



INSTALLATION & USER GUIDE

WINE IN50



DEFYING
CONVENTION



User manual

Table of contents

1. CELLAR EQUIPMENT	5
1.1. Evacuation room	5
1.2. Cellar insulation	6
1.2.1. Insulation of walls, ceiling and floor	7
1.2.2. The door	8
1.2.3. Insulation of other elements	8
2. INSTALLATION OF WINE CONDITIONING UNIT WINEMASTER®	9
2.1. Installation of ducting connection	10
2.1.1. Ducting Kit composition.....	10
2.1.2. Examples	11
2.1.3. Preparation.....	11
2.1.4. Wall drilling	12
2.1.5. Air conditioners installation.....	12
2.1.6. Grids installation	13
2.2. Installing the water drainage system	14
3. USING THE WINE CONDITIONING UNIT WINEMASTER®	15
3.1. Connecting the air conditioner WINE IN50+.....	15
3.2. Plugging in the wine conditioning unit WINE IN50+	16
3.2.1. Temperature setting of the air conditioner unit WINE IN50+	16
3.3. Standby mode	16
3.4. Automatic defrost.....	16
4. MAINTENANCE OF THE AIR CONDITIONER WINEMASTER®	17
4.1. Replacing the filter	17
4.2. Security information.....	17
4.3. Thermostat wiring	17
4.4. Condensate drain.....	17
5. WARRANTY	18
5.1. Legal Warranty	18
5.2. 2 years contractual warranty	18
5.3. Warranty conditions	18
5.4. Exclusions and limitations of warranty	18

Introduction

Thank you for purchasing your WINEMASTER wine conditioning unit – we are sure it will provide excellent temperature control for your wine cellar, wine room, wine wall or wine cabinet.

WINEMASTER (formerly 'Fondis') has been established as the leader in temperature control for wine cellars for decades. Our engineering team is constantly testing the latest materials, technology and engineering processes to ensure you have the best product available.

The end result is all about you, the customer, enjoying your wine which is a delicate asset to own, preserve and store. We know this, and this is our specialty with the range of units we offer.

All this is backed-up with our WINEMASTER Guarantee and Customer Service from Wine Corner Ltd.

The WINEMASTER team.

Please read this manual thoroughly because certain conditions need to be in place prior to installation. They are also important for running the unit for many years to come.

If you need assistance, please contact Wine Corner Ltd on +44 1302 744916 or email info@winecorner.co.uk



Technicals Datas

	WINE IN50+
Weight	52.6 kg
Dimensions	H.1044 X L.500 X P.428
Temperature setting	Preset to 12°C, adjustable between 8 et 18°C *
Maximum outside temperature	35°C **
Cooling power	1200 W à 15°C **
⚡ Electric supply	230/240V-50 Hz + 3 m cable
❄ Electric power	550 W
☀ Heating power	500 W
Pression	900-1100hPa

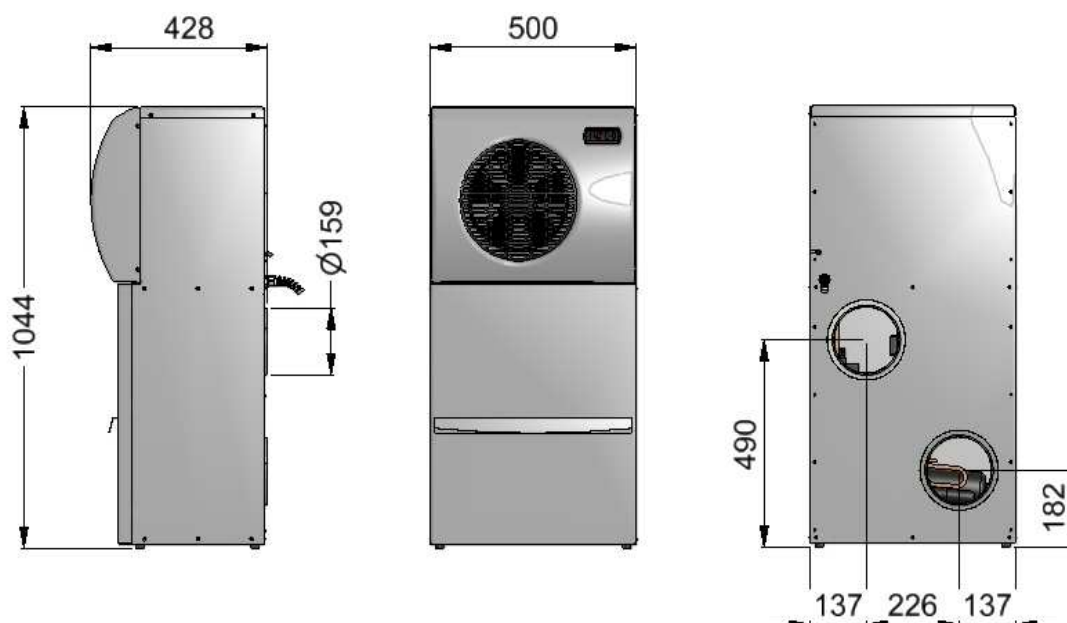
The circuit breaker must be at least **16 Amps**.

* The insulation quality and thickness has to be in accordance with the volume of the cellar and the set temperature.

** The cooling performance is dependant from the outside temperature. Therefore, the set temperature of 12°C for the cellar cannot be maintained if the outside temperature reaches the 35°C.

If the thermal safety functions to often, there is a risk for the compressor to be damaged. In all cases, **it must be avoid that the outside temperature remains at 35°C**, this high temperature should be limited to the summer period.

Technical Drawings



1. CELLAR EQUIPMENT

The air conditioner has to be installed in the wine cellar on the supplied horizontal supports adapted to the weight of the unit.

