

Technical data and copyright			
User and maintenance manual is part of the product. The manual should always be kept with the product. Proper use of the product requires following the instructions in this manual. The manual is in accordance with the design of the product and all prevailing technical safety standards.			
I The product comprises the following components:			
Cooling appliance consisting of two or more modules with either 3 or 4 compartments, all with their own doors.			
The appliance was designed for deep reach, in other words it is not suitable for freezing products.			
Cool circuit with evaporative cooler for connection of a remote cooling unit			
Controlling for temperature regulation.			
Copyright			
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Refrigerated service cabinet	v.1.0

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Safety during transport

- Loading and unloading must be carried out with suitable equipment such as a lift truck, forklift, crane etc. Use suitable equipment for this purpose.
- People carrying out these activities should wear personal safety equipment (gloves, protective glasses, shoes, etc.) and should not stand under the load while the appliance is being hoisted.
- The surface where the appliance is being placed should be strong and level.

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Appliance specifications				
<image/>				
Model type: SC C3 & SC C4 SC C3 Service Cabinet 3 compartments per door model - height 707 mm (excl. countertop) SC C4 Service Cabinet 4 compartments per door model - height 867 mm (excl. countertop) Independent appliance units: 1000, 1500, 2000, 2500 and 3000 mm Inside: RVS Exterior: PVC laminated plate or RVS anti-fingerprint (BVS AFP)				
Dimensions of appliance:				
Exterior (per module), low model. Low model C3 module has 3 compartments.	707 × 725 × 500 mm (H × W × L)			
Exterior (per module), high model. High model C4 module has 4 compartments.	867 × 725 × 500 mm (H × W × L)			

Refrigeration device:

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The refrigeration device is fitted with evaporative coolers that have ventilators for cold air circulation. An expansion vent is fitted in the coolant supply line to the evaporative coolers in order to regulate the coolant supply to the evaporative coolers. This vent is fitted with a magnetic valve which closes as soon as the refrigerated service cabinet has reached the desired temperature. The device works almost completely automatically after being connected; the user must set the digital thermostat using a control.

These options are also available:

- a set of valves in the coolant piping with which the refrigerator can be manually closed for repairs;
- a filter in the coolant piping (situated in front of a magnetic valve) to catch contaminants.

Your refrigerated service cabinet has production identification labels which will expedite any assistance we may need to provide if there are any questions or if the appliance fails to function.

The product identification labels are located inside the cabinet on the left wall.

If information about a certain part is needed, or if a part is defective, convey the relevant information on the labels to your refrigeration contractor to expedite a solution.

smeva					Refrigeration specifications
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				6555 XC Valkenswaard	
Identificatienummer	-	0	T		
Produktiedatum	januari 2012		12	Aggregaat op afstand	
Type	-	Buffet	MIN COM	Hermetisch afgesloten	
Lengte		2	m		
Koudemiddel		R507	1	Class 97/23/EG Art. 3.3	
Circuitvolume		1,6	dm3	Module A	
Ontwerp druk	HP	27.6	Bar(o)		
	LP	18.0	Bar(o)	1	
Ontwerp temperatuur		60,0	°C	Cert-nummer	
Contract Contraction					
Downt and as hat Protocol use h	Junto valle	inde nefil	inrearda l	maikaenseen	

Refrigerated	service	cabinet
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Refriderated	service	cabinet

1 Introduction
You have made a good choice by purchasing a Smeva refrigerated service cabinet. The name Smeva stands for quality and reliability.
The refrigerated service cabinet is modularly designed; several units can be connected to each other.
The refrigerated service cabinet was designed for storing cold products. An evaporative cooler device with pipe installation is mounted inside the cabinet.
A compressor unit is situated at some distance away from the cooler it is connected to. The connection of the cooler and its periodic maintenance should be carried out exclusively by an authorized refrigeration company. The coolant piping, condensation drain and the electrical connection are located under the appliance.
The refrigerated service cabinet meets the requirements for being of the highest quality. Despite this high quality, the refrigerated service cabinet still needs to be treated and maintained properly. The intention of this manual is to assist you with that.
The manual contains the necessary instructions for installation and putting the refrigeration into operation, regulation of the thermostat control, cleaning and maintenance, as well as disassembly and removal at the end of the product's life expectancy.
In addition, a troubleshooting list is included for small, easily repaired malfunctions. See Chapter 8 for more.
For major malfunctions/defects to your refrigerated service cabinet you should contact your Smeva dealer.

