



1. Included in delivery
2. Assembly
3. Flushing water
4. Waste drain pipe to tank
5. Electrical connection
6. Start-up and final testing

1. Included in delivery

1.1 Documentation

- * Product leaflet including photos, dimensioned drawings with article descriptions and technical specification for the delivered equipment according to delivery note.
- * Electrical layout, connection and wiring diagram.
- * Operation instruction (in plastic).
- * Service instruction for the grinder from the 500-Series, including exploded view drawing with spare part list and recommendation for service package for preventive maintenance as well as articles subject to wear.
- * Operation & maintenance instruction for the processor pump made by NETSCH.

1.2 Product

Food waste processor in the GTS-Series of the ordered model and connection voltage as per the delivery note, product leaflet and electrical diagram including:

- * ready connected grinder from the 500-Series,
- * ready connected processor pump including temperature monitor,
- * processor electrical control unit including contactors with motor protectors, no-voltage release, control coils, timers and transformer for pump temperature monitor,
- * ready connected control devices, 2 units with push buttons and indication lamps,
- * ready connected run time meter (optional),
- * ready connected solenoid valve 1/2" BSP, Female with control coil and line strainer,
- * water flushing nozzle as standard (ready assembled in discharge cone), or optional water flush pipe (for connection on cabinet top plate),
- * ready connected magnetic limit switch for feed inlet hood with contact protection,
- * adjustable fixing brackets, 2 pcs. for fixing cabinet to wall on the installation site,
- * backsplash cover, 1 pc. to be fixed to cabinet on the installation site,
- * feed inlet hood, 1 pc. with two knobs for assembly above grinder inlet cone,
- * jam release wrench, 1 pc. for freeing rotary grinder if non-grindable object becomes fastened.

2. Assembly and fixing of GTS-processor

For articles mentioned below, please see the enclosed product leaflet, page 2 for pictures with article descriptions.

2.1 Assembly of backsplash cover

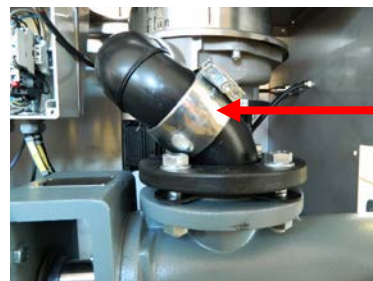
Facing the GTS front, the inlet discharge cone with grinder, and the processor pump outlet have been assembled in left or right hand position according to your order and the by Disperator enclosed delivery note.

The backsplash cover shall be fixed against the outer side of the cabinet top plate in such a way that one side of the cover is positioned at the cabinet back side, and the other side of the cover is positioned at opposite end to the inlet discharge cone. Please see the enclosed product leaflet for explanatory picture.

From factory the outer side of the cabinet top plate has small laser marks for positioning of threaded studs (or drilling holes for pop rivets) for fixing the backsplash cover.

2.2 Positioning of the GTS-cabinet

- a) Place the cabinet in its intended position in the kitchen/galley. Adjust the four legs of the cabinet so it is leveled and have a proper support against the floor / floor plate.
- b) Also check that the pump is leveled and have a proper support against the cabinet bottom plate.
- c) The grinder outlet pipe is connected with the pump inlet pipe by a sealing sleeve around both pipe ends. Check that this sealing sleeve is fixed and not has changed position during transport.

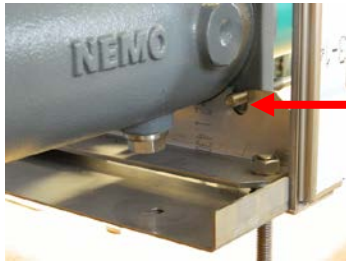


Sealing sleeve around pipe ends

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- d) Check that the two lower drawbars of the pump is secured to the intended fixing bracket in the cabinet, and not has become loose during transport.



One of the two lower fixing drawbars for the pump

2.3 Fastening the GTS-cabinet to the wall

From factory two fixing brackets have been assembled on two of the cabinet legs – which two depends on the kitchen layout drawing sent with your order for the GTS-processor.



One of the two lower brackets for fixing the cabinet to the wall

If the cabinet is placed in a corner, one leg with bracket at the rear and one leg with bracket at the front shall be fixed to the wall. If the cabinet instead is placed against a long wall, the two legs at the rear of the cabinet are fixed to the wall. Please see the enclosed product leaflet for explanatory picture.

If the cabinet is not fixed, a quick stop (e.g. if cutlery mistakenly jams the grinding unit) will cause the cabinet to turn due to the torque of the grinder motor, giving undesirable forces on pump connection to drain waste pipe (see item 4 below) which may cause leakage.