For a correct functioning, the unit expels air at the outside to 15°C above the temperature of the air inlet aspiration. This air must be cooled in a well ventilated room or be evacuated outside.

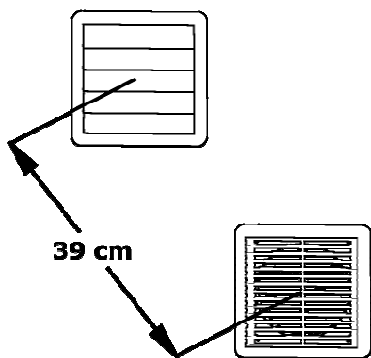
→ **This operation will be done thanks to the insulated ducts in the inside of the cellar**

1.1. Evacuation room

If WINEMASTER® evacuates hot air inside the room you have to **ventilate the room** :

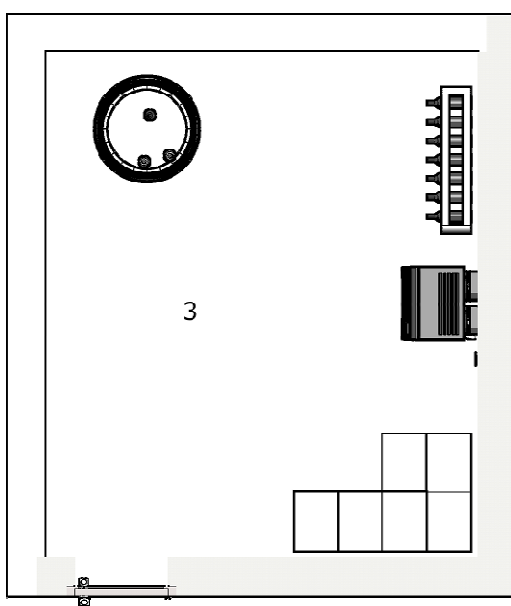
- Maximum temperature and non permanent $\leq 35^{\circ}\text{C}$
- Ideal temperature $\approx 20^{\circ}\text{C}$.

→ **It is recommended to evacuate the hot air to the outside with ducts if possible.**



- Separate the 2 entries of at least 39 cm
- Do not block the ducts (risk of overheating)
- Maximum length of the 2 ducts in totality : 14 m in straight line
- Reduce depending of the number of elbow : 1 m per elbow
- Radius elbow ≥ 175 mm
- Do not reduced the duct size (180cm² mini)

Top view



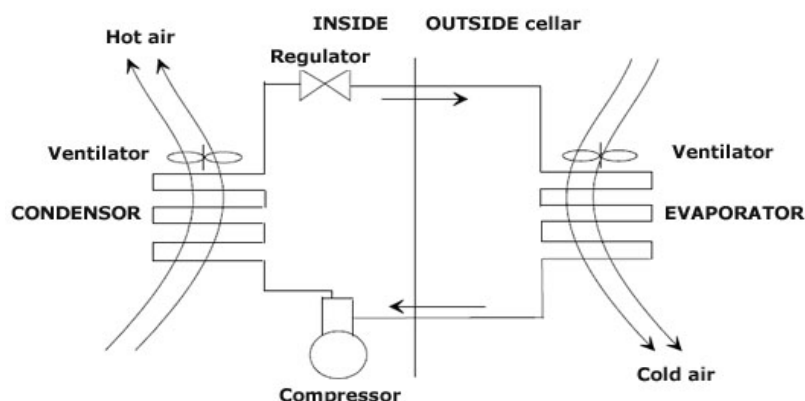
1. EVACUATED AIR
2. AIR INLET
3. WINE CELLAR
4. EVACUATION ROOM OR HAUSE OUTSIDE

20°C



35°C





The advantages of « ventilated cold »:

- No frost other than on the evaporator.
- Automatic defrosting and maximized refrigeration efficiency.
- Cold distribution improved by a permanent air circulation (without air stratification).
- The circulation of air allows maintaining the pre-selected temperature throughout the cellar.

1.2. Cellar insulation

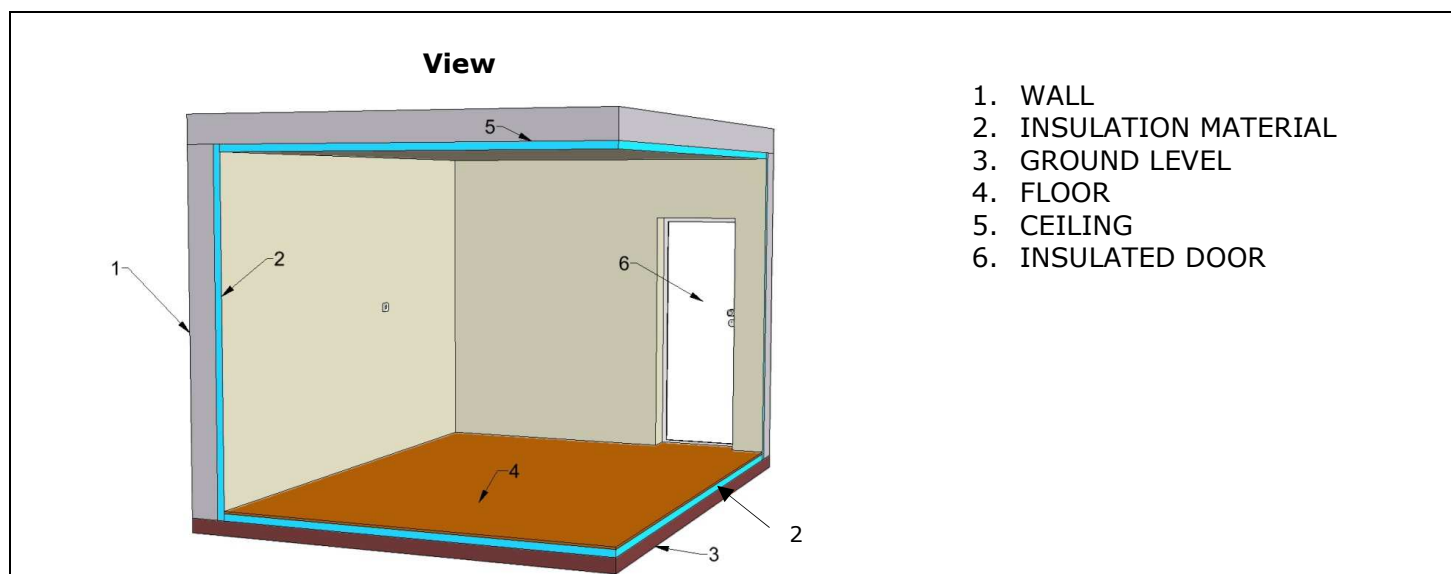
Insulation is essential for efficient functioning of the WINEMASTER®. A good insulation enables you to maintain a stable **temperature and humidity level**. The chart on the next page will allow you to determine the type and thickness of insulation needed in relation to the exterior volume of the cellar and model of the WINEMASTER®, for an inside temperature of 12°C.