2 Installation		
	 Appliance installation The refrigerated service cabinet is delivered from the factory up to six metres wide. More appliance units can be attached to it on site. The refrigerated service cabinet should be placed on a level surface. 	
	 Horizontal Level 	
	Adjustable feet Image: Any potential instability caused by play underneath one or more of the adjustable feet of the appliance can be alleviated by correctly adjusting the proper adjustable feet. Turn the adjustable feet to the point that they are making proper contact with the flooring. Image: Adjustable feet to the point that they are making proper contact with the flooring. Image: Adjustable feet to the point that they are making proper contact with the flooring. Image: Adjustable feet to the point that they are making proper contact with the flooring. Image: Adjustable feet to the point that they are making proper contact with the flooring. Image: Adjustable feet to the point that they are making proper contact with the flooring. Image: Adjustable feet to the point that they are making proper contact with the flooring. Image: Adjustable feet to the point that they are making proper contact with the flooring. Image: Adjustable feet to the point that they are making proper contact with the flooring. Image: Adjustable feet to the point that they are making proper contact with the flooring. Image: Adjustable feet to the point that they are making proper contact with the flooring. Image: Adjustable feet to the point that they are making proper contact with the flooring. Image: Adjustable feet to the point that they are making proper contact with the flooring. Image: Adjustable feet to the point that they are making proper contact with the flooring. <t< th=""></t<>	

Attaching appliances Remove the skirting boards on the outer ends (definitively). Dismantle the countertop if present.
 Dismantle the skirting boards and the transport girders on the coupling face. Place both appliance units next to each other. ✓ Equal height ✓ Level
 Insert M8 threaded ends through the feet. Draw the appliance units towards each other by fastening the threaded ends with nuts. Contiguous Equal height
Assemble the coupling place with flat head screws (Supertex 3.5 × 20 mm).

Refriç	geration installation
T re	he refrigeration installation is realised by connecting the refrigerated service cabinet to a emote cooling unit.
LL T	he field connections of the cooling piping set are situated centrally and their standard be be a standard be a contral of the first independent appliance unit on the left.
LL T	he cooling pipes to a potential sequence of sections are situated under the appliance and hould be connected at the site of the division line.
Лт	he Refrigeration installation should only be carried out by a qualified contractor.
Elect	rical installation
▲ B fr	before connecting the electrical connections you should be sure that the power voltage and requency agree with the specifications included (see type plate).
A E	lectrical connections should be executed in accordance with the applicable regulations.
U B	Before any repair work is carried out on the electrical live parts, the power supply to the part involved must be closed.
Before • tl • tl	the device is switch on check if: he electrical connections are correctly connected; he screwed joints for the different connection clamps are fastened tightly.
:	
Т	he electrical installation with thermostat control is situated under the appliance.
T LLL	he electrical connection is situated centrally and its standard location is underneath the first independent appliance unit on the left.
Т	he electrical installation is realised by connecting the refrigerated service cabinet to the ower supply of the shop.
T Co in	he power supply to any potential sequence of sections should be connected with a oupling cable between the switch boxes. For nominal power consumption see the normation on the identification label in the appliance.

3 Putting into operation

The refrigerated service cabinet can be put into operation after installation by an authorised refrigeration contractor, see Chapter 2. For the proper functioning of the refrigerated service cabinet take the following instructions into account.



Refrigerated service cabinet



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4 Thermostat control		
	 Accessible thermostat control i Each independent appliance unit has its own control. This is located under the second door from the left behind the transport girder. The standard setting of the set point is 0 °C. Remove the left skirting board and the outer skirting board by loosening the screws. ✓ Transport girder with mounting bolts visible. 	
	Remove the left transport girder (2 screws).	
	Remove the control housing (2 screws).	

For setting/changing the control, refer to the appropriate manual depending on control that was chosen following the delivery specifications. The appliance is standardly equipped with one control unit for each independent appliance unit.

Defrost programme

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The evaporative coolers are occasionally defrosted using the ambient air with the ventilators in operation (natural defrosting). The defrost times are standardly set to 30 minutes once every 24 hours. Depending on the use and the frequency of the doors opening, an additional defrost cycle might need to be scheduled on the thermostat regulator.

i The manual defrost function operates via the thermostat regulator. For this see the instructions of the appropriate regulator model type. If this is not available, then move the cooled goods to a cooled space and turn the appliance off leaving the doors open for a few hours.

Thermometer display

The temperature indicated is normally the exhaust temperature of the evaporative cooler. During the defrost cycle the temperature will momentarily increase. This will not affect the core temperature of the goods during the entire day.

Refrigerated service cabinet

5 Cleaning		
	Always turn off the appliance before cleaning the refrigerated service cabinet.	
	Clean with a cloth and warm soapy water. Then dry the appliance.	
	Never use aggressive cleaners. Only use cleaners with a pH (degree of acid) from 4 to 9.	
	When working on the interior of the appliance one should be aware of potential electrical hazard. If there is no mains power switch or electrical plug feeding the appliance, the power should be switched off by way of the central switch box in the shop.	



