



USER MANUAL



OP XS tall

OP S / Showcase

OP MP / ATC 27

OP LP / ATC 36

OP XLP / ATC 48

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Operating instructions for OP devices (OP XS tall, OP S / Showcase, OP MP / ATC 27, OP LP / ATC 36 and OP XLP / ATC 48), English

**Subject to technical changes and misprints or typographical errors.
Dated April 2008**

1. Safety instructions

- ⇒ Pay attention during and after installation that the device is not positioned on the electric cable!
- ⇒ Always transport the device in upright position!
- ⇒ If the device is slanted during transport, you must wait at least for two hours before you start running the device in order to avoid defects!
- ⇒ Pull power plug before each cleaning or maintenance operation or interrupt power supply!
- ⇒ Do not position the device next to a heat source, in supply air or in the current of hot air.
- ⇒ Do not keep or store fuel, gas or other flammable substances close to the cooling unit! There is risk of fire or explosion due to the escaping vapours.
- ⇒ Keep a distance of at least 8 cm (3.2 inches) between the wall and the rear side in order that hot air may escape upwards.
- ⇒ Ventilation openings must not be blocked!
- ⇒ Level the device on a solid surface area and set it up in a room which is appropriate for its dimensions and its purpose of use.
- ⇒ Do not use the cooling unit at a place where the ambient temperature falls below 16°C (61°F). Set up the device at a dry place.
- ⇒ When setting up the device or when relocating it, pay attention not to damage the floor.
- ⇒ Do not damage the refrigeration circle!
- ⇒ The electric cable must only be replaced by a qualified technician!
- ⇒ Do not use any extension cords or multiple plugs!
- ⇒ The disconnection of the power supply must be possible by pulling the power plug or by a two-pole switch which is switched before the socket.
- ⇒ This operating instruction is part of the device. Therefore, it must remain with the device!

2. Before using the device

- ⇒ Check the device for damages after unpacking. Report possible damages immediately to the freight carrier!
- ⇒ Wait for two hours before starting up the device in order that the cooling circuit is able to achieve its entire functionality.
- ⇒ The installation and the electrical connection must be appropriately prepared by a qualified person according to the valid regulations.
- ⇒ Before starting up the device, you must clean its inside!
- ⇒ Recommend professional installation and set-up!

3. Packing

- ⇒ The packing material can be completely recycled and is marked by a recycling symbol. Dispose according to the local regulations.
- ⇒ Store packing material (plastic bag, polystyrene parts, etc.) out of the range of children.

4. General information

This operating manual refers to several design models. The following pages detail instructions for the operation, maintenance and cleaning of the device. **The manufacturer cannot be held liable for damages which are a result of the inappropriate application of the product.** In order to maintain warranty claims, please read and observe the information in this operating manual.

This operating manual is valid for the following design models:

- ⇒ OP XS tall
- ⇒ OP S (Showcase)
- ⇒ OP MP (ATC 27)
- ⇒ OP LP (ATC 36)
- ⇒ OP XLP (ATC 48)

Information for your safety:

The construction of this cooling display was accomplished according to the safety standards of ETL (Edison Testing Laboratories) for electrical and sanitary devices.

The device is exclusively suited for the storage and presentation of packed food or food which has been filled in bottles or cans.

- ⇒ **Hygienic guidelines:** (according to ETL list)
 - ETL approval according to the hygienic guidelines category II of NSF
- ⇒ **Electrical safety:**
 - (according to ETL list) ETL approval according to the guidelines for the electrical safety UL 471 (USA and Canada)
 - Declaration of Conformity for Europe CE

Responsibilities of the customer:

- ⇒ Make sure that the outlet is provided with a ground terminal.
- ⇒ The current and voltage must correspond to the information on the name plate of the device.
- ⇒ Pay attention that the device is positioned on a level surface.
- ⇒ Read and observe the guidelines on the following pages.

5. Warranty:

Due to differently formulated warranties it is not possible to make general statements here. Warranty periods are shown separately and agreed on in our general terms and conditions, in the order confirmation or in the purchase contracts.

