

# metos

## ICE FLAKE MAKER WITHOUT BIN

AIR-CONDENSED  
WATER-CONDENSED

TYPE: Muster 350, Muster 800

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### Installation and Operation Manual

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Dear Customer,

Congratulations on deciding to choose a Metos appliance for your kitchen activities. You made an excellent choice. We will do our best to make you a satisfied Metos customer like thousands of customers we have around the world.

Please read this manual carefully. You will learn correct, safe and efficient working methods in order to get the best possible benefit from the appliance. The instructions and hints in this manual will give you a quick and easy start, and you will soon note how nice it is to use the Metos equipment.

All rights are reserved for technical changes.

You will find the main technical data on the rating plate fixed to the equipment. When you need service or technical help, please let us know the serial number shown on the rating plate. This will make it easier to provide you with correct service.

For your convenience, space is provided below for you to record your local Metos service contact information.

METOS TEAM

Metos service phone number:.....

Contact person:.....



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# 1. General

Carefully read the instructions in this manual as they contain important information regarding proper, efficient and safe installation, use and maintenance of the appliance.

Keep this manual in a safe place for eventual use by other operators of the appliance.

The installation of this appliance must be carried out in accordance with the manufacturer's instructions and following local regulations. The connection of the appliance to the electric and water supply must be carried out by qualified persons only.

Persons using this appliance should be specifically trained in its operation.

Switch off the appliance in the case of failure or malfunction. The periodical function checks requested in the manual must be carried out according to the instructions. Have the appliance serviced by a technically qualified person authorized by the manufacturer and using original spare parts.

Not complying with the above may put the safety of the appliance in danger.

## 1.1 Symbols used in the manual



This symbol informs about a situation where a safety risk might be at hand. Given instructions are mandatory in order to prevent injury.



This symbol informs about the right way to perform in order to prevent bad results, appliance damages or hazardous situations.



This symbol informs about recommendations and hints that help to get the best performance out of the appliance.

## 1.2 Symbols used on the appliance



This symbol on a part informs about electrical terminals behind the part. The removal of the part must be carried out by qualified persons only.

## 1.3 Checking the relation of the appliance and the manual

The rating plate of the appliance indicates the serial number of the appliance. If the manuals are missing, it is possible to order new ones from the manufacturer or the local representative. When ordering new manuals it is essential to quote the serial number shown on the rating plate.

## 2. Safety instructions

### 2.1 Safe use

To guarantee the efficiency of the automatic ice flake maker equipped and to ensure its proper operation, it is essential to adhere to the directions provided by the manufacturer and to make sure that any maintenance work is carried out exclusively by professionally qualified staff. The appliance is designed to be used by adult persons. Prevent any children to gain access to it, for example playing with it.

#### 2.1.1 Modifications

Modifying or trying to modify this appliance, in addition to rendering any form of warranty null and void, is extremely dangerous.

### 2.2 Safety instructions in case of malfunction

Under no circumstances, try to repair the appliance yourself, since any intervention on the part of persons who are not competent, in addition to being dangerous, may cause serious damage to it. In the event of a failure, contact the dealer who sold you the appliance; he will be able to give you the address of your nearest Authorized Technical Service Centre. We recommend that you insist on having always and exclusively original spares.

### 2.3 Disposal of appliance

Should you decide to scrap your automatic ice flake maker, first disconnect the power supply cable from the mains, and then cut the cable off. In addition, proceed as follows:

- Break and remove the door in order to prevent the possible danger of a child getting trapped inside.
- Make sure not let the coolant gas and oil contained in the compressor into the environment.
- Dispose of or recover the various materials according to the requirements of current regulations valid in your country.



This appliance does not contain coolant that damages the ozone layer.



## **3. Functional description**

### **3.1 General**

In making ice flake only cold, pure drinking water, should be used. Because ice flakes are mainly used for cooling of beverages for internal use, shall the quality of water used in making ice flake be considered as important as the pureness and good storage of any other food products.

### **3.2 Designed use of appliance**

Your ice flake maker is designed only for the production of ice flakes.

#### **3.2.1 Other than instructed use**

Any use of the automatic ice flake maker other than for the production of ice flakes, from cold drinking water, is to be considered as improper use.

### **3.3 Structure**

The supporting structure of the ice flake maker is of steel and the outer panels are of stainless steel.

## 4. Use instructions

### 4.1 Use

In making ice flakes, only cold, clean drinking water, should be used. Because ice flakes are mainly used for cooling of beverages for internal use, shall the quality of water used in making ice flakes be considered as important as the pureness and good storage of any other food products.

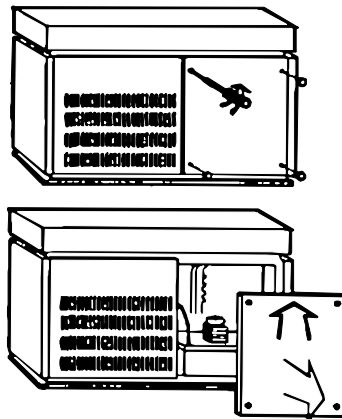
#### 4.1.1 Preparations



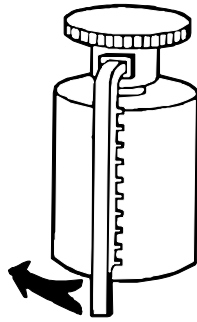
The follow operations must be carried out by professionally qualified and authorized staff.

Turn on the water supply taps.

Upon startup, check the direktion of rotation of the scraper.



Loosen off the screws that hold the right-hand front panel.



Check that the scraper is turning in the clockwise direction.

## 4.2 After use

### 4.2.1 Cleaning



Unplug the power cable from the socket, before you start cleaning operations.

For cleaning operations from surfaces, including subsequent ones, use an ordinary detergent for washing dishes or a solution of water and 10 % of vinegar. It's recommended not to use abrasive detergents or powders, since these might damage the surfaces.



All cleaning operations must be carried out only after the power and water supply have been disconnected as described previously.

