

SPEC SHEET

Deep freezers **CE**



ISO 10 - 12 - 14 - 16



MINISO 11-13-15

Pictures are not contractual.
The company reserves the right to change any specifications without notice - Copying forbidden.

WARNINGS

1. General points

You have just acquired an appliance from us and we would like to thank you for placing your trust in us.

The purchase of this equipment constitutes acceptance of our general terms and conditions of sale.

This document has been written for the exclusive attention of the buyer.

The data in it is strictly confidential and must not be disclosed to third party under any circumstances.

Any transmission, communication of its contents or reproduction (even partial) of this document is prohibited unless authorised in writing by the manufacturer.

Any infringement shall give rise to claims for damages before the courts.

This notice is an integral part of the product and we recommend that you keep it near the machine so that you can read it easily and quickly.

This document was first written in French (ORIGINAL MANUAL) then translated into English.

If you have any doubts about the accuracy of the translation, please refer to the original French document which supersedes all other documents.

Please follow the advice contained in this documentation so that you are fully satisfied.

The manufacturer cannot guarantee the technical & legal predisposition of the installation room and support services used for the equipment, although it provides all the instructions for correct installation in the special section of this manual.

In this respect, we advise users to consult a professional technician with experience in the field to ensure compliance with the law or any local regulations.

Our company cannot be held responsible under any circumstances for the loss of goods or operating losses due to any kind of malfunctioning particularly in the event of incorrect and careless use such as, for example:

- Improper use not in accordance with these instructions by an untrained member of staff.
- Unapproved modifications or work.
- Use of non-original spare parts or parts not specific to the model.
- Non-compliance, even partial, of maintenance or adjustment work.

These losses can be covered by insurance cover taken out the user and his insurance provider.

Any installation and / or use which is at variance with our recommendations will automatically void the manufacture's warranty.

Our equipment has been designed and manufactured with care. We hope you are 100% happy with it and are here for you if you require any information.

The machine has been designed for the food industry (baked goods, pastries and Viennese pastries) and must be operated in accordance with the manufacturer's instructions.

This machine is designed for professional use and therefore must be installed in a work space which is NOT ACCESSIBLE TO THE PUBLIC for obvious safety reasons.

Any other use will be considered improper and therefore careless.

2. Technical warnings

Improper installation or adjustments to the settings, usage or maintenance can cause material damage, injury or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

The equipment must be installed by a qualified and authorised technician.
Before starting the installation of the equipment, the technician must check that the various site connections (electrics, water supply and drains to sewers) are completed and in accordance with the technical specifications of the equipment and the laws in force.


There are no user-serviceable parts inside.
Repairs must be performed by specialised service personnel only.

For your safety : Do not store or use fuel or any other flammable gases or liquids near this or any other appliance.

For continued protection against fire and electric shock, replace a defective fuse with the same type and rating fuse.

Fuses are supplementary overcurrent-protective devices and are not intended to be serviced when live.
Disconnect the power supply before servicing.

The stainless steel surfaces are delivered with a plastic film to protect them from scratches. Before commissioning, do not forget to remove the plastic film.

 This installation contains fluorinated greenhouse gases covered by the Kyoto Protocol.
European regulations on the protection of the ozone layer and the fight against the greenhouse effect requires from all companies whose staff conducts refrigerant handling operations to have a CERTIFICATE OF ABILITY issued for 5 years by a organization approved by the Ministry of Ecology.

INSTALLATION

This machine is designed for professional use and therefore must be installed in a work space which is NOT ACCESSIBLE TO THE PUBLIC for obvious safety reasons.

Before the installation, make sure that :

The equipment must be set up on a flat floor, with a sufficient safety allowable load (The maximum allowable slope is 5 mm/m).

The equipment shouldn't be in touch with any wall. Keep at least 10mm to avoid condensation problems.


The room lay-out and the ventilation must comply with the legal standards.

The wall clearance at rear of the machine is at least 100 mm.


Important service area : service access to the technical part must be provided.

An adequate natural airflow must be provided around the equipment.

The appliance must be aerated in an ambient atmosphere below 32°C to ensure its proper operating.

 Electric and hydraulic connections must comply with the applicable regulations and must be done by qualified workers.

1. Power supply

 Each appliance must be individually protected with a system close to the appliance, easily accessible and in conformity with legislation.


