



BY JOHNSON CONTROLS

START-UP CHECKLIST

AIR HANDLING UNITS

Supersedes: 100.00-CL1 (309)

Form 100.00-CL1 (909)

AIR HANDLER START-UP CHECKLIST

OFFICE LOCATION _____	UNIT TAG # _____
QUALIFIED TECHNICIAN _____	UNIT MODEL # _____
JOB NAME _____	UNIT SERIAL # _____
YORK JOB ID OR CONTRACT # _____	START DATE _____
JOB SITE LOCATION _____	
JOB SITE CONTACT AND PHONE # _____	

IMPORTANT SAFETY REQUIREMENT: FOLLOW THE LATEST "LOCK OUT TAG OUT" PROCEDURE.

PRE START-UP

GENERAL UNIT INSPECTION

Identify and perform appropriate "lock out/tag out" and safety rules. For details on points below see appropriate section of the Installation Instruction provided with each air handler.

For VFD equipped air handlers, refer to the VFD forms for additional requirements.



Serious damage to the AHU and/or system is eminent if the AHU is operated under any of the following conditions:

- Without proper control of dampers.

- With smoke dampers closed.
- During a fire alarm or smoke purge test.
- Any airflow restriction greater than normal.

Solution	AH Units	Form	102.20-NOM1	Air Modulator	VFD	Form	100.41-NO1
Custom	AH Units	Form	100.31-NOM1				
<input type="checkbox"/> Equipment received as ordered.				<input type="checkbox"/> Verify all ductwork is complete and available for full air flow.			
<input type="checkbox"/> Unit checked for damage to interior and exterior.				<input type="checkbox"/> Unit installed with proper clearances.			
<input type="checkbox"/> Unit installed on flat and level surface. Outdoor unit mounted within roof slope limitations where applicable.				<input type="checkbox"/> Visually inspect roof curb for tight seal around unit.			
<input type="checkbox"/> Terminal screws and wiring connections secure in control, electric and Air Modulator panels.				<input type="checkbox"/> Clean air filters installed properly and secured.			
<input type="checkbox"/> Air hoods installed properly.				<input type="checkbox"/> Filter gauge set to zero.			
<input type="checkbox"/> Condensate drain properly trapped.				<input type="checkbox"/> All field wiring complete and inspected.			
<input type="checkbox"/> All wiring and tubing connections made at shipping splits.				<input type="checkbox"/> All shipping splits sealed and secured properly.			
<input type="checkbox"/> All field piping connections complete.				<input type="checkbox"/> Pipe chase floor sealed at penetrations.			
<input type="checkbox"/> All shipped loose parts installed.				<input type="checkbox"/> All shipping bolts and other material have been removed. (Fan, VtFB, Energy Recovery Wheel, Damper).			
<input type="checkbox"/> Installer has cleaned out interior.				<input type="checkbox"/> Damper linkage is tight and in correct "power off" position.			
<input type="checkbox"/> Verify all plug-ins and wire connections are tight on UV equipment.				<input type="checkbox"/> Controls installation complete.			
<input type="checkbox"/> Verify Energy Recovery Wheel turns freely and wheel segments are fully engaged.				<input type="checkbox"/> Verify correct piping of split system. Reference Section 2 of Solution IOM & Split System Application Guide (050.40-ES3).			

FAN INSPECTION

<input type="checkbox"/> Check bearings and locking collars for properly tightened set screws, bolts and nuts.	<input type="checkbox"/> Fan wheel properly aligned, tight on shaft and freely moving.
<input type="checkbox"/> Sheaves properly aligned and tight on shaft.	<input type="checkbox"/> Check fan base isolators and thrust restraints for proper adjustment. Note: Do not remove functional bolts from seismic isolators.
<input type="checkbox"/> Belt tension adjusted properly per drive pkg. label on fan.	
<input type="checkbox"/> Check fan alignment with unit discharge. Adjust with isolation.	<input type="checkbox"/> Fan bearings have been re-lubricated properly.

Air Handler Maintenance Checklist

VIJENRA KUMAR

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the name bar.

