

VOPOS



SMARTFREEZE

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Temperature and Humidity
High Performance Controller
for Uprights and Refrigerated Tables

VOPOS

INNOVATIVE CONTROLLER FOR PROFESSIONAL REFRIGERATION

Front-runner of energy efficiency

1 | LED DISPLAY



Display with 3 alphanumeric digits 7x5 segments (for a total of 7x15 dots) and with sliding words, in 5 languages

NEW: Sliding messages

BENEFITS: Easy and clear display of information

2 | TOUCH PAD KEYBOARD



Keyboard without mechanical components, with 4 keys

NEW: User-friendly and rugged

BENEFITS: Water and dust resistant

3 | MINI USB PORT



Mini USB external port to upgrade firmware, to set parameters (in/out), to download temperature recording data (useful for HACCP), to upload bill of materials

NEW: After the installation, easy access to parameters and data logging

BENEFITS: Flexibility in controller setting and data management

4 | ENERGY SAVING FUNCTIONS



Night & Day: if the nature of the stored product allows it, during the night the temperature in the cold room can be automatically increased by a default value (+1°C/+2°C max) and the lights switched off;

Door Opened Alert: through a message on the display. Automatic activation of the buzzer when opening time is prolonged;

Condenser fans thermoregulation: through a specific probe. If the temperature is below the set point of consensus, the fans will be switched off;

NEW: Reduction of refrigerator electricity consumptions

BENEFITS: Improvement of operation and performances of refrigerator; maintenance reduction; money savings

5 | ESTIMATION OF ELECTRICITY CONSUMPTIONS



In kWh for the last hour and the last 24 hours

NEW: Measurement of absorbed current

BENEFITS: Continuous monitoring of electricity consumptions

6 | SMART DEFROST



Automatic detection of frost on the evaporator; only when needed

NEW: Down from 3 defrosts per day to 1 defrost every 3 days (for positive temperature refrigerators)

BENEFITS: Reduction of thermal stress on equipment and food; energy and money savings

7 | SELF-DIAGNOSIS GAS SHORTAGE AND COMPONENTS FAULTS



Detection of gas shortage; timely reporting of refrigerator components faults (thanks to continuous recording of current absorption)

NEW: Alert on "gas shortage"; early fault detection

BENEFITS: Timely maintenance to avoid "emergency" situations and loss of products

8 | STATIC CONTROL OF HUMIDITY (SMARTCLIMA)



Proprietary solution for moisture control (even without humidity sensor and humidifier)

NEW: Low cost solution for products sensitive to moisture (such as pralines)

BENEFITS: Proper food storage, packaging or paper labels

9 | BILL OF MATERIALS



Storing of the list of refrigerator components (fans, compressor, ect.) and their part numbers

NEW: Reporting of faulty components part number

BENEFITS: Improved efficiency of maintenance

10 | REMOTE MONITORING AND CONTROL (BY ADDITION OF SMARTFREEZE UNIT)



Sampling of refrigerator working variables, remotely and in real time, and transmission to a web based Information System or mobile phones

NEW: Remote Monitoring and Control, at low cost and without hardware infrastructure and cabling

BENEFITS: Constant monitoring of product's temperature; optimization of refrigerators life cycle; reduction of product spoilage caused by the interruption of the cold chain, reduction of unnecessary maintenance, etc.