Case Story: Langara College

Multiple Fan Array

AMBIENT DYNAMICS
INTEGRATED EQUIPMENT DESIGN

Job Details

Customer: Langara College

Location: Vancouver, BC

Project: Bldg “A” Mechanical Upgrade

Scope: AHU-1 & 2 Retrofit

Target: Efficiency, Operability, Sound

Bases of Design: DKNB 630 w/ Cubes

Control: ABB/HSL Custom Panel

Date: Winter 2017

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The Challenge

- 30 Year old AHUs (1 & 2)
- 70,000 CFM each
- Only the cabinets to stay
- Mech Room in the 3rd floor
- Tight access
- Irregular walls, floor, and ceiling
- First time ROSENBERG in the picture
- Custom equipment design

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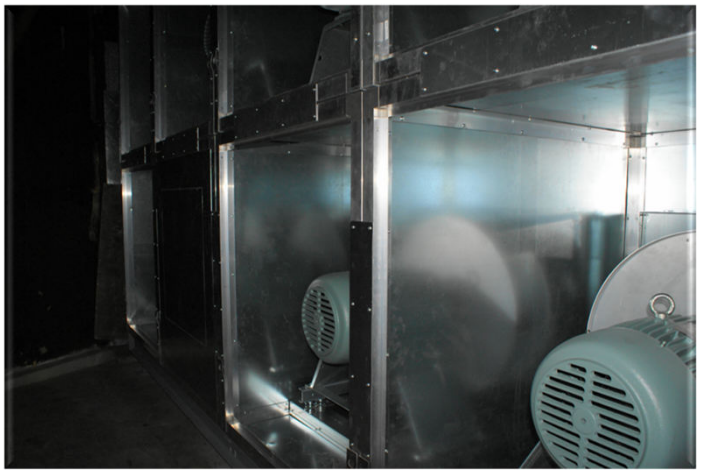
Return

- TAMCO Backdraft Damper
- Inlet Screen
- Empty Cube for geometry



Supply

- (7) DKNB-630: 10,000 CFM @ 6 in wg
- (7) TECO 15 HP 575/3/60 AC Motor

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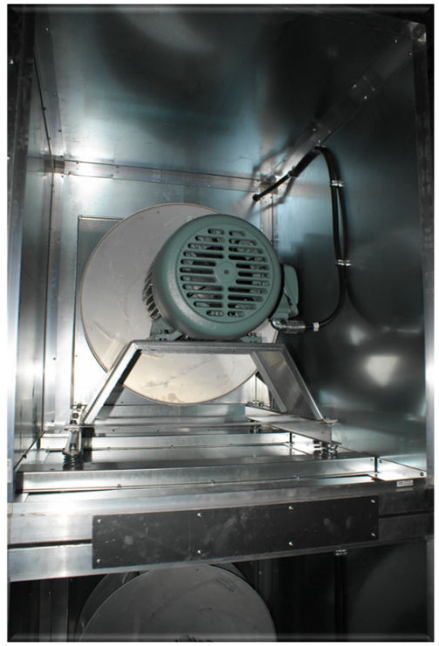
Installation



- Leveled base
- Seating the first row complete
- Gasket between first and second row

- Lifting lugs provided an easy maneuver
- Secure cubes with metal strips
- Motors wiring
- Blank offs

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Custom Electrical Panel

- Manufacturer: HSL Automation
- (1) 125 HP ABB VFD
- Disconnect switch
- By-Pass
- BacNet Communication
- (7) Independent Motor Starters
- Motor Fault Alarm Light
- Load Reactor

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SUMMARY

- Targets achieved
- Great Construction = High Quality
- Easy to install
- Everybody happy

More for coming…

ECOFIT ETRI rosenberg
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