Warranty exclusion:

- ⇒ Use of the device at a location with a room temperature of more than 26°C (78°F)
- ⇒ Use of extension cords and multiple plugs
- ⇒ Inappropriate use / application
- ⇒ Insufficient cleaning, maintenance and/or repair
- ⇒ Inappropriate grounding
- ⇒ Connection of the device to a power supply which deviates from the instructions on the name plate

6. Transport, packing, location, assembly:



ATTENTION:

Device is very heavy. Transport only with several persons and appropriate equipment!



Read operating instructions!
This operating instruction is part of the device and must remain there.



If possible, do not set up and expose the device to direct sunlight!



The device is **not** suited for the application outside or in unconditioned buildings!



Avoid locating the device within the range of the outlets of air conditions, the current of warm air, entrances or miscellaneous places with strong air turbulences!



The location where the device is set up must be solid and level!



The use of extension cords or multiple plugs is not permitted.



- ⇒ If possible, leave the cooling display in its original packing until the device is placed at its final destination.
- ⇒ Do not use any sharp objects for the removal of packing material because this might damage plastics, patterns or varnish.
- ⇒ Damages of the cooling display must be registered and reported as soon as possible (at best with picture documentation).



- ⇒ Transport damages must be reported immediately after delivery.
- ⇒ Observe the local regulations for the disposal of packing material.
- ⇒ If possible, use the packing material several time and recycle.



Absolutely keep a certain distance to the walls! For this purpose, please install the supplied wall distance piece at the rear side of the device!
A location “back-to-back” without partition is not permitted!



Operate the device at a temperature range between +16°C (61°F) and +26°C (78°F) and at a maximum humidity of 60% RH!

7. Storage of products:



This device is exclusively suited for the storage and presentation of packed food or food* filled in bottles or cans
Not suited for open (unpacked) food.

*observe according regulations concerning storage temperatures

Fill the device only up to the maximum line markings.
Do not block internal ventilation grids in front or rear of unit to maintain proper performance.



8. Connection to the power supply system:

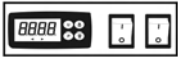


- ⇒ The socket must be provided with a correct ground contact.
- ⇒ Voltage and frequency must comply with the information on the name plate.
- ⇒ If you are not sure whether your installation is correct, have a qualified technician inspect your electric system.
- ⇒ The supply voltage does not deviate more than +/-10% from the recommended voltage.

- 220 V / 50 Hz version: 198 – 242 Volt
- 115 V / 60 Hz version: 98 – 126 Volt

The manufacturer is not liable for damages or accidents which are a result of misuse, the non-observance of regulations in the country where the cooling display is applied, power fluctuations beyond the specification on the data plate, lightning, power outages or any other acts of nature.

9. Commissioning:



The devices OP S, OP MP, OP LP and OP XLP as well as the showcase, ATC 27, ATC 36 and ATC 48 are provide both with a power switch (green) and with a switch for illumination (red).

The device OP XS tall may be disconnected from the power supply system by pulling the plug of the low power device out of the rear side.

- ⇒ Switch both switches to “0”
- ⇒ Connect the cooling display with the power supply system
- ⇒ Switch both switches to “I”. There may be a delay in the starting of the compressor.



Temperature control

- ⇒ Settings (factory settings): Temperature control is preset in the factory in order that the temperature of the cooled products lies constantly between +2°C and +7°C (35.5°F and 41°F).
The cooling temperature may be slightly altered. For this purpose read the necessary key commands in chapter "11. Control device“.
- ⇒ Display: The temperature display **only** shows the temperature inside the cooling display. The temperature may fluctuate between +2°C and +7°C (35.5°F and 45°F). If you defrost the device, the temperature may exceed +7°C or 45°F in the display, the stored products, however, are continuously kept at a temperature below +7°C / 41° F. In order to avoid confusion and wrong default messages, we recommend using the cover of the control unit.
- ⇒ When testing temperature, check product temperature after 24 hours of operation. Provide product temperature when calling for customer service or warranty service.
- ⇒ Defrosting (factory settings): The cooling display is defrosted automatically during the operation of the device.
- ⇒ Change of settings: Due to the application conditions such as weather or the location of the cooling display, it might be necessary to change the basic settings. Please contact your responsible customer service center if you would like to change the settings of your device.