Air Handler Maintenance Checklist:

Hvac maintenance Quick reference checklist, toolkit Charles Nehme, The world of HVAC is constantly evolving with new technologies and energy efficiency standards emerging at a rapid pace This HVAC Maintenance Quick Reference Checklist Toolkit is designed to be your indispensable guide through the complexities of modern heating ventilation and air conditioning systems It s a hands on manual built not just for reading but for doing Our goal is to provide a comprehensive yet easy to use resource that distills decades of practical experience into actionable checklists By focusing on systematic maintenance and troubleshooting this book aims to help you ensure optimal system performance enhance safety and extend the lifespan of valuable equipment Whether you re a seasoned professional or just starting your journey in the field this toolkit is meant to be a constant companion helping you tackle any challenge with confidence and precision Professional Guide for HVAC Technicians & Engineers AHU, FCU, TFA & VAV Box - Operation, Installation & Troubleshooting VIJENRA KUMAR,2026-01-01 AHU FCU TFA VAV Box Operation Installation Troubleshooting and More Are you working with HVAC air systems every day but still facing confusion during installation operation or fault finding This book is your complete practical and field focused guide to mastering HVAC air distribution systems from basics to advanced troubleshooting Designed especially for HVAC technicians site engineers maintenance professionals and freshers this guide explains AHU FCU TFA and VAV Box systems in a simple step by step real world manner exactly the way work happens on site

Handbook of Indoor Air Quality Yinping Zhang, Philip K. Hopke, Corinne Mandin, 2022-11-23 People live in indoor environment about 90% of lifetime and an adult inhales about 15 kg air each day over 75% of the human body s daily mass intake air food water Therefore indoor air quality IAQ is very important to human health This book provides the basic knowledge of IAQ and highlights the research achievements in the past two decades It covers the following 12 sections introduction indoor air chemicals indoor air particles measurement and evaluation source sink characteristics indoor chemistry human exposure to indoor pollutants health effects and health risk assessment IAQ and cognitive performance standards and guidelines IAQ control and air quality in various indoor environments It provides a combination of an introduction to various aspects on IAQ studies the current state of knowledge various advances and the perspective of IAQ studies It will be very helpful for the researchers and technicians in the IAQ and the related fields It is also useful for experts in other fields and general readers who want to obtain a basic understanding of and research advances in the field of IAQ A group of experts in IAQ research have been recruited to write the chapters Their research interests and experience cover the scope of the book In addition some experienced experts in IAQ field have been invited as advisors or reviewers to give their comments suggestions and revisions on the handbook framework and the chapter details Their contribution guarantees the quality of the book We are very grateful to them Last but not least we express our heartfelt thanks to Prof Spengler Harvard University for writing the foreword of the current Handbook of Indoor Air Quality both as a pioneer scientist who contributed

greatly to indoor air science and as an Editor in chief of Handbook of Indoor Air Quality 2001 1st ed New York McGraw Hill In addition to hard copies the book is also published online and will be updated by the authors as needed to keep it aligned with current knowledge These salient features can make the handbook fresh with the research development *HVAC and Refrigeration Preventive Maintenance* Eric Kleinert, 2014-11-12 Keep HVAC and refrigeration equipment running at peak performance In this practical resource a veteran service and repair professional with decades of hands on experience walks you through the preventive maintenance process for residential and commercial HVAC and refrigeration systems You ll learn how to inspect adjust clean and test your products to ensure that they run efficiently and have a long service life Ideal for experienced service technicians entry level technicians business owners maintenance engineers and do it yourself homeowners this highly visual manual is filled with detailed instructions and clear photos and diagrams Useful icons throughout the book indicate the degree of difficulty for each procedure Save money and time improve indoor air quality and get maximum use from HVAC and refrigeration machines with help from this step by step guide HVAC and Refrigeration Preventive Maintenance covers Safety practices Tools needed for installation repair and preventive maintenance Indoor air quality IAQ Test and balance Principles of air conditioning and refrigeration Basic electricity and electronics Gas Oil Room air conditioners Residential air conditioning and heating Residential refrigeration appliances Commercial air conditioning and heating Water towers Self contained commercial refrigerators and freezers Commercial ice machines Troubleshooting Where to get help **HVAC System Repair** Charles Nehme, Navigating the HVAC System Repair Journey In the realm of home comfort few things are as integral as a well functioning HVAC Heating Ventilation and Air Conditioning system It s the silent guardian that keeps us warm in the winter cool in the summer and ensures the air we breathe is of the utmost quality However like any complex mechanical system HVAC units are not immune to wear and tear They require attention understanding and occasional repair to continue operating at their best This book is a comprehensive guide designed to assist homeowners on their HVAC system repair journey Whether you are a seasoned DIY enthusiast or someone who is unfamiliar with the intricacies of HVAC systems this guide is crafted to provide you with valuable insights practical advice and expert knowledge From troubleshooting common issues to understanding the nuances of system components our aim is to empower you to make informed decisions about your HVAC system s health Throughout these pages you will delve into the fundamentals of HVAC systems You will learn to decipher the mysterious hums and clicks understand the significance of regular maintenance explore energy efficient upgrades and embrace the future of sustainable home climate control Each chapter is a stepping stone guiding you through the labyrinth of HVAC technology terminology and repair techniques We understand that the world of HVAC systems can be daunting It s a world filled with jargon intricate parts and seemingly endless choices But fear not Within these chapters you will find not just technical knowledge but also practical wisdom garnered from years of experience We ll address your concerns unravel the complexities and provide you with the tools to

