



## Compact Waste Water Treatment Plant

# VAMMED

### BATCH FLOW PACKAGE UNIT



CE Certified



Possibility of Water Recovery



Low Cost



# VAMED MODELS

| MODEL              | Units (SI)      | VAMED 03 | VAMED 05 | VAMED 10  |
|--------------------|-----------------|----------|----------|-----------|
| Nominal flow (max) | L/cycle (gal/h) | 300(78)  | 500(130) | 1000(264) |

## MANUFACTURING SPECIFICATIONS

|                 |                 |                       |                        |                       |
|-----------------|-----------------|-----------------------|------------------------|-----------------------|
| Dimensions      |                 |                       |                        |                       |
| Max width       | mm (ft)         | 800(2,62)             | 1000(3,28)             | 1520(4,9)             |
| Max Height      | mm (ft)         | 1700(5,58)            | 1700(5,58)             | 1845(6)               |
| Length          | mm (ft)         | 1270(4,17)            | 1900(6,23)             | 2935(9,6)             |
| Space required  | mm x mm (ft×ft) | 800 X 1270(2,62×4,17) | 1000 X 1900(3,28×6,23) | 1520 X 2935 (4,9×9,6) |
| Installed power | kW              | 2                     | 2                      | 2                     |

|                         |  |               |               |  |
|-------------------------|--|---------------|---------------|--|
| Manufacturing materials |  | PP / PE / PVC | PP / PE / PVC |  |
|-------------------------|--|---------------|---------------|--|

## Piping

|                                  |         |       |           |           |
|----------------------------------|---------|-------|-----------|-----------|
| Raw WasteWater inlet             | mm (in) | 32(1) | 50(2)     | 50(2)     |
| Treated water outlet             | mm (in) | 50(2) | 63(2 1/2) | 63(2 1/2) |
| carbon filter counter wash inlet | mm (in) | 32(1) | 32(1)     | 32(1)     |
| carbon filter cleaning washout   | mm (in) | 50(2) | 50(2)     | 50(2)     |

| Coagulation/Flocculation reactor : |                 |                     |                      |             |
|------------------------------------|-----------------|---------------------|----------------------|-------------|
| Volume                             | L (gal)         | 300(78)             | 500(130)             | 1000(260)   |
| Dimensions (Ø x h)                 | mm×mm (in × ft) | 500 x 1500(20×4,92) | 700 x 1500(28 ×4,92) | 1130 x 1300 |
| <b>Stirrer :</b>                   |                 |                     |                      |             |
| Diameter                           | mm (in)         | 200(8)              | 370(14,8)            | 370(14,8)   |
| Installed power                    | kW              | 0,25                | 0,37                 | 0,37        |

| Sludge Treatment – dewatering bags     |                   |                                      |                                      |   |
|--|-------------------|--------------------------------------|--------------------------------------|---|
| No. bags                               | --                | 3                                    | 6                                    | 12                                      |
| Bags Dimensions (Ø x h)                | mm × mm (in × ft) | 200 x 600(8 × 1,97)                  | 200 x 600(8×1,97)                    | 200 x 600(8x1,97)                       |
| volume sludge                          | L (gal)           | 60(16)                               | 120(32)                              | 240(64)                                 |
| Dewatering unit dimensions (L x W x h) | mm (ft)           | 320 x 900 x 1200<br>(0,98×2,95×3,94) | 520 x 900 x 1200<br>(1,71×2,95×3,94) | 1030 x 1150 x 1335<br>(3,4 × 3,7 × 4,4) |

| Carbon filter :    |                   |                      |                    |                    |
|--------------------|-------------------|----------------------|--------------------|--------------------|
| Volume             | L (gal)           | 50(13)               | 100(26)            | 162(43)            |
| Dimensions (Ø x h) | mm × mm (in × ft) | 400 x 500(16 × 1,64) | 500 X 500(20×1,64) | 500 X 860(20x1,83) |

## LIQUID CHEMICAL TREATMENT EQUIPMENT

|                              |             |           |           |           |
|------------------------------|-------------|-----------|-----------|-----------|
| <b>Coagulant Dosing pump</b> |             |           |           |           |
| Type                         |             | Membrane  | Membrane  | Membrane  |
| Installed power              | kW          | 0,22      | 0,22      | 0,22      |
| flowrate                     | l/h (gal/h) | 8,5(2,21) | 8,5(2,21) | 8,5(2,21) |
| counterpression              | bar         | 3         | 3         | 3         |

|                                |             |           |           |           |
|--------------------------------|-------------|-----------|-----------|-----------|
| <b>Neutralizer Dosing pump</b> |             |           |           |           |
| Type                           |             | Membrane  | Membrane  | Membrane  |
| Installed power                | kW          | 0,22      | 0,22      | 0,22      |
| flowrate                       | l/h (gal/h) | 8,5(2,21) | 8,5(2,21) | 8,5(2,21) |
| counterpression                | bar         | 3         | 3         | 3         |

|                               |             |           |           |           |
|-------------------------------|-------------|-----------|-----------|-----------|
| <b>Flocculant Dosing pump</b> |             |           |           |           |
| Type                          |             | Membrane  | Membrane  | Membrane  |
| Installed power               | kW          | 0,22      | 0,22      | 0,22      |
| flowrate                      | l/h (gal/h) | 8,5(2,21) | 8,5(2,21) | 8,5(2,21) |
| counterpression               | bar         | 3         | 3         | 3         |

|                   |    |              |              |              |
|-------------------|----|--------------|--------------|--------------|
| <b>pH Control</b> |    |              |              |              |
| Electrode probe   | -- | Glass + bulb | Glass + bulb | Glass + Bulb |
| Transmitter       | -- | 4-20 mA      | 4-20 mA      | 4-20 mA      |
| Converter         | -- | Digital      | Digital      | Digital      |

|                       |         |               |               |               |
|-----------------------|---------|---------------|---------------|---------------|
| <b>Chemical Tanks</b> |         |               |               |               |
| Material              | --      | PP / PE / PVC | PP / PE / PVC | PP / PE / PVC |
| Volume                | L (gal) | 100(26)       | 100(26)       | 100(26)       |
| Diameter              | mm (in) | 480(19,2)     | 480(19,2)     | 480(19,2)     |
| Height                | mm (ft) | 680(2,23)     | 680(2,23)     | 680(2,23)     |

\* In VAMED10 the skid reactor is separated from sludge dewatering skid

## DESCRIPTION

VAMED is a standardized, preassembled waste water treatment system with the necessary components, such as electrical agitator, pumping systems, dosing units, reactor/sedimentator, activated carbon filter and controls.

## OPERATION

It is a continuous operating waste water treatment plant, according to the precipitation/flocculation principle, with a chemical powder agent or liquid chemical agents application, and with automatic adjustment of the pH value in reaction vessel. It includes an activated carbon filter for final purification.

*"simple and cost effective compact systems"*