10. Material and refrigerant:



- ⇒ All internal or external surface areas which get in contact with the cooled products are made of zinc-plated steel, aluminium or nontoxic plastics.
- ⇒ The applied cooling agent is approved according to federal regulations.
- ⇒ The cooling display is insulated with CFC-free insulation (expanding agent: cyclopentane).

The type and quantity of the gas filling in the cooling unit is indicated on the name plate of the device.

11. Control unit:

Depending on the requirements, different control units are used. The following describes the adjustment of the temperature.

Only a small range each is approved which enables the user to change the temperature. Any further adjustment option is protected and may only be changed by a service technician.



TLY-29 by Technologic (standard)

Press "P" key during operation in order to get to display "SP1".



By means of the arrow keys "UP" and "DOWN" you may now set the desired temperature.



The control unit changes automatically to the inside temperature display after approx. 10 seconds.



SFOC-100 by Elstat (energy-saving version)

Press the "SET" key during operation. The temperature display starts flashing.



By means of the arrow keys "UP" and "DOWN" you may now set the desired temperature.



The control unit changes automatically to the inside temperature display after approx. 10 seconds.

ATTENTION! The change from "standard operation" to "energy saving" is accomplished by closing the night roller blind. The inside temperature is increased in stand-by mode. The operating times of the compressor are less and shorter.

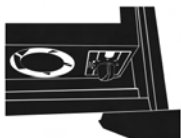
PLEASE NOTE: In case of sensitive goods which do not tolerate temperatures above 7°C (41°F) the stand-by temperature increase must be deactivated.

Temperature control OP XS tall



The cooling display OP XS tall is equipped with a mechanical thermostat. It is located below the intermediate floor cover.

In order to adjust it, you must remove the glass panel and both plastic fixtures.



The floor may now be lifted upwards a little bit. With your other hand, you may adjust the temperature as desired.

The assembly is accomplished in reverse order:

- ⇒ bring floor into the right position
- ⇒ mount the fixtures for the glass panel
- ⇒ insert glass panel

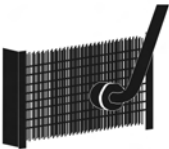
12. Cleaning



Basic cleaning:

The basic cleaning should be accomplished every day. Thus you guarantee a longer service life of the cooling display and a good hygienic condition. We recommend documenting the accomplished cleaning measures.

- ⇒ In order to remove coarse dirt from internal and external surface areas, it is not necessary to disconnect the cooling display from the power supply.
Note: Do not remove cover panels for basic cleaning.
- ⇒ Wipe all surface areas including the front grid.
- ⇒ Do not apply sharp objects for cleaning.
- ⇒ Clean the internal and external housing of the cooling display with a clean and wet cloth or with neutral soap.
- ⇒ In order to avoid damages, do not use coarse and highly inflammable detergents.



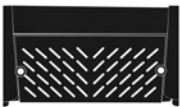
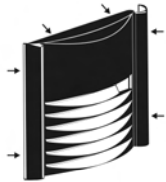
Main cleaning:

The main cleaning (at least once a year – OP XS tall 3-4 times a year, depending on the degree of dirt) is necessary in order to maintain the warranty claim.

For this purpose, you must disconnect the cooling display from the power supply system.

Additionally to the activities for the basic cleaning, the following measures are necessary:

- ⇒ Clean the condenser by means of a brush or a vacuum cleaner.
 - OP S, OP M, OP L and OP: (at least once a year)
 - Disconnect the device from the power supply
 - Remove the small glass panel at the front of the device
 - Remove the 4 (6) screws which fix the front cover
 - Remove the front cover
 - Remove dust and dirt from the condenser using a brush or a vacuum cleaner.
 - Showcase, ATC 27, ATC 36 and ATC 48, OP XS and OP XS tall
 - Inspect monthly and clean as required!
 - Water tray inspect quarterly and clean at least once per year
 - OP XS tall: (3-4 times a year)
 - Disconnect the device from the power supply
 - Release both knurled screws at the front and remove the ventilation plate.
 - Remove dust and dirt from the condenser using a brush or a vacuum cleaner.
- ⇒ Do not clean the cooling display with running water or with a direct high-pressure water beam.
- ⇒ Depending on the condition of the cooling display, a cleaning of the vaporiser and the air ducts may be necessary. In this case trained personnel is necessary because the cooling display must be partly disassembled for this purpose.



