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SUCCESS STORY



Project Name: Fond de Rade

Project Description:

New installation to protect Grundfos pumps

Contact Info:

Hydrotec Sarl
BP 16-26230
Grignan
France

Site Address:

NICE

Competitor Info:

Mono TR Muncher

APPLICATION DATA:

Flow Capacity:
350 to 400m³/hr Raw Sewage

D.S %:
Unknown

Motor Size & Protection:
3.7kW IP68

Unit Model Number:
30004T-B300-DI
Fitted with IP68 Motor

Serial Number:
106203-1-1
106203-1-2
106203-1-3

Special Features:
None

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JWCI were given the design criteria to supply Muffin Monsters for a new installation in Nice where a bank of Grundfos pumps needed protecting from rags. Critical to the installation was minimising the frictional loss that results from installing a grinder. We were given a frictional loss range to work with and subsequently we selected the Muffin Monster 30004T-B300-DI. To prove that JWCI could meet the frictional loss requirements, Grundfos tested a Muffin Monster and a Mono TR Muncher at a site in Denmark to determine which grinder had the lowest frictional loss. JWCI supplied theoretical data from our flow curves (see over) and after the subsequent tests were completed the results showed that this value was less than forecast and significantly less than the Mono unit. The following page shows both graph's with the plotted results.



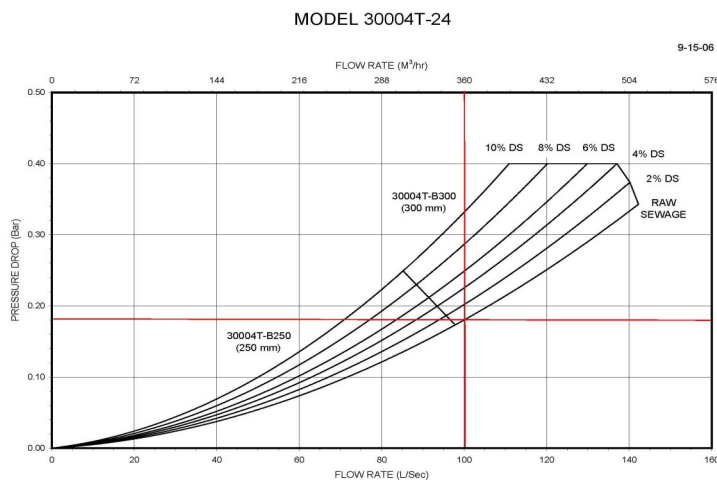
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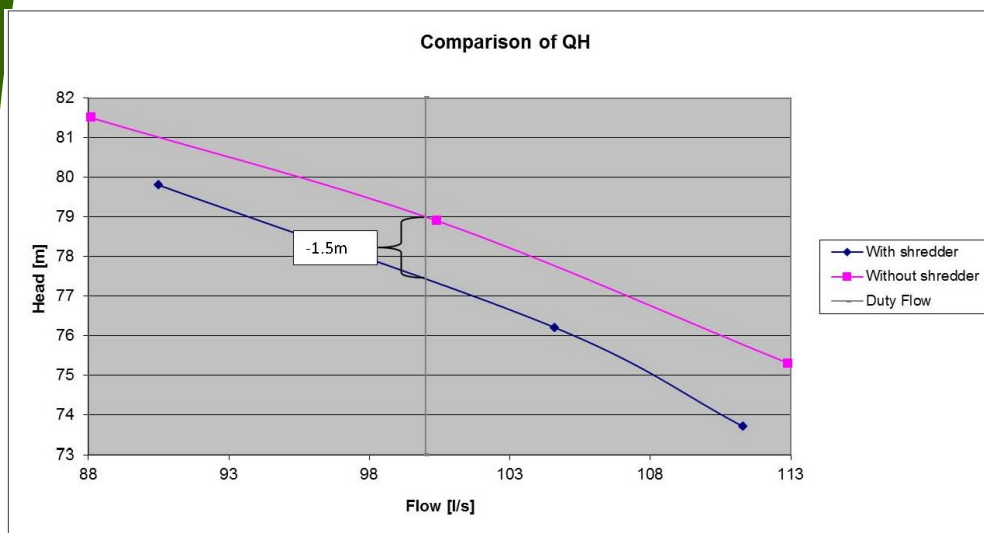
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The JWCI flow curve shows that when operating on raw sewage at a flow rate of 100 l/s the theoretical head drop will be 1800mm using a 30004T-B300-DI. This is shown on the opposite flow curve.



The graph below has been supplied by Hydro-Tech France, showing the actual results from the Muffin Monster test. The two lines represent head loss with and without a grinder. At the duty flow of 100 l/s

Grundfoss calculated the actual head drop was 1500mm giving a 12% reduction in the theoretical data. This head drop was also significantly lower than the Mono unit that was compared. This resulted in JWCI securing the full order. All three units have now been working over two years with zero pump blockages.



Information:

For more information on how to read a JWCI flow curve please refer to the JWCI Engineering CD where there is a step by step guide.



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oil

