

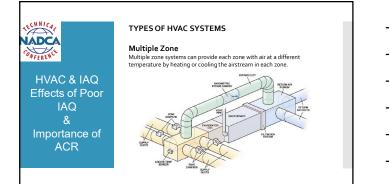
TECHNICAL NADCA

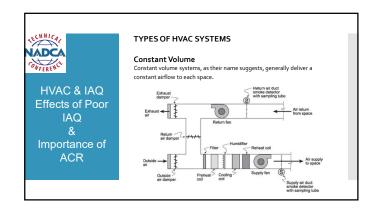
HVAC & IAQ Effects of Poor IAQ & Importance of ACR

TYPES OF HVAC SYSTEMS

Single Zone A single air handling unit can only serve more than one building area if the areas served have similar heating, cooling, and ventilation requirements.







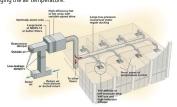


ECHNICA VADCA ONFERENCE

HVAC & IAQ Effects of Poor Importance of

TYPES OF HVAC SYSTEMS

Variable Air Volume Variable air volume systems maintain thermal comfort by varying the amount of heated or cooled air delivered to each space, rather than by changing the air temperature.



ECHNICA BASIC COMPONENTS OF AN HVAC NADCA SYSTEM CONFERENCE.

The basic components of an HVAC system that delivers conditioned air to maintain thermal comfort and indoor air quality are:

air filter

- ✤ outdoor air intake
- heating and cooling coils
- Importance of

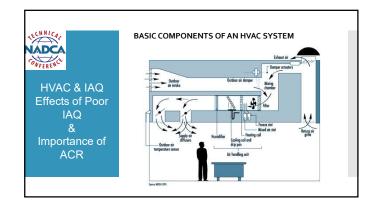
HVAC & IAQ

Effects of Poor

IAQ

 mixed-air plenum and outdoor air control humidification and/or de-humidification equipment

4



Testing and Balancing

ECHNICA

NADCA

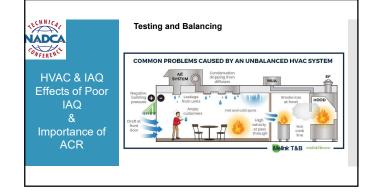
ONFERENCE

Effects of Poor

Importance of

Testing and balancing involves the testing, adjusting, and balancing of HVAC system components so that the entire system provides airflows that are in accordance with the design specifications. Typical components and system parameters tested include:









HVAC & IAQ Effects of Poor Importance of ACR

Testing and Balancing

The Associated Air Balance Council recommends the following guidelines in determining whether testing and balancing is required:

- When space has been renovated or changed.
 When HVAC equipment has been replaced or modified.
 When control settings have been readjusted.
 After the air conveyance system has been cleaned.

 - After the air conveyance system has been cleaned.
 When accurate records are required to conduct an IAQ
 investigation.
 When you are unable to obtain design documents or appropriate air
 exchange rates for compliance with IAQ standards or guidelines.



HVAC & IAQ Effects of Poor IAQ Importance of

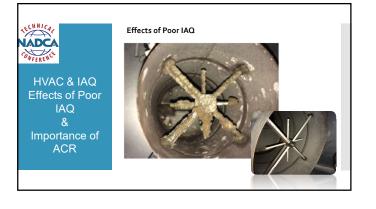
Effects of Poor IAQ

The effects of poor indoor air quality are often felt almost immediately

*Dizziness and fatigue *Headaches and migraines Common health effects include:

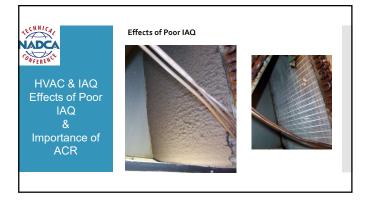
 Coughing and shortness of breath Irritation of the eyes, nose or throat

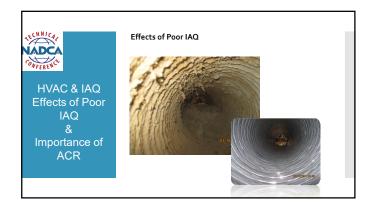
Many different indoor air pollutants, including dust mites, mold, pet dander and tobacco smoke can compromise one's ability to breathe or even trigger asthma attacks.

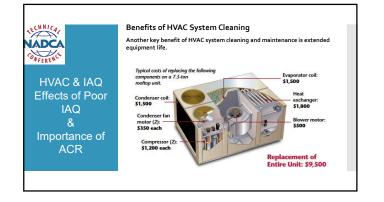


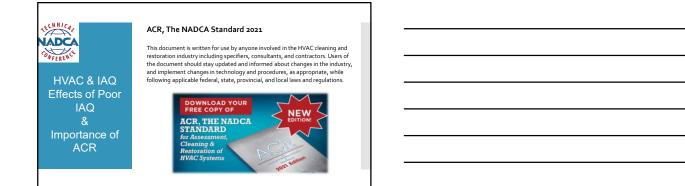


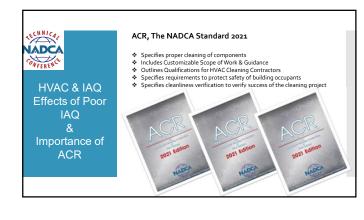
HVAC & IAQ Effects of Poor IAQ & Importance of ACR	Effects of Poor IAQ
---	---------------------











CONCULSION

ALCHNICAL NADCA

ONFERENCE

HVAC & IAQ Effects of Poor

Importance of

- Main purposes of a Heating, Ventilation and Air-Conditioning (HVAC) system are to help maintain good indoor air quality
- Dirty HVAC systems is the number one contributor to Poor IAQ
- ACR the NADCA Standard 2021 is the internationally recognized as the Global Standard of Care for the HVAC cleaning and restoration industry