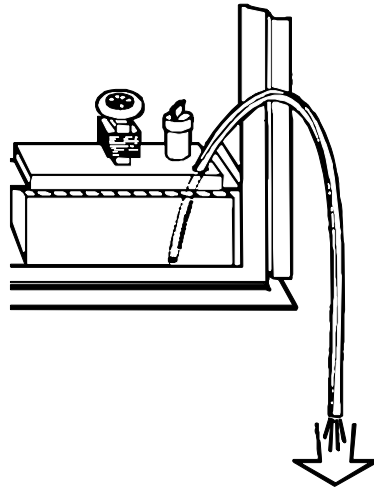


For cleaning operations from inside and disinfection of the appliance must be carried out by professionally qualified and authorized staff.

## 4.2.2 Layup

If you do not intend using the automatic ice flake maker for a certain period of time, proceed as follows:

- Unplug the power cable from the socket.
- Shut off the water supply by turning off the taps provided during installation.
- Remove the water from the basin (see fig.).



## 5. Installation

### 5.1 General

The automatic ice flake maker is delivered attached to a special wooden pallet and protected with cardboard packaging. Installation must be carried out exclusively by qualified and authorized staff, in compliance with current national standards and following the manufacturer's instructions.

#### 5.1.1 Using conditions

The best performance of the automatic ice flake maker is achieved at a room temperature of 20°C and a water supply temperature of 15°C. You are advised to install the appliance with a room temperature of between 10°C and 35°C, and a water supply temperature of between 3°C and 25°C. Avoid installing the appliance where it may be exposed to direct sunlight or near to heat sources, such as radiators, stoves, dish-washers, etc.

### 5.2 Possible disturbances from environment (to environment)

If installation is carried out incorrectly, damage and/or injury may ensue to the environment, persons, animals or things. The manufacturer declines all responsibility for any such damage or injury.

### 5.3 Storage

The net weight and the weight including packaging of the ice flake maker are given on the cover of the packaging. In order to prevent the oil contained in the compressor from flowing into the coolant circuit, make sure to transport, store, and handle the automatic ice flake maker always keeping it standing upright. Follow the instructions given on the packaging.

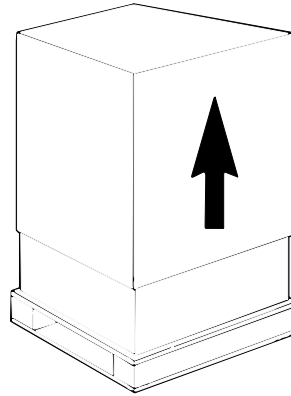
The special wooden pallet, built so that it can be lifted with a fork-lift truck, enables the appliance to be moved around using ordinary means of handling and lifting.

### 5.4 Preparing installation

Make sure, that the ice flake maker will be installed on an perfectly level. Avoid installing the appliance near heat sources. A floor drain should be found near of the place of installation. The maximum distance being 5 m. Make sure that the meltwater pipe presents a slope of at least 15 % throughout its entire length.

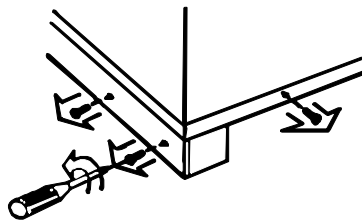
## 5.5 Unpacking

Remove the cardboard packaging by cutting the straps that hold it in place; then slide it off from the top.

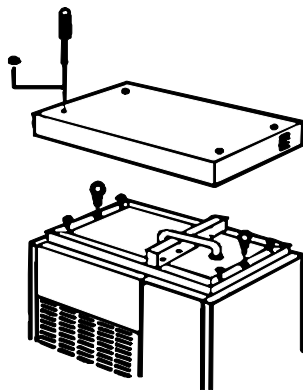


Once you have removed the packaging, make sure that the automatic ice flake maker is in perfectly good condition. If you are in any doubt, do not use it and contact immediately the dealer who sold it to you.

Unscrew the screws that fasten the ice flake makers to the wooden pallet.



The appliance is provided with special threaded holes for attaching eyebolts. To reach these holes, remove the upper panel by loosening off the fixing screws. Make sure to use eyebolts with threads that match the internal threads of nuts welded on the frame.



## 5.6 Disposal of packaging

All the packaging items (plastic bags, cardboard, polystyrene foam, nails, etc.) must not be left within reach of children, in that they are potential sources of danger.

## 5.7 Installation

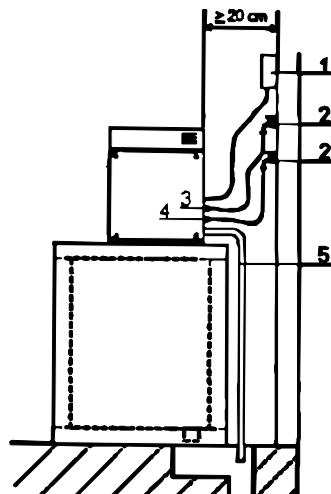
The ice flake maker can be installed on a shelves or on a container.

If the ice flake maker installing on the existing structure, it's recommended doing the technical checking, that come out if the structure are strong as necessary.

If the ice flake maker installing on a container on our production, the direction be found along the container.

Use a spirit level to check that the ice flake maker is standing perfectly level

## 5.8 Placing of appliance



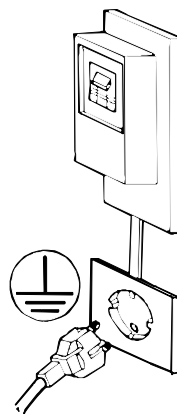
1. Power supply socket
2. Water taps
3. Water supply pipe, ice production
4. Water supply pipe, condensation
5. Water outlet pipe

## 5.9 Connection to power supply mains

The electrical wiring system scheme is attached inside of the rear panel of the ice flake maker.

To reach this, unplug the power cable from the socket, loosen the screws, which fasten the front panel and slide it away.