Complete insulation

The insulating elements should be preferably:

- By « tongue and groove » panels or
- By panels fused together

→ **IMPORTANT: Avoid the intrusion of heat and humidity which can alter the functioning of the WINEMASTER®.**



IMPORTANT

The WINEMASTER® warranty is only valid if the insulation is in compliance with the board « Insulation selection » requirements for the whole cellar (walls, floor, door and ceiling) with perfect continuity of insulation.

Insulation selection

MINIMAL THICKNESS OF INSULATION (mm)				
VOLUME OF THE CELLAR (m ³)	MINIMAL THERMAL RESISTANCE R : m ² . °C/W	Polystyrene expanded $\lambda = 0.044 \text{ W/m } ^\circ\text{C}$	pPolystyrene extruded $\lambda = 0.030 \text{ W/m } ^\circ\text{C}$	Polyurethane foam $\lambda = 0.025 \text{ W/m } ^\circ\text{C}$
14	0,94	50	30	30
16	1,08	50	40	30
18	1,21	60	40	40
20	1,35	60	40	40
22	1,48	70	50	40
24	1,62	80	50	50
26	1,75	80	60	50
28	1,88	90	60	50
30	2,02	90	60	60
32	2,15	100	70	60
34	2,29	110	70	60
36	2,42	110	80	70
38	2,56	120	80	70
40	2,69	120	90	70
42	2,82	130	90	80
46	2,96	130	90	80
50	3,23	150	100	80

1.2.1. Insulation of walls, ceiling and floor

Type of insulation panels

You can select among the following type of panels:

- Usual panels,
- « Complex panels »: insulation is covered with a cover material (plaster, mineral
- « Sandwich panels »: insulation is covered on each side with a wooden panel or plaster board.

Important : The covering of the panels **protects the insulation against damage and guarantees its longevity. Avoid using mineral fibres insulation** (glass wool, rock wool, etc...) as they may accumulate moisture and lose their insulation power and avoid also thin film insulation that are not effective for cold.

DO YOU KNOW THAT ?

Some insulating materials are damaged by rodents. If necessary, cover the insulation with a protective lining on the inside of the cellar to avoid presence of mouse or rats.

→ **Polyurethane is an insulator that, due to its chemical composition, is not attacked by the rodents**

Floor insulation

The floor of the cellar must be able to support the shelves and the stored wine. Thus, it's necessary to choose insulation with adequate compression strength.

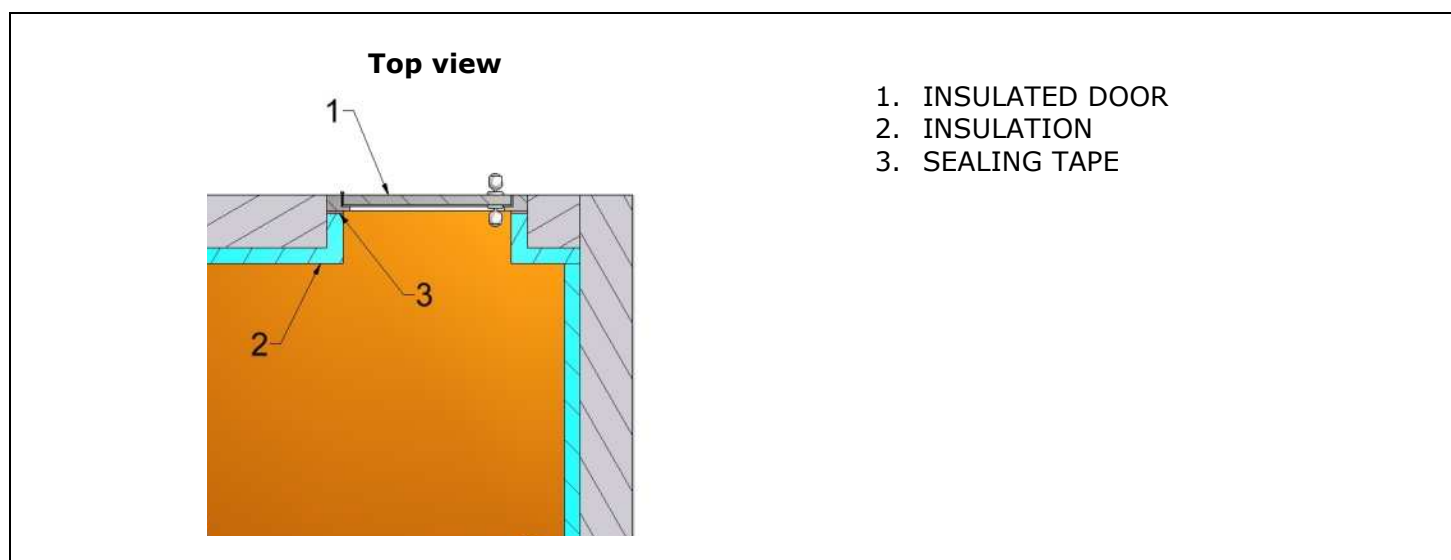
Improve the load capacity of the insulation (particularly under the shelf legs) by using :

