

Biomedical Refrigeration | Product Range



**Freezers
Refrigerators
Boxes**

**+4°C
-41°C
-86°C**

Dometic Safety Standards



Dometic Electronic	●	●
Safety door lock with 2 keys	●	●
Key-operated power switch (power ON/OFF) with 2 keys	●	●
Power indicator light	●	●
Digital temperature indicator (display : 0.1 digits)	●	●
Controlled fan cooling system for constant temperature and even temperature distribution across the entire refrigerating chamber. Automatic switch-off when front door opens ¹	●	●
Self-contained alarm system with integrated battery takes over the alarm function and temperature value measurements in case of power failure for at least 48 hours	●	●
Acoustic and visual alarm signal in case of temperature alarm and power failure	●	●
The alarm history on the electronic stores all the relevant values during a temperature alarm, such as : min., max. and average temperature & also the duration of the alarm	●	●
Remote transmission alarm signal (via potential-free contact) in case of temperature alarm (change-over contact)	●	●
Control via self-diagnostic system	●	●
Safety thermostat prevents dropping of the cold storage product's temperature below +2°C ²	●	●
Door opening alarm (visual / acoustic)	●	●
Designed and tested for climatic class T (ambient temperature range up to +43°C) ³	●	-
Designed and tested for climatic class N (ambient temperature range up to +32°C)	-	●
RS 485 interface for the visualization of all operating and control functions (hardware and software settings) via DMN monitoring software on a peripheral device (computer)	●	●
Interior made from stainless steel ⁴	●	-
Internal lighting ⁵	●	-
Smooth castors for optimum flexibility of movement ⁴	●	-
GMP Clean Room Classification for free standing installation : in clean rooms of GMP A / ISO 5 (ISO EN 14644-1) ⁶	●	-
GMP Clean Room Classification for free standing installation : in clean rooms of GMP B / ISO 6 (ISO EN 14644-1)	-	●
Additional remote transmission alarm signal (via potential-free contact) in case of power failure (change-over contact)	●	●
External water cooling for models BR (except BR 55 G), LR, PR, FR, UF & MBF	○	-
DMN - Dometic Monitoring Network	●	○
Ambient temperature sensor	○	○
DCU - Dometic Communication Unit	○	○

● standard / ○ optional / - not available

¹ Not for models UF 455 G & UF 755 G

² For refrigerators

³ Models BR 55 G, FR 250 G – 750 G, UF 455 G & UF 755 G designed and tested for climate class N (ambient temperature range up to +32°C)

⁴ Not for model BR 55 G

⁵ For models ranges BR, LR, and PR

⁶ Model BR 55 G and model range UF conform to the GMP Clean Room Class B (cleaning cycles according to the operator's hygiene plan must be scheduled and observed)

+4°C | Blood Bank Refrigerators | BR

(according to DIN 58371 & ÖNORM K 2030)



BR 55 G

Gross volume : 55 L
Net volume : 37 L

Storage capacity* : app. 12 at 450 ml each
app. 20 at 350 ml each



BR 250 G

Gross volume : 246 L
Net volume : 167 L

Storage capacity* : app. 120 at 450 ml each
app. 160 at 350 ml each



BR 410 G

Gross volume : 408 L
Net volume : 319 L

Storage capacity* : app. 240 at 450 ml each
app. 320 at 350 ml each



BR 490 G

Gross volume : 489 L
Net volume : 395 L

Storage capacity* : app. 300 at 450 ml each
app. 400 at 350 ml each



BR 750 G

Gross volume : 746 L
Net volume : 620 L

Storage capacity* : app. 450 at 450 ml each
app. 525 at 350 ml each



* Blood bags

+ 5°C | Laboratory / Medicine / Pharmaceutical Refrigerators (solid door) | ML

(according to DIN 58345)



ML 155 S

Gross volume : 153 L
Net volume : 127 L

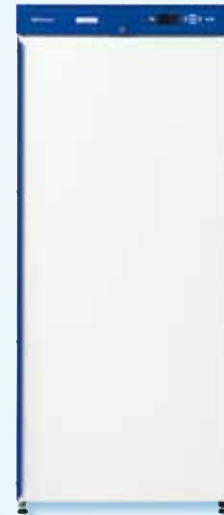
Available as Internal II 3 G EEx nA II T6



ML 320 S

Gross volume : 322 L
Net volume : 274 L

Available as Internal II 3 G EEx nA II T6



ML 355 S

Gross volume : 353 L
Net volume : 340 L



ML 360 CS

Gross volume : 357 L
Net volume : 324 L



ML 580 S

Gross volume : 578 L
Net volume : 518 L



ML 1300 S

Gross volume : 1301 L
Net volume : 1183 L



+ 4°C | Laboratory / Medicine / Pharmaceutical Refrigerators (solid door) | LR

(according to DIN 58345)



