

# Datasheets

Version 1 | 08.2022

[alloroafrica.com](http://alloroafrica.com)



**NEWSTER | NW 5**



**NEWSTER | NW 15**



**NEWSTER | NW 50**


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 Interactive document if viewed on mobile or computer.

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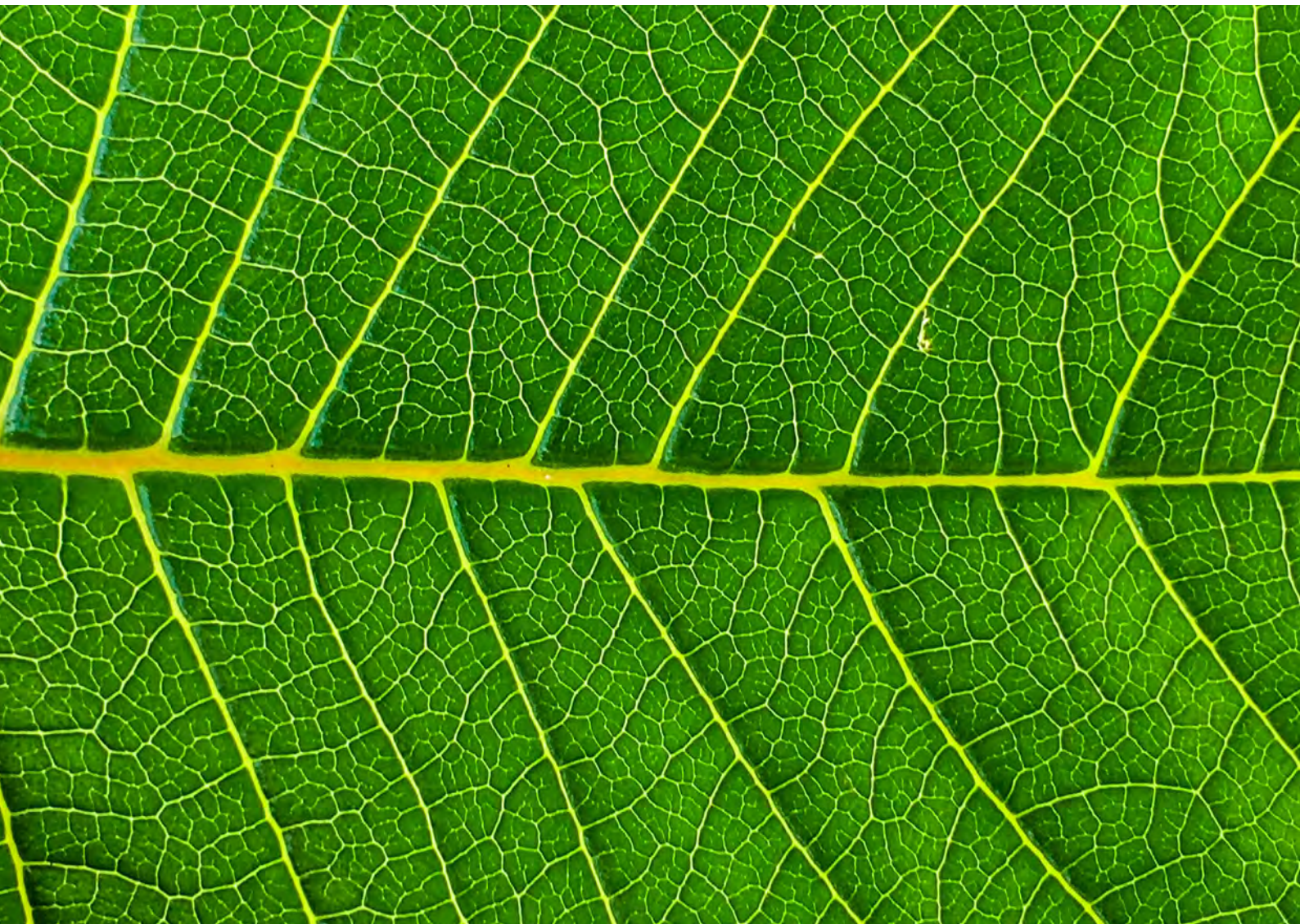
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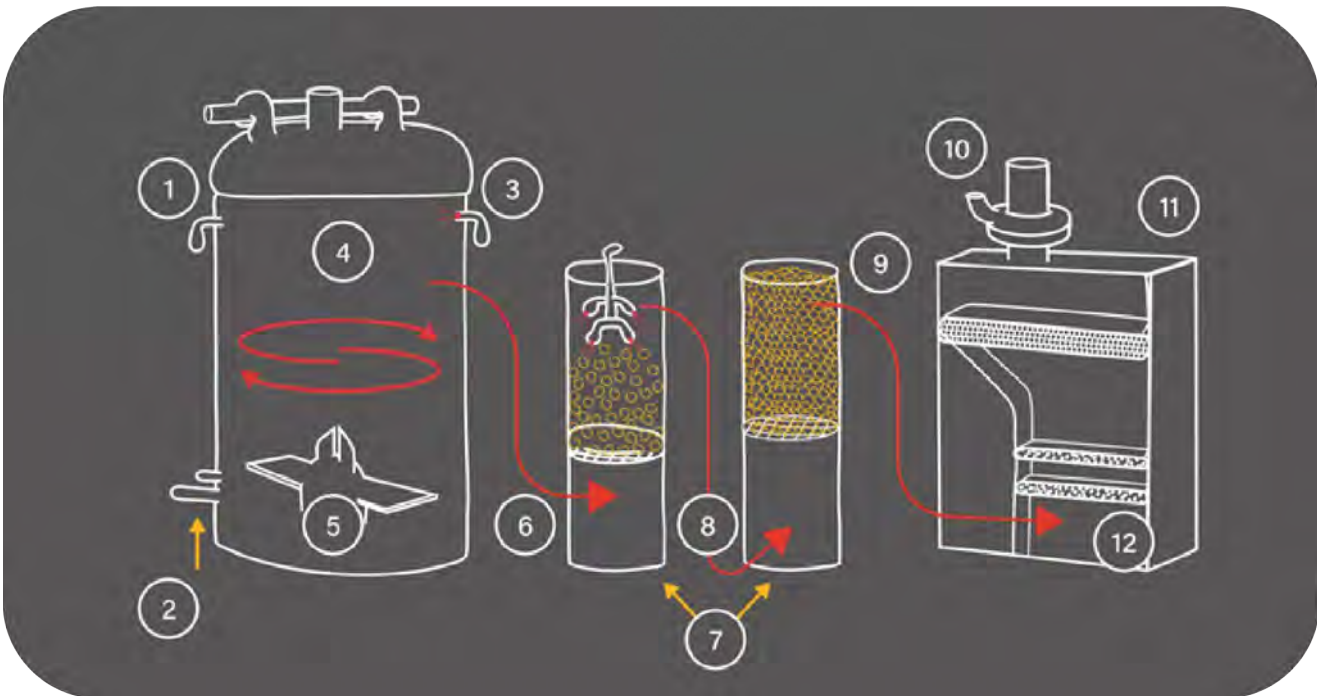
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# 1 Cycle Process