- « **Complex** » insulation panels covered by panels of higher load capacity.
- **Cover the insulation panel with a wooden panel** (at least 15 mm thickness), or any other appropriate material.

1.2.2. The door

Door improves the insulation. Two solutions are possible :

- **Insulate an existing door with the same insulation materials used for the walls of the cellar.** Provide a tight seal between the door frame and all sides of the door with a strip of foam rubber for example.
- **Use a special designed WINEMASTER isothermal door** with polyurethane and a sealing foam rubber.



1.2.3. Insulation of other elements

Avoid placing a wine cabinet or freezer which generates heat in the cellar. **The central heating pipes should be re-insulated** during their passage through the cellar.

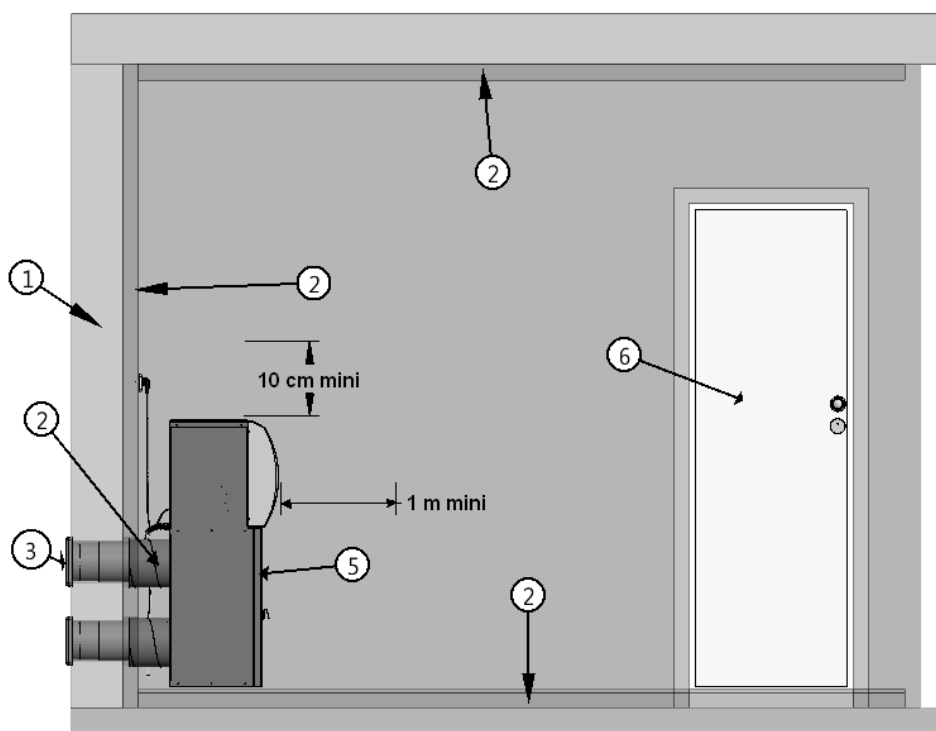
2. INSTALLATION OF WINE CONDITIONING UNIT WINEMASTER®



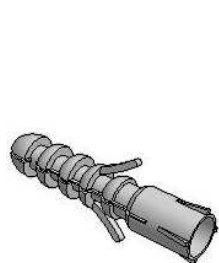
THE UNIT HAS TO BE INSTALLED RESPECTING THE NATIONAL RULES OF ELECTRIC INTALLATIONS.

Make sure to choose the correct location for the air conditioner:

- Choose the perfect location : length of duct as short as possible,
- No obstacle in front of ventilation (helps flow of cold air moving),
- Level the supports in order to avoid vibrations,



1. OUTSIDE WALL
2. INSULATED WALL
3. GRID
4. INSULATED DUCT
5. WINECONDITIONIN UNIT
6. INSULATED DOOR

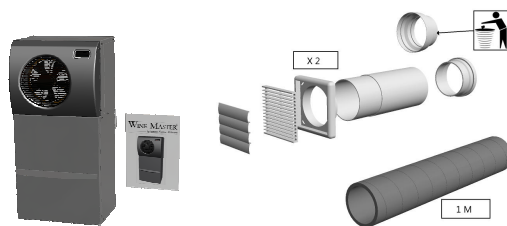


X 8



X 8

Necessary material (not delivered) in order to fix the grids

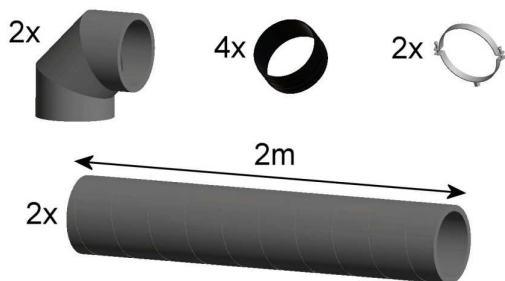


- 2 grids kit with telescopic sleeve (reduction Ø125 non used)
- 1 meter insulated straight pipe Ø 160