LR 250 G

Gross volume : 246 L
Net volume : 167 L



LR 410 G

Gross volume : 408 L
Net volume : 319 L



LR 490 G

Gross volume : 489 L
Net volume : 395 L

Available as Internal  II 3 G EEx nA II T6



LR 750 G

Gross volume : 746 L
Net volume : 620 L



+ 5°C | Laboratory / Medicine / Pharmaceutical Refrigerators (glass door) | MP

(according to DIN 58345)



MP 155 S

Gross volume : 153 L
Net volume : 127 L



MP 320 S

Gross volume : 322 L
Net volume : 274 L



MP 355 S

Gross volume : 353 L
Net volume : 340 L



MP 360 CS

Gross volume : 357 L
Net volume : 324 L



MP 580 S

Gross volume : 578 L
Net volume : 518 L



MP 1300 S

Gross volume : 1301 L
Net volume : 1183 L



+ 4°C | Laboratory / Medicine / Pharmaceutical Refrigerators (glass door) | PR

(according to DIN 58345)



PR 250 G

Gross volume : 246 L
Net volume : 167 L



PR 410 G

Gross volume : 408 L
Net volume : 319 L



PR 490 G

Gross volume : 489 L
Net volume : 395 L



PR 750 G

Gross volume : 746 L
Net volume : 620 L



-41°C / -35°C | Deep Freezers & Plasma Storage Freezers | FR / MF

(according to DIN 58375 & Internal )



FR 250 G

Gross volume : 246 L
 Net volume : 167 L
 Storage capacity : * app. 120 at 450 ml each
 app. 160 at 350 ml each



FR 410 G

Gross volume : 408 L
 Net volume : 319 L
 Storage capacity : * app. 240 at 450 ml each
 app. 320 at 350 ml each



FR 490 G

Gross volume : 489 L
 Net volume : 395 L
 Storage capacity : * app. 300 at 450 ml each
 app. 400 at 350 ml each



FR 750 G

Gross volume : 738 L
 Net volume : 620 L
 Storage capacity : * app. 450 at 450 ml each
 app. 525 at 350 ml each



MF 110 S

Gross volume : 108 L
 Net volume : 104 L
 Storage capacity : * app. 90 at 450 ml each
 app. 136 at 350 ml each



MF 250 S

Gross volume : 247 L
 Net volume : 228 L
 Storage capacity : * app. 220 at 450 ml each
 app. 290 at 350 ml each



* Plasma bags

-86°C | Ultra Deep Freezers | UF



UF 455 G

Gross volume : 453 L
Net volume : 440 L



UF 755 G

Gross volume : 753 L
Net volume : 733 L



-50°C | High Performance Contact Shock Freezers | MBF

(to achieve core temperature of -30°C for plasma bags)



MBF 12

8 plasma bags at 1000 ml each
(content 850 ml)
12 plasma bags at 500 ml each
(content 450 ml)



MBF 21

14 plasma bags at 1000 ml each
(content 850 ml)
21 plasma bags at 500 ml each
(content 450 ml)



MBF 42

28 (2 x 14) plasma bags at 1000 ml each
(content 850 ml)
42 (2 x 21) plasma bags at 500 ml each
(content 450 ml)

+5°C / -35°C | Built-in / Sub-assembly Models (summary) | EB / UB



ML 150 EB* / UB** MF120 EB* / UB**

Refrigerator :	+ 5°C	Deep Freezer :	- 35°C
Gross volume :	153 L	Gross volume :	108 L
Net volume :	127 L	Net volume :	104 L

*The electronics are housed within an external wall-mounted cubicle. **as option

Transport Boxes / Systems | MT

Unit = number of bags (450ml / 270ml content)



