

# Mónafil

## Case Study



“Anua Clean Air International offer proven, patented clean air bio-technologies, which provide best-in-class process performance with the lowest utility and life cycle costs”

|                                     |                                    |                           |
|-------------------------------------|------------------------------------|---------------------------|
| <b>Product</b>                      | Mónafil                            |                           |
| <b>Industry</b>                     | Rendering                          |                           |
| <b>Site Location</b>                | Madrid, Spain                      |                           |
| <b>Application</b>                  | Rendering (Beef) Cat. 1, Cat. 3    |                           |
| <b>Year System Installed</b>        | 2007                               |                           |
| <b>Air Volume Being Treated</b>     | 40,000 - 80,000 m <sup>3</sup> /hr |                           |
| <b>Plant Dimensions [l x b x h]</b> | 16m x 16m x 3.2m                   |                           |
| <b>Volume of Media</b>              | 520 m <sup>3</sup>                 |                           |
| <b>Typical Media Life</b>           | > 10 years                         |                           |
| <b>Compound Being Treated</b>       | <b>Inlet Concentration Range</b>   | <b>Removal Efficiency</b> |
| <b>Odour</b>                        | 1000 - 10,000 OUE                  | 75% - 98%*                |
| <b>Amines</b>                       | 0 - 5 mg/m <sup>3</sup>            | 90% +                     |
| <b>Ammonia</b>                      | 0 - 20 mg/m <sup>3</sup>           | 95% +                     |

\* *Dependant on Contact Time Applied*



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| <b>Product</b>                      | Mónafil                          |                           |
| <b>Industry</b>                     | Composting                       |                           |
| <b>Site Location</b>                | Nice, France                     |                           |
| <b>Application</b>                  | Municipal Solid Waste Composting |                           |
| <b>Year System Installed</b>        | 2010                             |                           |
| <b>Air Volume Being Treated</b>     | 144,000 m <sup>3</sup> /hr       |                           |
| <b>Plant Dimensions [l x b x h]</b> | 30m x 30m x 3.2m                 |                           |
| <b>Volume of Media</b>              | 1,800 m <sup>3</sup>             |                           |
| <b>Typical Media Life</b>           | > 7 years                        |                           |
| <b>Compound Being Treated</b>       | <b>Inlet Concentration Range</b> | <b>Removal Efficiency</b> |
| <b>Odour</b>                        | 1000 - 20,000 OUE                | 98% +                     |
| <b>H<sub>2</sub>S</b>               | 10 mg/m <sup>3</sup>             | 99% +                     |
| <b>VOC's</b>                        | 50 - 200 mgC/m <sup>3</sup>      | 80% +                     |



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| <b>Product</b>                      | Mónafil                          |                           |
| <b>Industry</b>                     | Composting                       |                           |
| <b>Site Location</b>                | Barcelona, Spain                 |                           |
| <b>Application</b>                  | Composting Plant                 |                           |
| <b>Year System Installed</b>        | 2009                             |                           |
| <b>Air Volume Being Treated</b>     | 300,000 m <sup>3</sup> /hr       |                           |
| <b>Plant Dimensions [l x b x h]</b> | 39m x 39m x 3.2m                 |                           |
| <b>Volume of Media</b>              | 3,000 m <sup>3</sup>             |                           |
| <b>Typical Media Life</b>           | > 7 years                        |                           |
| <b>Compound Being Treated</b>       | <b>Inlet Concentration Range</b> | <b>Removal Efficiency</b> |
| <b>Odour</b>                        | < 40,000 OUE/m <sup>3</sup>      | 98% +                     |



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| <b>Product</b>                      | Mónafil                            |                           |
| <b>Industry</b>                     | Rendering                          |                           |
| <b>Site Location</b>                | Avellino, Italy                    |                           |
| <b>Application</b>                  | Rendering (Beef)                   |                           |
| <b>Year System Installed</b>        | 2012                               |                           |
| <b>Air Volume Being Treated</b>     | 23,450 – 57,500 m <sup>3</sup> /hr |                           |
| <b>Plant Dimensions [l x b x h]</b> | 14m x 14m x 3.2m                   |                           |
| <b>Volume of Media</b>              | 390 m <sup>3</sup>                 |                           |
| <b>Typical Media Life</b>           | > 5 Years                          |                           |
| <b>Compound Being Treated</b>       | <b>Inlet Concentration Range</b>   | <b>Removal Efficiency</b> |
| <b>Odour</b>                        | 1000 - 10,000 OUE                  | > 90%*                    |

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