Electric safety of the automatic ice flake maker is achieved solely when the appliance is properly connected to an efficient earthing system made in compliance with current national safety standards. Make sure that this fundamental safety requirement is respected and, if you are in any doubt, ask for a thorough check of the electric system by professionally qualified and authorized staff. The manufacturer declines all responsibility for damage and/or injury that might ensue from any failure to earth the system properly. It is essential that the electrical wiring system where the appliance is to be installed should have adequate current carrying capacity for the maximum power of the appliance, as shown on the data plate. To achieve a proper and safe installation of the automatic ice flake maker, it is necessary to provide an appropriate earthed socket, with a contact-opening gap of no less than 3 mm, in accordance with current national safety standards. This switch must moreover be equipped with fuses (see fig.).



Make sure to unroll the power supply cable to its entire length and check that it is not squeezed in any way.

## 5.10 Connection to water mains

The automatic ice flake maker is designed solely for producing ice flakes and must be fed exclusively with cold water for human consumption (drinking water).

The running pressure must be between 0.1 and 0.6 MPa.

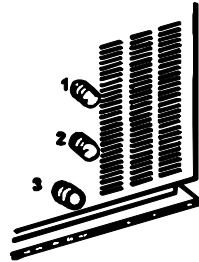
Connection to the water mains must be made following the manufacturer's instructions by professionally qualified staff.

Between the water mains and the charge pipe of the automatic ice flake maker, a tap must be installed so that the water supply may be shut off if need be.

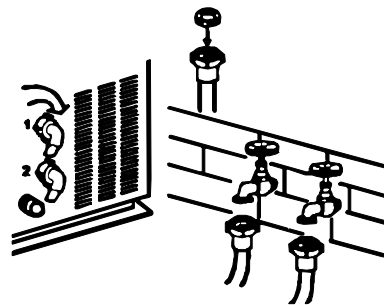


Where the feed water is particularly hard, you are advised to install a softener. Any solid particles (e.g., sand) may be eliminated by installing a mechanical filter, which must be periodically inspected and cleaned. These filters must be in compliance with the relevant national standards in force.

Obs! The ice flake maker is equipped with two different valves for water supply and with one valve for water outlet (see fig.).



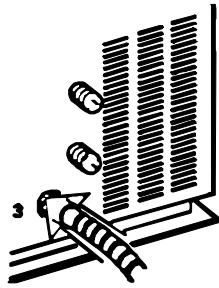
1. Water for ice production
2. Water for condensation
3. Water outlet



Insert the special seals in the two threaded ring nuts of the water charge pipe with which the automatic ice flake maker comes supplied (see fig.) Without exerting excessive force in order not to risk cracking the unions, firmly tighten a threaded ring nut on the outlet of the solenoid valve located in the back of the ice flake maker. Insert other water outlet pipe in the same way.

The other threaded ring nut must be screwed on the water tap.

Insert the water outlet pipe in the housing provided in the back of the ice flake makers (see fig.).



Make sure that:

- The internal diameter of the pipe is 22 mm, as required.
- The water outlet pipe is not throttled in any point throughout its length.
- The outlet pipe get down at least 15 % downwards on its entire length and there are no air pockets in the pipe.
- Direct the water outlet pipe into an open drain trap.

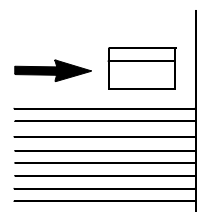
## 5.11 Ventilation

Do not obstruct the ventilation and heat-dissipation grills, since poor aeration, in addition to reducing efficiency and causing poor operation, may also cause serious damage to the appliance.

## 6. Troubleshooting

Should the appliance fail to produce ice, before calling on the Authorized Technical Service Centre, first check carefully that:

- The water supply tap provided in the installation phase is open (see fig.).
- The electric power is reaching the appliance, the plug is properly inserted, and the corresponding switch is in the “on” position.
- In the event of excessive noise, check that the appliance does not come into contact with furniture or sheet metal that may cause noise or vibrations.
- Should any traces of water appear, check that the discharge pipe of the container is not obstructed, that the water feed and discharge pipes are correctly connected up and do not present any throttling or damage.



Once the above checks have been made, if the appliance were still to present malfunctioning, switch off the power supply via the switch provided during the installation phase, pull out the plug from its socket, close the tap connecting the appliance up to the water supply, and call the nearest Authorized Technical Service Centre.

In order to obtain a faster and more efficient intervention, when you call the Centre, indicate the model of the appliance precisely, and its serial number. These can be read on the matriculation lable stuck on the rear of the appliance or on the cover of this manual (see fig.).

MALFUNCTION	Possible cause	Operation
Ice flake maker does not function	Appliance does not function	Check power supply
	Thermostat in the container does not func.	Change the thermostat
	Safety thermostat of the condenser does not function.	Change the thermostat
	Safety pressure switch has cut off	Settle the pressure switch
	Evaporator safety thermostat does not func	Change the thermostat
	Gearmotor klikson does not func.	Change the klikson

## Troubleshooting

Appliance functions, but does not make proper ice	There is no coolant gas	Find leakage, fix it, vacuumize and fill up
	Warm gas valve leaks	Fix or change the valve
	Compressor does not pump	Change the compressor
	Air condensed models	Check the fan, change if needed
	Condenser fan does not function	Check the function. of the pressure switch
Water container receives no water	Solenoid valve does not open or is blocked	Change the valve
Water spraying does not function	The water pump does not function	Check the pump, change if needed
	The suction sieve of the water basin is obstructed	Clean the sieve
	The waterpipes are obstructed	Clean the waterpipes
	The nozzles are obstructed	Clean the nozzles
Appliance does not stop when the container is filled	The thermostat of the ice-cube container	Check the probe, adjust/change the thermostat
Safety thermostat for overheating stops the appliance	The water supply valve does not open	Change the pressure switch
		Check the valve, change if needed
Lack of water	Water supply or drain pipe is not connected	Check the connections
	The water pump leaks	Change the pump
Noisy or leaking water pump	Malfunctioning bearings	Change the pump
Compressor is noisy or functions irregularly	Malfunctions in the electrical system	Check the electrical system
	Start condenser is malfunctioning	Change the condenser
	Start relay is malfunctioning	Change the relay
	Uneven start	Change the compressor
	Shakes at start up	Change the compressor
Waterpump does not function	Extremely noisy functioning	Change the compressor
	The pump is mechanically stuck	Fix or renew the pump
Ice-cube production reduces	The pump makes stops	Renew the pump
	The condenser or the air filter is obstructed	Clean the condenser or the filter
	Not enough liquid	Find leakage, fix it, vacuumize and fill up
The evaporator safety thermostat does not function	The suction valves of the compressor leak	Renew the compressor
	The evaporator receives not water	Check the water intake
	The gearmotor does not run	Check the gearmotor and the fuses
The gearmotor break or leaking oil	The gearmotor locked	Renew the motor or the gear reducers
	The gearmotor does not start	Renew the gearmotor run capacitor
	Dirty evaporator	Clean or change the evaporator
	Wron O-ring	Change the oil and the O-ring

