



PROFESSIONAL
Refrigeration



For over 30 years, Smeg Instruments has represented excellence in the medical and laboratory equipment sector, continuously improving its products through experience gained by working with professionals in more than thirty countries worldwide.

With an integrated structure from design right through to aftersales, Smeg Instruments offers flexible services and customised solutions.

PROFESSIONAL REFRIGERATION TO ENSURE EXCELLENT STORAGE SOLUTIONS

Smeg Instruments provides innovative and customized technological refrigeration and freezing solutions.

Reliable and self-regulating ultra-low temperature freezers, freezers and refrigerators specifically designed to meet the needs of the various fields in which they are used. Safe and traceable storage practices are essential for any laboratory, hospital or pharmacy.



THE MOST ADVANCED TECHNOLOGY FOR THE BEST PERFORMANCE

The new professional refrigeration range from Smeg Instruments enables the target temperature to be reached extremely quickly while maintaining the temperature stable over time, with excellent thermal performance. The password-protected set point and parameters can be customized by the supervisor with extreme accuracy and to a resolution of $\pm 0.1^\circ\text{C}$

Minimum fluctuations and an extremely uniform temperature inside the chamber.

speed > safety > stability > efficiency

FLEXIBLE AND VERSATILE SOLUTIONS

THE DIFFERENT PRODUCT FINISHES AND DIFFERENT ELECTRONICS SOLUTIONS ARE DESIGNED SPECIFICALLY TO MEET THE NEEDS OF OPERATORS IN THE VARIOUS FIELDS IN WHICH THE EQUIPMENT IS USED.



BASIC CONTROL PANEL

The "basic" control panel features a simple and intuitive display. It allows the product to be switched on or off via a button, and the working temperature adjusted. Temperature variations with respect to the set threshold will trigger a visual or audible alarm.



PROFESSIONAL CONTROL PANEL

The "professional" control panel has a large LCD display which provides constant monitoring and display of the temperature measured in the compartment by PT1000 sensors. The operator can easily set the working temperature of the equipment after entering a password. If the temperature increases or decreases, the door is left open, the condenser is blocked or the sensors malfunction, the relative visual and audible alarms will appear on the display.



USER-FRIENDLY DISPLAY

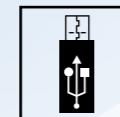
Simple and easy to use. You can control and precisely regulate the internal temperature and view the visual and audible alarms to quickly change the settings, guaranteeing efficiency and traceability. The SMU678 model is also fitted with a large touchscreen display that makes it even more intuitive and technologically advanced.



SAFETY SYSTEM

In order to guarantee correct preservation during storage, the products are fitted with visual and audible alarm systems to indicate faults such as:

- variations in temperature
- communication issues
- door open alarm
- power failure warning



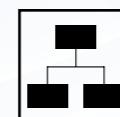
IMMEDIATE TRACEABILITY

In order to ensure maximum traceability, the display has an integrated datalogger system that allows you to view and track the temperature recorded inside the chamber for up to 2 years. The data can also be downloaded automatically to a USB pen drive. Standard 10 minute data recording, which can be increased to 1 minute.



CHART RECORDER

Possibility to install a weekly temperature chart recorder to provide "traditional" monitoring of the temperature recorded inside the equipment over the course of the week.



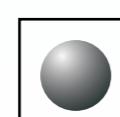
LAN

The innovative LAN system, which can be installed on the equipment, allows remote control of the device via the Ethernet network.



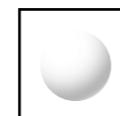
GSM

On some models, the equipment can be fitted with a GSM module that can send alarms via SMS to three numbers set in advance by the user (SIM card not included).



STAINLESS-STEEL FINISH

This product range stands out for the quality of its materials. Internally they are made from AISI 304 stainless steel with Scotch Brite finish externally the structure is made from non-toxic corrosion-resistant hot-dip galvanised sheet steel covered with white PVC film. The thickness of the insulation, provided by injecting CFC-free eco-polyurethane foam, ranges from 60 to 130 mm for greater energy savings and better preservation of the products stored inside.



WHITE FINISH

The external structure is made from pre-painted steel covered with white protective PVC film. The internal structure is made from pre-painted aluminium. The corners of the compartment are rounded to facilitate cleaning.



