

Introducing the



Innovative design/Cleaner indoor air/Healthier choice

Coziahr Heating and Air Conditioning

Leadership - Past and Present



Walt Coziahr

Founder 1936

Deceased 1960



Walter Coziahr

Retired

Owner/President 1960 - 1999

Iowa State College - Engineering



Dave Coziahr

Owner/President

B.S. Construction Engineering -
Mechanical emphasis - ISU

Engineer-In-Training



Luanne Coziahr

Owner/Vice President

B.S. Plant Pathology - ISU
M.S. Biological Science -UNL

The Problem

The typical HVAC air filtering system is poorly designed, grossly undersized and woefully ineffective.



Static Pressure Measurements			
Equipment		Filter	
Entering Pressure	.81	Before Pressure	.15
Exiting Pressure	.28	After Pressure	.81
Total ESP	1.09	Pressure Drop	.66
Duct		Coil	
Supply Pressure Drop	.17	Before Pressure	.28
Return Pressure Drop	.15	After Pressure	.17
Total Pressure Drop	.32	Pressure Drop	.11

80K Btu/hr, 90% AFUE furnace requires 1200 cfm. Plotted air flow: 750 cfm.
2-1/2 ton air conditioner requires 1000 cfm. Plotted air flow: 680 cfm.



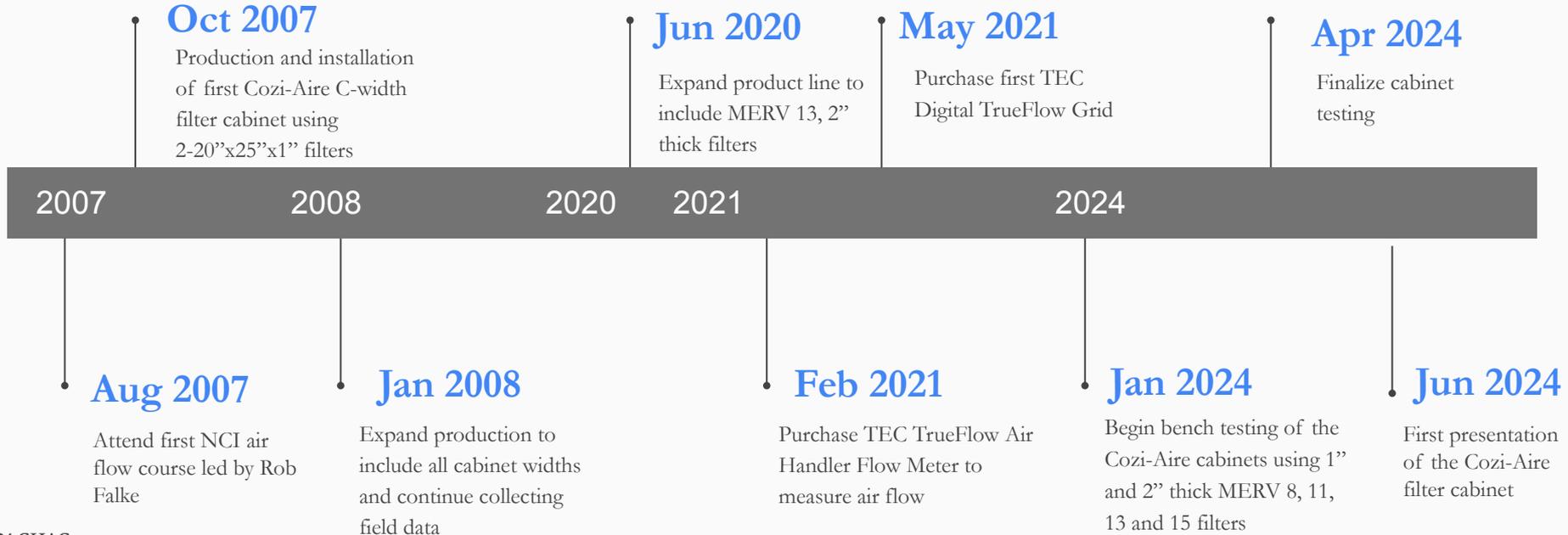
The Solution

The Cozi-Aire Filter Cabinet

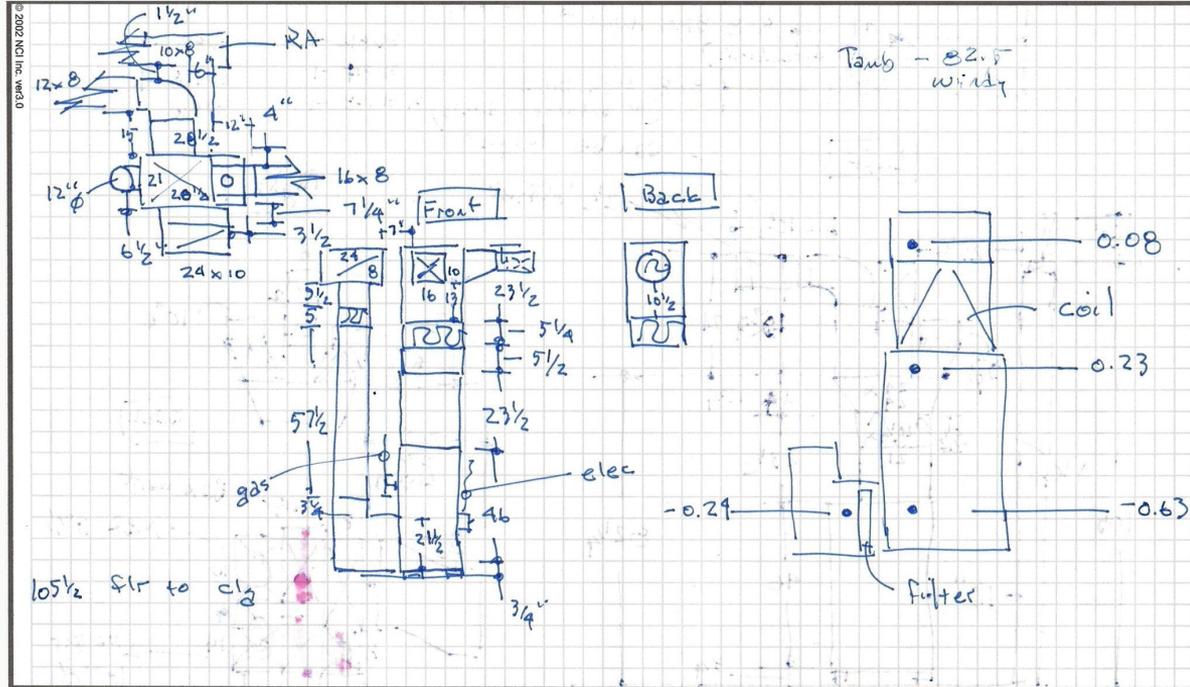
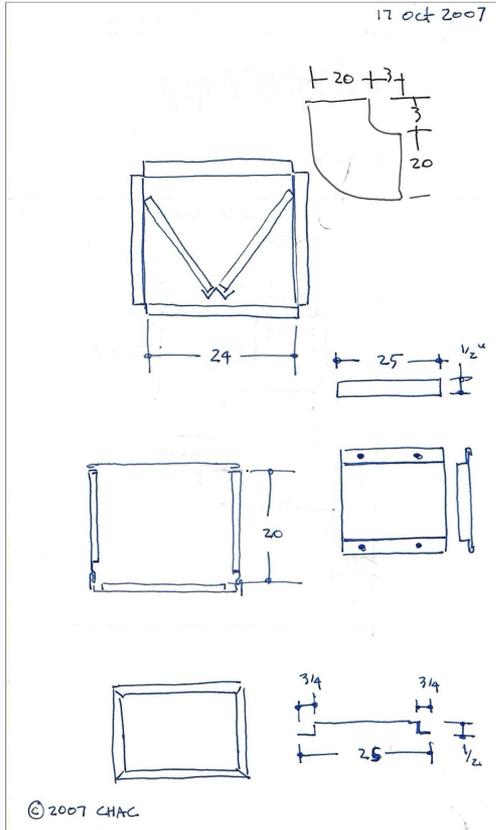
Engineered for:

- ★ Extremely low pressure drops
- ★ Easy filter change
- ★ Standard filter sizes
- ★ Use with multiple MERV filter ratings
- ★ Use with all furnace and air handler cabinet widths
- ★ Compact size, and
- ★ Low duct leakage

Cozi-Aire Filter Cabinet Timeline



First Cabinet



Coziahr Heating & Air Conditioning

1409 3rd Avenue
Council Bluffs, IA 51501-3929
Phone: 712-323-5782, Fax: 712-325-0361