## **7. Technical specifications**

**Electric diagram Muster 350**

**Electric diagram Muster 350**

**Electric diagram Muster 350 (valid from 2006 05 25)**

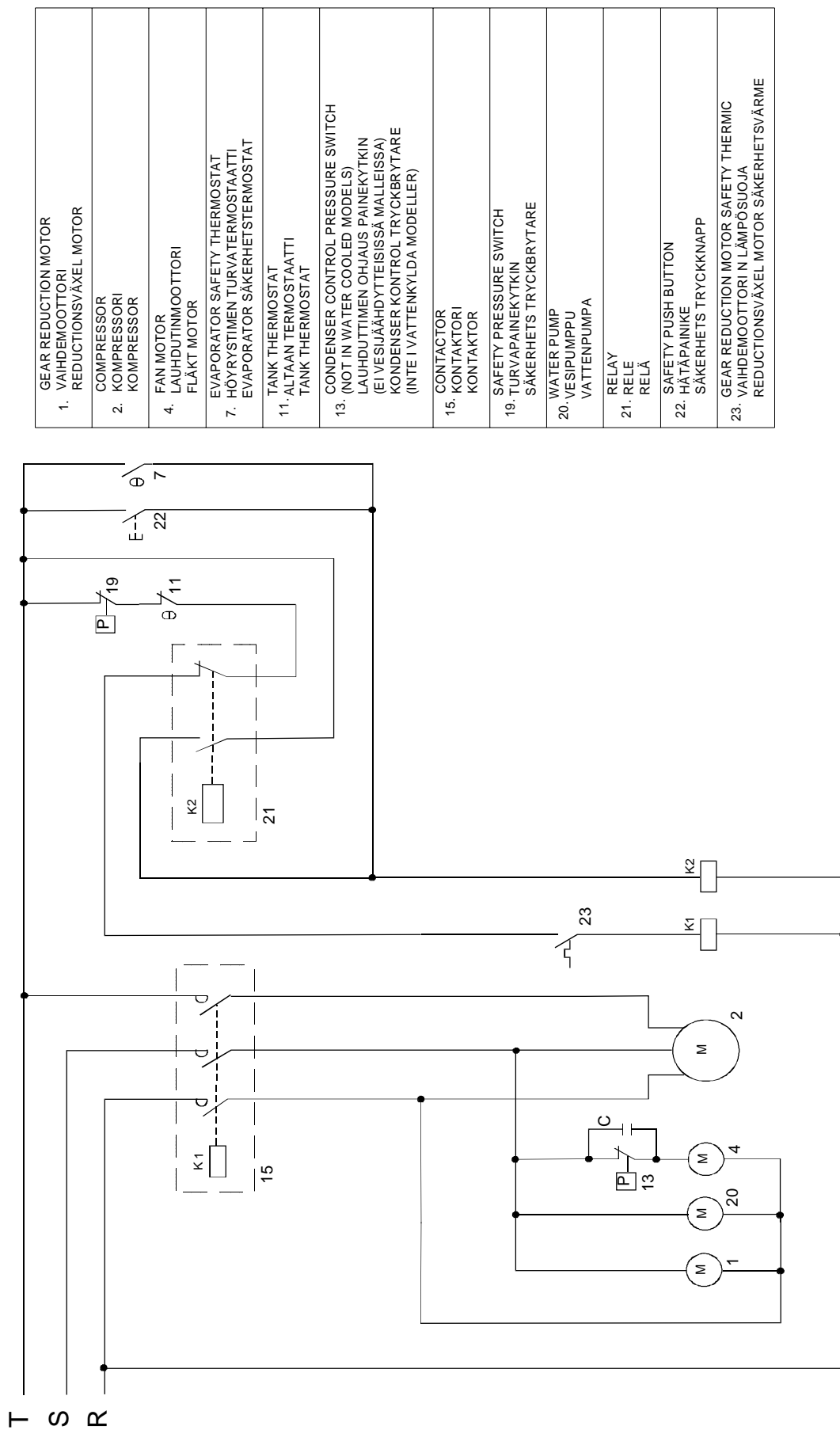
**Electric diagram Muster 800 (valid from 2006 05 25)**

