



The illustrations show the models of the MF range with standard interior equipment.

Control of the storage temperature and documentation of the temperature changes can – depending on the application – be carried out via an optional temperature recorder (in form of a circular chart recorder) or via the optional DCU, this through the optional Monitoring & Visualization Software DMN.

### MF 295

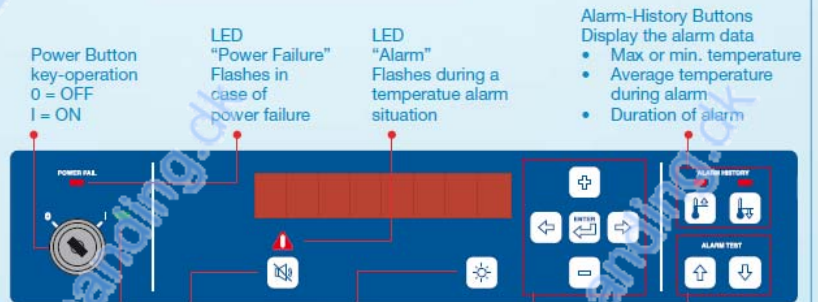
Gross volume: 247 L  
 Net volume: 228 L  
 Storage capacity: app. 290 plasma bags at 350 ml each

## Dometic's Silver Electronic

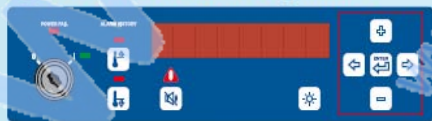
### Operation and control panel

#### Operation and control panel 1

Operating parameters can be displayed using the operation and control panel that is equipped with digital display and a user-friendly keyboard.



#### Operation and control panel 2



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Lager nr. /TN

**D1176**

# Technical Data

# MF 295



Gross volume	247 l
Net volume	228 l
Storage capacity plasma bags / approx.	220 at 450 ml each 290 at 200-350 ml each
External dimensions (H x W x D)	1830 x 595 x 605 mm
External dimensions (with mounted temperature recorder)	1990 x 595 x 605 mm
Inner dimensions (H x W x D)	1440 x 445 x 413 mm
Net weight (with standard equipment)	97 kg
Operation & control panel (microprocessor-controlled)	Electronics 2
Set temperature (preset)	-35°C
Set temperature (setting range) can be adjusted in steps of 0.5 °C	-20°C to -35°C
Temperature cold alarm limit (preset)	-40°C
Temperature warm alarm limit (preset)	-30°C
Temperature alarm limits (setting range) The alarm setting ranges can be adjusted in steps of 0.5°C. The chosen limits must at least be around 3 °C ± the set temperature	-15°C to -50°C
Control sensor	NTC = 0,3 k at +25°C
Precision (at -30°C) / (at -40°C)	± 0,4°C / ± 0,5°C
Display sensor	NTC = 0,3 k at +25°C
Precision (at -30°C) / (at -40°C) in reference body with reference fluid 35ml ammoniumchlorid (NH4CL/18.7%)	± 0,4°C / ± 0,5°C
Voltage	220-240 V - 50Hz (10A)
Power	215 W
Energy consumption	2,60 kWh /24h
Heat emission	185 Kcal/h
Compressor running time	48%
Noise level (at 1m height & 1m distance)	44 dB(A)
Accu data / function time of the control panel when power failure	6V - 4,2Ah / 48 hours
Climate class (ambient temperature range)	N (+16°C to +32°C)
Relative humidity range at ambient temperature	≤ 70% at 32°C
Defrosting technique	manual
Refrigerant type	R404a
Door insulation (polyurethane)	70 mm
Casing insulation (polyurethane)	75 - 80 mm
Hold over time	66 min (from -35°C to -18°C)
Safety class	I
EMC directive	2004 / 108 / EEC
Low voltage directive	2006 / 95 / EEC
GMP - clean room classification	class ISO6/EC GMP B
Material inner body	Styrene (SAN)
Material outer casing and door	Galvanized sheet steel (ST02Z-AZ-150)
Material drawers	Polystyrene (PS)
Color outer casing	White (similar to RAL9010)
Color contrasts	Blue (similar to RAL5002)

## Interior Equipment & Options

Standard interior equipment	7 Drawers ●
RS485 interface	○
DCU - Dometic Communication Unit	○
DMN Software package	○
Ambient temperature sensor	○
Potential-free contact in case of power failure	○
Integrated inlet for external sensor (installed by customer)	●
Temperature recorder in the form of a circular chart recorder	Mounted ○
Recording range: -50°C to 0°C	for 24h or 7 days
Door hinge right	●
Door hinge left	○
Woolen packaging for ocean transport / export	○

● standard / ○ optional / - not available



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## The model range MF complies with the Dometic **SILVER** Safety Standard

MODEL	MF 295
According to DIN 58375	●
GMP Clean Room Class B / ISO 6 (ISO EN 14644-1)	●
Operation and control panel / Electronics 2	●
Key-operated power switch (power ON/OFF)	●
Safety door lock	●
Digital temperature indicator (display: 0.1 digits)	●
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/visual alarm signal in case of temperature alarm and power failure	●
The alarm history on the operation and control panel stores all the relevant values during a temperature alarm, such as: min., max. and average temperature and also the duration of the alarm	●
Control via self-diagnostic system	●
Defrosting (manual)	●
Door opening alarm	●
Climate class (ambient temperature range) N (+16°C to +32°C)	●
Remote transmission alarm signal (via potential-free contact) in case of temperature alarm (change-over contact)	●
Remote transmission alarm signal (via potential-free contact) in case of power failure (change-over contact)	○
RS485 interface for the display of all operating and control functions (hardware and software settings) via optional DMN monitoring software on a peripheral device (computer)	○
DMN software package	○
DCU - Dometic Communication Unit	○

● standard / ○ optional / - not available



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