Note : the EARTH continuity circuit must be provided between the appliance and its electrical connection. Be sure to ground the appliance. Do not connect the ground wire to gas or water pipes, lightning rods, or telephone grounding lines. If the appliance is not properly grounded, electric shock may result. The customer must install a differential circuit breaker (1 per appliance).

The power supply voltage must match the indicated voltage specified on the nameplate.

Connection directly on the terminal block at customer's charge.

2. Condensation Drain

The outlet of the condensation drain can be installed at the rear or on the side panel of the deepfreezer (position to be decided when installed). Drill a hole \varnothing 35 mm. Section \varnothing 40mm minimum for evacuation to the drain.

 Water coming from a condensation process is not drinkable because it is devoid of minerals and may contain bacteria. It is therefore unfit for human or animal consumption.

3. Panels

Removable panels with modules of 1000mm.

Thermal insulation thickness : 100 mm.

Inside and outside cladding scheduled for an easy cleaning and to resist to blows and scratches (stainless steel possible in option).

4. Refrigeration unit

All deepfreezers are equipped with an air-cooled refrigeration unit. This equipment is pre-equipped from factory with pressure switches, dehydrator, liquid indicator and electrical connection box.

This equipment is designed to operate with refrigerant R404A or R452A and is supplied with sealed piping under safety charge (nitrogen)


An evaporator is fitted on the ceiling panel, equipped with its pre-wired pressure reducer


The cables and refrigerating piping come out above the ceiling. This piping is supplied sealed under safety charge (nitrogen).

If the refrigeration unit is located remotely, it must be more powerful and pipes must be adapted accordingly (the connecting pipes and the refrigeration unit pipes must have the same section).


Cooling couplings :

- MINISO : 5/8" - 3/8"
- ISO : 7/8" - 3/8"


 Due to its weight and size, the refrigeration unit cannot be installed on the deepfreezer ceiling; it has to be installed remotely. In the case of a remote refrigeration unit, the specialist technician responsible for the refrigeration system will have to charge the refrigerant into the circuit according to the distance of the unit (the refrigeration unit is then delivered empty). The refrigeration unit is suitable with R452A and R404A as refrigerant gas. Any change of gas during an intervention must be clearly identified on the machine (label) and the maintenance booklet must imperatively stipulate this change of gas.


 If exceptionally a freezer comes without refrigeration unit, it should be noted that if the unit is installed outdoors, it must be encased or protected from bad weather.


IVBEFORE UNDERTAKING ANY WORK ON THE EQUIPMENT

 Before undertaking any work on electrical parts, disconnect the supply to the appliance at the external disconnecting switch.
Beware of residual voltage.

To disconnect the appliance from the electric plug, never pull the wire.

 Do not touch the appliance :
- With any wet or damp body parts.
- If you are barefoot.

 Do not touch the refrigerant pipes with bare hands during operation. The refrigerant pipes are hot or cold depending on the condition of the flowing refrigerant. If you touch the pipes, burns or frostbite may result.

 All work on the equipment must be done by a qualified and approved professional.
In the event of false alarm in the safety system, you must contact your supplier.

VII. APPLIANCE CHARACTERISTICS

The deepfreezer is composed as follows :

Injected sandwich panels (black outside, stainless steel inside).

Deepfreezing compartment :

- ISO : A door
- MINISO : One half door

Preserving compartments : One half door / compartment

Safety thermostat

Evaporator

Refrigeration unit

A touchscreen control panel eDrive



Control of the following functions :

Cooling phase

Deepfreezing phase :

- Using the programmed freezing duration
- Use of the core probe

Preservation phase

Automatic defrosting

Options :

- Remote refrigeration unit > 10 m (contact us)
- Tropicalized unit (contact us)
- Sets of 2 extra guides (SRG-GLISSIERE)
- Door protection (SRG-***0PORTE)
- Electrical protection (SRG-00PROTELE) :