**Installation drawing Muster 350**

**Installation drawings Muster 800**

**Installation on double roller bin**

# ELECTRIC DIAGRAM / SÄHKÖKAAVIO / ELSCHEMA

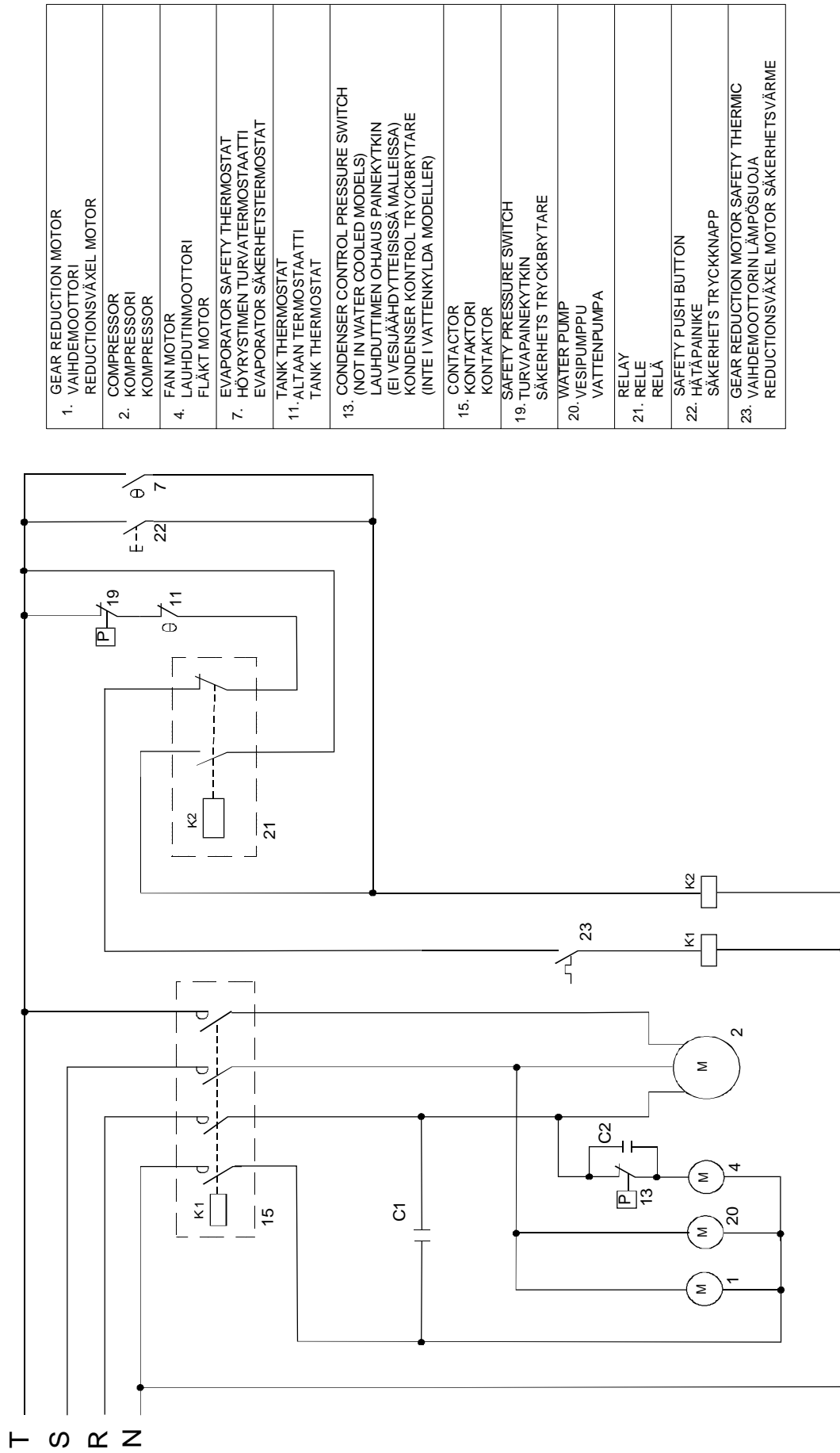


GEAR REDUCTION MOTOR 1. VAIHDEMOOTTORI REDUCTIONS/ÅXEL MOTOR
COMPRESSOR 2. KOMPRESSORI KOMPRESSOR
FAN MOTOR 4. LAUHDUTINMOOTTORI FLÅKT MOTOR
EVAPORATOR SAFETY THERMOSTAT 7. HÖRYSTIMEN TURVATERMOSTAATTI EVAPORATOR SÄKERHETSTERMOSTAT
TANK THERMOSTAT 11. ALTAAN THERMOSTAATTI TANK THERMOSTAT
CONDENSER CONTROL PRESSURE SWITCH 13. (NOT IN WATER COOLED MODELS) LAUHDUTTIMEN OHJAUS PAINKEYTKIN (EI VESIJÄÄHDYTYKKEISSÄ MALLEISSA) KONDENSER KONTROL TRYCKBRYTARE (INTE I VATTENKYLDA MODELLER)
CONTACTOR 15. KONTAKTORI KONTAKTOR
SAFETY PRESSURE SWITCH 19. TURVAPAINKEYTKIN SÄKERHETS TRYCKBRYTARE
WATER PUMP 20. VESIPUMPPU VATTENPUMPA
RELAY 21. RELE RELÅ
SAFETY PUSH BUTTON 22. HÄTAPAINIKE SÄKERHETS TRYCKKNAPP
GEAR REDUCTION MOTOR SAFETY THERMIC 23. VAIHDEMOOTTORIN LÄMPÖSUOJA REDUCTIONS/ÅXEL MOTOR SÄKERHETSVÄRME

ATTENTION: TAKE CARE THAT THE SCRAPER ROTATES CLOCK WISE  
 HUOMIO: PIDÄ HUOLI ETTÄ KAAVIN PYÖRII MYÖTÄPÄIVÄÄN  
 OBS: KOLLA ATT SKRAPA CIRCULERAR MEDSOLS

M350AW 220-230/3/60  
 COD. 24273 REV.03

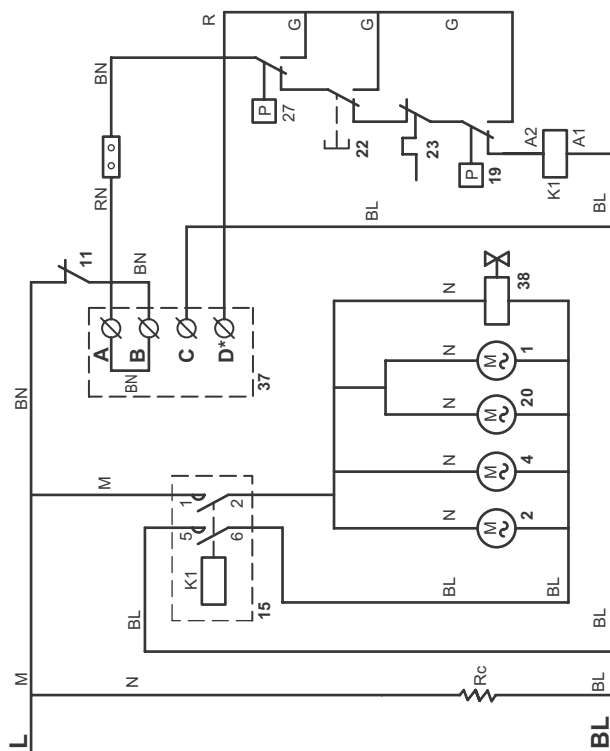
# ELECTRIC DIAGRAM / SÄHKÖKAAVIO / ELSHEMA