Material included in the box

2.1. Ducting Kit installation

2.1.1. Composition of the ducting kit

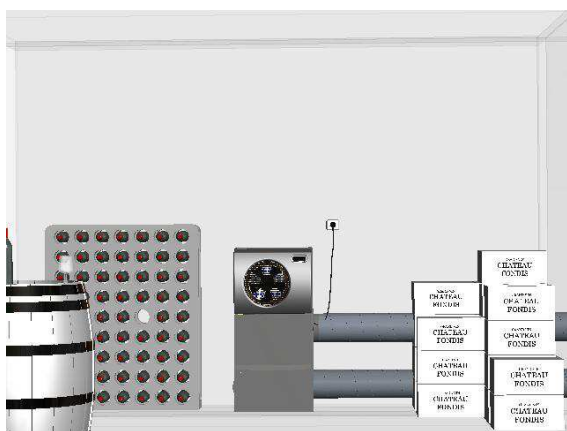
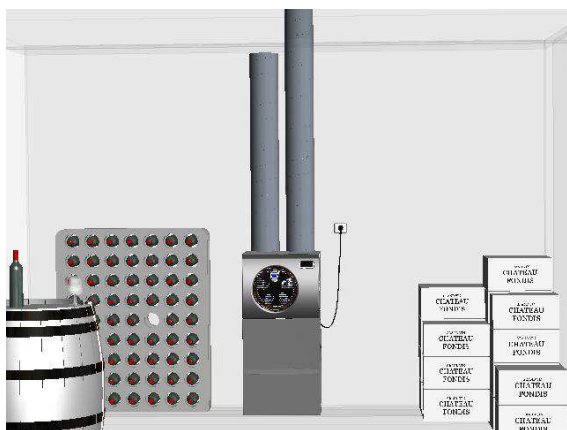


Possibility of ordering an additional kit

- 2x2 meter isolated straight pipe Ø 160 with muff
- 2 Elbow 90° with muff
- 2 Collars

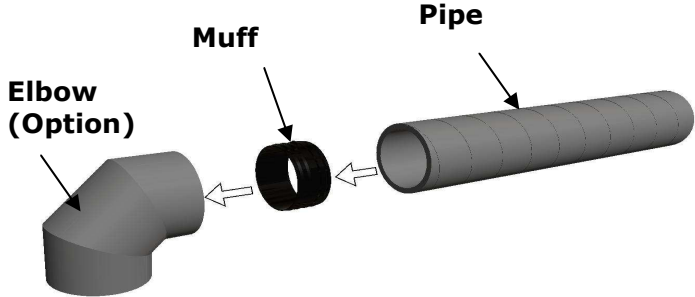
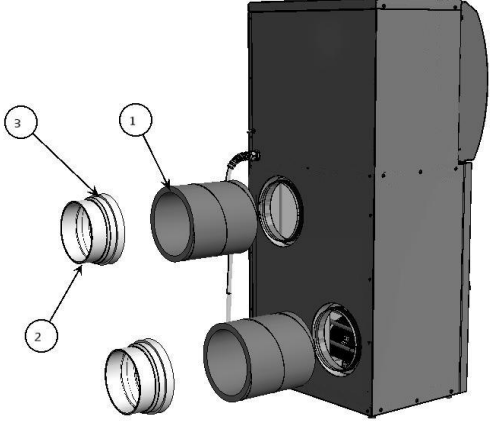
Possibility of ordering additional parts

2.1.2 Examples

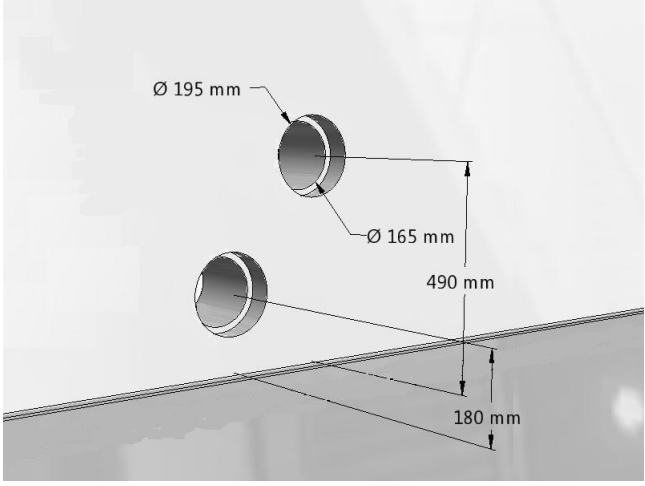


- Guidance in all elbow directions

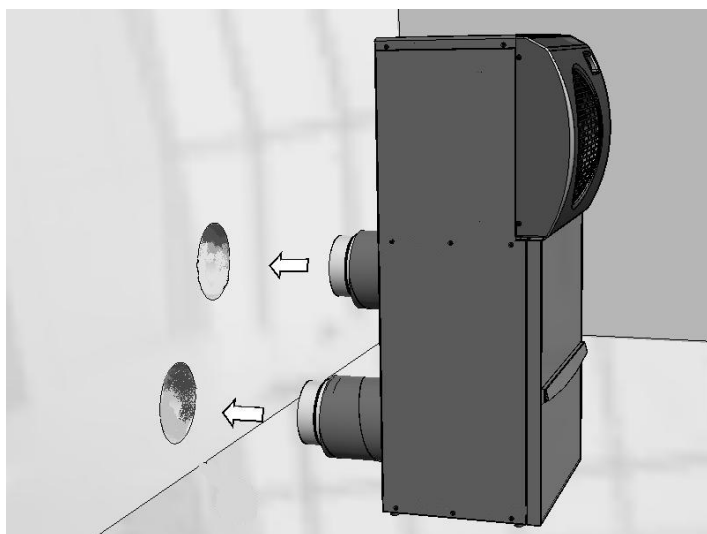
2.1.3 Preparation

	<ul style="list-style-type: none">- Cut the pipe according to the type of installation.- Assembly the various elements with the muff
	<ul style="list-style-type: none">- Fix the air-conditioner on to the isolated pipes.- There is no collar, the pipes are equipped with lip seals- put the reduction with the gasket at the other end of pipe

