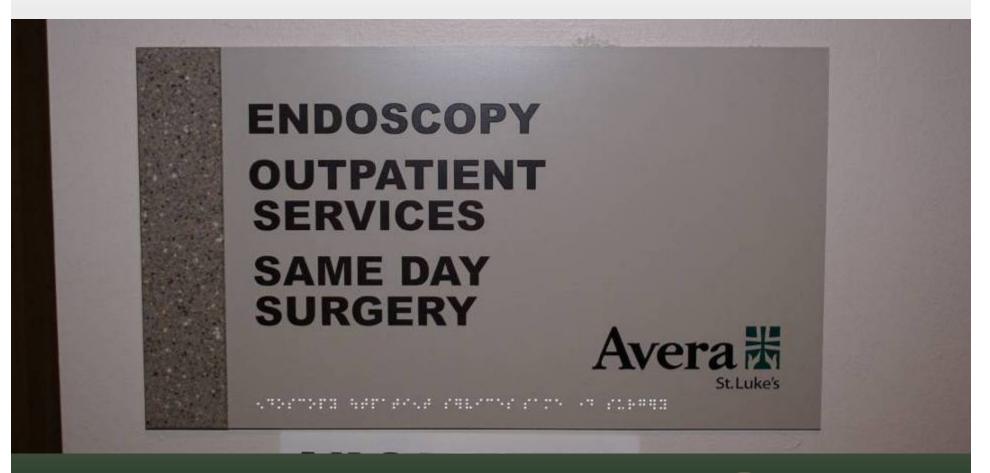


Case for Action



Critical Care Areas Served by Single Fan AHU – No Backup





Duct and Ceiling Damage From Past Moisture Carryover During High Humidity Periods