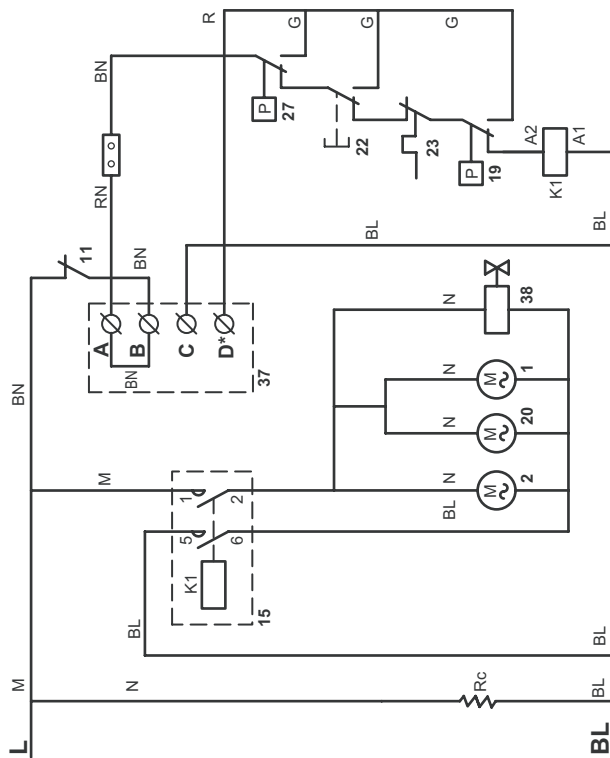
ATTENTION: TAKE CARE THAT THE SCRAPER ROTATES CLOCK WISE  
 HUOMIO: PIDÄ HUOLI ETTÄ KAAVIN PYÖRII MYÖTÄPÄIVÄÄN  
 OBS: KOLLA ATT SKRAPA CIRCULERAR MEDSOLS

M350AW 400/3/50  
 COD. 24204 REV.04

## SCHEMA ELETRICO / ELECTRIC DIAGRAM



VERSIONE AD ARIA / AIR VERSION



VERSIONE AD ACQUA / WATER VERSION

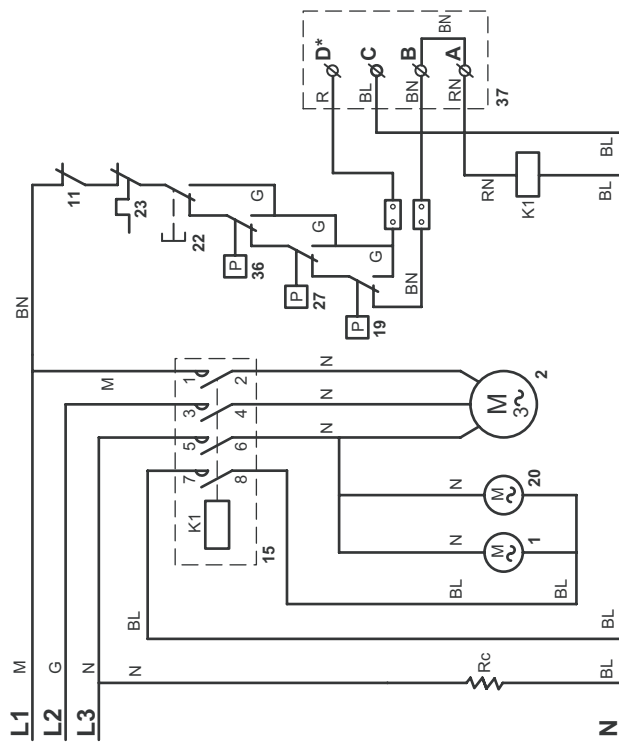
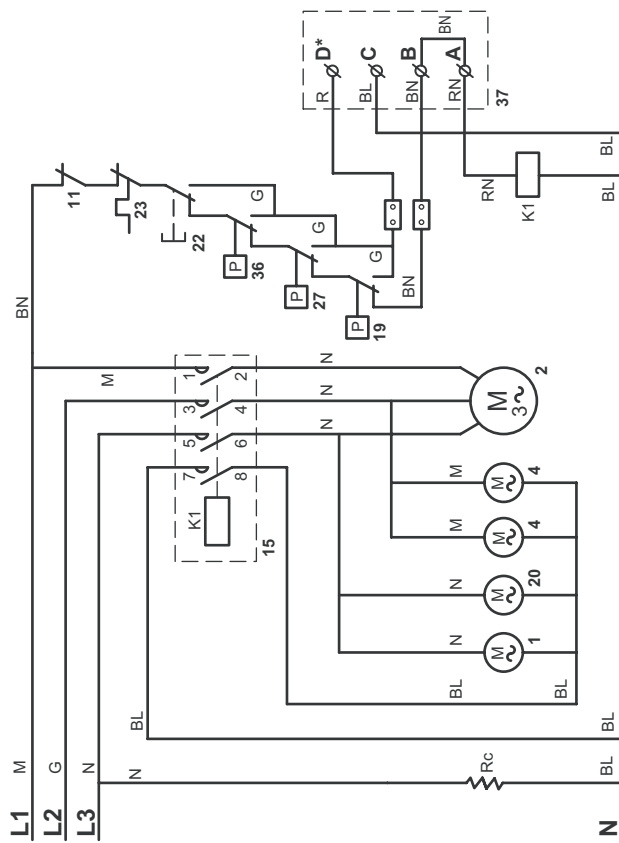
1. MOTORE DEL RIDUTTORE GEAR REDUCTION MOTOR	19. PRESSOSTATO DI SICUREZZA DI ALTA PRESSIONE SAFETY PRESSURE SWITCH (HIGH PRESSURE)
2. COMPRESSORE COMPRESSOR	20. POMPA ACQUA WATER PUMP
4. MOTOVENTILATORE FAN MOTOR	22. PULSANTE DI SICUREZZA SAFETY PUSH BUTTON
11. TERMOSTATO CONTENITORE BIN THERMOSTAT	23. TERMICO DI SICUREZZA MOTORE DEL RIDUTTORE GEAR REDUCTION MOTOR THERMAL PROTECTION
15. TELERUTTORE CONTACTOR	27. PRESSOSTATO DI SICUREZZA DI BASSA PRESSIONE SAFETY PRESSURE SWITCH (LOW PRESSURE)

