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### turbiti wall mount ozone

The ozone nanobubble mixer is a nanobubble generator which is specifically designed for the use with ozone. Research with universities has shown, that ozonated nanobubble water, keeps longer its ozone residue in the water than when it is used only with a venturi also the amount of ozone gassing out is reduced.

### turbiti wall mount ozone

#### turbiti ozone wall mounted nanobubble mixer with enhanced aeration technology

- Clean Tech chemical free cleaning solutions
- more efficient mass transfer of ozone and higher concentrations of dissolved ozone compared to using a venturi
- using the turbiti total mass transfer coefficient was 1.8 times higher than using a venturi
- maximizing the ozone surface area-to-volume ratio
- vise a stimulus and create a hydroxyl radical attack from ozone
- enhanced ozonation by using the ozone nanobubbles mixer
- use for disinfection of drinking water for animals

#### ozone nanobubble equipment

The ultrafine ozone bubble mixer is a nanobubble generator which is specifically designed for the use with ozone. Ozone is a powerful oxidant and has many industrial and consumer applications related to oxidation. The main application for ozone is disinfection, but ozone can also be used as a decolorizer, deodorizer, detoxifier, precipitant, coagulant and for removing tastes.

As nanobubbles become more mainstream, our clients have a need for an easy and safe setup for working with ozone gas. The ozone mixer unit contains a nanobubble mixer with a venturi which takes in the ozone under vacuum. The venturi is considered safe and commonly used in the industry to inject ozone into water. After the venturi has injected the ozone, the water and gas jointly get into the nanobubble mixer, where the ozone bubbles are generated.

#### research

Research with universities has shown, that ozonated nanobubble water, keeps longer its ozone residue in the water than when it is used only with a venturi also the amount of ozone gassing out is reduced.

#### clean-tech

The ozone nanobubble generator is suitable for many clean tech applications, especially when longer ozone exposure is required.

- Disinfection for water installations of greenhouses and hydroponics.
- Disinfection for drinking water for livestock, cattle, pork, pigs, poultry, chicken.
- Ozonation for wastewater installations.

The installation of the ozone nanobubble mixer is simple by connecting the water inlet and outlet and connect the ozone gas inlet tube. The unit itself doesn't require any power.

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# turbiti 838 o3 nanobubble mixer wall mounted specs

|    | Description                    | Metric                                                                     | Imperial                                                                   |
|----|--------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 1  | Model name                     | Turbiti 838 O3 wall<br>mounted                                             | Turbiti 838 O3 wall mounted                                                |
| 2  | Model number                   | turbiti_838_wallmount_g<br>alvanized-box                                   | turbiti_838_wallmount_galva<br>nized-box                                   |
|    | Liquid                         | Metric                                                                     | Imperial                                                                   |
| 3  | Minimum flow / minute          | 150 Liter                                                                  | 40 Gallon                                                                  |
| 4  | Maximum flow / minute          | 400 Liter                                                                  | 106 Gallon                                                                 |
| 5  | Minimum flow / hour            | 9.0 M3                                                                     | 317.8 CF                                                                   |
| 6  | Maximum flow / hour            | 24 M3                                                                      | 848 CF                                                                     |
| 7  | water temperature<br>minimum   | -20 °C                                                                     | -4 °F                                                                      |
| 8  | water temperature<br>maximum   | 50 °C                                                                      | 122 °F                                                                     |
| 9  | Strainer availability and size | No strainer, strainer<br>required when particles<br>larger than 1 or 2 mm. | No strainer, strainer<br>required when particles<br>larger than 1 or 2 mm. |
| 10 | Recommended inlet filter(s)    | Medium pump inlet filter series                                            | Medium pump inlet filter<br>series                                         |
|    | Ambient                        | Metric                                                                     | Imperial                                                                   |
| 11 | Ambient temperature<br>minimum | -20 °C                                                                     | -4 °F                                                                      |
| 12 | Ambient temperature<br>maximum | 50 °C                                                                      | 122 °F                                                                     |
| 13 | Relative humidity<br>minimum   | 1 %                                                                        | 1 %                                                                        |
| 14 | Relative humidity<br>maximum   | 100 %                                                                      | 100 %                                                                      |
|    | Gas                            | Metric                                                                     | Imperial                                                                   |



