



DATA SHEET

# newster® **NW5**

Sterilizer for Hospital  
Solid Waste

HOSPITAL  
SOLID  
WASTE





newster® NW5

Play video 

## Sterilizer for Hospital Solid Waste

**The sterilizing unit is designed  
for on-site installation up to 150  
beds hospitals.**

The sturdy design allows the sterilizer to work for several shifts, each lasting 35-40 minutes. The power inverter allows to reduce energy consumption. The automatic treatment takes place in the vessel, which is hermetically sealed during the cycle. The specially designed discharging system allows the operator to easily manage the treated waste without risks.

The unit can be equipped with an optional water recycling system, which increases effectiveness besides further reducing running costs.

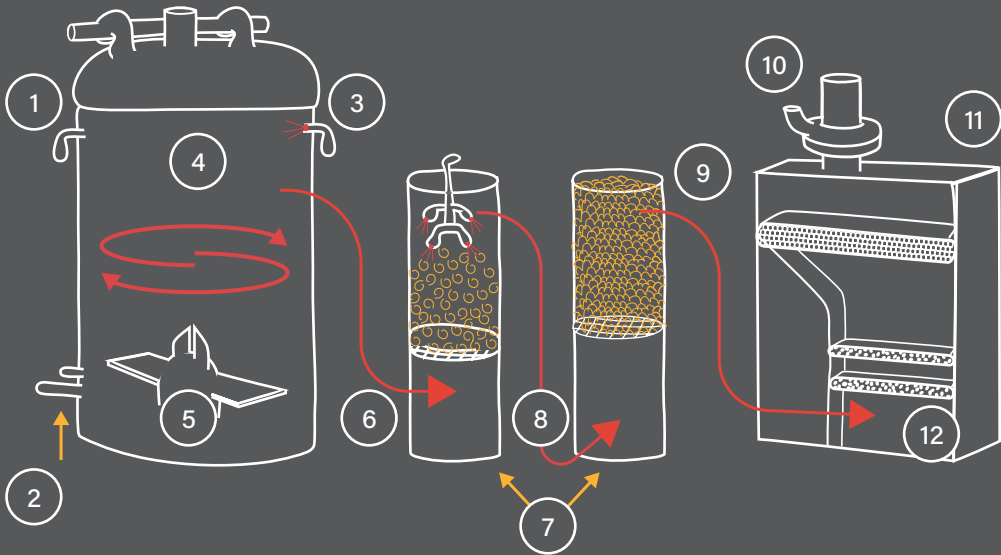


Up to 150  
beds hospital



newster® NW5 NW15 NW50

Cycle process



- |                       |                 |                             |
|-----------------------|-----------------|-----------------------------|
| 1. Air inlet          | 5. Grinder      | 9. Air                      |
| 2. Temperature sensor | 6. Vapour       | 10. Air outlet              |
| 3. Water inlet        | 7. Water outlet | 11. Absolute filter         |
| 4. Sterilization cell | 8. Vapour       | 12. Carbon activated filter |

Technical Specifications

newster. NW5

Sterilization method	Frictional Heat Treatment (Unpressurized moist heat)
Heating method	by impact and friction of the waste
Processing potential	15 kg/h <sup>1</sup> 240 lt/h
External aspect of treated waste	Homogenous small-sized granules
Final volume of treated waste	20-25% of initial volume
Final weight of treated waste	70-75% of initial weight
Sterilization vessel volume	Roughly 100 liters Ø = 480 mm, H = 550 mm
Overall control system	Programmable logic controller (PLC)
Temperature measurement	By variable-resistance sensors
Cycle recording	Time-temperature flow recording
Final cooling	Roughly 90C° through H <sub>2</sub> O evaporation
Dust abatement	In humid environment
Vessel lid closure	Manual, mechanical blocking and double safety device
Safety devices	Mechanical blocking system of sterilization vessel lid; power supply to main engine is cut off in case of lid blocking failure. Low voltage command and control panel with automatic power cut-off if panels are open; electrical resistor heating system to be used in case of emergency stop
Rotating blades and fixed contrblades	Made of special metal alloys
H <sub>2</sub> O Consumption	Roughly 60 lt/h Roughly 50 lt/day with water recycling system (optional)
Water discharge (diameter sewer pipe equipped with a trap)	40 mm
Power consumption	overall max 20 kW average 13 kW/h
Size and weight	Sterilizer 80 x 160 x 130 cm Filter group 80 x 35 x 110 cm Electrical board 60 x 45 x 120 cm Control panel - Master switch - Total weight 740 kg

1 - Depending on the percentage of humidity and density

The above specifications are intended for information purposes only and may be subject to change without prior notice.