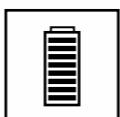
GLASS DOOR

The door is insulated by a double-glazed sealed unit fitted with a magnetic perimeter gasket to ensure a perfect seal. The doors feature an automatic spring-return closing system, and are prevented from opening beyond 90°. In the SMR models, the glass is fitted with a heating element to prevent condensation and provide a better view of the interior.



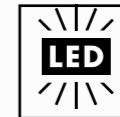
SOLID DOOR

The solid doors offer a very high level of insulation provided by the polyurethane foam and perimeter gasket. All models feature a full-length flush ergonomic handle to facilitate opening.



BACK-UP BATTERY

Traceability guaranteed even in the event of power failure: if the refrigeration unit shuts down due to a power failure, the temperatures and alarms continue to be recorded to ensure the contents are constantly monitored. Battery life > 48 hours.



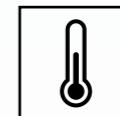
LED

Cutting-edge lighting with LED strip which provides increased brightness inside the compartment, with around 70% energy savings compared to standard bulbs.



ECO-FRIENDLY REFRIGERANT

The environmentally friendly Smeg products are highly reliable, exceptionally quiet and have an extremely low environmental impact (Global Warming Potential) without sacrificing high refrigeration performance.



SAFETY THERMOSTAT

Optional for refrigerators, standard on SMR130G and SMR315G refrigerators, this is an independent thermostat designed to protect the stored material, ensuring full product safety by preventing the temperature from exceeding +2°C.



AUTOMATIC DEFROSTING

Automatic defrosting with condensate evaporation ensures the device is completely autonomous, reducing manual defrosting and maintenance times.

SAFE STORAGE

The SMU678 ultra-low temperature freezer is equipped with a double compressor to provide improved thermal performance and to ensure that an internal temperature of down to -70°C is maintained even in the event of a component failure.

QUALITY REFRIGERATORS

The SMR130G and SMR315G refrigerators are fitted with a backup battery as standard.

They comply with the requirements of DIN58345 as they are equipped with a safety thermostat to ensure maximum safety and temperature stability and for greater protection of the stored items. Those models are equipped with a passthrough test hole as standard for external probes used by the operator for additional monitoring of internal temperatures. They are also fitted with LED lights and an internal heating element on the anti-condensation glass to allow an exceptional view of the contents.



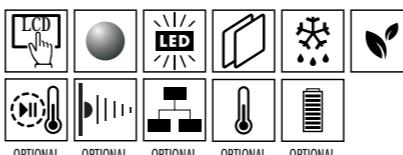
SMR SERIES



- Available in versions from 130 l to 315 l
- Temperature range +2°C/+10°C
- "Professional" electronic control
- Backlit LCD display
- Parameter setting through different password levels
- Integrated electronic datalogger for temperatures and alarms
- Data archive downloading via USB
- Door with double-glazed sealed unit and lock
- Anti-condensation heating element system on glazed door
- Removable mesh shelves as standard; number depends on model
- Two/four unidirectional casters and two adjustable feet
- Automatic defrosting with condensate evaporation
- Ventilated evaporation
- Side 25 mm passthrough hole as standard
- Back-up battery for datalogger/alarms acquisition with runtime > 48h as standard
- Dry contact for remote alarm signal as standard
- Safety thermostat +2°C DIN58345 as standard
- Refrigerant: R600a CFC-free



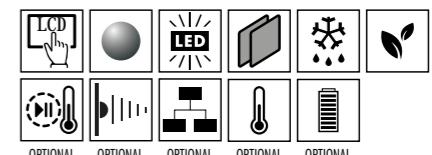
FV - G SERIES



- Available in versions from 100 l to 1400 l
- Temperature range +2°C/+15°C
- "Professional" electronic control
- Backlit LCD display
- Password-protected parameter modification and shut-off
- Integrated electronic datalogger
- Possibility to install chart recorder, GSM module and LAN port
- Door with double-glazed sealed unit and lock
- AISI 304 stainless steel shelves as standard; number depends on model
- Four unidirectional casters and two adjustable feet
- Automatic defrosting with condensate evaporation
- Ventilated evaporation
- Possibility of side passthrough hole
- Refrigerant: R452a CFC-free