confidently troubleshoot maintain and even upgrade your HVAC system Remember this book is more than just a guide it s a companion on your journey toward a comfortable efficient and sustainable home So whether you re facing a sudden breakdown seeking ways to enhance your system s efficiency or simply curious about the workings of your HVAC unit you ve come to the right place Let s embark on this enlightening expedition through the world of HVAC system repair together By the end of this journey we hope you not only have a repaired HVAC system but also a deeper understanding of the technology that makes your home a haven of comfort Welcome aboard

HVAC Maintenance and Operations Handbook Robert C. Rosaler,1998 Part I Introduction Glossary of HVAC Terms The HVAC Design Factor Building Design and Equipment Location Part II Commissioning Introduction to Commissioning The Commissioning Process The Commissioning Specification Commissioning Check Lists Commissioning Computer Based Control Systems Part III Management of Maintenance and Repair Strategic Planning Preventive Predictive Proactive Maintenance Maintenance In House versus Outsourcing Computerized Maintenance Reliability Centered Maintenance Stores and Parts Management Part IV Maintenance and Repair Technology Piping and Ductwork Air Moving Equipment Pumps and Valves Heating Equipment Cooling Equipment Air Distribution System Control Equipment Condensate Control

Environmental Compliance Guide for Facility Managers and Engineers Rengasamy Kasinathan,2022-07-29 A practical guide for facility engineers and managers to understand the impact of environmental regulations when applied to operating equipment in any industry or facility It lays out a clear road map on how to learn the essential steps and how to use the proper tools Based on the author s 39 year experience this concise material discusses real life applications and case studies adopted and implemented successfully in many NYC facilities and appropriate for large cities It will help facility engineers comply with various rules and regulations of the jurisdictions of EPA state city and local agencies and properly itemize reporting requirements Features include Guides facility engineers and managers with a clear and logical exposition of topics developments and valuable regulatory frameworks for appropriate preparation and compliance Provides detailed explanations of procedures for emission reduction and improved efficiency and productivity Emphasizes the importance of continuing education in compliance to prevent high penalties for facilities Includes real life applications and case studies on reducing energy baseline and current operating methods providing formulas and calculations Addresses regulatory knowledge for operating systems in cities with a dense population in the US and countries with similar regulatory frameworks This book will benefit professionals engineers facility and project managers building and grounds supervisors code compliance managers and heating ventilation air conditioning HVAC systems contractors and installers in hospitals universities schools and other facilities

Cost Planning and Estimating for Facilities Maintenance RSMeans,R.S. Means Company,1996-05-24 A comprehensive approach to maintenance and repair planning and budgeting for all major building types Facilities professionals faced with the task of providing higher quality services on smaller budgets will find guidance for evaluating and budgeting facilities operations maintaining and repairing

