

Tornado

Flusher Disinfecter



Product specification

PRODUCT

The Tornado is a front-loaded flusher disinfecter, available in several models to meet different installation needs. All models are designed to comply with the European standard EN ISO 15883. Processing cycles are factory programmed with recommended treatment parameters for cleaning, thermal disinfection and cooling. Operation and maintenance are easy from the front with clear guidance from the display. The consumption of water, power and rinse agent are exceptionally low.

DESIGN FEATURES

- Nine fixed and two rotating nozzles to meet the most stringent cleaning requirements
- Safe thermal disinfection of the receptacles. The steam is transported into the chamber through all pipes and nozzles in every cycle
- Read out display provides the user with all information needed for operation and control
- Three programs: economy, normal and intensive
- Wide range of holders for different receptacles
- Wash chamber door with built-in splash protection
- Locked wash chamber door during the cycle enhances staff safety and ensures complete cleaning and disinfection
- Lockable cabinet for storage of detergent and rinse/ de-scaling agent containers
- Deep-drawn chamber of acid-resistant stainless steel SS 2348, EN/DIN 1.4404, ASTM 316 L
- Cover plates in fine-polished stainless steel SS 2333, EN/DIN 1.4301, ASTM 304

APPLICATIONS

The intended use for the Tornado is emptying, cleaning and disinfection of human waste receptacles such as bedpans, urinals, commode buckets and lids. Bowls, basins and other utensils used in care facilities can also be processed. In such cases, the Tornado should be supplied with detergent dosage.



EXTERNAL DIMENSIONS

Freestanding with or without automatic door (door sensor)

- Width 450 mm
- Depth 530 mm
- Height 1400 mm

Under counter (including counter top)

- Width 900 mm
- Depth 600 mm
- Height 900 mm

Wall built in

- Width 450 mm
- Depth 530 mm
- Height 1300 mm

Product selection for ordering

For ordering tick in your selections.

- Standard choice Optional choice

CUSTOMER:

REFERENCE:

MODELS

- Freestanding
- Wall mounted
- Under counter (left)
- Freestanding with automatic door (door sensor)

DISINFECTION

- Steam Generator
- External Steam

VOLTAGE SUPPLY

With Steam Generator:

- L1-220/230V, 1N+PE, 50 Hz 3,0 kW, 1x16 A
- L2-230V, 3+PE, 50 Hz, 4,0 kW, 3x16 A
- L3-380/400V, 3N+PE, 50 Hz, 4,0 kW, 3x10 A
- L5-240V, 2+PE, 60 Hz, 3,6 kW, 2x15 A
- L9-208V, 2+PE, 60 Hz, 3,0 kW, 2x15 A
- L10-208V, 3+PE, 60 Hz, 3,8 kW, 3x15 A
- L14-200V, 2+PE, 50 Hz, 3,0 kW, 2x16 A
- L15-200V, 3+PE, 50 Hz, 4,0 kW, 3x16 A
- L18-200V, 2+PE, 60 Hz, 3,4 kW, 2x16 A
- L19-200V, 3+PE, 60 Hz, 4,4 kW, 3x16 A
- L22-220/230V, 1N+PE, 60 Hz, 3,4 kW, 1x16 A
- L24-380/400V, 3N+PE, 60 Hz, 4,4 kW, 3x10 A

With External Steam:

- V2-220/230V, 1N+PE, 50 Hz, 1,0 kW, 1x10 A
- V3-240V, 2+PE, 60 Hz, 1,4 kW, 2x10 A
- V4-208V, 2+PE, 60 Hz, 1,4 kW, 2x10 A

DRAINAGE

- Wall Ø 110 mm
- Floor Ø 110 mm
- Wall Ø 90 mm
- Floor Ø 90 mm

DOSING

The Tornado is always equipped with a de-scaling agent dosage. In addition to that the following options are offered:

- Dosage for rinse agent in tank
- Dosage for rinse agent direct in pump
- Detergent dosage

LEVEL SENSOR

The Tornado is, as standard, equipped with a level sensor for the de-scaling agent container. If detergent dosage is chosen, this container is also equipped with a level sensor. If the unit is equipped with dosage for rinse agent, and the same liquid is used for de-scaling and rinse agent, the Y-connection is standard. If two different liquids are used, choose the two level sensors option.