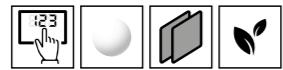
FV - C SERIES



- Available in versions from 100 l to 1400 l
- Temperature range +2°C/+15°C
- "Professional" electronic control
- Backlit LCD display
- Password-protected parameter modification and shut-off
- Integrated electronic datalogger
- Possibility to install chart recorder, GSM module and LAN port
- Solid insulated door with lock
- AISI 304 stainless steel shelves as standard; number depends on model
- Four unidirectional casters and two adjustable feet
- Automatic defrosting with condensate evaporation
- Ventilated evaporation
- Possibility of side passthrough hole
- Refrigerant: R452a CFC-free



SMF SERIES



- Available in versions from 90 l to 270 l
- Temperature range -10°C/-25°C
- "Basic" electronic control
- External display showing temperature and active functions
- Parameter modification via protected access
- Solid hinged door with lock
- PVC drawers as standard; number depends on model
- Two/four unidirectional casters and two adjustable feet
- Manual defrosting
- Static evaporation
- Side 25 mm passthrough hole as standard
- Refrigerant: R600a CFC-free

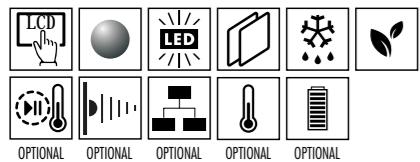


C SERIES

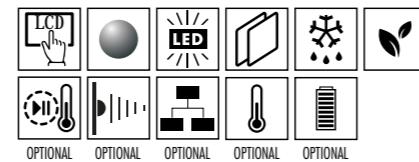


- Vertical freezers; dimensions and minimum temperatures vary according to version
 - Freezers with 100, 700 and 1400 l capacities (-25°)
 - Freezers with 160, 220, 250 and 320 l capacities (-30°C)
 - Freezer with 600 l capacity (-40°C)
- Temperature range depends on model: -10° - -25°C; -10° - -32°C; -10°C/-42°C
- "Professional" electronic control
- Backlit LCD display
- Password-protected parameter modification and shut-off
- Integrated electronic datalogger
- Possibility to install chart recorder, GSM module and LAN port
- Solid door with automatic closing, fitted with keyed lock
- Removable shelves or drawers; number depends on model
- Four unidirectional casters and two adjustable feet
- Automatic defrosting with condensate evaporation for -20°C models.
- Manual defrosting for -30°C to -40°C models
- Evaporation: static for 100 l to 600 l models; ventilated for 700 and 1400 l models
- Possibility of side passthrough hole
- Refrigerant: R452a CFC-free



**DT SERIES**

- Fridge-freezer with two separate compartments, one for the refrigerator (+2°C/+15°C) and one for the freezer (-10°C/-25°C)
- Available in the following versions (fridge+freezer): 280 l (180+100 l), 700 l (350+350 l) and 1400 l (700+700 l)
- "Professional" electronic control
- Backlit LCD display
- Password-protected parameter modification and shut-off
- Integrated electronic datalogger
- Possibility to install temperature chart recorder with dual pen; GSM module and LAN port
- Choice of two solid doors or a glazed door for the refrigerator compartment and solid door for the freezer compartment
- Both doors are fitted with key locks
- Removable shelves or drawers; number depends on model
- Automatic defrosting in the refrigerator compartment and manual in the freezer compartment
- Evaporation: ventilated fridge/static freezer
- Four unidirectional casters and two adjustable feet
- Possibility of side passthrough hole
- Refrigerant: R452a CFC-free

**DTP SERIES**

- Refrigerator with dual positive-temperature compartments (+2°C/+15°C)
- Available in the following versions: 300 l (150+150 l), 700 l (350+350 l) and 1400 l (700+700 l)
- "Professional" electronic control
- Backlit LCD display
- Password-protected parameter modification and shut-off
- Integrated electronic datalogger
- Possibility to install dual pen chart recorder; GSM module and LAN port
- Choice between two solid doors or two separate glazed doors
- Both doors are fitted with key locks
- Removable shelves or drawers; number depends on model
- Automatic defrosting in both compartments with condensate evaporation.
- Ventilated evaporation
- Four unidirectional casters and two adjustable feet
- Possibility of side passthrough hole
- Refrigerant: R452a CFC-free