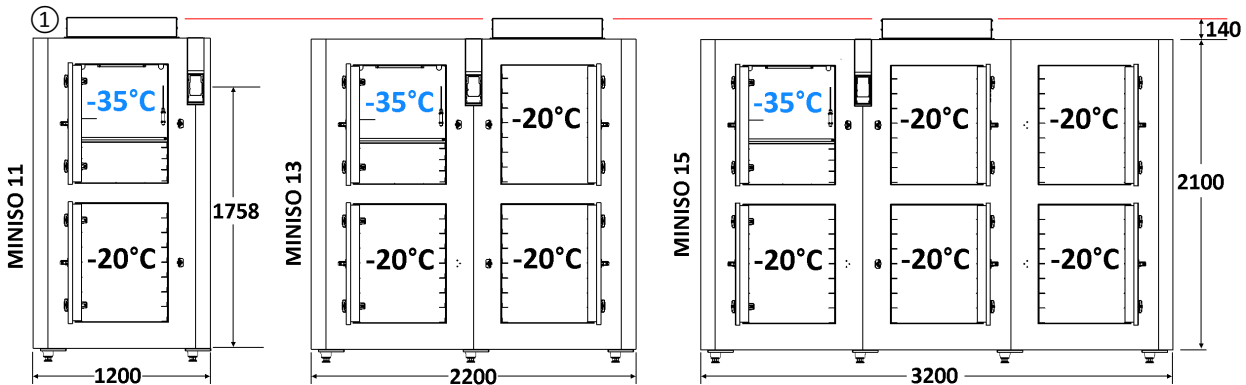
Electrical protection : This function is intended to protect the electrical equipment by ensuring a constant voltage regardless of fluctuations in the mains voltage.

The voltage control relay on the power supply line of the regulator trips if the mains voltage is outside the adjustment range for 6 seconds and automatically resets when the line voltage returns to its normal state..

SPEC SHEETS

Deep freezers : Range MINISO 11-13-15

Dimensions in mm



Electrical cabinet : easy removal of the cover for technical intervention.

SRG-MS1*	- 20°C		
	SRG-MS11*	SRG-MS13*	SRG-MS15*
4	8	24	40
5	15	45	75
10	30	90	150
4	10	30	50
8	20	60	100
3	8	24	40
6	16	48	80

Nb of sets of 2 guides supplied⁽¹⁾:
 Maximum capacity for a spacing of 50 mm :
 Number of trays 600x800
 Number of trays 600x400
 Maximum capacity for a spacing of 75 mm :
 Number of trays 600x800
 Number of trays 600x400
 Maximum capacity for a spacing of 100 mm :
 Number of trays 600x800
 Number of trays 600x400

⁽¹⁾ Sets of 2 extra guides available as an option

- ① Electric supply (must be connected directly on the terminal block).
- ② Condensation Drain : Position to be decided when installed (drill a hole \varnothing 35 mm). Section \varnothing 40mm minimum for evacuation to the drain.

! Inlet ① and outlet ② are at customer's charge and have to be in-service the day of installation. Due to its weight and size, the refrigeration unit cannot be installed on the deepfreezer ceiling; it has to be installed remotely. In the case of a remote refrigeration unit, the specialist technician responsible for the refrigeration system will have to charge the refrigerant into the circuit according to the distance of the unit (the refrigeration unit is then delivered empty). The refrigeration unit is suitable with R452A and R404A as refrigerant gas. Any change of gas during an intervention must be clearly identified on the machine (label) and the maintenance booklet must imperatively stipulate this change of gas.

i Panels thickness : 100 mm.
 If exceptionally a freezer comes without refrigeration unit, it should be noted that if the unit is installed outdoors, it must be encased or protected from bad weather.

Electrical data :

Voltage : ~3x400V+N+G
 Frequency : 50 Hz
 Absorbed power : 3,7 kW
 Intensity : 6,7 A
 Defrosting power : 2970 W
 Power of the self-regulating heating cord of door : 52 W/m to -30°C

Refrigeration unit : 50 Hz

Power : 3 CV *
 Absorbed power : 1500 W*
 Cooling power : 1684 W*
 Weight : 71 Kg
 Sound power : 75 dB(A)
 Cooling couplings : 5/8" - 3/8"
 Depth : 654 mm
 Width : 1174 mm
 Height : 837 mm
 Fixing centre distance : 529 mm x 630 mm
 * these cooling capacities are given for an evaporation temperature of -35°C and intake and ambient temperatures of 32°C.