2.1.4 Wall drilling

	<ul style="list-style-type: none">- Drill 2 holes diameter 165 through the wall to pass the telescopic sleeves.- Increase the diameter to 195mm in the insulation material to integrate the reduction
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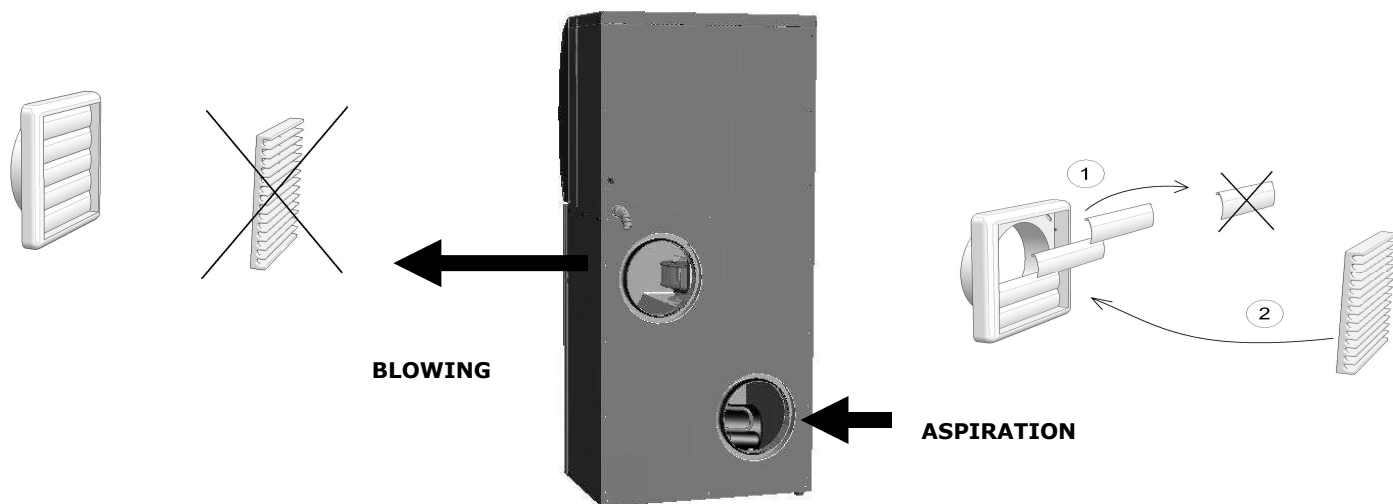
2.1.5 Air conditioner installation



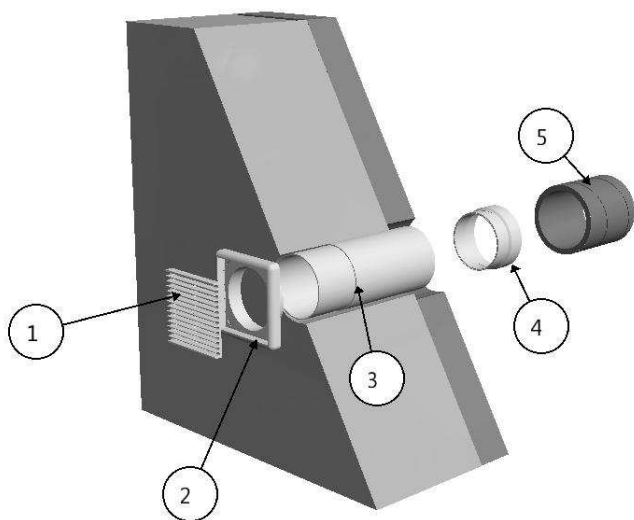
- place the air-conditioner at the site wanted while making pass the sheath through the hole in the insulation

2.1.6 Installation of the grids

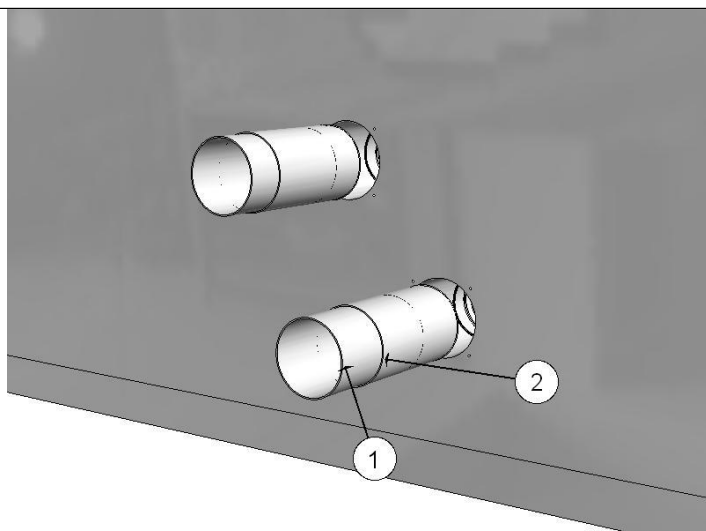
ASSEMBLY DETAILS



ATTENTION ! each case is composed of 2 grids (blowing and aspiration). it is necessary to adapt the type of grid