**SMU SERIES**

- Available in 50 l and 678 l versions
- Temperature range -40°C/-86°C
- "Professional" electronic control
- Backlit LCD display and 7" Display
- Parameter setting through different password levels
- Integrated electronic datalogger for temperatures and alarms
- Data archive downloading via USB
- Solid door with ergonomic handle and pre-fitted lock
- SMU50: single compartment chest-freezer
- SMU678: internal chamber with 3 adjustable shelves + base and 4 internal doors
- For dedicated access to the 4 internal compartments
- Four unidirectional casters and two adjustable feet
- Manual defrosting
- Static evaporation
- Side 25 mm passthrough hole as standard
- Back-up battery for datalogger/alarms acquisition with runtime > 48h as standard
- Dry contact for remote alarm signal as standard
- Mixed R600a CFC-free-based refrigerant



**SUMMARY TABLE REFRIGERATORS SERIES SMR,
SERIES FV - G AND SERIES FV - C**

	SMR130G	SMR315G	FV10G1A/ FV10C1A	FV15G1A/ FV15C1A	FV20G1A/ FV20C1A	FV25G1A/ FV25C1A
Temperature range	+2°/+10°C	+2°/+10°C	+2°/+15°C	+2°/+15°C	+2°/+15°C	+2°/+15°C
External dimensions (WxDxH, cm)	65x62,5x81	65x67x176	60x60x86*	60x60x136	60x60x156	60x60x176
Internal Volume	130lt	315lt	100lt	150lt	200lt	250lt
Control Panel	professional	professional	professional	professional	professional	professional
Datalogger	yes	yes	yes	yes	yes	yes
Dry contact for remote alarm	standard	standard	standard	standard	standard	standard
LAN port	-	-	optional	optional	optional	optional
GSM module for alarm forward via SMS	-	-	optional	optional	optional	optional
Backup battery for data/alarm logging	standard	standard	optional	optional	optional	optional
Safety Thermostat +2°C DIN58345	standard	standard	-	-	-	-
Chart recorder	-	-	optional	optional	optional	optional
Insulation thickness	50mm	50mm	60mm	60mm	60mm	60mm
Internal light	LED	LED	LED	LED	LED	LED
Defrost and evaporation of water condense	automatic	automatic	automatic	automatic	automatic	automatic
Evaporation	ventilated	ventilated	ventilated	ventilated	ventilated	ventilated
Standard shelves	2	4	2	2	3	4
Standard drawers	1 lower basket	1 lower basket	-	-	-	-
Maximum number of shelves recommended	3	6	2	3	4	5
Maximum number of drawers recommended	1	1	2	3	4	5
Door lock	standard	standard	standard	standard	standard	standard
Pass-through porthole	standard	standard	optional	optional	optional	optional
Voltage/Frequency	230 V - 50 Hz	230 V - 50 Hz	230V, 50Hz/ 60 Hz (available)			
Refrigerant gas	R600a	R600a	R452a	R452a	R452a	R452a

* 84 undercounter model version available

**SUMMARY TABLE REFRIGERATORS SERIES SMR,
SERIES FV - G AND SERIES FV - C**

	FV30G1A/ FV30C1A	FV45G1A/ FV45C1A	FV52G1A/ FV52C1A	FV70G1A/ FV70C1A	FV140G2A/ FV140C2A
Temperature range	+2°/+15°C	+2°/+15°C	+2°/+15°C	+2°/+15°C	+2°/+15°C
External dimensions (WxDxH, cm)	60x60x196	70x80x184	70x80x204	70x80x199	140x80x199
Internal Volume	300lt	450lt	520lt	700lt	1.400lt
Control Panel	professional	professional	professional	professional	professional
Datalogger	yes	yes	yes	yes	yes
Dry contact for remote alarm	standard	standard	standard	standard	standard
LAN port	optional	optional	optional	optional	optional
GSM module for alarm forward via SMS	optional	optional	optional	optional	optional
Backup battery for data/alarm logging	optional	optional	optional	optional	optional
Safety Thermostat +2°C DIN58345	optional	optional	optional	optional	optional
Chart recorder	optional	optional	optional	optional	optional
Insulation thickness	60mm	60mm	60mm	60mm	60mm
Internal light	LED	LED	LED	LED	LED
Defrost and evaporation of water condense	automatic	automatic	automatic	automatic	automatic
Evaporation	ventilated	ventilated	ventilated	ventilated	ventilated
Standard shelves	5	3	4	4	8
Maximum number of shelves recommended	6	4	5	6	14
Maximum number of drawers recommended	6	4	5	6	14
Door lock	standard	standard	standard	standard	standard
Pass-through porthole	optional	optional	optional	optional	optional
Voltage/Frequency	230V, 50Hz/ 60 Hz (available)				
Refrigerant gas	R452a	R452a	R452a	R452a	R452a