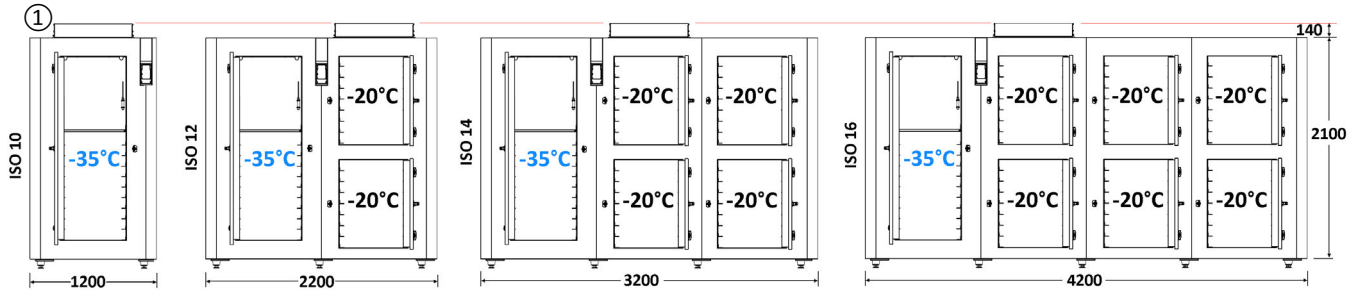
R452A is a Fluorinated Greenhouse gas, covered by the Kyoto Protocol, with a Global Warming Potential (GWP) = 2141 (recommended).

R404A is a Fluorinated Greenhouse gas, covered by the Kyoto Protocol, with a Global Warming Potential (GWP) = 3922.

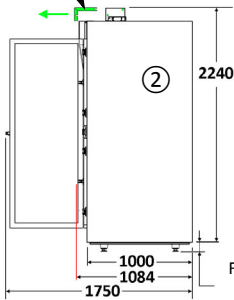
SPEC SHEET

Deep freezers : Range ISO 10-12-14-16

Dimensions in mm



Electrical cabinet : easy removal of the cover for technical intervention.



Feet adjustable from 85 mm to 122 mm

Nb of sets of 2 guides supplied⁽¹⁾:
 Maximum capacity for a spacing of 50 mm :
 Number of trays 600x800
 Number of trays 600x400
 Maximum capacity for a spacing of 75mm :
 Number of trays 600x800
 Number of trays 600x400
 Maximum capacity for a spacing of 100 mm :
 Number of trays 600x800
 Number of trays 600x400

⁽¹⁾ Sets of 2 extra guides available as an option

	- 35°C		- 20°C		
	Deepfreezing compartment		Preserving compartment(s)		
SRG-0S1*	SRG-0S10*	SRG-0S12*	SRG-0S14*	SRG-0S16*	
10		16	32	48	
20		30	60	90	
40		60	120	180	
13		20	40	60	
26		40	80	120	
10		16	32	48	
20		32	64	96	

① Electric supply (must be connected directly on the terminal block).

② Condensation Drain : Position to be decided when installed (drill a hole \varnothing 35 mm). Section \varnothing 40mm minimum for evacuation to the drain.



Inlet ① and outlet ② are at customer's charge and have to be in-service the day of installation.

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Panels thickness : 100 mm.

If exceptionally a freezer comes without refrigeration unit, it should be noted that if the unit is installed outdoors, it must be encased or protected from bad weather.

Electrical data :

Voltage : ~3x400V+N+G
 Frequency : 50 Hz
 Absorbed power : 5 kW
 Intensity : 8,6 A
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 Power of the self-regulating heating cord of door : 52 W/m to -30°C

