

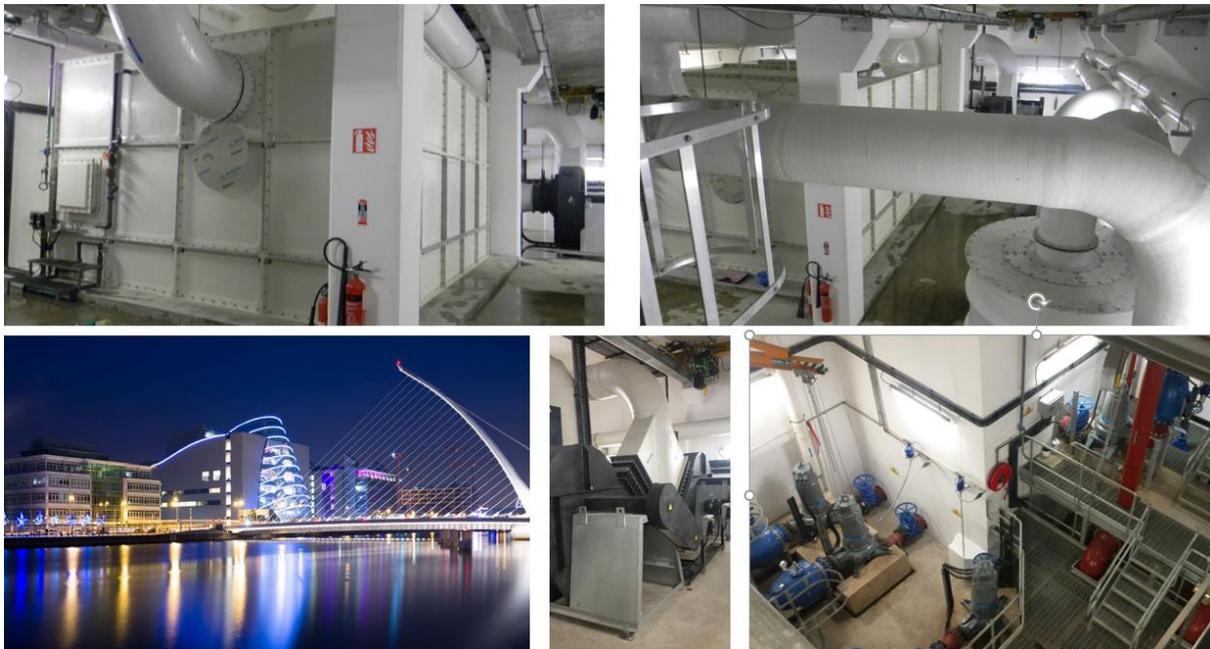
# Mónashell

## 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>	Mónashell Single Stage & GAC Polishing Filter	
<b>Industry</b>	Municipal Wastewater	
<b>Site Location</b>	Dublin, Ireland	
<b>Application</b>	Pumping Station	
<b>Year System Installed</b>	2012	
<b>Air Volume Being Treated</b>	5,500 – 17,700 m <sup>3</sup> /hr	
<b>Plant Dimensions [l x b x h]</b>	6.25m x 5.03m x 3.05m	
<b>Volume of Media</b>	56 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>	0 - 500 OU <sub>E</sub>	98% +
<b>H<sub>2</sub>S</b>	2 - 20ppm	99% +



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<b>Product</b>	2 No. Mónashell Dual Pass OCU's	
<b>Industry</b>	Municipal Wastewater	
<b>Site Location</b>	Cavan, Ireland	
<b>Application</b>	Wastewater Treatment Plant	
<b>Year System Installed</b>	2014	
<b>Air Volume Being Treated</b>	6,700 m <sup>3</sup> /hr Each	
<b>Plant Dimensions [l x b x h]</b>	6.1 m x 2.5m x 2.7m	
<b>Volume of Media</b>	45 m <sup>3</sup> /Unit	
<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 - 50,000 OU <sub>E</sub>	98%
<b>H<sub>2</sub>S</b>	0 - 10ppm	> 99%
<b>VOC's</b>	70 - 100 mgC/m <sup>3</sup>	> 50%



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<b>Product</b>	Single Pass & GAC Polishing Filter	
<b>Industry</b>	Municipal Wastewater	
<b>Site Location</b>	Crossness, London	
<b>Application</b>	STW's - Primary Treatment	
<b>Year System Installed</b>	2014	
<b>Air Volume Being Treated</b>	30,420 m <sup>3</sup> /hr	
<b>Plant Dimensions [l x b x h]</b>	11.13m x 9.91m x 2.59m	
<b>Volume of Media</b>	203 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>	10,000 – 30,000 OUE	> 99.9%
<b>H<sub>2</sub>S</b>	15 - 50ppm	> 95%



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<b>Product</b>	CrumRubber/Monashell Triple Pass Hybrid OCU	
<b>Industry</b>	Municipal Wastewater	
<b>Site Location</b>	Dublin, Ireland	
<b>Application</b>	Treatment of High Levels of H <sub>2</sub> S from the Sludge Centrifuges.	
<b>Year System Installed</b>	2014	
<b>Air Volume Being Treated</b>	10,000 m <sup>3</sup> /hr	
<b>Plant Dimensions [l x b x h]</b>	CrumRubber [Stage 1] [7.5 m x 5 m x 3.8 m] Mónashell [Stages 2 & 3] 14.8m x 5 m x 3.8 m	
<b>Volume of Media</b>	321 m <sup>3</sup>	
<b>Typical Expected Media Life</b>	> 7 years [Stage 1] 2 Years Stage [2 and 3]	
<b>Compound Being Treated</b>	<b>Inlet Concentration Range</b>	<b>Removal Efficiency</b>
<b>Odour</b>	1,044,000 OUE	99% +
<b>H<sub>2</sub>S</b>	50 - 505ppm (950ppm Peak)	98% +