major building components and assembling costs into a defensible budget HVAC Health Risks: Impact of Poor Design on Respiratory Health Charles Nehme, Indoor air quality IAQ is a critical yet often overlooked aspect of building design and HVAC engineering While HVAC systems are meant to provide thermal comfort and proper ventilation poorly designed or maintained systems can become a major source of indoor air pollution leading to significant health concerns Among these issues respiratory illnesses allergic reactions and Sick Building Syndrome SBS have emerged as growing problems in both residential and commercial buildings This book HVAC Induced Health Issues aims to shed light on the crucial relationship between HVAC design and human health Through in depth analysis real world case studies and expert insights it investigates how deficiencies in ventilation filtration humidity control and airflow management contribute to health problems It also explores the role of contaminants such as mold volatile organic compounds VOCs and airborne pathogens that thrive in poorly managed HVAC environments As an HVAC professional with years of experience in system design troubleshooting and energy efficient solutions I have encountered numerous cases where building occupants suffered due to overlooked HVAC related health risks This book is written not only for HVAC engineers and building designers but also for facility managers health professionals and anyone concerned with the air quality of their indoor spaces By identifying the key factors that contribute to poor IAQ and discussing best practices for mitigation this book serves as both a warning and a guide The goal is to bridge the gap between engineering and public health ensuring that HVAC systems are designed and maintained with occupant well being in mind I hope this book will inspire a more health conscious approach to HVAC system design and encourage industry professionals to prioritize air quality alongside efficiency and cost effectiveness Charles Nehme

Monthly Catalog of United States Government Publications ,1994 **Indoor Air Quality Handbook** John D.

Spengler,John F. McCarthy,Jonathan M. Samet,2001-01-09 Tackles the complex environmental issue of Indoor Air Quality IAQ for industrial hygienists HVAC engineers architects and anyone else concerned with the air quality of interiors Infused with charts tables and all the major formulas and calculations necessary to monitor and characterize a particular environment Includes all relevant codes standards and guidelines **HVAC** Ali Vedavarz,Sunil Kumar,Muhammed Iqbal Hussain,2007 A comprehensive handbook and essential reference providing instant access to all the data calculations and equations needed for modern HVAC design ASHRAE Journal ,1996 **Management Resource Series** ,1992

Accident Prevention Manual for Business & Industry Gary R. Krieger,2000 **HVAC Handbook** Robert Rosaler,2004-07-27 This comprehensive handbook provides instant access to all the data calculations and equations needed for modern HVAC design Detailing up to the minute design methods operation and maintenance procedures and energy conservation and efficiency tools this essential reference provides a single volume solution to a myriad of HVAC design needs Includes both SI and metric units Controls and control systems Maintenance troubleshooting and repair Indoor air quality control **The Virginia Engineer** ,1997 **Guide to Energy Conservation for Grocery Stores** United States. Office of

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Table of Contents Air Handler Maintenance Checklist

1. Understanding the eBook Air Handler Maintenance Checklist
 - The Rise of Digital Reading Air Handler Maintenance Checklist
 - Advantages of eBooks Over Traditional Books
2. Identifying Air Handler Maintenance Checklist
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Air Handler Maintenance Checklist
 - User-Friendly Interface
4. Exploring eBook Recommendations from Air Handler Maintenance Checklist
 - Personalized Recommendations
 - Air Handler Maintenance Checklist User Reviews and Ratings
 - Air Handler Maintenance Checklist and Bestseller Lists

5. Accessing Air Handler Maintenance Checklist Free and Paid eBooks
 - Air Handler Maintenance Checklist Public Domain eBooks
 - Air Handler Maintenance Checklist eBook Subscription Services
 - Air Handler Maintenance Checklist Budget-Friendly Options
6. Navigating Air Handler Maintenance Checklist eBook Formats
 - ePub, PDF, MOBI, and More
 - Air Handler Maintenance Checklist Compatibility with Devices
 - Air Handler Maintenance Checklist Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Air Handler Maintenance Checklist
 - Highlighting and Note-Taking Air Handler Maintenance Checklist
 - Interactive Elements Air Handler Maintenance Checklist
8. Staying Engaged with Air Handler Maintenance Checklist
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Air Handler Maintenance Checklist
9. Balancing eBooks and Physical Books Air Handler Maintenance Checklist
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Air Handler Maintenance Checklist
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Air Handler Maintenance Checklist
 - Setting Reading Goals Air Handler Maintenance Checklist
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Air Handler Maintenance Checklist
 - Fact-Checking eBook Content of Air Handler Maintenance Checklist
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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