Refrigeration unit : 50 Hz

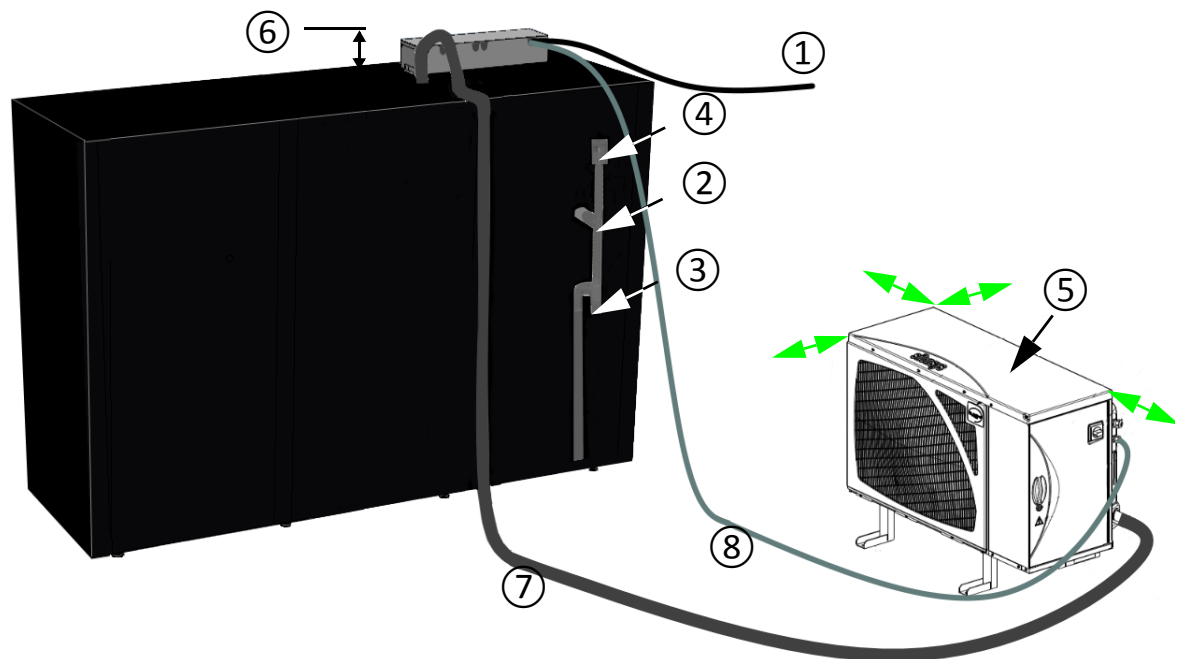
Power : 4 CV*
 Absorbed power : 2210 W*
 Cooling power : 2651 W*
 Weight : 106 Kg
 Sound power : 70 dB(A)
 Cooling couplings : 7/8'' - 3/8''
 Depth : 654 mm
 Width : 1209 mm
 Height : 1465 mm
 Fixing centre distance : 529 mm x 630 mm
 * these cooling capacities are given for an evaporation temperature of -35°C and intake and ambient temperatures of 32°C.

R452A is a Fluorinated Greenhouse gas, covered by the Kyoto Protocol, with a Global Warming Potential (GWP) = 2141 (recommended).

R404A is a Fluorinated Greenhouse gas, covered by the Kyoto Protocol, with a Global Warming Potential (GWP) = 3922.

REAR VIEW / CONNECTIONS PRINCIPLE

1. MINISO 11 - 13 - 15



- ① Electric supply. Connection directly on the terminal block at customer's charge (check the assembly instructions).
- ② Condensation Drain. The outlet of the condensation drain can be installed at the rear or on the side panel of the deep freezer (position to be decided when installed). Drill a hole \varnothing 35 mm. Section \varnothing 40mm minimum for evacuation to the drain
- ③ Siphon with check valve
- ④ Pressure relief valve
- ⑤ Refrigeration unit (check the refrigeration unit instructions).

This equipment is designed to function with refrigerant R404A or R452A and is supplied with sealed piping under safety charge (nitrogen).

