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Pharmaceutical applications

16 May 2012

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Air handling

» Monitor

- Flow turbulence (broadband energy, velocity)
- Potential cavitation problems (broadband energy, acceleration)
- Blade pass frequencies (BPF – discrete frequencies with harmonics)
- Trim balance the rotors on the air handlers (1x running speed)

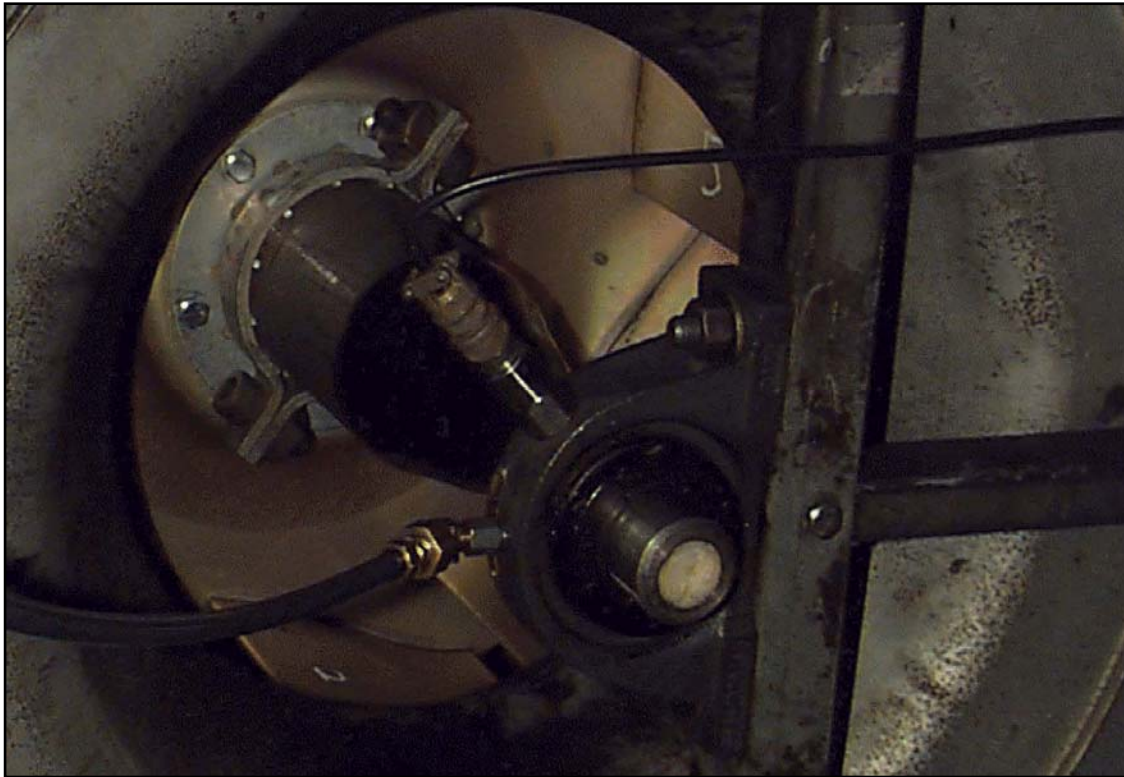


Pharmaceutical application Wilcoxon Research products

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Air Handler



Wilcoxon Research models used: 780A and 786A

Pharmaceutical application Wilcoxon Research products

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Chemical shaker

» Monitor

- The bearings of a low vibration level chemical shaker (machinery maintenance – discrete frequencies)
- The vibration level of the shaker (process measure – broadband energy)