Accomplished cleaning activities must be documented as proof for possible warranty claims. We recommend appropriate entries in this manual.

13. Maintenance:



The required annual maintenance is accomplished by trained service technicians!

- ⇒ Cleaning of the condenser (inspect monthly)
- ⇒ Cleaning of the machine compartment
- ⇒ Cleaning of the water tray*¹
- ⇒ Cleaning of the air ducts*¹
- ⇒ Changing the leaking material in water tray (not US-cabinets)*²
- ⇒ General inspection of the device*²

*¹ if necessary
*² recommended

14. Connection diagram:

Due to the specific customer requirements, AHT-OP devices have different wirings and connections. For the information of the service technician, the connecting diagram is located in the machine compartment.

15. Exploded assembly drawing and parts list:

Due to the specific customer requirements, AHT-OP devices have a different design. Exploded assembly drawings and parts lists are available for the service partners.

16. Name plate information:

AHT Made By SFA		<i>Climate class</i>	
<i>Model description</i>	Mod. OPXL-P	Class 3	
<i>Voltage</i>	220V	50 Hz	2.35 KW
<i>Frequency</i>			R 404 A 1.200 kg
<i>Power</i>	Gross Volume 1060 dm ³		Net Volume 927 dm ³
<i>Gross volume</i>	Energy cons. 28.5 kWh/24 h		<i>Energy consumption</i>
	PDATE 071252 		
<i>Production date</i>	Product No	584-0828-094	Serial No
<i>JJMMCW</i>			<i>Serial number</i>
	<i>Part list number</i>	A0802873	

AHT Made By SFA		<i>Climate class</i>	
<i>Model description</i>	Mod. ATC 10 C	Class 3	PDATE 071252
<i>Voltage</i>	115V	60 Hz	Max. 4,5 A
<i>Frequency</i>			R 134a 10.58 oz
<i>Power</i>	High Pres: 211 psig		Low Pres: 88 psig
<i>Gross volume</i>	Gross Volume 290 dm ³		Net Volume 250 dm ³
	3072268 Conforms to UL Standard 471 Certified to CAN/CSA C22.2 No. 120-M91 Conforms to NSF Standard 7		
	Product No	584-0828-094	Serial No
			<i>Serial number</i>
	<i>Part list number</i>	A0802873	

Variation of name plate.
Used in US and Canada

17. Cooler information



OP XS tall

External dimensions (W x D x H)	[mm]	450 x 440 x 920
	[Inch]	17.7 x 17.3 x 36.2
Internal dimensions (W x D x H)	[mm]	380 x 335 x 550
	[Inch]	14.9 x 13.2 x 21.7
Shelf dimensions (W x D)	[mm]	365 x 270
	[Inch]	14.4 x 10.6
Volume (net/gross)	[ltr.(cu ft)]	57 / 72 (2 / 2.5)
Storing capacity 330 / 250 ml	[cans]	60 / 90
Temperature range	[°C (°F)]	+2 - +12 (35.5 – 53 .5)
Max. ambient temperature / humidity	[°C (°F) / %RH]	25 (77) / 60
Illumination	horizontal	1x T5, 8W
	vertical	2x T5, 8W (optional)
Weight (net/gross)	[kg (lb)]	42/46 (93/101)
Storing capacity 20'/40'/13.6m	[piece]	80 / 176 / 208



