



## Installation description for disperator with separate stand assembly model MB and MC

1. Included in delivery
2. Assembly
3. Flushing water
4. Water trap and drain pipe
5. Electrical connection
6. Operation instruction and final testing

### 1. Included in delivery

#### Documentation

- Product leaflet(s) including photos, dimensioned drawings and article descriptions for the delivered equipment as per the delivery note.
- Electrical connecting and wiring diagram.
- Operation instruction (in plastic).
- Service instruction including exploded view drawing with spare part list and recommendation for service package for preventive maintenance as well as articles subject to wear.

#### Products

- Disperator of the ordered model and motor voltage as per the delivery note and the product leaflet.
- Complete contactor with motor protector, no voltage release and control coil as per the delivery note.
- Complete solenoid valve 1/2" BSP, Female with control coil as per the delivery note.
- Line strainer 1/2" BSP, Female.
- Jam release wrench for freeing rotary grinder if non-grindable object becomes fastened. Please see the operation instruction and the product leaflet.
- Disperator assembly model MB or MC cabinet including:
  - the above solenoid valve and line strainer ready assembled includes flush pipe or nozzle
  - assembled limit switch connected to cover insert/cover guard
  - all electrical connections in the cabinet between the disperator, contactor and motor protector, solenoid valve and limit switch are made ready for service

Please see the enclosed product leaflet.

### 2. Assembly

Please see the enclosed product leaflet(s) for drawings with article descriptions.

#### Assembly of disperator

If not otherwise requested, the MB or MC cabinet is delivered without the legs mounted. All legs are delivered inside the cabinet and should be mounted as the first step of assembly. Two persons should be present when the legs are mounted, to minimize the risk of injuries.

Move the cabinet to the edge of the pallet, make sure that the first pair of leg mounting holes is outside the pallet. Mount the first pair of legs. Place a lift trolley between the first pair of legs and then move the cabinet from the pallet over to the lift trolley. Mount the second pair of legs. The lift trolley should be used to move the cabinet into place.

If not otherwise requested, the MB or MC cabinet is delivered with the disperator outlet on the back of the cabinet. Considering the positioning of the cabinet in relation to the drain connection in floor / floor plate, it is possible to **turn the disperator with outlet** 90° to the left or to the right. If necessary please proceed in the following manner:

Open the front panel of the cabinet. To open the front panel of the cabinet, push the panel upwards and inwards at the same time until the holding catch is lifted over the bottom edge. A rubber packing surrounds around inside edge of the panel therefore a little force may be required to push the panel upwards. A tool, acting as a wrench, may help to release and support the panel. There are no fixing screws holding the panel in position.

To avoid injury when detaching the disperator from the discharge cone, **support the bottom of the disperator** with wooden blocks.

Remove the six nuts which holds the disperator to the flange of the discharge cone and turn the machine with outlet to the desired left or right hand position.

Make sure that gasket between disperator and cone flange is in position before bolting together. Tighten the six nuts evenly.

Punch a hole in the side panel to allow connection of the outlet pipe to the disperator in the new position. For Models with a motor power under 2,2KW the diameter of the hole should be 74mm. For Models with a motor power of 2,2KW or more, a 84mm diameter hole is necessary. On the outer cabinet left and right hand sides two small marks can be found. Use the top mark for models with a motor power under 2,2kW or the lower mark for models with a motor power of 2,2kW or more,



in order to centre this new panel hole for the disposer drain pipe. The original hole for the outlet pipe should be covered by a stainless steel plate screwed to the back panel. This plate can be supplied by Disperator AB as an optional extra.

Re-fit the front cabinet panel.

Adjust all the legs of the machine assembly so they give **proper support** against the floor / floor plate.

### \* Fixing of bench / table / cabinet

The bench / table or cabinet in which the disperator is assembled must be **fixed** to the wall / bulkhead or floor / floor plate. When starting or stopping quickly (e.g. if cutlery mistakenly jams the grinding unit) the torque of the motor will cause the disperator to turn. This may move the drain pipe / water trap from its position causing water leakage.