|    | Gas                                      | Metric                                                                                                | Imperial                                                                                              |
|----|------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 15 | Minimum flow / minute                    | 5.0 Liter                                                                                             | 1.3 Gallon                                                                                            |
| 16 | Maximum flow / minute                    | 8.0 Liter                                                                                             | 2.1 Gallon                                                                                            |
| 17 | Minimum flow / hour                      | 300 Liter                                                                                             | 79 Gallon                                                                                             |
| 18 | Maximum flow / hour                      | 480 Liter                                                                                             | 127 Gallon                                                                                            |
| 19 | Pressure minimum                         | 100 kPa                                                                                               | 15 PSI                                                                                                |
| 20 | Pressure maximum                         | 350 kPa                                                                                               | 51 PSI                                                                                                |
| 21 | Gas quality                              | Suitable for ozone                                                                                    | Suitable for ozone                                                                                    |
| 22 | Gas remark                               | Safe ozone injection via<br>a venturi under vacuum                                                    | Safe ozone injection via a venturi under vacuum                                                       |
|    | Electrical                               | Metric                                                                                                | Imperial                                                                                              |
| 23 | Unit phase Ø voltage                     |                                                                                                       |                                                                                                       |
| 24 | Unit power<br>consumption                | No pump included with<br>this product. Estimated<br>power consumption<br>750-1000 watts.              | No pump included with this product. Estimated power consumption 750-1000 watts.                       |
| 25 | Wetted parts                             | PVC, SUS304, SUS316,<br>PVDF, EPDM, Silicon,<br>Viton, PPS, FKM                                       | PVC, SUS304, SUS316,<br>PVDF, EPDM, Silicon, Viton,<br>PPS, FKM                                       |
| 26 | Pump model                               |                                                                                                       |                                                                                                       |
| 27 | Pump phase Ø voltage                     |                                                                                                       |                                                                                                       |
| 28 |                                          |                                                                                                       |                                                                                                       |
|    | Pump phase Ø voltage<br>60Hz             |                                                                                                       |                                                                                                       |
| 29 |                                          |                                                                                                       |                                                                                                       |
|    | 60Hz                                     | Manual control with<br>diaphragm valve to set<br>venturi-vacuum<br>accompanied with a<br>vacuum gauge | Manual control with<br>diaphragm valve to set<br>venturi-vacuum<br>accompanied with a vacuum<br>gauge |
| 29 | 60Hz<br>Pump pressure setting            | diaphragm valve to set<br>venturi-vacuum<br>accompanied with a                                        | diaphragm valve to set<br>venturi-vacuum<br>accompanied with a vacuum                                 |
| 29 | 60Hz<br>Pump pressure setting<br>Control | diaphragm valve to set<br>venturi-vacuum<br>accompanied with a<br>vacuum gauge                        | diaphragm valve to set<br>venturi-vacuum<br>accompanied with a vacuum<br>gauge                        |



|    | Connections                  | Metric                                                  | Imperial                                             |
|----|------------------------------|---------------------------------------------------------|------------------------------------------------------|
| 33 | Gas inlet                    | silicone hose 5x9mm<br>(inner x outer diameter<br>hose) | silicone hose 5x9mm (inner<br>x outer diameter hose) |
|    | Dimensions & weight          | Metric                                                  | Imperial                                             |
| 34 | Dim. (w) x (d) x (h)         | 650 x 270 x 1014 mm                                     | 25.6 x 10.6 x 39.9 inch                              |
| 35 | weight                       | 42 Kg                                                   | 92.6 lbs.                                            |
| 36 | Shipping dim.<br>(w)x(d)x(h) | 67 x 37 x 107 cm                                        | 26 x 15 x 42 inch                                    |
| 37 | Shipping weight              | 47 Kg                                                   | 104 lbs.                                             |