SUMMARY TABLE FREEZER SERIES SMF AND SERIES C

	SMF90	SMF270	C20V10C1A	C30S16C1A	C30S22C1A	C30S25C1A
Temperature range	-10°/-25°C	-10°/-25°C	-10°/-25°C	-10°/-32°C	-10°/-32°C	-10°/-32°C
External dimensions (WxDxH, cm)	70x67x85	70x64x180	60x60x86	64x62x140	64x62x160	64x62x180
Internal Volume	90lt	270lt	100lt	160lt	220lt	250lt
Control Panel	basic	basic	professional	professional	professional	professional
Datalogger	-	-	yes	yes	yes	yes
Dry contact for remote alarm	-	-	standard	standard	standard	standard
LAN port	-	-	optional	optional	optional	optional
GSM module for alarm forward via SMS	-	-	optional	optional	optional	optional
Backup battery for data/alarm logging	-	-	optional	optional	optional	optional
Chart recorder	-	-	optional	optional	optional	optional
Insulation thickness	100mm	100mm	60mm	80mm	80mm	80mm
Defrost and evaporation of water condense	manual	manual	manual	manual	manual	manual
Evaporation	static	static	static	static	static	static
Standard shelves	-	-	-	-	-	-
Standard drawers	3	7	2	3	4	5
Maximum number of shelves recommended	-	-	2	3	4	5
Maximum number of drawers recommended	3	7	2	3	4	5
Door lock	standard	standard	standard	standard	standard	standard
Pass-through porthole	standard	standard	optional	optional	optional	optional
Voltage/ Frequency	230 V - 50 Hz	230 V - 50 Hz	230V, 50Hz/ 60 Hz (available)			
Refrigerant gas	R600a	R600a	R452a	R452a	R452a	R452a

SUMMARY TABLE FREEZER SERIES SMF AND SERIES C

	C30S32C1A	C40S60C1A	C25V70C1A	C25V140C2A
Temperature range	-10°/-32°C	-10°/-42°C	-10°/-25°C	-10°/-25°C
External dimensions (WxDxH, cm)	64x62x200	78x84x193	70x80x199	144x80x199
Internal Volume	320lt	600lt	700lt	1.400lt
Control Panel	professional	professional	professional	professional
Datalogger	yes	yes	yes	yes
Dry contact for remote alarm	standard	standard	standard	standard
LAN port	optional	optional	optional	optional
GSM module for alarm forward via SMS	optional	optional	optional	optional
Backup battery for data/alarm logging	optional	optional	optional	optional
Chart recorder	optional	optional	optional	optional
Insulation thickness	80mm	100mm	60mm	60mm
Defrost and evaporation of water condense	manual	manual	automatic and self-evaporation of the condensed water	automatic and self-evaporation of the condensed water
Evaporation	static	static	ventilated	ventilated
Standard shelves	-	-	4	8
Standard drawers	6	6	-	-
Maximum number of shelves recommended	6	6	7	14
Maximum number of drawers recommended	6	6	7	14
Door lock	standard	standard	standard	standard
Pass-through porthole	optional	optional	optional	optional
Voltage/Frequency	230V, 50Hz/ 60 Hz (available)	230V, 50Hz/ 60 Hz (available)	230V, 50Hz/ 60 Hz (available)	230V, 50Hz/ 60 Hz (available)
Refrigerant gas	R452a	R452a	R452a	R452a