MT 4 B
Gross volume : 8 L
Passive | Units : 4/6



MT 8 B
Gross volume : 18 L
Passive | Units : 8/14



MT 12 E
Gross volume : 24 L
Passive | Units : 15/25



MT 25 E
Gross volume : 44 L
Passive | Units : 26/40



MT 42 P
Gross volume : 43 L
Active | Units : 30/50



MT 100
Gross volume : 95 L
Active | Units : 48/-



MT 900
Gross volume : 247 L
Net volume : 228 L
Freezing capacity : 56 elements



MT 18
Gross volume : 18 L
Active



MT 50
Gross volume : 49 L
Active



MT 80
Gross volume : 80 L
Active

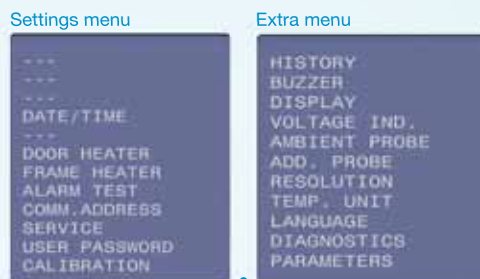
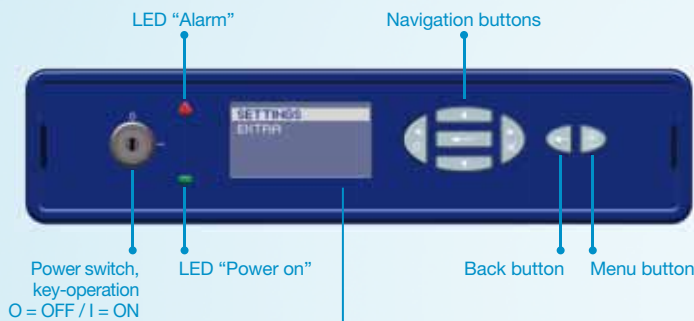


MT 110
Gross volume : 106 L
Active

Dometic Electronic

The new and innovative Dometic Electronic (operation and control panel) assures thanks to its **password protected settings menu** optimum protection for your stored preparations.

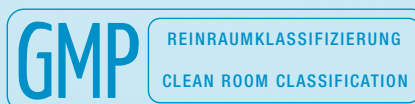
The menu structure of the **modern and user-friendly graphic display** offers a simple and intuitive utilization.



Beside this the new Dometic Electronic offers :

- Wide range of adjustment and diagnostic facilities as well as additional protection / warning operations (via external alarm operations, histories and individual display signals).
- An optional PT 100 sensor inlet to show the sensor's temperature data on the display as well as forwarding and further processing via a 4 ... 20 miliA outlet.
- An optional 20 miliA outlet to transmit temperature data of a sensor connected to the electronic.
- Connection facilities for additional (optional) temperature sensors.
- DMN (Dometic Monitoring Network) and the (optional) DCU (Dometic Communication Unit) allows to illustrate texts on the product's display.

Discover the world of Dometic Medical Systems



CFC & HCFC free

Depending on the product

ADR RID (2008/68/EC)	IMDG (2002/84/EC)	I CAO-T1 / IATA-DGR	ONORM K 2030
DIN 58345	DIN 58371	DIN 58375	EN 12469
			EN 61010



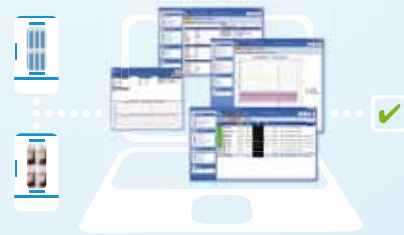
DMN – Dometic Monitoring Network

Universal software for collection, long-term recording and visualization of temperature data.

- Complete activity list (password protected).
 - Integrated event and activity history of all appliance components.
 - Graphical visualisation of all temperature curves.
 - Connection to existing or third-party appliances via network technology (LAN, WLAN, WAN).
 - Simultaneous data monitoring and recording.
 - Possibility for specific and individually configurable alarm forwardings, e. g. via email, SMS (with optional GSM module) or via DECT.
 - Simple and intuitive utilization.
 - Essential price advantage compared to a traditional circular chart recorder and its spare parts.
- Economy of time as regular changes of recorder paper, ink and battery is not necessary.

Your essential advantages :

- ▶ One central database for all connected appliances.
- ▶ Remote inquiry of all data possible, even from different sites simultaneously.



DCU – Dometic Communication Unit

Hardware module that notes all operating conditions and passes them through to a central data base – via local network, on which devices are connected.

- Interface connection of Dometic appliances to existent network.
 - The DCU offers direct connection to the Ethernet, even wireless, to the serial BUS RS 485, as well as to the central building control system (4 ... 20 mA).
 - Possibility of connection of actors (4 ... 20 milliA out).
 - Digital IN/OUT (customer-specific use of these connections is programmable).
 - The integrated USB port allows to write stored data to an external memory stick.
 - Recording and storage of relevant data of the appliance.
 - The DCU replaces the paper temperature recorder.
 - The DCU also works with Dometic electronics which were applied until October 08 (upgrade possible).
- All data are recorded and saved in the data base of the DMN and are available for analysing purposes at any time.
 - Possibility of connection of several additional self-sufficient temperature sensors (up to 4 PT1000 & 2 PT100).

Your essential advantages :

- ▶ One integrative system for collecting all temperature relevant appliances and ambients.
- ▶ Many different connection facilities allow flexible upgrades for individual projects.



DMN & DCU in combination offer a highly flexible system that is adaptable to specific customer requirements.



Complete & legally safe documentation of temperature data

Comprehensive applications and diagnostic possibilities

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