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HEADQUARTERS AND MANUFACTURING

**Newster System S.r.l.**

VAT NUMBER IT09269221009

Via Pascoli, 26/28

47853 Cerasolo di Coriano (RN)

Italy

Ph. +39 0541 759160

FAX +39 0541 759163

SALES CONTACT

[market@newstergroup.com](mailto:market@newstergroup.com)



[www.newstergroup.com](http://www.newstergroup.com)

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The new age sterilization





DATA SHEET

# newster® **NW15**

Sterilizer for Hospital  
Solid Waste

HOSPITAL  
SOLID  
WASTE







newster® **NW15**

Play video 

## Sterilizer for Hospital Solid Waste

**The sterilizing unit is designed for on-site installation up to 300 beds hospitals.**

The sturdy design allows the sterilizer to work for several shifts, each lasting 35-40 minutes. The power inverter allows to reduce energy consumption. The automatic treatment takes place in the vessel, which is hermetically sealed during the cycle.

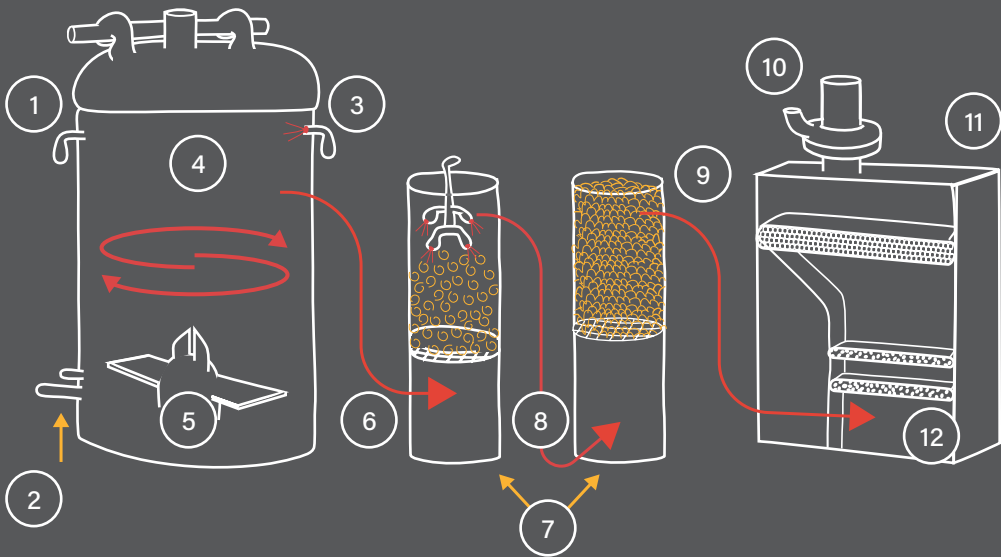
The specially designed discharging system allows the operator to easily manage the treated waste without risks. The unit can be equipped with an optional water recycling system, which increases effectiveness besides further reducing running costs.



Up to 300  
beds hospital

newster® NW5 NW15 NW50

Cycle process



1. Air inlet

2. Temperature sensor

3. Water inlet

4. Sterilization cell
5. Grinder

6. Vapour

7. Water outlet

8. Vapour
9. Air

10. Air outlet

11. Absolute filter

12. Carbon activated filter

Technical Specifications

newster® NW15

Sterilization method	Frictional Heat Treatment (Unpressurized moist heat)
Heating method	by impact and friction of the waste
Processing potential	30/40 kg/h <sup>1</sup> 340 lt/h
External aspect of treated waste	Homogenous small-sized granules
Final volume of treated waste	20-25% of initial volume
Final weight of treated waste	70-75% of initial weight
Sterilization vessel volume	Roughly 170 liters Ø = 500 mm, H = 856 mm
Overall control system	Programmable logic controller (PLC)
Temperature measurement	By variable-resistance sensors
Cycle recording	Time-temperature flow recording
Final cooling	Roughly 95C° through H <sub>2</sub> O evaporation
Dust abatement	In humid environment
Vessel lid closure	Manual, mechanical blocking and double safety device
Safety devices	Mechanical blocking system of sterilization vessel lid; power supply to main engine is cut off in case of lid blocking failure. Low voltage command and control panel with automatic power cut-off if panels are open; electrical resistor heating system to be used in case of emergency stop
Rotating blades and fixed contrblades	Made of special metal alloys
H <sub>2</sub> O Consumption	Roughly 75 lt/h Roughly 50 lt/day with water recycling system (optional)
Water discharge (diameter sewer pipe equipped with a trap)	40 mm
Power consumption	overall max 30 kW average 18 kW/h
Size and weight	<div><div>Sterilizer</div><div>Filter group</div><div>Electrical board</div><div>Control panel</div><div>Master switch</div><div>Total weight</div></div> <div><div>100 x 200 x 160 cm</div><div>incorporated or separated</div><div>50 x 80 x 160 cm</div><div>-</div><div>-</div><div>1060 kg</div></div>

1 - Depending on the percentage of humidity and density

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Via Pascoli, 26/28

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[market@newstergroup.com](mailto:market@newstergroup.com)