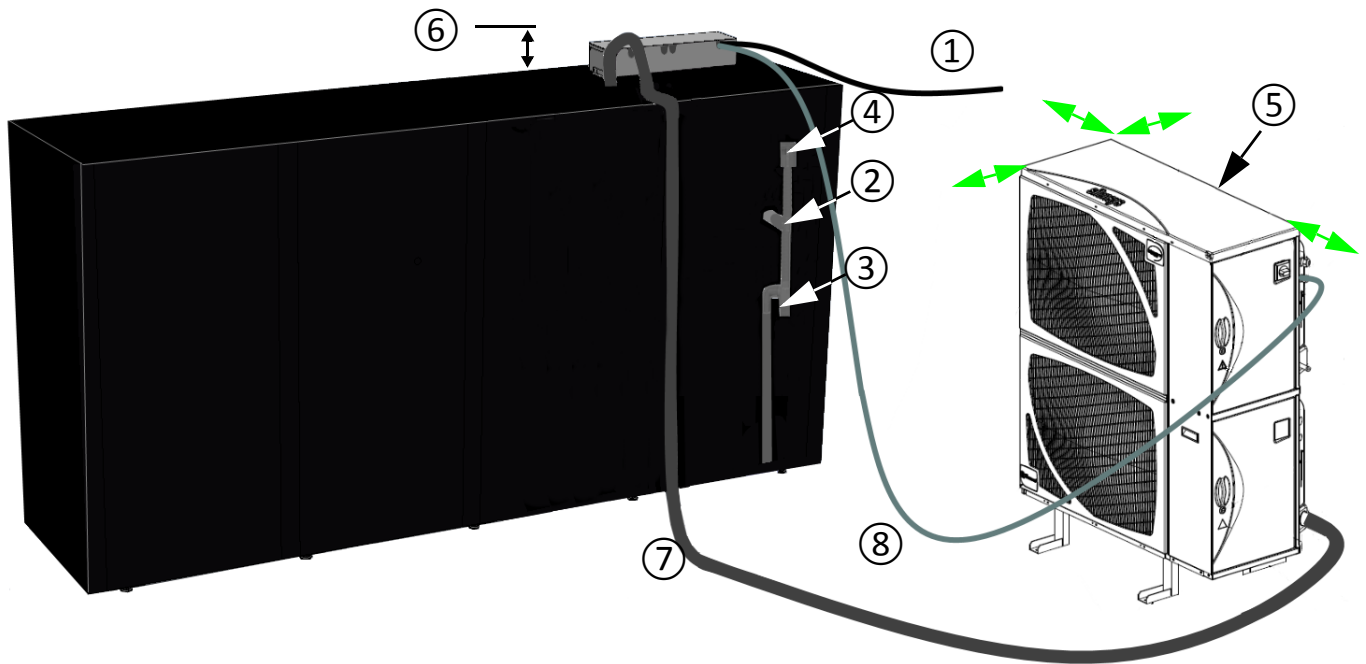
- ⑥ Technical outputs : H + \approx 150 mm
- ⑦ Cooling couplings : 5/8'' - 3/8''

If the refrigeration unit is located remotely, it must be more powerful and pipes must be adapted accordingly (the connecting pipes and the refrigeration unit pipes must have the same section).

- ⑧ Power supply of the refrigeration unit. Connection directly on the terminal block at customer's charge (check the assembly instructions).

↔ = 500 mm

2. ISO 10 - 12 - 14 - 16




- ① Electric supply. Connection directly on the terminal block at customer's charge (check the assembly instructions).
- ② Condensation Drain. The outlet of the condensation drain can be installed at the rear or on the side panel of the deep freezer (position to be decided when installed). Drill a hole \varnothing 35 mm. Section \varnothing 40mm minimum for evacuation to the drain
- ③ Siphon with check valve
- ④ Pressure relief valve
- ⑤ Refrigeration unit (check the refrigeration unit instructions).

This equipment is designed to function with refrigerant R404A or R452A and is supplied with sealed piping under safety charge (nitrogen).

- ⑥ Technical outputs : H + \approx 150 mm
- ⑦ Cooling couplings : 7/8" - 3/8"

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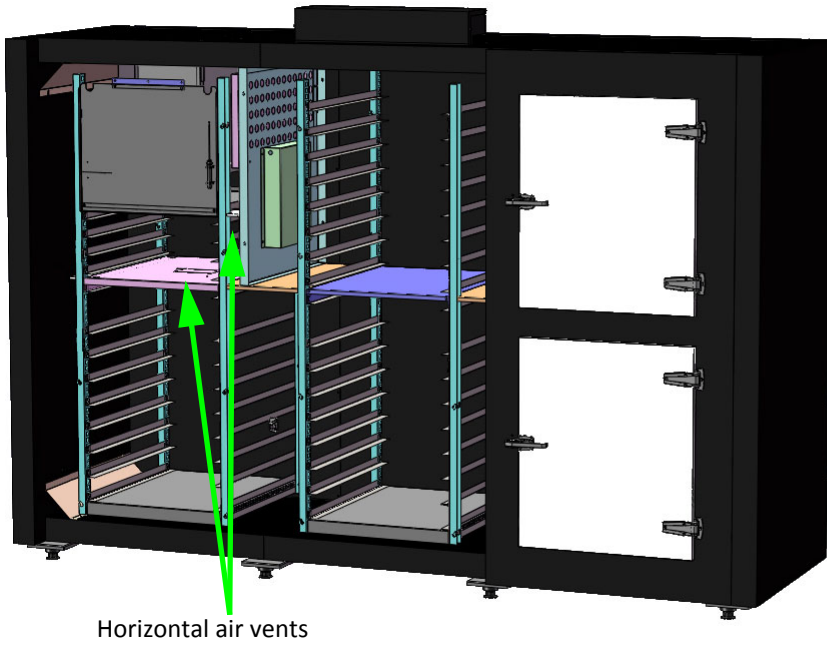
- ⑧ Power supply of the refrigeration unit. Connection directly on the terminal block at customer's charge (check the assembly instructions).