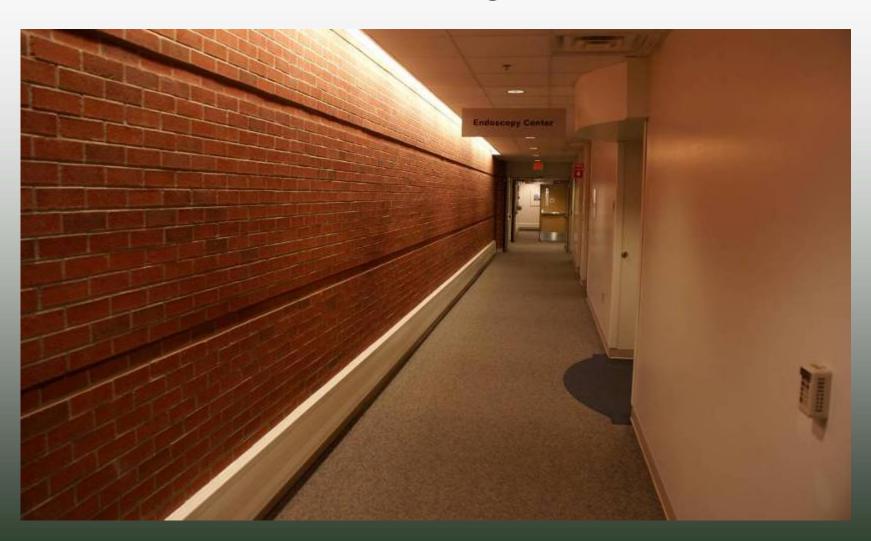


Final Filters Became Waterlogged And Ineffective From Moisture Carryover





2nd Floor Interior Mechanical Equipment Room with Surrounding Medical Offices

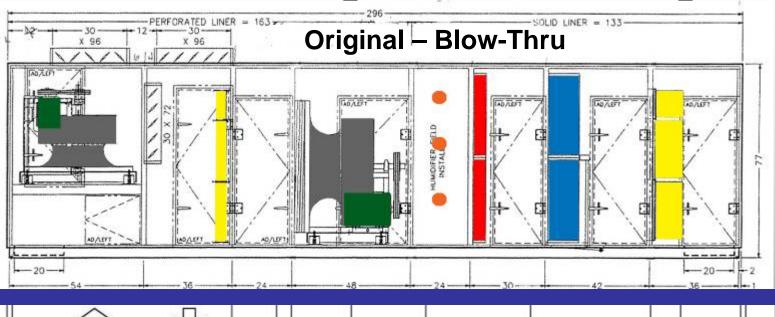


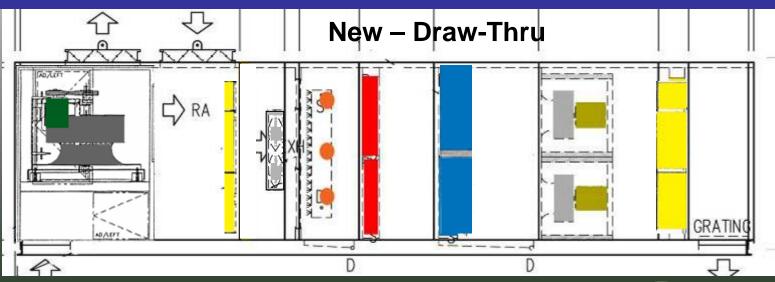


How FANWALL TECHNOLOGY® Helped To Solve The Problems



AHU Configuration Change





19,020 cfm, 5" TSP, 24 BHP, 2x2 FANWALL® Array



FANWALL® Arrival and Unpack For Installation





Easy To Cart FANWALL® Cells in to Location





Easy to Move FANWALL Through Hallways and into Elevator



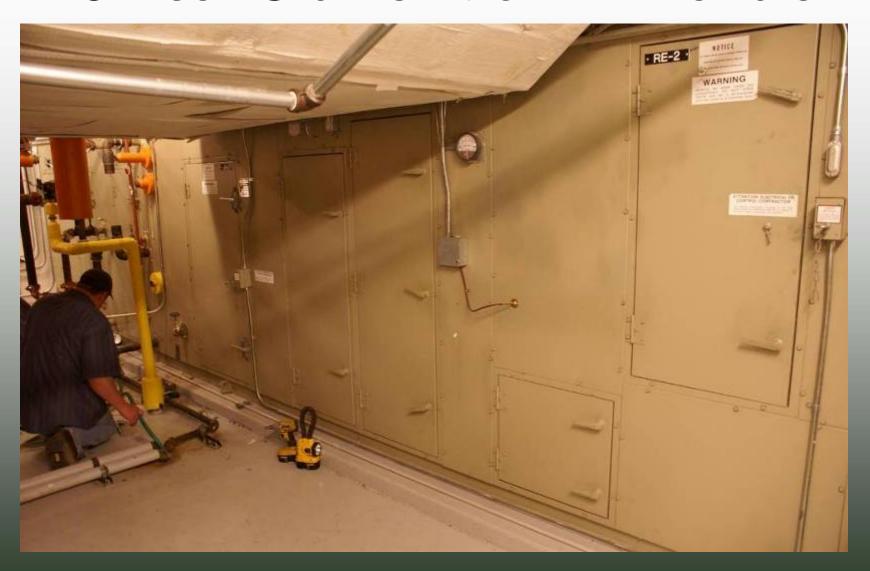


Staging Area for FANWALL® Cells





16-Year Old Temtrol® Air Handler





Removing Old 30HP Motor and Cutting Out Single Fan Wheel



Goodbye Belts





Reconfigured from Blow-Thru to Draw-Thru





Cooling Coil Still Good After 16 Years





Reusing Existing Panels and Frame – Temtrol® Welded-Frame Construction Solid After 16-Years



HUNTAIR®

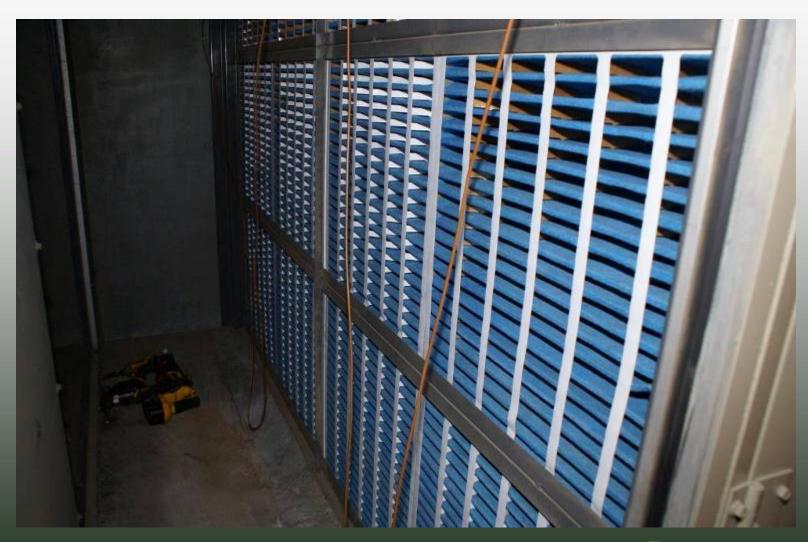
A CES Group™ Company

Reuse/Reinstallation of Drain Pan





Pre-Filter Section Reused





Past Cooling Coil Base Reinforced For FANWALL® Cells





Time to bring in the FANWALL® Cells



HUNTAIR®

A CES Group™ Company

Four Men Safely Lift The FANWALL® Cell





One



Insulation Ships With The FANWALL® Cells For Insertion On All Four Sides for Coplanar Silencer