JOB NUMBER
23444 Dogwood

READINGS BY
Dave Coziahr

SYSTEM
AC-1

PROJECT Harter
23444 Dogwood Rd
Council Bluffs, IA
51503

DATE
9/21/2007

Measuring Static Pressure and Air Flow



Date tested: 4/29/2024
 4/29/2024 1:22:43 PM
Company info
 Name: Coziahr Htg & A/C
 Phone: (712) 323-5782
 Email: coziahr@gmail.com

Tech info
 Name: David Coziahr
 ID: 263
 Title: Owner
 Credentials: BPI 5044809

True Flow System Air Flow and Static Pressure Analysis Air measurements System & Conditions

Total air flow = 1005 SCFM
 Return duct = -0.120 inH₂O
 After filter = -0.284 inH₂O
 Supply duct = 0.042 inH₂O

Cooling Climate: Moist
 Elevation: 981 ft
 Return temp: 66° F

System Type: Electric
 Orientation: Upflow
 Cooling Capacity: 2.5
 Filter Location: InDuct

Summary calculations

	Flow		402 SCFMton
	TESP		0.325 inH ₂ O
	Return Plenum		0.120 inH ₂ O
	Filter Drop		0.164 inH ₂ O
	Supply Plenum		0.042 inH ₂ O

Summary of Warnings

No warnings.

Customer

Name: Deupree
 Phone: N/A
 Email: N/A
 Address: 3318 Avenue G Council Bluffs IA 51501 United States

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A/C System Test 5/30/2024, 1:03:17 PM

Outdoor Measurements

Low Pressure (PSIG/°F):	110.0 / -61.8
High Pressure (PSIG/°F):	302.5 / -61.8
Suction Line Temp (°F):	53.6
Liquid Line Temp (°F):	75.8
Discharge Line Temp (°F):	--
Outdoor Air Temp (°F):	78.4
Superheat (°F):	115.5
Subcooling (°F):	--
Condenser Voltage:	241.2
Condenser Amperage:	6.9
Condenser Power Factor:	0.96
Condenser Power (W):	1,617

Indoor Measurements

Return Temp (°F):	70.9
Return %RH:	50.8
Return Wet Bulb (°F):	59.2
Supply Temp (°F):	51.4
Supply %RH:	82.4
Supply Wet Bulb (°F):	48.6
Airflow, Estimated (SCFM):	1,200
Airflow, Measured (SCFM):	1,098
Total External Static Pres (inH2O):	0.5
AHU Voltage:	120.7
AHU Amperage:	1.4
AHU Power Factor:	0.78
AHU Power (W):	307

System Profile & Weather Data

System Type:	Split
Nominal Tonnage:	3.0
Refrigerant:	R410A
Nom. Airflow (SCFM/Ton):	400
SEER:	13-16
Metering Device:	TXV
Atmospheric Pressure (PSIA):	14,179
Elevation (ft):	988
Temperature (°F):	75.0
Humidity (%):	56.0
Dew Point (°F):	58.7
System Stability:	Stable
System Benchmark:	No

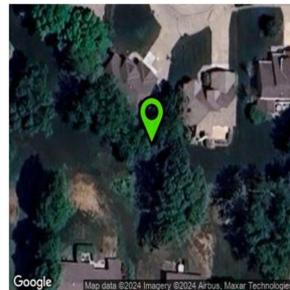
Performance Calculations

Capacity Calculations:	
Nominal:	3.0 Tons / 36,000 Btu/h
Normalized:	2.7 Tons / 32,631 Btu/h
Actual:	2.6 Tons / 30,716 Btu/h (8% % normalized)
Sensible:	1.9 Tons / 22,601 Btu/h (88% % normalized)
Latent:	0.7 Tons / 8,115 Btu/h (116% % normalized)
Sensible Heat Ratio:	0.74

Air-side Performance:	
Temp Split Target:	19.8°F
Temp Split:	19.5°F
Dehumidification:	7.5 lb/hr 0.9 gal/hr

System Efficiency:	
Fan Efficacy:	0.28
Total Power:	1,924
EER/SEER:	16.0/15.3
-SEER/SEER:	17.7/16.9
Sensible Efficiency:	88.1%
Fltr. Face Velocity:	158 FPM

Notes:
 Test started on 5/30/2024, 12:35:20 PM.



