Prefabricated Wet Units

With many years of experience and specialized competence, Norac AS offer fully fitted wet units. The Norac modular wet units are ideal for marine accommodations, from cruise ships to offshore installations.

The Norac wet units, whether standard or custom made, are manufactured according to the strictest rules and regulations and are fabricated from only first class materials.

In our design the emphasis is on using durable solutions to ensure maximum quality, comfort and well-being of our customers, whether being a ship owner, ship yard or end user.

The units are manufactured with great deal of consideration given to the ease of handling and installation.

Throughout the production process the units are subjected to strict quality control to ensure that all of our supplies conform to our policy of supplying only first class quality.

Aluminium Construction

Prefabricated modular wet units for all types of marine accommodations also available in light weight, non-corrosive aluminium - B15 class. Weight reduction as much as 20-25%.
Typical Design

Wet units can, upon request, be delivered in “knock down” execution.
A = Toilet module   B = Shower module   C = Bath module

These units are for guidance only. We deliver units according to customer specification and design.
Details

Door in single wall

- Top frame 25 mm
- Clear opening 1800 mm
- 20 mm Air gap
- Door handle height = 1050 mm from steel deck
- Steel deck Adjustable screw M20 x 60 mm
- 20 mm insulation glued on panel
- Tiles
- Threshold cover stainless steel
- Silicon

Door in sandwich wall

- Top frame
- Clear opening 1800 mm
- 20 mm Air gap
- Door handle height = 1050 mm from steel deck
- Steel deck Adjustable screw M20 x 60 mm
- 20 mm insulation glued on panel
- Silicon joint
- Tilez
- 20 mm insulation glued on panel

Details outwards opened door - Wet Unit

- 3 pcs. drilled hole each side for fixing external wall to the doorframe
- U-profile 20x25x15x0.7 mm

As standard the external linings slide into the door frames.

Norac wet units can be supplied with the cabin side having a finished surface as shown above.
Details

Norac wet units can be delivered with different draining systems according to our customer’s specification.

Norac wet units are delivered with walls and ceilings manufactured in a sandwich construction with no open/visible insulation.

B-15 class in both steel and aluminium constructions.

The floor pan is fully tested water tight, blasted and primed before application of finish.
Details

Standard Norac Responsibility:

- If gravity toilet, normally Norac supply

Standard Yard supply:

- If vacuum toilet, normally yard supply

Interface responsibility

- Green = Yard supply
- Orange = Norac supply

Penetration frame

EL-Junction box (The connection can also be done in the junctionbox beside door)

Shut down value connection male1/2"

Grey water connection 50 mm

Electrical cable

Ventilation duct

Black water (toilet)

Cold and hot water pipe

Grey water (shower and sink)
**Installation**

The standard units are delivered each with four square tubes for easy lifting and locating on board. A specially designed lifting frame is used for hoisting by crane.

After lifting on board, transportation wheels are fitted into the tubes. The units are then jacked up and transported to their final position.

All units are delivered with one adjustable leg at each corner to allow for levelling.

Norac wet units are so complete when delivered that after fixing them to the deck you only need connect the water, drainage and electricity to use them.

Norac wet units have been successfully installed on numerous vessels throughout the world, whether they are on a luxury cruise liner, commercial vessel or offshore platform.

---

**Adjusting height of bathroom unit – option**

1 pc placed on the corner of bathroom unit (normally 5 pcs on each unit)

- **Steel plate**
  - 100 x 100 x 10 mm

- **Tube**
  - 30 x 30 x 2 L= 300

- **M20 x 50 mm adjusting bolt**
  - 5 off per unit

- **After adjusting of wet unit weld the bolt to the steel deck.**
Standard Equipment and Accessories

Wash-basin, white china
Dim.: 500 x 355
Dim.: 600 x 450

Operator, Geberit Rumba

Cistern, Geberit 110.892.00.1
(Especially made for ships)

Toilet bowl

Shower set, Oras 320-11, white

Shower mixer, Oras Oramix

Shower mixer, Oras Optima 180000, chrome

Mixing tap, Oras Classica 1010

Folding seat, Inda 331/M

www.norac.no
Standard Equipment and Accessories

Soap holder, Inda 2249

Hook, Inda 2220

Double hook, Inda 2221

Tumbler holder, Inda 2217 + glass, India C360

Tumbler holder, Inda 2210 + glass, India C360

Ashtray, Inda 530

Spare paper holder, Inda 2228

Toilet paper holder, Inda 2226

Toilet brush and holder, Inda 514
Standard Equipment and Accessories

Toilet cabinet

Grab rail, Inda 590/M

Towel rail, Inda 2290, 2218 and 2219 (All in length 30-45-60 cm)

Light fitting, 1x18W with razor socket 110/220 V IP44

Shower mixer. Paffoni Equo - Eqsl 168 C

Shower set. Paffoni Roma ZSAL 009CR

Mixing tap Paffoni Saturno ST071 CR6