Cleaning RVS AFP (severely dirty surface or stubborn stains)

For stubborn residuals use a non-abrasive multifunctional cleansing cream applied with a soft damp cloth. Rinse with clean water and dry with a clean cloth.



Interior of the appliance (RVS)

Never spray water directly into or on electrical components such as the ventilators in the upright evaporative cooler and the magnetic valve in the coolant supply line.

RVS surface corrosion can be treated with a soft damp cloth and a multifunctional cleaning cream.

Refrigerated service cabinet

	Magnetic rubber door sealers Imagnetic rubber door sealers can be cleaned with a cloth and warm soapy water. Imagnetic rubber door sealers can be cleaned with a cloth and warm soapy water.
	Also clean between the rubber sealers and the door plate thoroughly. Dirt can accumulate and fungus develops.
	Evaporative coolers
	Clean the exterior of the evaporative coolers with a cloth and warm soapy water.
	 Free of dirt Defrosted
	Do not use any water spray.
	Contact your Smeva dealer if the air circuit of the evaporative cooler is dirty internally.
	Drain Clean the drain with a cloth and warm soapy water. Flush out with plenty of water.

6 General maintenance

It is advisable to have your refrigerated service cabinet inspected at least once a year by a qualified contractor.

This check focuses on:

- checking along the piping and evaporative cooler for leakage of coolant;
- examination of the ventilators;
- checking the function of the thermostat control and the temperature sensors;
- technical cleaning and removal of dust in the evaporative cooler and the air circulation system;
- cleaning and inspection of the drainage system.

LI Consult with your Smeva dealer about these maintenance schemes.



Magnetic rubber door sealers

I The magnetic rubber sealers should be replaced when damaged or excessively worn out:

Remove the screws behind the magnetic rubber sealers.

Door plate with magnetic rubber sealers is accessible

Replace the magnetic rubber sealers with a new rubber sealer.

Screw the door plate back on the door.



Drainage connection

The drainage connection has a sliding coupling sleeve that can be loosened. For thorough cleaning, or in the event of blockage, the drainage connection can be easily separated by loosening the screw coupling.

7 Termination of use; disassembly and removal		
The design and choice of material used for the construction of the refrigerated service cabinet have a life expectancy of 15 years. The life expectancy is dependent on the circumstances and intensity of its use.		
The refrigerated service cabinet has a factory guarantee of 1 year. Damages caused by third parties are not covered by the guarantee. A few parts are subject to wear and should be replaced during the life expectancy of the appliance.		
When disposing of the refrigerated service cabinet, it must be in accordance with local regulations.		
protocol. (See annex)	Coolant	Heating factor
	R22	1500
For materials used in the construction of the	R134a	1300
refrigerated service cabinets see Chapter 9	R404a	3260
'Technical specifications'.	R 507	3300
	R407a	1770
	R407c	1520
	Natural	
	coolant	
	R744	1
	R290	2

8 Malfunctions		
This list was drawn up for malfunctions with the assumption that the refrigerated service cabinet had functioned normally up to the moment that the malfunction occurred.		
General malfunction		
If nothing functions, check the power supply: Check the circuit breakers in the circuit breaker box and in particular the group of circuit breakers dedicated to the refrigerated service cabinet.		
Circuit breaker is on/is intact Check the residual current device.		
Residual current device on		
Contact your refrigeration contractor if you are unable to resolve the problem.		
Partial malfunction		
If the refrigerated service cabinet only functions partially and you cannot repair this by switching the appliance on and off, immediately contact your refrigeration contractor.		
Evaporative cooler partially elevated		
Set the control of the refrigerated service cabinet to manual defrost (see Chapter 4 'Control').		
If this is not possible, switch the refrigerated service cabinet off for a few hours.		
Evaporative cooler completely frost-free		
Remove the goods from the refrigerated service cabinet when switched off because the desired cooling temperature in this situation cannot be guaranteed.		
III Hire a qualified contractor if the malfunctions and/or problems continue.		

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9 Technical specifications		
Display case technical specifications Housing	Polyurethane foamed sandwich with external PVC laminated steel plate or RVS AFP housing and internal RVS plate.	
Countertop:	In accordance with the specifications wood with synthetic resin plate or RVS covering.	
Evaporative cooler:	Pre-painted copper/aluminium laminated block in coated steel housing.	
Lower/transport girders:	Steel with a cataphoresis coating and galvanized steel support systems.	
Feet:	Galvanized steel/plastic adjustable feet	
Interior:	RVS compartment frames with polypropylene crates	
Control/electricity:	According to specifications	
Electrical specifications		
Connections:	230 VAC – 50 Hz, max. 16 A.	
	The connection boxes have the necessary stickers for the purpose of the connection.	
Technical specifications are displayed on the type plate, and are also available on the datasheet which is available by your Smeva dealer upon request.		
The electrical diagram and the manual for the thermostat control are located in the central switch box.		