And Four





Ready for Electrical Wiring





Repositioning the Coils





Motor Wiring To Common Conduit Channel



Conduit Channel Conceals Wiring



Inlet Screens Upstream of FANWALL® Cell Help to Reduce Air Turbulence and Sound





Unit Reconfigured And Re-piped



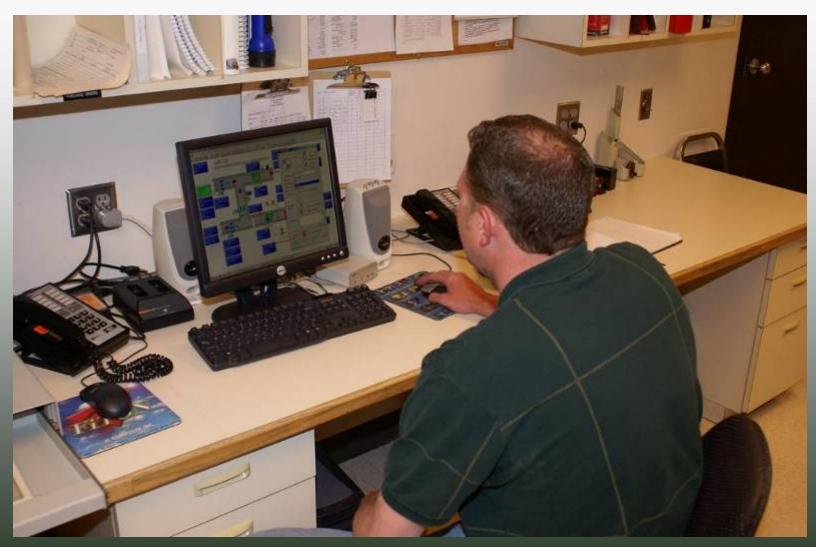


Frequency Drive Re-Programmed for Design Condition Speed of 89 Hz





Automation System Updated With New Set Points





New Drain Trap Designed Due To Static Pressure Change





FANWALL® Specs

1 FANWALL TECHNOLOGY® - Supply Fan Patent No 7,137,775 B2 and 7,179,046 B2 issued and others pending

1.1 Configuration Quantity	
a. Orientation	Horizontal Standard
b. Row Qty	2
c. Column Qty	2
d. Active Fans	4
e. Redundant Fans	0
f. Ship Loose Fans	0

1.2 Performance	
a. Total CFM	19,020
b. CFM per Fan	4,755
c. ESP	
d. TSP	5.00
e. Total BHP	23.63
f. BHP per Fan	5.91

1.3 Fan Wheel	
a. Diameter	18
b. % Width	95
c. RPM	2595
d. Class	CLASS 2
e. Rotation	CW
f. Material	Aluminum

1.5 Construction	
 Inlet Cone Material 	Steel Flat Cone
 b. Inlet Cone Location 	Upstream Removable
 c. Coplanar Silencer 	2 inch 1.5# Fiberglass
d. Air Straightener	Yes
e. Discharge Screen	None
 f. Backdraft Damper 	None
g. Finish	Powder Coat - grey

1.4 Motor	
a. Manufacturer	Baldor
b. Model	EM3770T
c. Horsepower	7.5
d. RPM	1770
e. Frame	213T
f. Enclosure	TEFC
g. Efficiency	91.7
h. F.L. Amps	9.5
 Service Factor 	1.15
j. Voltage	460
k. Phase	Three Phase
I. Hertz	60
m.Shaft Grounding	AEGIS Shaft Grounding Ring - SGR-33.4-1



Timeline Overview

4 pm Friday

- Disassemble unit
- Cut-out old fan
- Rearrange sections from blow-thru to draw-thru

Saturday

- Install FANWALL™ array
- Wire Fans
- Reinstall Cooling Coils, Heating Coils and Humidifier
- Add Air Blender

6 pm Sunday

- Re-pipe coils
- Program VFD
- Reprogram Automation System
- Start-up
- Completed ahead of schedule



Multiple-Fan Arrays



FANWALL TECHNOLOGY® by HUNTAIR®

- Smaller footprint saves real estate
- Multiple fans adds reliability
- Low frequency sound reduction means quieter operation often without expensive sound traps or vibration isolation
- Smaller motors & air wheels are easier to maintain and retrofit
- Higher efficiency fan wheel means energy savings
- Direct drive fans means no belt maintenance
- Creates "Piston of Air" airflow meaning better utilization of filter and coil surface areas



Collateral \$ Savings with FANWALL® Systems

- ☑ Cost of Downtime
- ☑ Savings in real estate space
- ☑ Cost avoidance of sound attenuation and spring isolation
- ☑ Energy savings from less junk in the air trunk and high efficiency fans on VFDs
- ☑ Cost savings from reduced electrical service
- ☑ Cost savings from smaller backup generator
- ☑ Cost avoidance of belt and drive maintenance

- ☑ Cost avoidance on spare parts with common motors
- ☑ Cost savings from increased filter life and better coil effectiveness
- ☑ Cost avoidance in future maintenance with smaller fans and motors
- Cost savings from speed of retrofits