Newster NW5 NW15 NW50

## 1.1 Newster Cycle Process



## 1.2 Newster Cycle Steps

1 Air Inlet

2 Temperature Sensor

3 Water Inlet

4 Sterilisation Cell

5 Grinder

6 Vapour

7 Water Outlet

8 Vapour

9 Air

10 Air Outlet

11 Absolute Filter

12 Carbon Activated Filter



## 2 NW 5

### Steriliser for Infectious Medical Waste

Compact Design for smaller Healthcare Facilities

The sturdy design allows the steriliser to work for several cycles, each lasting on average 30 minutes. The power inverter allows to reduce energy consumption. The automatic treatment takes place in the vessel, which is hermetically sealed during the cycle.



[View Demo Video](#)

[https://www.youtube.com/watch?v=RTgKtgnwN5E&list=PLy6KBdBCScm6bV0mJBRrz2mFR3\\_uPr8qr&index=4](https://www.youtube.com/watch?v=RTgKtgnwN5E&list=PLy6KBdBCScm6bV0mJBRrz2mFR3_uPr8qr&index=4)



## Technical Specifications

### Sterilisation method

Frictional Heat Treatment  
(Unpressurized moist heat)

### Heating method

by impact and friction of the waste

### \*Processing potential

15 kg/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

85-90% of initial weight

### Sterilisation 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 95°C 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 control blades

Made of special metal alloys

### H<sub>2</sub>O Consumption

Approx. 100 lt/hour

### Water discharge (diameter sewer pipe equipped with a trap)

40 mm

### Power consumption

overall max 20 kW  
average 10 kW/h

### Size and Weight

• Steriliser	•80 x 160 x 130 cm
• Filter Group	•80 x 35 x 110 cm
• Electrical board	•60 x 45 x 120 cm
• <b>Total weight</b>	<b>740 kg</b>

\*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.