 = 500 mm

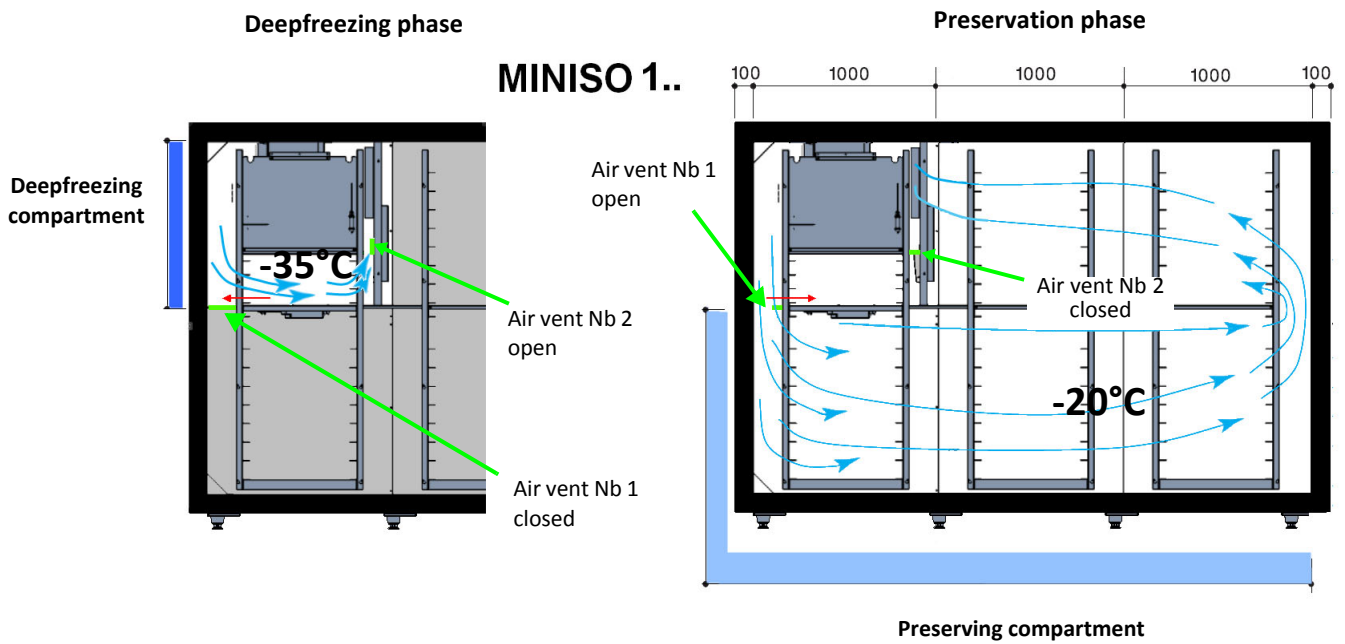
INSIDE VIEW

1. MINISO 11 - 13 - 15

a. Air vents



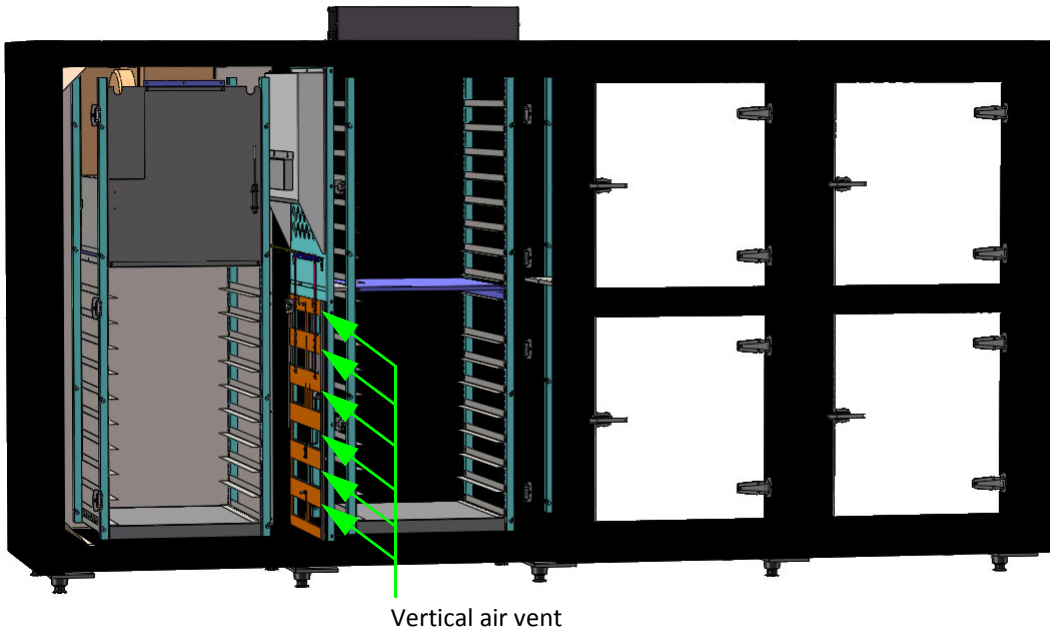
b. Air flow



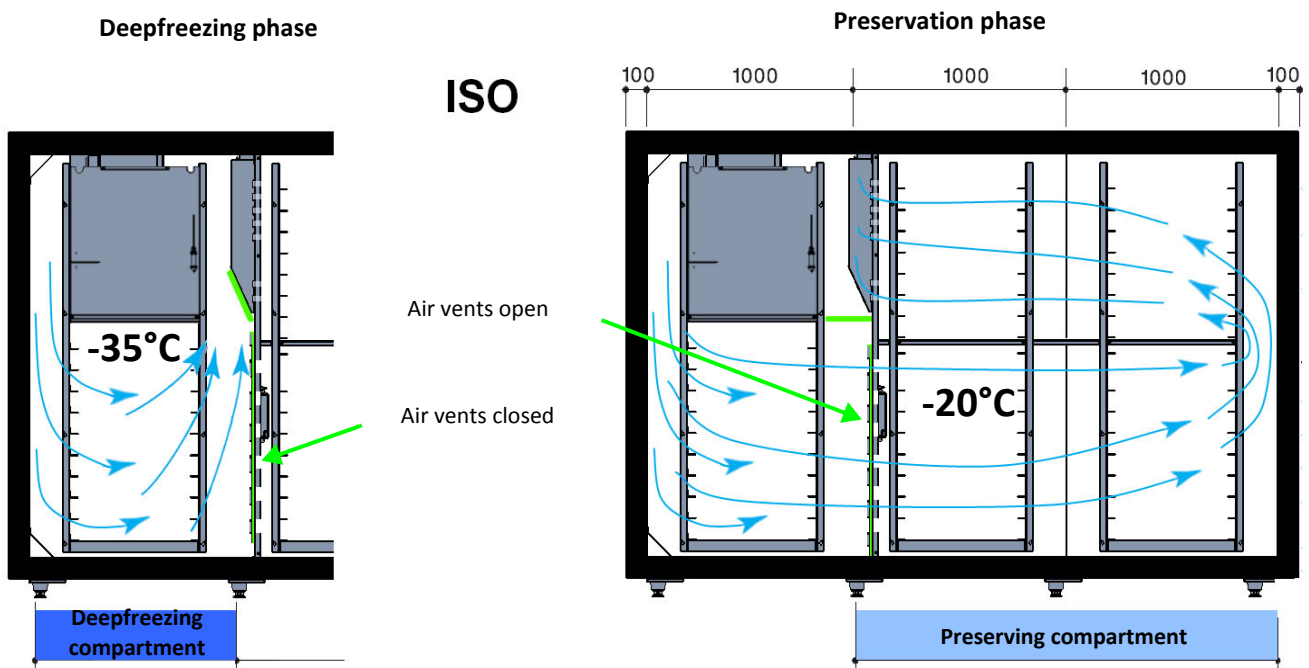
Never store big boxes (air flow disturbed). It is imperative to use shelves for products storage.

2. ISO 10 - 12 - 14 - 16

a. Air vents



b. Air flow



Never store big boxes (air flow disturbed). It is imperative to use shelves for products storage.



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