[www.newstergroup.com](http://www.newstergroup.com)

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The new age sterilization







DATA SHEET

# newster® **NW50**

Sterilizer for Hospital  
Solid Waste

HOSPITAL  
SOLID  
WASTE





Play video 

newster® **NW50**

Up to 600  
beds hospital  
and external  
centralized  
plants

## Sterilizer for Hospital Solid Waste

**The sterilizing unit is designed for on-site installation up to 600 beds hospitals and external centralized plants.**

The sturdy design allows the sterilizer to work for several shifts, each lasting 35-40 minutes. The power inverter allows to reduce energy consumption. The specially designed discharging system allows the operator to easily manage the treated waste without risks.

The unit can be equipped with an optional water recycling system, which increases effectiveness besides further reducing running costs. The system can also be equipped with a **platform lift** (see **Accessories pag. 13**).

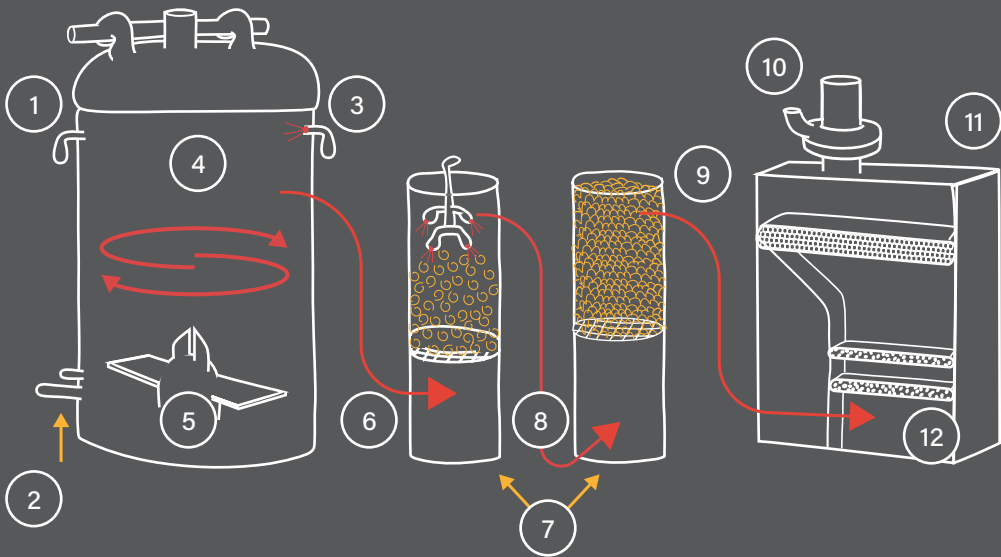
For larger healthcare facilities Newster Twin, which consists of two mirrored NW50 units sharing a single platform lift, can be supplied.





newster® NW5 NW15 NW50

Cycle process



1. Air inlet

2. Temperature sensor

3. Water inlet

4. Sterilization cell
5. Grinder

6. Vapour

7. Water outlet

8. Vapour
9. Air

10. Air outlet

11. Absolute filter

12. Carbon activated filter

Technical Specifications

	newster. NW50	
Sterilization method	Frictional Heat Treatment (Unpressurized moist heat)	
Heating method	by impact and friction of the waste	
Processing potential	90-110 kg/h <sup>1</sup> * 840 lt/h	
External aspect of treated waste	Homogenous small-sized granules	
Final volume of treated waste	20-25% of initial volume	
Final weight of treated waste	70-75% of initial weight	
Sterilization vessel volume	Roughly 460 liters Ø = 806 mm, H = 965 mm	
Overall control system	Programmable logic controller (PLC)	
Temperature measurement	By variable-resistance sensors	
Cycle recording	Time-temperature flow recording	
Final cooling	Roughly 95C° through H <sub>2</sub> O evaporation	
Dust abatement	In humid environment	
Vessel lid closure	Manual, mechanical blocking and double safety device	
Safety devices	Mechanical blocking system of sterilization vessel lid; power supply to main engine is cut off in case of lid blocking failure. Low voltage command and control panel with automatic power cut-off if panels are open; electrical resistor heating system to be used in case of emergency stop	
Rotating blades and fixed contrblades	Made of special metal alloys	
H <sub>2</sub> O Consumption	Roughly 50 lt/day with waterrecycling system	
Water discharge (diameter sewer pipe equipped with a trap)	50 mm	
Power consumption	overall max 90 kW average 55-65 kW/h	
Size and weight	Sterilizer	120 x 250 x 280 cm
	Filter group	80 x 35 x 160 cm
	Electrical board	-
	Control panel	80 x 45 x 110 cm
	Master switch	50 x 80 x 180 cm
	Total weight	2700 kg

1 - Depending on the percentage of humidity and density

\* Excluding handling

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