Customer

Arion Deupree
 125 Applewood Court
 Council Bluffs, IA 51503

LUXAIRE AL19B3621S W2F2552505

ID
 Coords: 41.2435, -95.7874

Condenser
 Make: LUXAIRE
 Model: AL19B3621S
 Serial: W2F2552505

Air Handler
 Make: RIJUD
 Model: UGPR-10EBRMR
 Serial: GXSD301F380703590

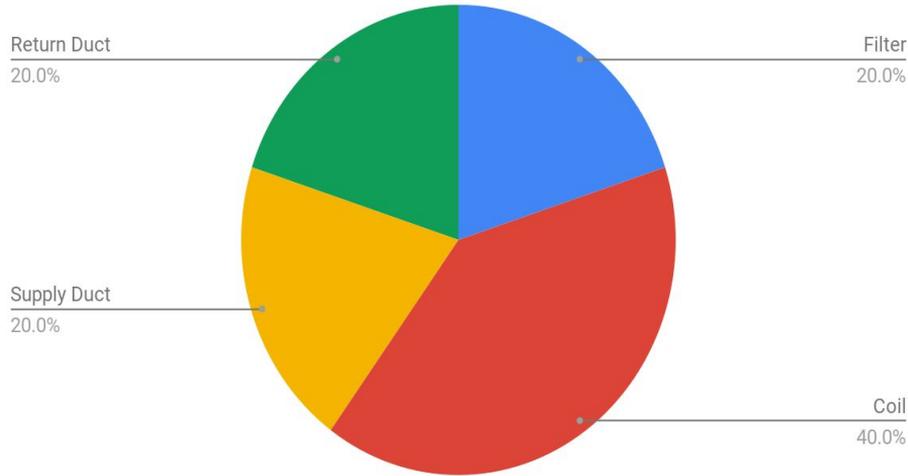
Evaporator
 Make: LUXAIRE
 Model: ERB52X1C
 Serial: W2N1786241



External Static Pressure Budget

External Static Pressure Budget

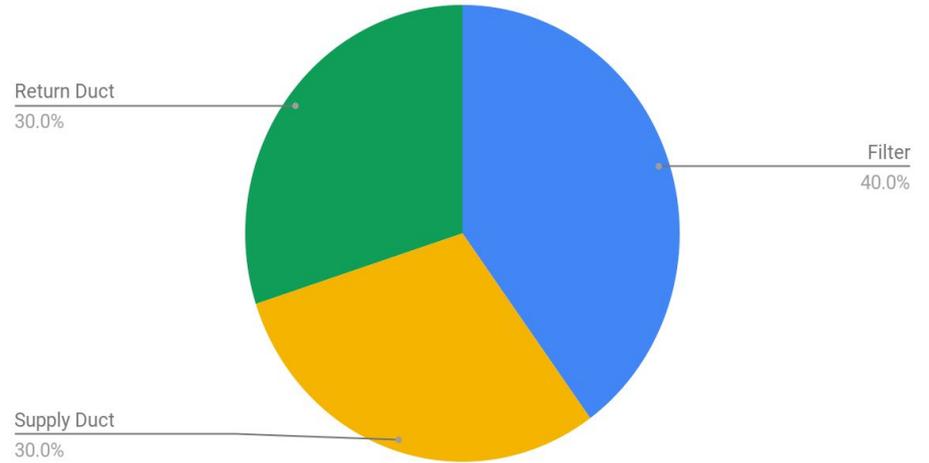
Gas Furnaces (coil external)



Manufacturer Max. ESP	Filter Budget	End of Filter Life δp
0.50 iwc	40%	0.20 iwc
0.80 iwc	40%	0.32 iwc

External Static Pressure Budget

Air Handling Units (coil internal)



Manufacturer Max. ESP	Filter Budget	End of Filter Life δp
0.50 iwc	20%	0.10 iwc
0.80 iwc	20%	0.16 iwc