37. MORSETTIERA PER COLLEGAMENTO A SCATOLA ELETTICA REMOTA O DRB 500 TERMINAL BLOCK FOR CONNECTION TO REMOTE PANEL OR DRB 500
38. SOLENOIDE REFRIGERANTE LIQUIDO LIQUID REFRIGERANT SOLENOID
Rc. RESISTENZA DEL COMPRESSORE COMPRESSOR RESISTANCE
*. NON UTILIZZARE PER COLLEGAMENTO A DRB 500 NOT TO BE USED FOR CONNECTION TO DRB 500

BL = BLU / BLUE  
 BN = BIANCONERO / WHITE-BLACK  
 M = MARRONE / BROWN  
 N = NERO / BLACK  
 G = GRIGIO / GREY  
 R = ROSSO / RED  
 RN = ROSSO-NERO / RED-BLACK



# SCHEMA ELETTRICO / ELECTRIC DIAGRAM

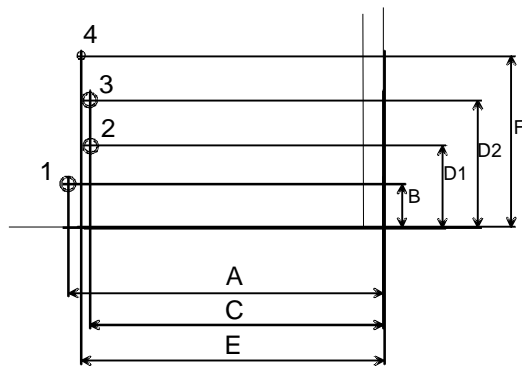
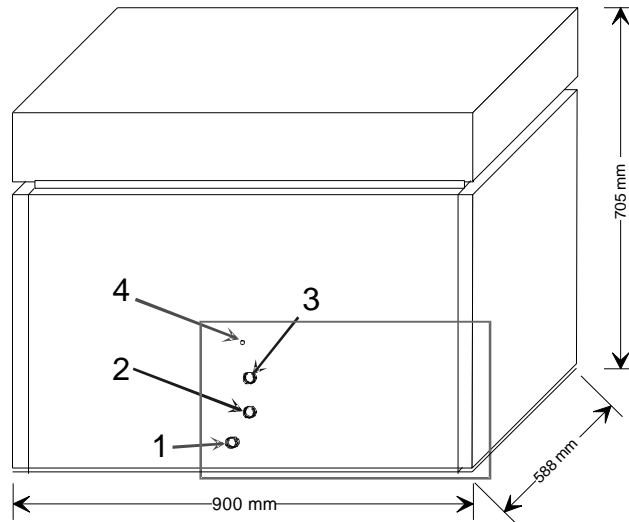


1. MOTORE DEL RIDUTTORE GEAR REDUCTION MOTOR	19. PRESSOSTATO DI SICUREZZA DI ALTA PRESSIONE SAFETY PRESSURE SWITCH (HIGH PRESSURE)	36. PRESSOS. DI SICUREZZA (CIRCUITO DI BASSA PRESSIONE) SAFETY PRESSURE SWITCH (LOW PRESSURE CIRCUIT)
2. COMPRESSORE COMPRESSOR	20. POMPAACQUA WATER PUMP	37. MORSETTIERA PER COLLEGAMENTO A SCATOLA ELETTTRICA REMOTA O DRB 500 TERMINAL BLOCK FOR CONNECTION TO REMOTE PANEL OR DRB 500
4. MOTOVENTILATORE FAN MOTOR	22. PULSANTE DI SICUREZZA SAFETY PUSH BUTTON	
11. TERMOSTATO CONTENITORE BIN THERMOSTAT	23. TERMICO DI SICUREZZA MOTORE DEL RIDUTTORE GEAR REDUCTION MOTOR THERMAL PROTECTION	Rc. RESISTENZA DEL COMPRESSORE COMPRESSOR RESISTANCE
15. TELERUTTORE CONTACTOR	27. PRESSOSTATO DI SICUREZZA DI BASSA PRESSIONE SAFETY PRESSURE SWITCH (LOW PRESSURE)	*. NON UTILIZZARE PER COLLEGAMENTO A DRB 500 NOT TO BE USED FOR CONNECTION TO DRB 500

- BL = BLU / BLUE
- BN = BIANCONERO / WHITE-BLACK
- M = MARRONE / BROWN
- N = NERO / BLACK
- G = GRIGIO / GREY
- R = ROSSO / RED
- RN = ROSSO-NERO / RED-BLACK