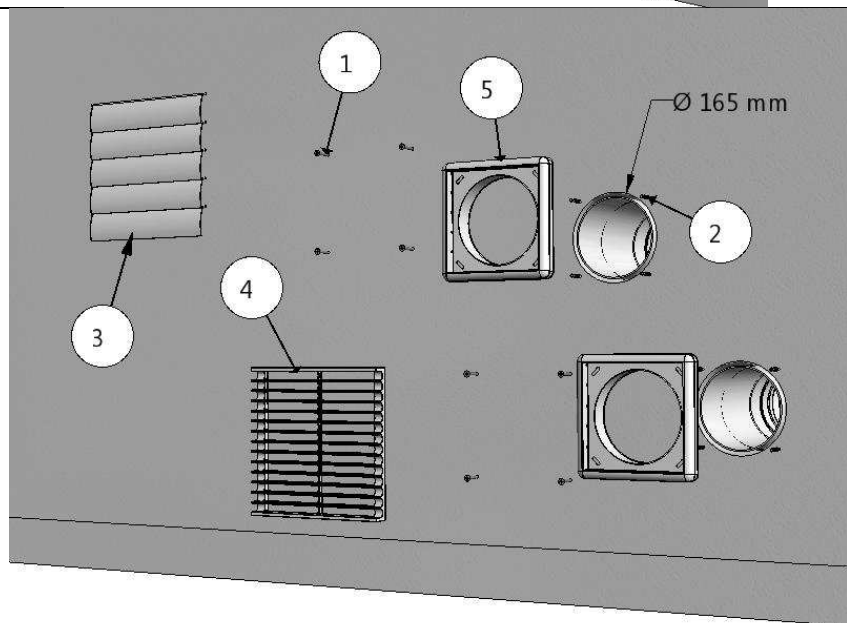


1. Grids
2. Frame
3. Telescopic sleeve
4. Reduction
5. Insulated pipe



- Connect the 2 pipes on the reduction
- fill the vacuum between the telescopic sleeve and the hole of the wall thanks to insulating material. (Polyuréthane foam)

1. Sleeve small part
2. Sleeve great part




- place the frame on the telescopic sleeves
- trace the clamp holes
- Remove the frames, drill and put the ankles
- Put again the frames and screw
- Put the grids and the plates


1. Screw diam 4
2. Ankles nylon
3. Plates
4. Grids
5. Frame (x2)

2.2 Installing the water drainage system and alimentation cable



If the electric cable is damaged, it must be replaced by manufacturer, by his after sales service or similar qualified person in order to avoid a danger.

	<p>1. ALIMENTATION CABLE 2. DRAIN PIPE Ø12mm X 1.5 meter. 3. AJUSTMENT FEET</p> <p> THE PIPE IS ENOUGH LONG TO CROSS THE WALL, REFLECT BEFORE CUTTING IT</p>
<ul style="list-style-type: none">- The condensation drain is done through flexible tube integrated into the air-conditioner.- The flow is done by gravity and must be connected to an evacuation of waste water or in a bucket which will have to be emptied regularly.- THE LEVEL ADJUSTMENT OF THE AIR CONDITIONNER IS VERY IMPORTANT FOR THE FLOW: THIS ONE CAN BE ADJUSTS BY UNSCREWING THE FEET UNDER THE UNIT.	

	<p></p> <p>The DRAINAGE PIPE SHOULD NOT BE WEDGES OR MAKE a LOOP Upwards!</p> <p>The collecting tray is likely to overflow if the pipe is not directed downwards</p>
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↳ Important :

After transport or maintenance, wait for 24 hours before switching on the air conditioner.

3 USING THE WINE CONDITIONING UNIT WINEMASTER®

The thermostat indicates the temperature in the wine cellar with a precision of 2°C. A temperature change of the air doesn't mean the same change of temperature of the liquid due to the thermal capacity of the liquid. The temperature is set at 12°C in the factory. During installation the set temperature must be controlled and adjusted as shown in next paragraph if necessary.

3.1 Connecting the air conditioner WINE IN50+

When you plug the unit to the electrical socket, the display indicates the temperature of the cellar :

- If the cellar temperature \geq to the thermostat setting : the fan starts up immediately
- If the cellar temperature \leq to the thermostat setting : the fan doesn't start. Only the ventilator works.

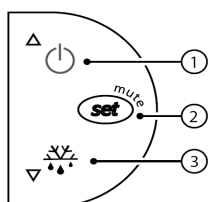






The power outlet must be accessible after installation.

3.2 Plugging in the wine conditioning unit WINE IN50+

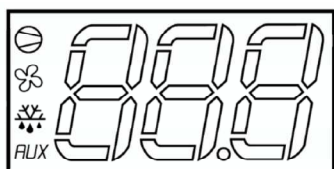
3.2.3 Temperature setting of the air conditioner WINE IN50+





The setting of the targeted temperature is made on the thermostat :



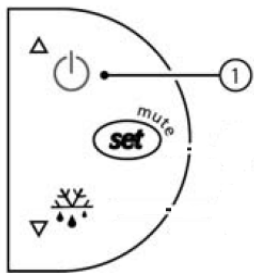
- Press button  one second until the targeted temperature is blinking.
- Use button  to increase the temperature or
- Use button  to lower the temperature.
- When the right temperature is set, press again on button  to confirm.