# 3 NW 15

## Steriliser for Infectious Medical Waste

Hospitals that experience moderate medical waste outputs | Optional Water Recycling System

The sturdy design allows the sterilizer to work for several cycles, each lasting on average 30 minutes. The power inverter allows to reduce energy consumption. The automatic treatment takes place in the vessel, which is hermetically sealed during the cycle.



View Demo Video

<https://www.youtube.com/watch?v=I9DMwflbUWM>



## Technical Specifications

<b>Sterilisation method</b> Frictional Heat Treatment (Unpressurised moist heat)	<b>Heating method</b> by impact and friction of the waste	<b>*Processing potential</b> 30-40 kg/h
<b>External aspect of treated waste</b> Homogenous small-sized granules	<b>Final volume of treated waste</b> 20-25% of initial volume	<b>Final weight of treated waste</b> 85-90% of initial weight
<b>Sterilisation vessel volume</b> Roughly 170 liters Ø = 500 mm, H = 856 mm	<b>Overall control system</b> Programmable logic controller (PLC)	<b>Temperature measurement</b> By variable-resistance sensors
<b>Cycle recording</b> Time-temperature flow recording	<b>Final cooling</b> Roughly 95C° through H2O evaporation	<b>Dust abatement</b> In humid environment
<b>Vessel lid closure</b> Manual, mechanical blocking and double safety device	<b>Safety device</b> 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.	<b>Rotating blades and fixed control blades</b> Made of special metal alloys
<b>H<sub>2</sub>O Consumption</b> Approx. 30 lt/h with water recycling system (optional).	<b>Water discharge (diameter sewer pipe equipped with a trap)</b> 40 mm	<b>Power consumption</b> overall max 30 kW average 15 kW/h

### Size and Weight

• Steriliser	• 100 x 200 x 160 cm
• Filter Group	• incorporated
• Electrical board	• 50 x 80 x 160 cm
• <b>Total weight</b>	<b>1060 kg</b>

\*1 - Depending on the percentage of humidity and density

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# 4 NW 50

## Steriliser for Infectious Medical Waste

Large-Scale Hospital | Optional Water Recycling System

The sterilising unit is designed for on-site installation and external centralised plants. The sturdy design allows the steriliser to work for several cycles, each lasting on average 30 minutes. The power inverter allows to reduce energy consumption. The unit can be equipped with an optional water recycling system, which increases effectiveness besides further reducing running costs.



[View Demo Video](#)

[https://www.youtube.com/watch?v=TdoXt3R\\_yXQ&list=PLy6KBdBCScm6bV0mJBRrz2mFR3\\_uPr8qr](https://www.youtube.com/watch?v=TdoXt3R_yXQ&list=PLy6KBdBCScm6bV0mJBRrz2mFR3_uPr8qr)





## Technical Specifications

<b>Sterilisation method</b> Frictional Heat Treatment (Unpressurized moist heat)	<b>Heating method</b> by impact and friction of the waste	<b>*Processing potential</b> 60-80 kg/h
<b>External aspect of treated waste</b> Homogenous small-sized granules	<b>Final volume of treated waste</b> 20-25% of initial volume	<b>Final weight of treated waste</b> 85-90% of initial weight
<b>Sterilisation vessel volume</b> Roughly 460 liters Ø = 806 mm, H = 965 mm	<b>Overall control system</b> Programmable logic controller (PLC)	<b>Temperature measurement</b> By variable-resistance sensors
<b>Cycle recording</b> Time-temperature flow recording	<b>Final cooling</b> Roughly 95°C through H <sub>2</sub> O evaporation	<b>Dust abatement</b> In humid environment
<b>Vessel lid closure</b> Manual, mechanical blocking and double safety device	<b>Safety devices</b> 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	<b>Rotating blades and fixed control blades</b> Made of special metal alloys
<b>H<sub>2</sub>O Consumption</b> Roughly 50 lt/h with water recycling system	<b>Water discharge (diameter sewer pipe equipped with a trap)</b> 50 mm	<b>Power consumption</b> overall max 90 kW average 55-65 kW/h

### Size and Weight

• Steriliser	• 120 x 250 x 280 cm
• Filter Group	• 80 x 35 x 160 cm
• Control panel	• 80 x 45 x 110 cm
• Master switch	• 50 x 80 x 180 cm
• <b>Total weight</b>	<b>2700 kg</b>

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