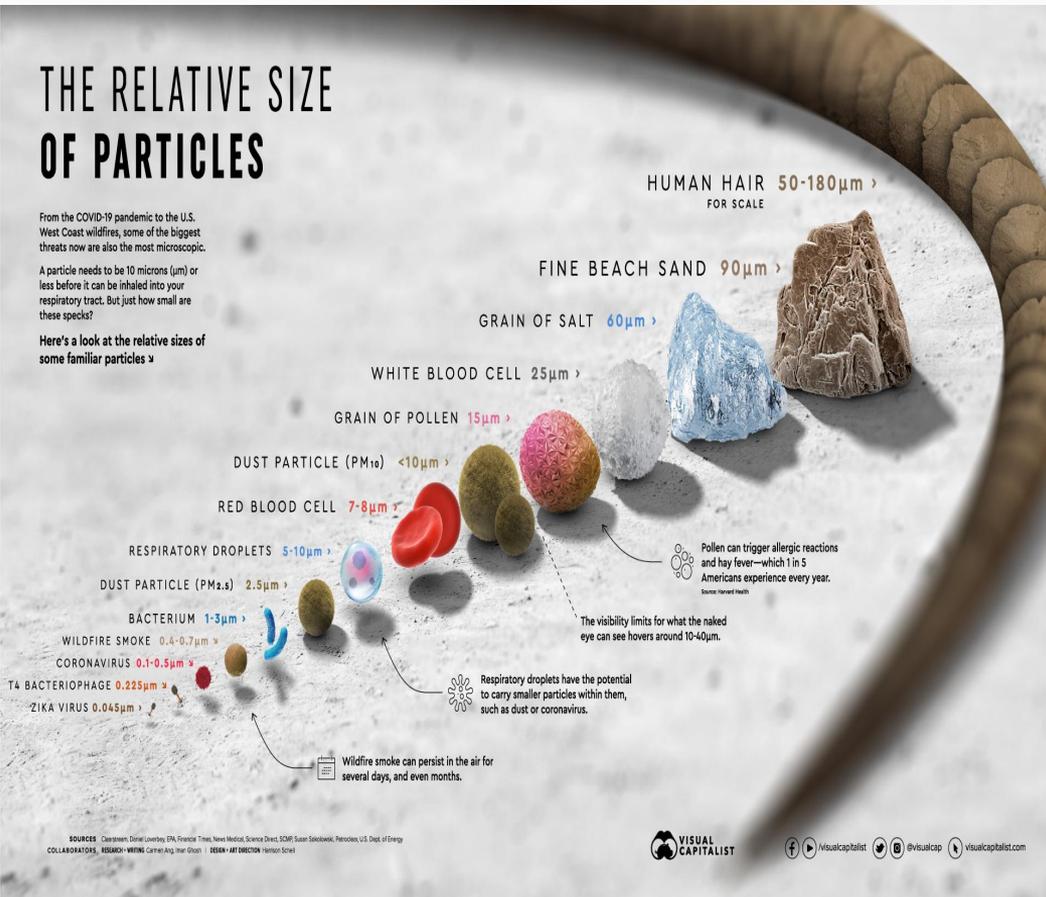
Particle Size and Filter Efficiency

THE RELATIVE SIZE OF PARTICLES

From the COVID-19 pandemic to the U.S. West Coast wildfires, some of the biggest threats now are also the most microscopic.

A particle needs to be 10 microns (μm) or less before it can be inhaled into your respiratory tract. But just how small are these specks?

Here's a look at the relative sizes of some familiar particles »



SOURCES: Clearstream; Corral; Lowrey; EPA; France; Time; News Medical; Science Direct; SCMP; Susan Siebeko; Petroski; U.S. Dept. of Energy
COLLABORATORS, RESEARCH-WRITING: Caron; Ang; Mar; O'Connell; **DESIGN + ART DIRECTION:** Hanson Scales