Pharmaceutical application Wilcoxon Research products

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Chemical shaker



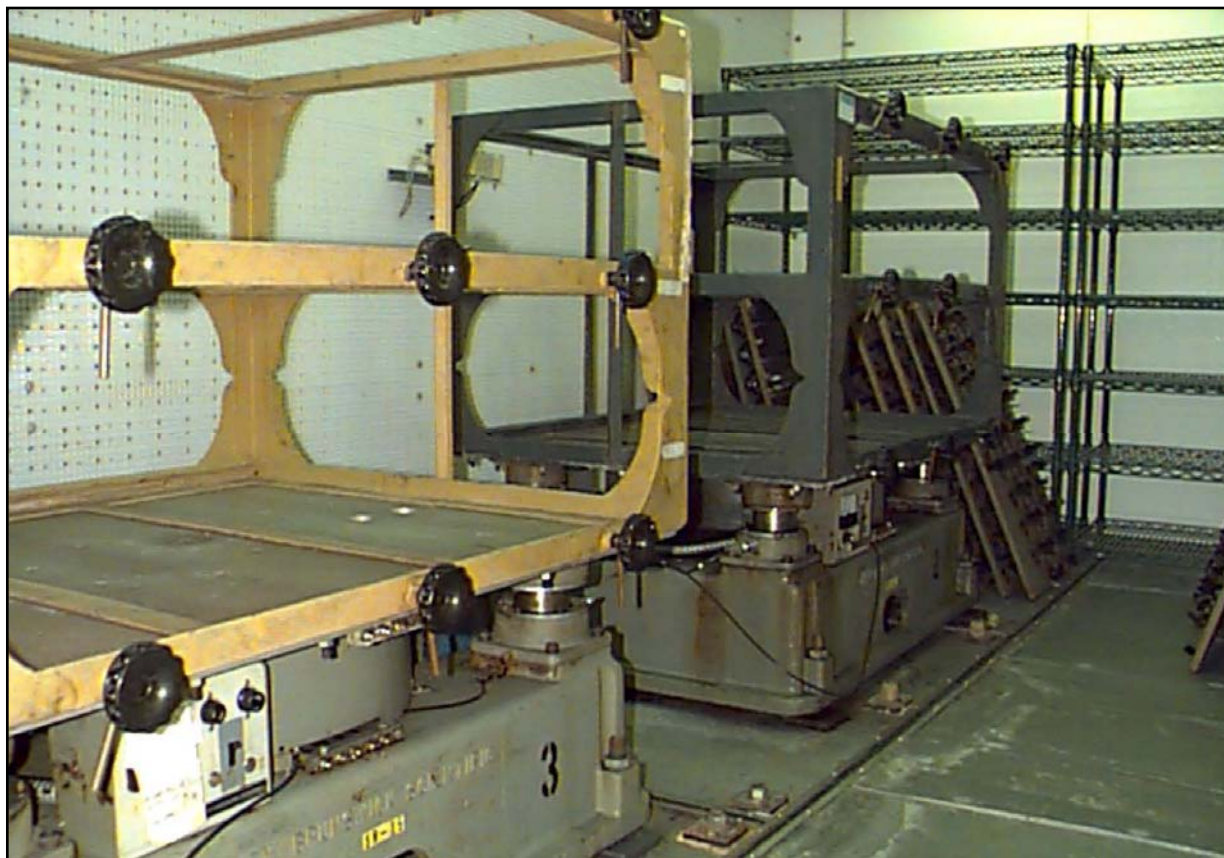
Wilcoxon Research model used: 786A

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Chemical shaker



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Cooling tower application

» Monitor

- The shaft on a low speed fan for imbalance (gearbox output, <100 rpm)
- Motors and gearboxes (1x, gearmesh and harmonics)
- Blade imbalance (Low speed 1x)
- Bearing wear (high frequency metal to metal contact)

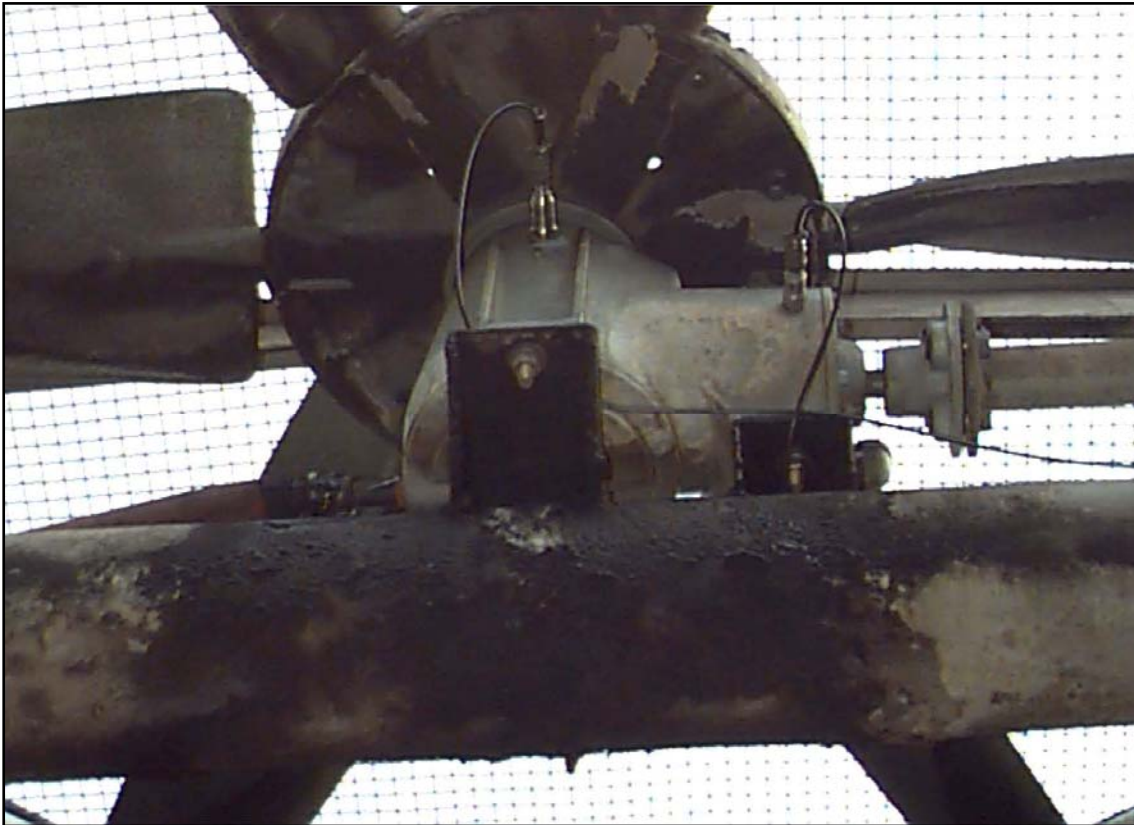


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Cooling tower fan



Wilcoxon Research model used: 793L and 786A

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