SUMMARY TABLE COMBINED REFRIGERATORS AND FREEZERS

	DT28GA/DT28CA	DT70GA/DT70CA	DT140GA/DT140CA
Temperature range	+4°C refrigerator compartment -25°C freezer compartment	+4°C refrigerator compartment -25°C freezer compartment	+4°C refrigerator compartment -25°C freezer compartment
Doors number and typology	-GA model: n.2 doors, glass in refrigerator compartment, blind/solid in freezer compartment -CA model: n.2 doors, blind/solid in both compartments	-GA model: n.2 doors, glass in refrigerator compartment, blind/solid in freezer compartment -CA model: n.2 doors, blind/solid in both compartments	-GA model: n.2 doors, glass in refrigerator compartment, blind/solid in freezer compartment -CA model: n.2 doors, blind/solid in both compartments
External dimensions (WxDxH, cm)	60x60x196	70x80x199	144x80x202
Internal Volume	180/100lt	350/350lt	700/700lt
Control Panel	professional	professional	professional
Datalogger	yes	yes	yes
Dry contact for remote alarm	standard	standard	standard
LAN port	optional	optional	optional
GSM module for alarm forward via SMS	optional	optional	optional
Backup battery for data/alarm logging	optional	optional	optional
Safety Thermostat +2°C DIN58345	optional	optional	optional
Chart recorder	optional	optional	optional
Insulation thickness	60mm	60mm	60mm
Internal light	LED (refrigerator compartment only)	LED (refrigerator compartment only)	LED (refrigerator compartment only)
Defrost and evaporation of water condense	automatic and self-evaporation of the condensed water for refrigerator compartment and manual for the freezer compartment	automatic and self-evaporation of the condensed water for refrigerator compartment and manual for the freezer compartment	automatic and self-evaporation of the condensed water for both compartments
Evaporation	ventilated (refrigerator) / static (freezer)	ventilated (refrigerator) / static (freezer)	ventilated for both compartments
Standard shelves	3	3	4+4
Standard drawers	2	3	-
Maximum number of shelves recommended	3	3	7+7
Maximum number of drawers recommended	3	3	7+7
Door lock	2, standard	2, standard	2, standard
Pass-through porthole	optional	optional	optional
Voltage/Frequency	230V, 50Hz/ 60 Hz (available)	230V, 50Hz/ 60 Hz (available)	230V, 50Hz/ 60 Hz (available)
Refrigerant gas	R452a	R452a	R452a

SUMMARY TABLE COMBINED REFRIGERATORS-REFRIGERATORS

	DTP30GA/DTP30CA	DTP70GA/DTP70CA	DTP140GA/DTP140CA
Temperature range	+2/+15°C	+2/+15°C	+2/+15°C
Doors number and typology	-GA version, n. 2 glass doors -CA version, n. 2 blind/solid doors	-GA version, n. 2 glass doors -CA version, n. 2 blind/solid doors	-GA version, n. 2 glass doors -CA version, n. 2 blind/solid doors
External dimensions (WxDxH, cm)	60x60x196	70x80x204	144x80x199
Internal Volume	150/150lt	350/350lt	700/700lt
Control Panel	professional	professional	professional
Datalogger	yes	yes	yes
Dry contact for remote alarm	standard	standard	standard
LAN port	optional	optional	optional
GSM module for alarm forward via SMS	optional	optional	optional
Backup battery for data/alarm logging	optional	optional	optional
Safety Thermostat +2°C DIN58345	optional	optional	optional
Chart recorder	optional	optional	optional
Insulation thickness	60mm	60mm	60mm
Internal light	LED	LED	LED
Defrost and evaporation of water condense	automatic and self-evaporation of the condensed water	automatic and self-evaporation of the condensed water	automatic and self-evaporation of the condensed water
Evaporation	ventilated	ventilated	ventilated
Standard shelves	4	4	8
Maximum number of shelves recommended	6	6	14
Maximum number of drawers recommended	6	6	14
Door lock	standard	standard	standard
Pass-through porthole	optional	optional	optional
Voltage/Frequency	230V, 50Hz/ 60 Hz (available)	230V, 50Hz/ 60 Hz (available)	230V, 50Hz/ 60 Hz (available)
Refrigerant gas	R452a	R452a	R452a

SUMMARY TABLE ULTRALOW TEMPERATURE FREEZERS

	SMU50	SMU678
Temperature range	-40°/-86°C	-40°/-86°C
Doors number and typology	n. 1 top lid	n. 1 external e n. 4 internal compartment doors
External dimensions (WxDxH, cm)	65 x 61 x 108	109 x 102 x 196
Internal Volume	50lt	678lt
Control Panel	professional	professional
Datalogger	yes	yes
Dry contact for remote alarm	standard	standard
Backup battery for data/alarm logging	standard	standard
Chart recorder	-	-
Insulation thickness	110mm	130mm
Internal light	-	-
Defrost and evaporation of water condense	manual	manual
Evaporation	static	static
Standard shelves	-	3 + compartment bottom
Maximum number of shelves recommended	-	3
Door lock	standard	standard
Pass-through porthole	standard	standard
Voltage/Frequency	230 V - 50 Hz	230 V - 50 Hz
Refrigerant gas	Gas mixture R600a	Gas mixture R600a



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