## turbiti 828 o3 nanobubble mixer wall mounted specs

|    | Description                    | Metric                                                                     | Imperial                                                                   |
|----|--------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 1  | Model name                     | Turbiti 828 O3 wall<br>mounted                                             | Turbiti 828 O3 wall mounted                                                |
| 2  | Model number                   | turbiti_828_wallmount_g<br>alvanized-box                                   | turbiti_828_wallmount_galva<br>nized-box                                   |
|    | Liquid                         | Metric                                                                     | Imperial                                                                   |
| 3  | Minimum flow / minute          | 75 Liter                                                                   | 20 Gallon                                                                  |
| 4  | Maximum flow / minute          | 150 Liter                                                                  | 40 Gallon                                                                  |
| 5  | Minimum flow / hour            | 4.5 M3                                                                     | 158.9 CF                                                                   |
| 6  | Maximum flow / hour            | 9.0 M3                                                                     | 317.8 CF                                                                   |
| 7  | water temperature<br>minimum   | -20 °C                                                                     | -4 °F                                                                      |
| 8  | water temperature<br>maximum   | 50 °C                                                                      | 122 °F                                                                     |
| 9  | Strainer availability and size | No strainer, strainer<br>required when particles<br>larger than 1 or 2 mm. | No strainer, strainer<br>required when particles<br>larger than 1 or 2 mm. |
| 10 | Recommended inlet filter(s)    | Medium pump inlet filter series                                            | Medium pump inlet filter series                                            |
|    | Ambient                        | Metric                                                                     | Imperial                                                                   |
| 11 | Ambient temperature<br>minimum | -20 °C                                                                     | -4 °F                                                                      |
| 12 | Ambient temperature<br>maximum | 50 °C                                                                      | 122 °F                                                                     |
| 13 | Relative humidity<br>minimum   | 1 %                                                                        | 1 %                                                                        |
| 14 | Relative humidity maximum      | 100 %                                                                      | 100 %                                                                      |
|    | Gas                            | Metric                                                                     | Imperial                                                                   |



|    | Gas                          | Metric                                                                                                | Imperial                                                                                              |
|----|------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 15 | Minimum flow / minute        | 3.0 Liter                                                                                             | 0.8 Gallon                                                                                            |
| 16 | Maximum flow / minute        | 5.0 Liter                                                                                             | 1.3 Gallon                                                                                            |
| 17 | Minimum flow / hour          | 180 Liter                                                                                             | 48 Gallon                                                                                             |
| 18 | Maximum flow / hour          | 300 Liter                                                                                             | 79 Gallon                                                                                             |
| 19 | Pressure minimum             | 100 kPa                                                                                               | 15 PSI                                                                                                |
| 20 | Pressure maximum             | 350 kPa                                                                                               | 51 PSI                                                                                                |
| 21 | Gas quality                  | Suitable for ozone                                                                                    | Suitable for ozone                                                                                    |
| 22 | Gas remark                   | Safe ozone injection via<br>a venturi under vacuum                                                    | Safe ozone injection via a venturi under vacuum                                                       |
|    | Electrical                   | Metric                                                                                                | Imperial                                                                                              |
| 23 | Unit phase Ø voltage         |                                                                                                       |                                                                                                       |
| 24 | Unit power<br>consumption    | No pump included with<br>this product. Estimated<br>power consumption<br>750-1000 watts.              | No pump included with this product. Estimated power consumption 750-1000 watts.                       |
| 25 | Wetted parts                 | PVC, SUS304, SUS316,<br>PVDF, EPDM, Silicon,<br>Viton, PPS, FKM                                       | PVC, SUS304, SUS316,<br>PVDF, EPDM, Silicon, Viton,<br>PPS, FKM                                       |
| 26 | Pump model                   |                                                                                                       |                                                                                                       |
| 27 | Pump phase Ø voltage         |                                                                                                       |                                                                                                       |
| 28 | Pump phase Ø voltage<br>60Hz |                                                                                                       |                                                                                                       |
| 29 | Pump pressure setting        |                                                                                                       |                                                                                                       |
| 30 | Control                      | Manual control with<br>diaphragm valve to set<br>venturi-vacuum<br>accompanied with a<br>vacuum gauge | Manual control with<br>diaphragm valve to set<br>venturi-vacuum<br>accompanied with a vacuum<br>gauge |
|    | Connections                  | Metric                                                                                                | Imperial                                                                                              |
| 31 | Water inlet                  | Rc 1.1/4", inner thread                                                                               | Rc 1.1/4", inner thread                                                                               |
| 32 | Water outlet                 | Rc 3/4", inner thread                                                                                 | Rc 3/4", inner thread                                                                                 |



|    | Connections                  | Metric                                                  | Imperial                                             |
|----|------------------------------|---------------------------------------------------------|------------------------------------------------------|
| 33 | Gas inlet                    | silicone hose 5x9mm<br>(inner x outer diameter<br>hose) | silicone hose 5x9mm (inner<br>x outer diameter hose) |
|    | Dimensions & weight          | Metric                                                  | Imperial                                             |
| 34 | Dim. (w) x (d) x (h)         | 650 x 270 x 1014 mm                                     | 25.6 x 10.6 x 39.9 inch                              |
| 35 | weight                       | 40 Kg                                                   | 88.2 lbs.                                            |
| 36 | Shipping dim.<br>(w)x(d)x(h) | 67 x 37 x 107 cm                                        | 26 x 15 x 42 inch                                    |
| 37 | Shipping weight              | 45 Kg                                                   | 99 lbs.                                              |