Installation drawing Muster 350

MUSTER 350

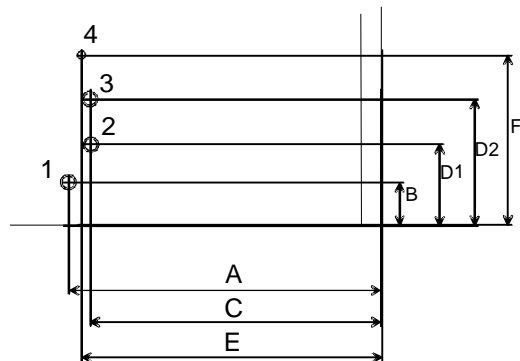
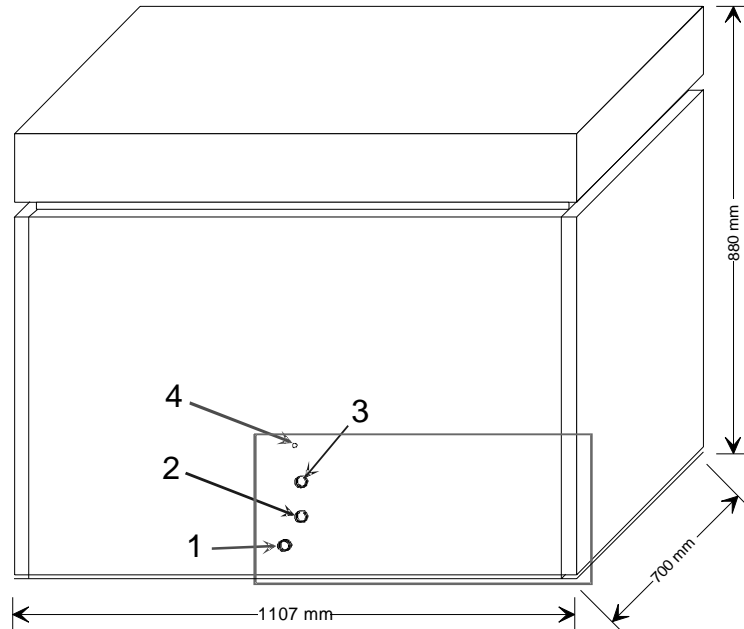


A	472 mm
B	60 mm
C	437 mm
D1	120 mm
D2	187 mm
E	451 mm
F	257 mm

1. Water OUT, diam. 24 mm
2. Water IN, condensator, diam. 3/4"
3. Water IN, evaporator, diam. 3/4"
4. Power cable

Installation drawings Muster 800

MUSTER 800



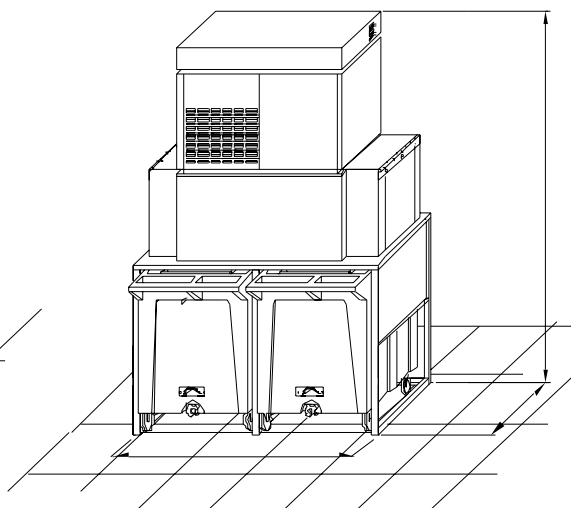
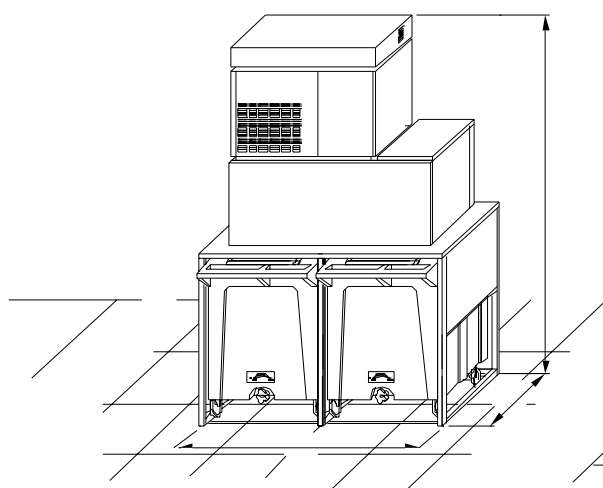
A	575 mm
B	65 mm
C	540 mm
D1	125 mm
D2	192 mm
E	554 mm
F	262 mm

1. Water OUT, diam. 24mm
2. Water IN, condensator, diam. 3/4"
3. Water IN, evaporator, diam. 3/4"
4. Power cable

Installation on double roller bin

DOUBLE ROLLER  
BIN 100 M350

DOUBLE ROLLER  
BIN 100 M800



## Technical specifications

Item	Model	Type	Specification
Production in 24h, till		350	320 kg
Production in 24h, till		800	850 kg
Cooling system		350	A,W
Cooling system		800	A,W
Fluid refrigerant		350	R404A
Fluid refrigerant		800	R404A
Useable bin		350	T400-M350,Double Roller Bin M350
Useable bin		800	T400-M800
Standard voltage		350	220-240/1/50
Standard voltage		800	400/3N/50
Input power		350	2100 W
Input power		800	4600W
Water consumption		350	1 l/kg
Water consumption		800	1 l/kg
Size (WxDxH)		350	900x588x705 mm
Size (WxDxH)		800	1107x700x880 mm
Size (with packing) (WxDxH)		350	965x655x880 mm
Size (with packing) (WxDxH)		800	1210x800x1070 mm
Weight net		350	127 kg
Weight net		800	290 kg
Weight gross		350	150 kg
Weight gross		800	328 kg
Rerfrigerant R404A	A	350	800g
Rerfrigerant R404A	W	350	550g
Rerfrigerant R404A	A	800	1900g
Rerfrigerant R404A	W	800	1200g

A=AIR-CONDENSED, W=WATER-CONDENSED

350=Muster 350, 800=Muster 800

A=3/N/PE~400/230V 50Hz, B=~250V 16A 50Hz, H=3/PE~230V 50Hz, I=3/PE~220V 60Hz, M=3/PE~440V 60Hz