Explanation of the main display symbols :



- Red light  = cold mode engaged (compressor working)
- Red light  = cooling fan high speed
- Red light  = defrost
- Red light  = heat mode engaged (resistance)

3.3 Stanby mode



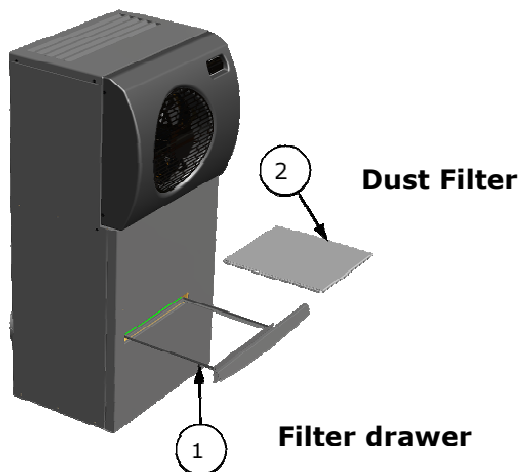
- Stanby mode : maintain a 3 seconds pressure on button 1. The compressor stops and the fan turn at low speed.
- The thermostat indicates « OFF » and also the cellar temperature.
- To come back, maintain again a 3 seconds pressure on button 1.
- The thermostat indicates « ON » during 1 second.

3.4 Automatic defrost

The program of the IN50+ thermostat will run an automatic defrost time several times a day. During this operation, the compressor is stopped, only the fan is functioning at low speed. The condensate water producing during this period will be evacuated through the tube drain.

4 MAINTENANCE OF THE AIRCONDITIONER WINEMASTER®

4.1 Replacing the filter



- Remove the filter (2) from the drawer
- Replace with a **WINEMASTER filter exclusively**
- Close the filter drawer (1)

IMPORTANT :



- Regular filter cleaning (vacuum cleaner)
 - Control : Every 3 month
 - Replacement : Once a year
- SPOILED FILTER = DAMAGED WINE CONDITIONING UNIT

TO DO FOR OUTSIDE GRIDS :

- regular cleaning of outside grids (foliage...). Regarding the use

TO DO FOR THE DRAINAGE PIPE

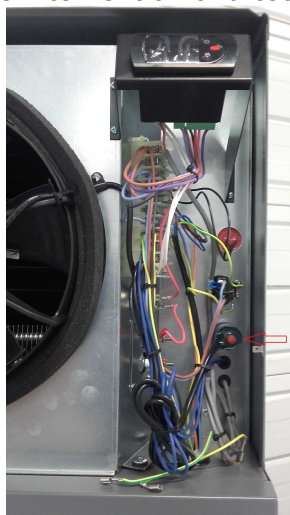
- check if it is not blocked, clean if necessary.

4.2 SECURITY INFORMATION

This air conditioner features a manual reset high pressure safety switch and a self-resetting low pressure safety switch located under the outdoor unit cover.

The high pressure safety switch protects the compressor in case of abnormal pressure rise which can be due to several causes (obstruction of the suction or the blowing of the outdoor unit, clogging of the filter, fan failure of the outdoor unit, poorly ventilated room where the outdoor unit is located, proximity to obstacles disturbing the air flow ...).

In the event of lockout, the simple resetting of the device after deleting the cause is sufficient (see attached). In all other cases, the intervention of a technician is necessary. The low-pressure safety device protects the compressor in case of certain malfunctions (evaporator ice setting, bad exchange on the evaporator, low outside temperature at starting, fan failure of the indoor unit, lack of fluid due to leakage ...). However, is being a device with automatic reset, it is appropriate in the case where the problem persists to stop the air conditioner until the intervention of a technician.



4.3 Thermostat wiring

	<ol style="list-style-type: none">1. purple (fan speed)2. red (heating resistance)3. Brown (power phase)4. Black (compressor)5. brown (alimentation phase)6. blue (neutral)7. red (probe)8. white (probe)
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If you remove the front cover, tighten the ground screw (marked \perp) with a screwdrivers with a tightening torque of 1,5 N.m

4.4 Condensate drain

Check and clean at least once a year the drain (possible clamping)

5 WARRANTY

5.1 Legal warranty

The contractual warranty is not exclusive, earnings for the benefit of the purchaser profit of the legal warranty against defects or hidden defects that applies under the conditions of article 1641 and following from the customer code.

5.2 2 years contractual warranty

WINEMASTER offers a 2 years warranty against any manufactured defect.

During this period of contractual warranty, WINEMASTER will replace any acknowledge defective part
Les interventions et retours devront être réalisés seulement après accord écrit du service après-vente FONDIS.

In case of electric failure, WINEMASTER reserves the right to send an expert technician to inspect the appliance before replacing any defective parts.

In case of refrigeration failure, WINEMASTER may require that the appliance is returned to the factory for repair.

Interventions and returns can only be done after written agreement from WINEMASTER after sale Service.

5.3 Warranty conditions

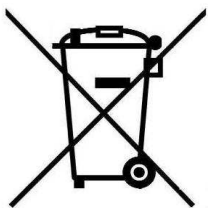
The contractual warranty applies to all appliances installed and used in conformity with this « User Manual". His application is conditioned by the presentation of the purchase invoice or for lack of its copy.

5.4 Exclusions and limitations of warranty

The warranty can refused in following cases:

- Insulation of the cellar or installation of the appliance not in compliance with the instructions of this guide.
- Damage due to negligence, lack of maintenance or incorrect use of the WINEMASTER® (particularly dirty filters).
- Exchange or repair of parts under warranty will not extend the 2 years warranty period
WINEMASTER cannot, in any case, be held liable for any direct or indirect damages resulting from the failure of the air conditioner. The warranty is exclusively limited to the product itself.

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The European Community attaching a great importance to the environment and the waste processing, set up Directive 2002/96/CE relating to the Electric and Electronic Component waste.

In accordance with this standard, the logo "barred dust bin" is obligatory.

This logo means that this product cannot be thrown in the household shelter. It must be given to a suitable collection point for the treatment, valorisation, recycling of Electric and Electronic components.

Acting like that you make a gesture for the environment and you contribute to the safeguarding of the natural resources as well as to the protection of human health.