### 3. Flushing water

Connection of the flushing water to the delivered disperator must only be done by an **authorised installer of water supply and in accordance to valid local regulations.**

#### \* Water pipe 1/2"

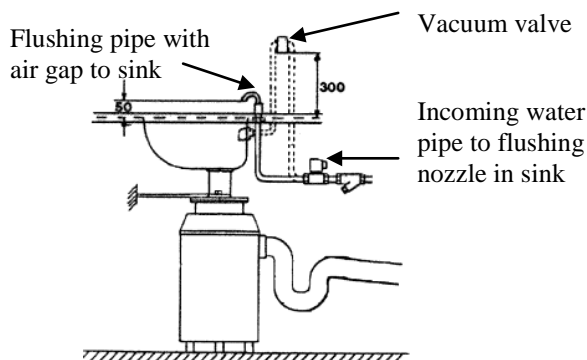
In order to allow a free flow of water to the disperator, the incoming water pipe (incl. accessories in the piping system such as vacuum valve, cut-off valve etc.) must have the same dimension as the connection to the disperator assembly, **i.e. 1/2" through-out.**

#### \* Reinforced flexible hose 1/2" for flushing water

A reinforced flexible hose 1/2" must be fitted between the incoming water pipe mounted on the wall / bulkhead and the connection for flushing water on the disperator assembly. The hose **absorbs the compressive push** in the pipe when the flushing water is turned on, and **absorbs any small vibrations** which may occur during the grinding process of the disperator.

The reinforced flexible hose is not included as standard with the disperator but is available as an option from Disperator. Please specify when ordering the distance between the water connections on the wall / bulkhead and the disperator.

#### \* Vacuum valve 1/2"



The figure shows the positioning of a vacuum valve above a sink assembly. In your case the assembly used may be of another type (not a sink). The positioning of the vacuum valve will however remain the same.

When a flushing nozzle is fitted in a sink / washing line or other type of assembly, **a vacuum valve must be installed** at the top of a lyre-shaped incoming water pipe as shown in figure above.

This protects the water pipe from re-suction during a possible overflow. The vacuum valve is not included as standard delivery.

When a flush pipe with air gap to sink / washing line or other type of assembly, is fitted, no vacuum valve is needed.

### 4. Water trap and drain pipe

The drain connection of the delivered disperator must only be made by an **authorised installer of sewer supply and in accordance to valid local regulations.**

#### \* Dimensions

The water trap and the drain pipe must have **the same dimension as the outlet flange of the disperator**, (i.e. 2" for all models having a motor power under 2.2 kW, and 2 1/2" for all models having a motor power of 2.2 kW or more) in order to allow free waste water flow from the disperator. Larger dimensions than those given above shall also be avoided as this would reduce the speed of the waste water flowing from the disperator.

#### \* Depth and threshold of water trap

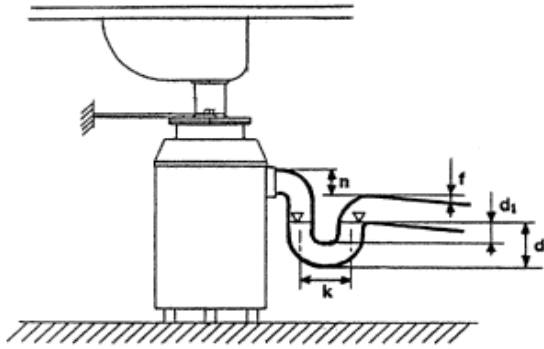
The depth of the water trap (measurement "d" in figure below) shall be **as small as possible** in order to obtain the best possible flow with the largest amounts of food waste. The water trap must also be deep enough so that the **water threshold "d1" is approximately 50 mm.**

#### \* Curves and bends

The water trap and all bends in the drain pipe must be **drawn without sharp bends and curves** according to local standards. The distance "k" in the figure below for models having a motor power under 2.2 kW should be 100-150 mm and for models having a motor power of 2.2 kW or more the distance "k" should be 150-200 mm.

#### \* Level difference

The level difference (measurement "n" in the figure below) must be **at least equal to the inner drain pipe diameter**, i.e. 2" for disperator models having a motor power under 2.2 kW, and 2 1/2" for models having a motor power of 2.2 kW or more.



