

Installation instructions Nature's Head

Step 1 – Check space conditions:

The Nature's Head requires a minimum room width of 53,4 cm - the room should be measured before. In addition to the toilet dimensions, both the operating elements and the hose connection should be taken in the calculation. A template is optionally available for download, which can be printed out and placed in the spot. (https://tomtur.de/mediafiles/Sonstiges/Einbauschablone-Natures-Head_en.pdf).

The Nature's Head is mostly waterproof, so a cover is not absolutely necessary. A seal between the toilet head and the solid container ensures that no water can get into the container. The fan is protected by the exhaust hose. Just make sure, that no water should get directly onto the power socket when showering! The toilet lid is pulled over the edge of the seat so that water cannot get in there either.

When using the urine bottle, it is advisable to make a few holes in the bottom of the bottle holder, so that the water can run off, when it has run down the bottle.

Step 2 – Prepare ventilation:

The fan of the Nature's Head should run around the clock during the period of use. This is not a problem as it is a small fan that consumes little power and is very quiet (60 mA/12Volt/17dB). The fan does not have the task of extracting odors, but to continuously transport moisture to the outside and to dry the substrate in the solid container - only in this way does the system function reliably odor-free. Therefore, the correct installation of the ventilation is essential!

The hose with a diameter of 40mm should be led through the outside wall into the open air. From the outside, the hose entrance should be covered by a splash/wind screen with an integrated insect screen, e.g. a ventilation grille (<https://tomtur.de/Ventilation-Grille-63mm>) or an shell vent with fly screen (<https://tomtur.de/Shell-Vent-with-Fly-Screen-paintable>). There must be no reduction, hard 90° angle or activated carbon filter between the toilet and the hose outlet! This is the only way to ensure that the moisture can be transported to the outside properly. The ventilation can be mounted freely via the side, through the floor or via the roof - a suitable cover must be selected here.

There are two ways to install the exhaust air hose on the inside of the wall. On the one hand is by using a flange (<https://tomtur.de/Natures-Head-Wall-Hose-Adapter>) that is glued or screwed and sealed to the wall. The black end connector of the exhaust air hose can simply be pushed over the connector of the flange. On the other hand, by gluing in a HT pipe DN40 (<https://tomtur.de/HT-pipe-DN-40-white-250-mm>). The pipe must be sealed properly and cut to size so that approx. 3-4 cm remain inwards. The exhaust air hose can also be easily slipped over the pipe.

If a flap of the previous cassette toilet is already installed, it can be used as an opening component or an existing hole, e.g. of a SOG system, can be extended to 40mm. An existing SOG system can NOT be used and must be removed, as this is a different operating principle.

A 1.5m long hose is included in the scope of delivery, which can be extended if necessary (<https://tomtur.de/Extra-Venting-Hose-transparent-per-meter>).

There is also an indoor solution via a special filter that has been explicitly developed for operating a separation toilet without an outdoor connection: (<https://tomtur.de/ToMTuRcharcoal-filter-KotoAir-1020-for-composting-toilets>).

Step 3 – Prepare power connection:

The Nature's Head requires a 12V connection. Connection to a 24V system is only possible by using a voltage converter. The connection should have permanent power and not be switched off. The integrated fan must be permanently in operation 24 hours / 7 days during the time of use, e.g. during holidays.

The connection must be fused with 2A. The power consumption is about 1.5 Ah per day. Although the consumption is very low, it should be considered when planning the vehicle's electrical system.

IMPORTANT: Plus (without marking) and minus (cable with long white lines) must be connected the right way round.

A connection to 230V is also possible. A wall transformer is required for this (<https://tomtur.de/230V-Wall-Transformer-12V-2A-for-Natures-Head>).

Step 4 – Installation of the Nature's Head:

As standard, the Nature's Head is attached to the floor via two metal brackets with four screws. Screws for wooden floors are included in the scope of delivery. For other floor conditions, suitable screws must be used. The Nature's Head is attached to the metal brackets via two mounting knobs.

The toilet can also be fixed e.g. by straps, via magnets or even by gluing with special glue for PE. A secure, stable installation of the toilet, especially in vehicles, is absolutely necessary.

Finally, the hose is pushed over the exhaust connector and the plug of the power cable is inserted into the socket. The toilet is now ready for operation. The module for the hose and power connection is flexible and can be changed to the other side of the toilet via a simple unscrewing of the housings.

Step 5 (OPTIONAL) – Connection to an external urine tank:

An external urine tank can be connected as an option to the 9L urine bottle. For this purpose, the urine bottle holder including the urine bottle can be unscrewed from the solid container. The toilet is fixed to the floor via the two metal brackets. A hole is drilled underneath the toilet through which the toilet is connected to the urine tank.

With an external urine tank, it is mandatory to use an adapter with odor trap (<https://tomtur.de/Urine-tank-adapter-with-odor-trap>). This will be plugged onto the urine bottle socket and connected to the urine tank with a 32mm HT pipe. The HT pipe is attached individually depending on the installation situation.

TIP: In the case of a modification, the existing cassette of a chemical toilet can possibly be used as an external urine tank. Therefore, the cassette only needs to be placed under the Nature's Head or under the floor.

TIP: We recommend using a pure urine tank as an external tank. Leading the urine into a grey water tank can produce a strong odor and heavy deposits in the tank due to contact with water.