

Vibration Troubleshooting

Excessive cooling tower vibration is a problem to be avoided. At the very least, vibration can cause excessive noise. At the other end of the spectrum, depending on the source of the vibration, it can result in serious damage to the cooling tower itself. Early detection and inspection of the cooling tower to find the source of the vibration (shaft misalignment, broken gear teeth, imbalances etc.) are key to avoiding downtime and more serious structural damage.

Things to check:

- **Fan:** Check fan blades to be sure they are installed properly and hardware correctly tightened to spec. Make sure all of the blades are pitched at the same angle. Check fan tip clearance within cylinder.
- **Geareducer® Drive:** Check that oil level is correct, hardware is tight and alignment pins are properly installed.
- **Close Coupling / Driveshaft:** Check that all hardware including set screws are tight. Verify alignment measurements are within spec (see component's user manual for instructions).
- **Motor:** Check that all mounting hardware is tight. Confirm any greaseable bearings have been recently serviced. If equipped with a space heater, check installation and operation. Confirm drain plugs are correctly installed.
- **Structure:** If the casing panels are vibrating, make sure casing stiffeners are installed properly.
- **Fan Cylinder:** If the fan cylinder has stiffener rings check to be sure they are installed correctly.
- **Belt Drive:** Check belt alignment and tension. See *Belt Drive Troubleshooting SB-25* for additional information.
- **Tower Resonance:** If the vibration only occurs at an intermediate speed and then goes down as the tower gets up to full speed, this is a resonance. Any resonant speeds should be locked out in the VFD. A typical lockout range is 2-5Hz. Anytime the vibration exceeds 0.5 in/s that speed should be locked out to prevent operating in a resonant speed.

• **Vibration Level:** If the vibration is above 0.5 in/s at full fan speed, contact SPX Cooling engineering.

• **Vibration Switch:** Check that the vibration switch is installed and functioning correctly. Confirm no water is in the switch housing and connections aren't damaged.

Vibration Switch Troubleshooting

IM1685A Mechanical Switch

The primary function of a mechanical switch is to shut down the tower in the event of a catastrophic failure. If the previous checks are all good, raise the setpoint of the mechanical switch until it no longer trips during operation.

Make sure the switch is set per "Factory Setting" before making any adjustments.

To confirm factory setting remove the cover and measure the gap distance between the edges of the cylinder and the square magnet. If the gap setting is not 1/4" rotate the adjustment screw clockwise or counter clockwise until a 1/4" gap is obtained.



Pocket Vibration Troubleshooting Guide

Sue O'Very



Pocket Vibration Troubleshooting Guide:

Operator's Guide to Process Compressors Robert X. Perez, 2019-04-08 The perfect primer for anyone responsible for operating or maintaining process gas compressors Gas compressors tend to be the largest most costly and most critical machines employed in chemical and gas transfer processes Since they tend to have the greatest effect on the reliability of processes they power compressors typically receive the most scrutiny of all the machinery among the general population of processing equipment To prevent unwanted compressor failures from occurring operators must be taught how their equipment should operate and how each installation is different from one another The ultimate purpose of this book is to teach those who work in process settings more about gas compressors so they can start up and operate them correctly and monitor their condition with more confidence Some may regard compressor technology as too broad and complex a topic for operating personnel to fully understand but the author has distilled this vast body of knowledge into some key easy to understand lessons for the reader to study at his or her own pace This groundbreaking new work is a must have for any engineer operator or manager working with process compressors The main goals of this book are to Explain important theories and concepts about gases and compression processes with a minimum of mathematics Identify key compressor components and explain how they affect reliability Explain how centrifugal compressors reciprocating compressors and screw compressors function Explain key operating factors that affect reliability Introduce the reader to basic troubleshooting methodologies Introduce operators to proven field inspection techniques Improve the confidence of personnel operating compressors by teaching them the basics of compressor theory Improve compressor reliability plantwide by teaching operating and inspection best practices Improve communication between operating and supporting plant personnel by providing a common vocabulary of compressor terms Help processing plants avoid costly failures by teaching operators how to identify early compressor issues during field inspections

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maintain and troubleshoot electrical equipment and systems this quick look up pocket sized resource delivers key information where you need it most on the job **Process Machinery Handbook** Robert X. Perez, 2025-06-10 Process Machinery Handbook For Field Personnel Decision Makers and Students equips newcomers and seasoned professionals with essential insights into the diverse world of process machinery empowering them to understand unique performance characteristics common failure modes and effective strategies for enhancing reliability in their operations Any professional working at a production site for any length of time knows that process machinery comes in a wide range of designs and sizes but not all process machines are considered equal Some machines are more critical to the process than others some are small some are very large some spin fast and some turn relatively slowly The great diversity in their construction and application can be daunting to those new to the industry and sometimes even challenge machinery veterans There are many common concepts that apply to all equipment types but each equipment category has its own unique application and performance characteristics including cavitation in liquid handling pumps surging in centrifugal gas compressors rotor instability in high speed centrifugal compressors and the effect of the compression ratio on a reciprocating compressor s the discharge temperature It is also essential for users to understand how and why different types of machinery fail keeping in mind that the common failure modes differ greatly between rotating machinery types We know that by addressing the common types of failure modes associated with each machine type we can achieve significant improvements in their reliability The first step in organizing an effective machinery reliability program is committing to performing failure analyses and gathering failure statistics These activities will help users learn how and why their machines are failing The next step is to continuously modify machines processes and methods to avoid common failures Process Machinery Handbook For Field Personnel Decision Makers and Students gives students and professionals alike the tools they need to understand the fundamentals of working with rotating machinery **Electrician's Pocket Manual** Rex Miller, 2005-08-30 Complete compact and featuring formulas tables and diagrams in place of lengthy text descriptions this handy reference delivers job essential information in a quick look up format The new Second edition has been updated to include the 2005 National Electrical Code new symbols for electrical drafting now being used in CAD drafting additional coverage of co axial cable in home wiring and more on electric motors and controls **Boat Mechanical Systems Handbook (PB)** Dave Gerr, 2009-01-09 The First Ever Guide for Optimizing Boat Systems This guide is invaluable for anyone designing or installing mechanical systems on a new boat retrofitting an existing boat or evaluating a boat s operating condition Writing for designers builders owners buyers mechanics surveyors and insurers of sailboats powerboats and commercial vessels Dave Gerr provides design and installation guidance for each major mechanical system plus pragmatic guidelines and real world interpretations of American Boat there s no mention of sailing rigs but every other conceivable system is covered more or less exhaustively PETER NIELSEN SAIL November 2009 Praise for Dave Gerr s previous books The Elements of Boat

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full 1080p HD resolution video recording and Siri an intelligent assistant that helps you get things done just by asking

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