3. Flushing water

Connection of the flushing water to the delivered GTS-processor must only be done by an authorized installer of water supply and in accordance to valid local regulations.

3.1 Water pipe 1/2"

In order to allow a free flow of water to the GTS-processor, 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 GTS-processor assembly, i.e. at least 1/2" through-out.

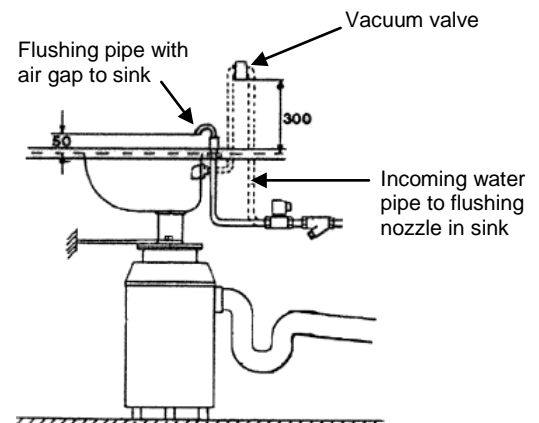
3.2 Reinforced flexible hose 1/2" for flushing water

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 GTS-processor 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 GTS-processor.

This hose is not included in standard delivery, but can be ordered as option from Disperator. When ordering this hose specify the distance between water connection on wall / bulkhead and connection on GTS-processor.

3.3 Vacuum valve 1/2"

When a flushing nozzle is fitted in the discharge cone of the delivered GTS-processor, a vacuum valve must be installed at the top of a lyre-shaped incoming water pipe and at least 300mm above the GTS working top as shown in figure below.



The figure above shows the positioning of a vacuum valve above a standard disposer sink assembly - thus not a GTS-processor. The positioning of the vacuum valve shall however remain the same for a GTS-processor.

This protects the water pipe from re-suction during a possible overflow in the GTS discharge cone. The vacuum valve is not included as standard delivery, but can be obtained from Disperator as option.

If a flush pipe with air gap to discharge cone has been ordered instead, this shall be fitted and sealed to the swiveling connection piece on the GTS top plate. No vacuum valve is then needed (if not stated for other reasons and / or specified in national / local regulations).

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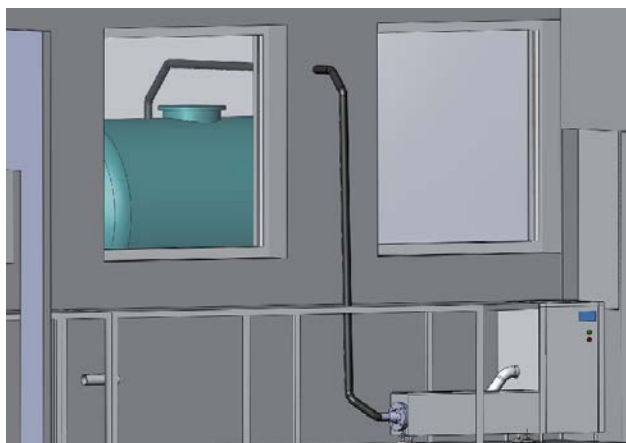


4. Connection of pump outlet to drain waste pipe going to tank

4.1 The drain waste pipe installation going to tank for the delivered GTS-processor must only be made by an authorised installer of sewer supply and in accordance to valid local regulations.

Check and ask the installer of the drain waste pipe going to tank to confirm that:

- pipes used are made of polyethylene plastic or acid resistant stainless steel,
- pipe draw to tank outside building has been done in the ground on a frost free depth, or otherwise protected against freezing,
- pipe connection to tank has been securely fastened by glued or welded flange transition,
- that all 90° pipe bends have been smoothly done using two 45° pipe bends with a straight pipe in between these bends as shown in picture below.



4.2 Connect to the drain waste pipe going to tank by fixing your flange with gasket to the pump outlet, DN65.

5. Electrical connection

The electrical connection of the delivered GTS-processor must only be done by authorized electrician and according to local regulations.

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

5.1 Supply voltage

Check that the supply voltage corresponds to the specified voltage on the GTS-processor serial number plate.

5.2 Mains fuses

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

5.3 Security breaker

A separate security breaker shall be connected. The security breaker is not included as standard delivery for the GTS-processor, but can be supplied as an option.

5.4 Cable dimension

Use connection cable having 1.5 mm² wire area for GTS-processors with rated current up to 14A. For GTS-processors with rated current above 14A use cable having 2.5 mm² wire area. The rated voltage and current for the GTS-processor is given on its serial number plate.