- Y-Connection (when same liquid is used for de-scaling and rinse agent)
- Two level sensors

ADDITIONAL OPTIONS

- Condensation cooling (condensation of surplus steam, reduces humidity in the sluice room)
- External cooling (rinse after disinfection with water supplied directly from the water inlet instead of the tank)
- Leak sensor floor
- Valves & filters (purifying filter for incoming water and shut off valves)
- Built in main switch
- Wall mounted main switch

HOLDERS

- 499586101 Universal holder
- 501257800 Holder round bedpans DE
- 499966401 Rotating holder IT
- 500101000 Holder FR
- 500847301 Holder GB
- 500376804 Holder AT
- 501676200 Holder CA

Further holders and adapters are available, please refer to ARJO Holder and Receptacle Inventory

LANGUAGES

Display and user manuals are available in a selection of languages.

- | | |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/> English | <input type="checkbox"/> German |
| <input type="checkbox"/> French | <input type="checkbox"/> Dutch |
| <input type="checkbox"/> Portuguese | <input type="checkbox"/> Greek |
| <input type="checkbox"/> Italian | <input type="checkbox"/> Spanish |
| <input type="checkbox"/> Czech | <input type="checkbox"/> Estonian |
| <input type="checkbox"/> Latvian | <input type="checkbox"/> Lithuanian |
| <input type="checkbox"/> Hungarian | <input type="checkbox"/> Slovak |
| <input type="checkbox"/> Slovenian | <input type="checkbox"/> Polish |

CUSTOMER:

REFERENCE:

Additional languages may be available, please check at time of offer.

STANDARDS

Getinge 2000 is tested and approved to comply with the following Requirements and Standards

- DVGW
DVGW PP 9501 (01.01.1994)
Report no. DW-9501AS2744
- RWTÜV Standard: DIN EN 60335-1 : 1994.01,
DIN EN 60335-2-58 : 1995.02
RWTÜV 2775/96, RWTÜV 1586/98
- BAK-test Standard: Hygiene Gutachten
Unr. 09.01.1997
- CB Standard: IEC 335-2-58
Report no. E9710327 E01
- ETL/SEMKO
IEC 61010-1, EN 61010-1, IEC 61010-2-045
CAN/CSA-C22.2 No.1010.1-92, UL3101-1
Report no. ETL 9735053, SE 9815021C
- EMC Standard: EN 6100-3-2, 61000-3-3
Report no. SP-1000.doc edition1
- KWA Declaration of Technical Water Supply
Protection, certificate K23156
Report no. K23156/01
- WRAS (Water Regulations Advisory Scheme),
report 9912070
- Warnock Hersey
CSA B45.0-99, CSA B45.4-99, CSA B125-98,
CSA B64.10-94
Report no. 278-2424-0. Client L26851
- prEN ISO 15883-1 /-3
- Medical Device Directive 93/42/EEC, certificate
no. 41314824 issued by Intertek SEMKO AB
code 0413



DOCUMENTATION

Machine delivery includes a set of the following documentation:

- Operating instructions
- Spare parts list
- Installation instructions
- Goods placement chart
- Inspection certificate from works test

CUSTOMER:

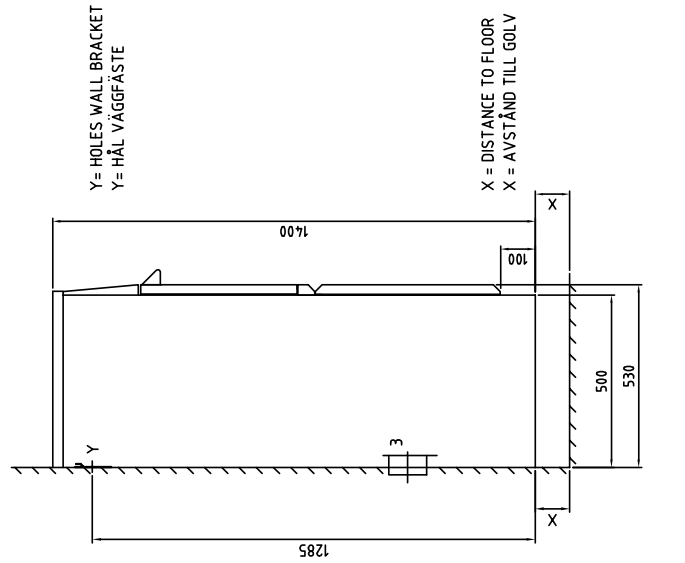
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TORNADO TECHNICAL DATA			
General data			
	Freestanding	Wall hung	Under counter
Weight	90 kg	90 kg	100 kg
Width	450 mm	450 mm	900 mm
Depth	530 mm	530 mm	600 mm
Height	1400 mm	1400 mm	900 mm
Environmental facts			
Noise level	58 dB (A) (measured in free field)		
Outer temperature	Max. 40 °C		
Water consumption (without cooling *)			
Economy program	11 l/cycle		
Normal program	20 l/cycle		
Intensive program	31 l/cycle		
* Cooling	3 l approx.		
Media connections			
Description	Connection	Pressure	Flow rate
Cold water	15 (1/2")	70 - 800 kPa	20 l/min
Warm water 45 - 60 °C	15 (1/2")	70 - 800 kPa	20 l/min
Description	Connection	Pressure	Consumption
Steam	15 (1/2")	30 - 300 kPa	0,3 kg/cycle
Drain connection	Ø 90 or 110 mm		