The figure above shows slope of the drain pipe. For specific installations the disperator may not be of the type shown above. The slope of the drain pipe will however remain the same.

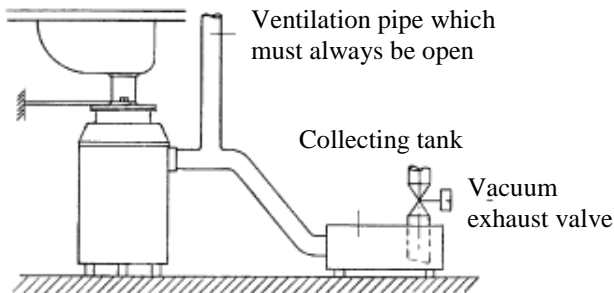
### \* Slope of drain pipe

The slope of the drain pipe ("f" in the figure above) must **not be less than 2:100**. When the rate of flow of food waste is large and / or where the distance from the disperator to the floor drain is great, a slope of **not less than 5:100 should be maintained**.

**Installation of horizontal drain pipes must be avoided at all times.**

As an option, water traps are available from Disperator.

### \* Vacuum Evacuation



In installations where the disperator is evacuated by means of a vacuum, **no water trap** shall be connected to the outlet of the disperator. Instead, the disperator is connected directly to the collection tank of the vacuum system. It is **important** that the drain pipe between the disperator and the collection tank has a **ventilation pipe that is always open** as shown in the figure above. A ventilation pipe must be fitted even if the collecting tank has automatic airing.

## 5. Electrical connection

The electrical connection of the delivered disperator must only be done by **authorised electrician and according to local regulations**.

The electrical connection and wiring to be done is shown on the enclosed diagram. Please note also the following:

### \* Supply voltage

Check that the supply voltage corresponds to the specified voltage on the disperator serial number plate.

### \* Mains fuses

Check that the supply voltage for the delivered model is fused as specified in the enclosed product leaflet.

### \* Line breaker

A separate line breaker shall be connected if it is required by local regulations. The line breaker is not included as standard delivery for the disperator, but can be supplied as an option.

### \* Cable dimension

Use connection cable having 1.5 mm<sup>2</sup> wire area for disperators with rated current **up to 14A**. For disperators with rated current **above 14A** use cable having 2.5 mm<sup>2</sup> wire area. The rated voltage and current for the disperator is given on the disperator serial number plate.

### \* Cable protection

All electrical cable must be **protected against damage** by being securely fastened, for example to the assembly frame work and wall / bulkhead.

If there is a risk that the cables can be damaged, for example, by passing trolleys then the cables must be **protected by flexible sleeving or conduit**.

### \* Earth wire

**The earth wire shall be longer** than main voltage wires when connecting to the cable terminal block. This gives earthing protection if the voltage wires become insecure in the cable nipple allowing them to be pulled from their terminals.

### \* The disperator's direction of rotation

The disperator's grinding and pumping operations function correctly irrespective of the motor's rotational direction. It is therefore irrelevant in which sequence the electrical phases are connected.

### \* Limit switch

Check the operation of the limit switch. **The limit switch must break the control circuit and stop the disperator** at least 5 seconds before the protection cover / cover insert of the assembly can be released and raised.

If necessary, finely adjust the position of the switch and check that it is **properly fixed**.



### **6. Operation instruction and final testing**

Secure the operation instruction (enclosed in plastic) **by screwing** it to the wall / bulkhead in a position where it is easily seen by the operator before starting the disperator.

Check that the rotary shredder in the inlet opening of the disperator turns freely in both directions by hand, and make sure that no foreign object has been dropped into the grinding unit during the installation.

Start the disperator and determine that the rotary shredder revolves and that flushing water flows automatically.

Check assembly, flushing water connections and plumbing connections for possible leaks.

If the disperator fails to operate, please refer to the section on "Trouble shooting" in the instruction for operation.

Instruct the person responsible for the machines in the galley / kitchen about the operation of the disperator before handing over the remaining documentation and the jam release wrench.