5.5 Cable protection

All electrical cable must be protected against damage by being securely fastened, for example to 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. No cable are allowed on the floor / floor plate.

5.6 Earth wire and connection

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

Installation of separate ground fault circuit breaker have to be done.

5.7 The direction of rotation for the grinder and the pump

The grinder operation function correctly irrespective of the motor's rotational direction. It is therefore irrelevant in which sequence the electrical phases are connected on the grinder motor.

IMPORTANT

The correct function of the processor pump is dependent on the pump rotating as shown with the red colour arrow on its serial number plate. In other words - viewed from the pump motor drive end, its axle with rotor shall turn anti-clockwise. Check the direction of rotation for the pump by a short moment turning on the GTS-processor. If axle with rotor is not turning anti-clockwise, change the sequence the electrical phases are connected on the pump motor.

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5.8 Magnetic limit switch

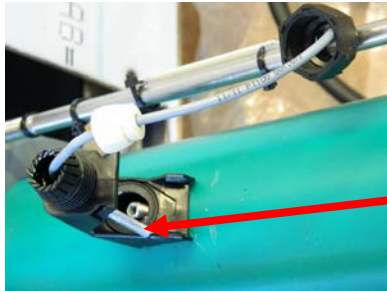
Check the operation of the magnetic limit switch. This switch must stop the GTS-processor, and the grinder idle running must also stop before the inlet hood with contact protection has been released and raised.



Magnetic limit switch "S101", positioned below cabinet top plate

5.9 Sensor for temperature monitor

For connection of the sensor for the temperature monitor in the pump stator, please see Section 13 in the enclosed NETSCH Operation & Maintenance Instruction for the processor pump.



Sensor for the pump temperature monitor

6. Start-up and final testing

6.1 Operation instruction

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

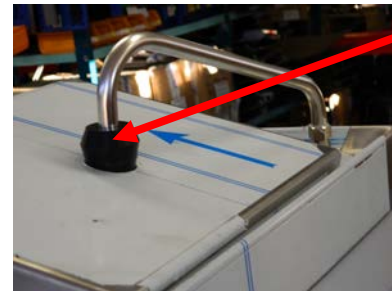
6.2 Check of grinder

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

6.3 IMPORTANT preparations before starting-up GTS-processor

- Open the cut-off valve in the waste drain pipe. The GTS-processor pump must never run against a closed valve.
- Pour a bucket with water mixed with 1 dl hand dishwashing detergent into the grinder. This liquid will give the pump the necessary lubrication during start-up. The GTS-processor pump must never run dry.
- Place the inlet hood above grinder. Secure the hood with the two turning knobs.

- If your GTS-processor is equipped with a flush pipe (giving an air gap to discharge cone), swing this pipe into position so its open end with movable black sealing plug securely rest in the cut-up opening in the top of the inlet hood.



Swingable flush pipe with black sealing plug in operating position

6.4 Checks at start-up

- Start the GTS-processor and determine that the grinder and pump revolves. For correct function anti-clockwise rotation of the pump is a must (see item 5.7 above)!
- Check for automatic flushing water pulse at predetermined intervals (from factory recommended and adjusted to every 15 secs).
- Also check that extra flushing water flows when pushing yellow push button.
- Check assembly, flushing water connections and plumbing connections for possible leaks.

6.5 Setting of pump temperature monitor

The display for the pump temperature monitor (positioned on the front door of the GTS-processor as shown on the enclosed product leaflet) is operated as follows:

- If no key is pressed, the measured temperature in the pump stator is given on the display.
- Press the SET-key, and the pump switch-off temperature is indicated.
- Press the SET-key and simultaneously the up arrow-key ↑, or the down arrow-key ↓, and the pump switch-off temperature is increased or decreased. Release the arrow-key before releasing the SET-key, and the new set temperature will be stored.
- Check the function of the temperature guard for the pump stator by adjusting the display to the room temperature where the GTS-processor is installed. Restart the machine. If the temperature guard is operating as required, the processor after a while shall stop.
- In order for the GTS-processor to operate without stop also when processing hot food waste, it is recommended that the monitor is adjusted to a temperature +50°C. The temperature monitor may never be adjusted to a higher value than +69°C.



- f) If the switch-off temperature is exceeded, or power failure or short circuit occurs, the GTS-processor is turned off, and the display will flash while a buzzer will sound. The flash and summer signals are switched off by pressing the down arrow-key ↓.
- g) Sensor failure code is stored and shown on the display also after the defect has been corrected, and is erased by pressing the down arrow-key ↓.

6.6 Final measures

If the GTS-processor fails to operate, please refer to the section on "Trouble shooting" in the instruction for operation, or contact DISPERATOR as given on page 1.

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