OP S / Showcase

External dimensions (W x D x H)	[mm]	700 x 700 x 1420
	[Inch]	30.3 x 27.6 x 55.9
Internal dimensions (W x D x H)	[mm]	615 x 565 x 790
	[Inch]	24.2 x 22.2 x 31.1
Shelf dimensions (W x D)	[mm]	610 x 300 / 375
	[Inch]	24.0 x 11.8 / 14.8
Volume (net/gross)	[ltr.(cu ft)]	215 / 275 (7.6 / 9.7)
Storing capacity 330 ml	[can]	270
Storing capacity 500 ml	[bottle]	144
Temperature range	[°C (°F)]	+2 - +12 (35.5 – 53 .5)
Temperature category *1		3 M2
Max. ambient temperature / humidity	[°C (°F) / %RH]	25 (77) / 60
Illumination	horizontal	-
	vertical	4x T5, 8W*2
Weight (net/gross)	[kg (lb)]	100/120 (220/264)
Storing capacity 20'/40'/13.6m	[piece]	21 / 45 / 51

*2 = LED illumination instead of fluorescent tubes possible



OP MP / ATC 27

External dimensions (W x D x H)	[mm]	715 x 715 x 1980
	[Inch]	28.1 x 28.1 x 78.0
Internal dimensions (W x D x H)	[mm]	615 x 565 x 1395
	[Inch]	24.2 x 22.2 x 54.9
Shelf dimensions (W x D)	[mm]	610 x 375
	[Inch]	24.0 x 14.8
Volume (net/gross)	[ltr.(cu ft)]	413 / 480 (14.6 / 16.9)
Storing capacity 330 ml	[can]	468
Storing capacity 500 ml	[bottle]	225
Temperature range	[°C (°F)]	+2 - +12 (35.5 – 53 .5)
Temperature category *1		3 M2
Max. ambient temperature / humidity	[°C (°F) / %RH]	25 (77) / 60
Illumination	horizontal	2x T5, 8W
	vertical	2x T5, 21W
Weight (net/gross)	[kg (lb)]	130/155 (287/341)
Storing capacity 20'/40'/13.6m	[piece]	21 / 45 / 51



OP LP / ATC 36

External dimensions (W x D x H)	[mm]	890 x 840 x 1980
	[Inch]	35.0 x 33.1 x 78.0
Internal dimensions (W x D x H)	[mm]	807 x 700 x 1360
	[Inch]	31.8 x 27.6 x 53.5
Shelf dimensions (W x D)	[mm]	800 x 520
	[Inch]	31.5 x 20.5
Volume (net/gross)	[ltr.(cu ft)]	675 / 770 (23.8 / 27.2)
Storing capacity 330 ml	[can]	864
Storing capacity 500 ml	[bottle]	480
Temperature range	[°C (°F)]	+2 - +12 (35.5 – 53 .5)
Temperature category * ¹		3 M2
Max. ambient temperature / humidity	[°C (°F) / %RH]	25 (77) / 60
Illumination	horizontal	2x T5, 14W
	vertical	2x T5, 21W
Weight (net/gross)	[kg (lb)]	200/220 (441/485)
Storing capacity 20'/40'/13.6m	[piece]	12 / 24 / 28



OP XLP / ATC 48

External dimensions (W x D x H)	[mm]	1195 x 840 x 1980
	[Inch]	47.0 x 33.0 x 78.0
Internal dimensions (W x D x H)	[mm]	1117 x 700 x 1360
	[Inch]	43.9 x 27.6 x 53.5
Shelf dimensions (W x D)	[mm]	1105 x 520
	[Inch]	43.5 x 20.5
Volume (net/gross)	[ltr.(cu ft)]	927 / 1060 (32.7 / 37.4)
Storing capacity 330 ml	[can]	1224
Storing capacity 500 ml	[bottle]	560
Temperature range	[°C (°F)]	+2 - +12 (35.5 – 53 .5)
Temperature category * ¹		3 M2
Max. ambient temperature / humidity	[°C (°F) / %RH]	25 (77) / 60
Illumination	horizontal	2x T5, 21W
	vertical	2x T5, 21W
Weight (net/gross)	[kg (lb)]	240/260 (529/573)
Storing capacity 20'/40'/13.6m	[piece]	10 / 21 / 24

*¹ climate category according to EN ISO 23953-2: 2005
 Temperature category according to EN 441-6: 1994

Subject to technical changes and misprints or typographical errors.

Dated April 2008

19. Maintenance details

Date	Responsible person	Comment

20. Notes

FRESHNESS. WORLDWIDE. **AHT** 