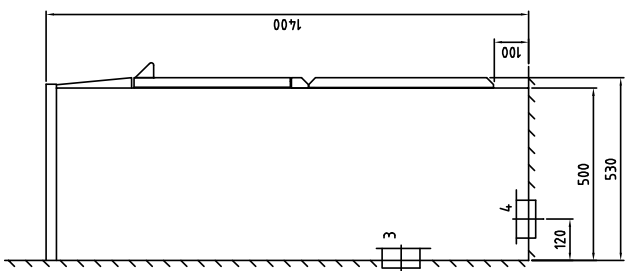
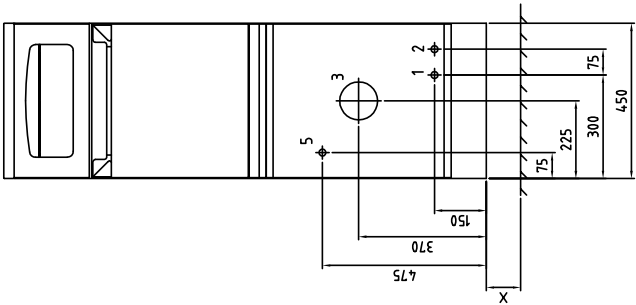
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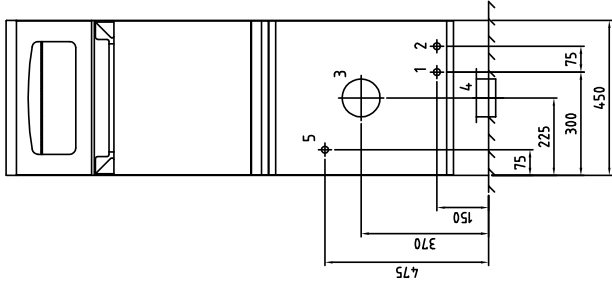
TORNADO: INSTALLATION AND OUTER DIMENSIONS



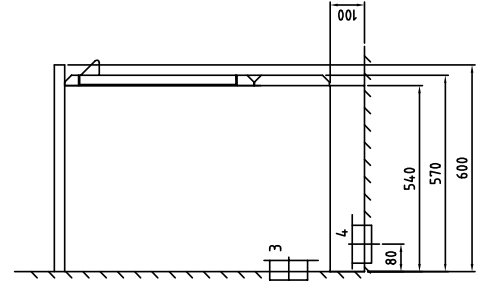
WALL HUNG



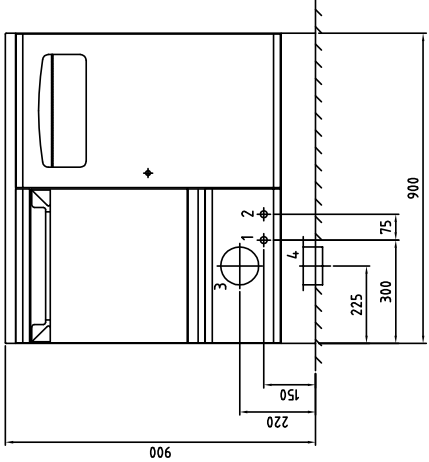
FREE STANDING



- 1. Hot water connection 15 mm (G1/2)
 - 2. Cold water connection 15 mm (G1/2)
 - 3. Drain, P, wall
 - 4. Drain, S, floor
 - 5. External steam 15 mm (G1/2)
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- 1. Varmvattenanslutning 15 mm (G1/2)
 - 2. Kallvattenanslutning 15 mm (G1/2)
 - 3. Avlopp, P, vägg
 - 4. Avlopp, S, golv
 - 5. Extern ånga 15 mm (G1/2)



UNDER COUNTER





Getinge provides complete solutions for effective and efficient cleaning, disinfection and sterilization in the healthcare and life science sectors. Our know-how comprises everything from architectural planning, production and handling equipment, to systems for full traceability of sterile goods. Our commitment covers expert advice, training and long-term technical support.

ARJO

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