TE50-08	11	TE50-11	6	TE50-06	11	TE50-11	6	TE50-06	16	SE50-44FMS	20	SE50-45N	16	SE50-44FMS	20	SE50-45N
EPPI Cryo 75mm	5	TE80-05	7	TE80-07	4	TE80-04	7	TE80-07	4	TE80-04	12	SE75-43FMS	12	SE75-43N	12	SE75-43FMS	12	SE75-43N
EPPI Cryo 96/100mm	4	TE96-04	6	On request	3	TE102-03	6	On request	3	TE102-03	6	SE96-32FMS	12	SE96-43N	6	SE96-32FMS	12	SE96-43N

## ACCESSORIES

**CO<sup>2</sup> BACK UP:** A number of DAIREI's products can be supplemented by a CO<sup>2</sup> back up system for optimized safety. The back up system is supplied with heavy duty internal battery injection indicator and digital display with alarm functions.

**RACKS AND BOXES:** We have the largest range of boxes and racks in the world. Please send your inquiry and we will quote our best competitive price. We have boxes and racks in any sizes and for that matter in any colour too. Our EPPI (130x130 mm) boxes are made of plastic and our Alpha (136x136 mm) and Bravo (133x133) boxes are made of waterproof cardboard.

**CHART RECORDER:** If you need documentation for the temperature condition over certain period of time, DAIREI's chart recorder is the optimal solution. A replaceable pen is continuously documenting the temperature on a chart which circulates either of 7 days or

24 hour basis. The chart recorder can be built in as an option in many of Dairei's products.

**GSM ALARM MODULE:** A GSM alarm module can be connected to the majority of DAIREI's products. The module sends an SMS message to one or several coded telephone numbers in case the temperature in the freezer exceeds the fixed range. A simple, effective and reliable alternative providing increased safety.

**DATALOGGER:** DAIREI's datalogger is an effective tool for safe and effective temperature monitoring. As built in or as loose accessory you can monitor data with any requested interval. Logged data can be stored in form of table or graph and alarm warnings can be sent automatically by email or SMS. The data logger can be installed in the majority of our products and has a temperature range of -30/+50°C.

# THE ART OF SIMPLICITY

ON BEHALF OF DAIREI EUROPE A/S AND THE DAIREI SALES TEAM I LIKE TO THANK YOU AS A CUSTOMER FOR THE SUPPORT OVER THE PAST YEAR. DAIREI EUROPE EXPERIENCED A TREMENDOUS GROWTH IN THE LAST YEARS AND WE ARE CONFIDENT THAT OUR CONCEPTS AND WAY OF WORKING IS THE REASON FOR OUR SUCCESS.

THE ART OF SIMPLICITY DOES NOT ONLY APPLY TO OUR PRODUCTS TO MAKE ADVANCED COOLING, BUT IT ALSO REFER TO OUR WAY OF WORKING, OUR LEVEL OF SERVICE AND OUR VALUES WHICH ARE FOCUSED ON YOUR NEEDS BY BEING FLEXIBLE IN OUR MIND SETTING, TRUST WORTHY AND NOT LEAST INNOVATIVE IN THE WAY WE DO BUSINESS.

WE ENJOY MAKING A DIFFERENCE, NOT ONLY WITH OUR WORLD PATENTED COOLING TECHNOLOGY. WE HOPE THAT YOU EXPERIENCE THIS WHEN DEALING WITH DAIREI EUROPE. WE BELIEVE WITH COMMON SENSE AND DEDICATION TO HARD WORK WE CAN MAKE IT EASY FOR OUR CUSTOMERS TO CHOOSE WORKING WITH DAIREI, AND MAKE US ABLE TO CONTINUE OUR GROWTH AND SUCCESS FOR THE FUTURE.

ONCE AGAIN, THANK YOU FOR YOUR SUPPORT, WE LOOK FORWARD TO A CONTINUED COOPERATION IN THE YEARS TO COME.

KIND REGARDS, LARS OLE JENSEN

# IT'S AS SIMPLE AS THAT

MANAGING DIRECTOR  
LARS OLE JENSEN





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