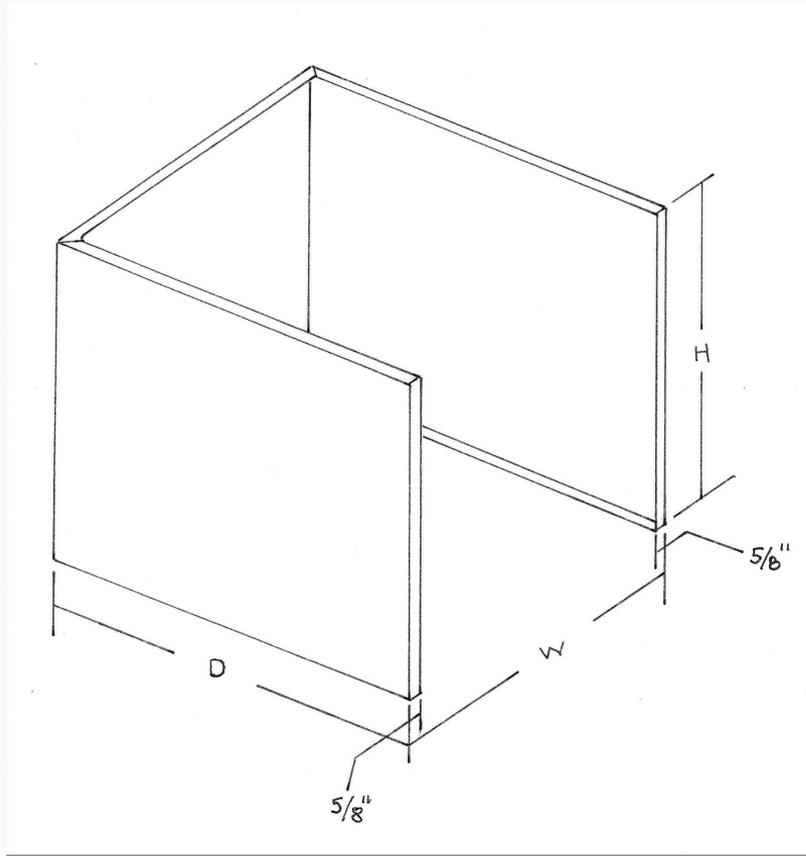


TABLE 3: MERV PARAMETERS

Standard 52.2 Minimum Efficiency Reporting Value (MERV)	Composite Average Particle Size Efficiency, % in Size Range, μm			ASHRAE Arrestance
	Range 1 (0.3-1.0)	Range 2 (1.0-3.0)	Range 3 (3.0-10.0)	
1	n/a	n/a	E3 < 20	Aavg < 65
2	n/a	n/a	E3 < 20	65 \leq Aavg < 70
3	n/a	n/a	E3 < 20	70 \leq Aavg < 75
4	n/a	n/a	E3 < 20	75 \leq Aavg
5	n/a	n/a	20 \leq E3 < 35	n/a
6	n/a	n/a	35 \leq E3 < 50	n/a
7	n/a	n/a	50 \leq E3 < 70	n/a
8	n/a	n/a	70 \leq E3	n/a
9	n/a	E2 < 50	85 \leq E3	n/a
10	n/a	50 \leq E2 < 65	85 \leq E3	n/a
11	n/a	65 \leq E2 < 80	85 \leq E3	n/a
12	n/a	80 \leq E2	90 \leq E3	n/a
13	E1 < 75	90 \leq E2	90 \leq E3	n/a
14	75 \leq E1 < 85	90 \leq E2	90 \leq E3	n/a
15	85 \leq E1 < 95	90 \leq E2	90 \leq E3	n/a
16	95 \leq E1	95 \leq E2	95 \leq E3	n/a

Product Nomenclature and Physical Dimensions

Cabinet Width	A(A) When A follows the first letter the filter cabinet is designated for an AHU	A = 14"
		B = 17-1/2"
		C = 21"
		D = 24-1/2"
Number of Filters	2	2
		3
		4
		5
MERV Rating	M8	M8 = MERV 8
		M11 = MERV 11
		M13 = MERV 13
		M15 = MERV 15



Cabinet Dimensions		
Width (W)		
A - Cabinet	14"	
B - Cabinet	17-1/2"	
C - Cabinet	21"	
D - Cabinet	24-1/2"	
Height (H)		
All Cabinets	22"	
Depth (D)		
Furnace/AHU	26-1/2"/21-1/2"	
Columbus Industries Filter Dimensions		
Height	Depth	Thickness
20"	25" or 20"	2"

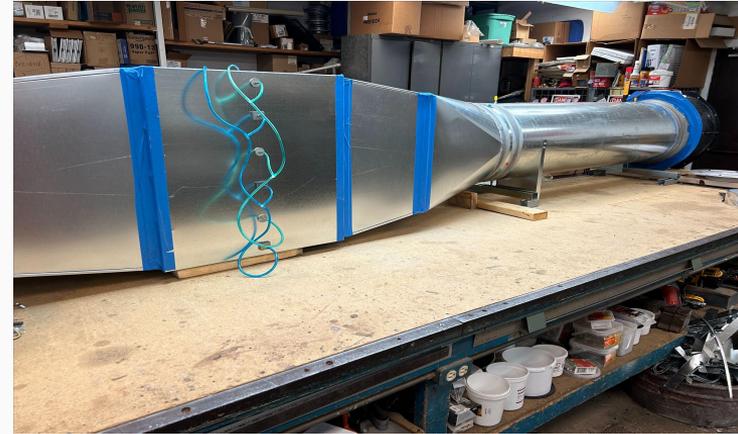
Applications



Suggested Air Flow Ranges

Cabinet Width	Air Flow, cfm	Cabinet Width	Air Flow, cfm
A2	600 to 800	C3	1,000 to 1,200
A3	1,000 to 1,200	C4	1,600 to 1,800
B2	800 to 1,000	D4	1,600 to 1,800
B3	1,400 to 1,600	D5	1,800 to 2,400

Cozi-Aire Filter Cabinet Bench Test Configuration



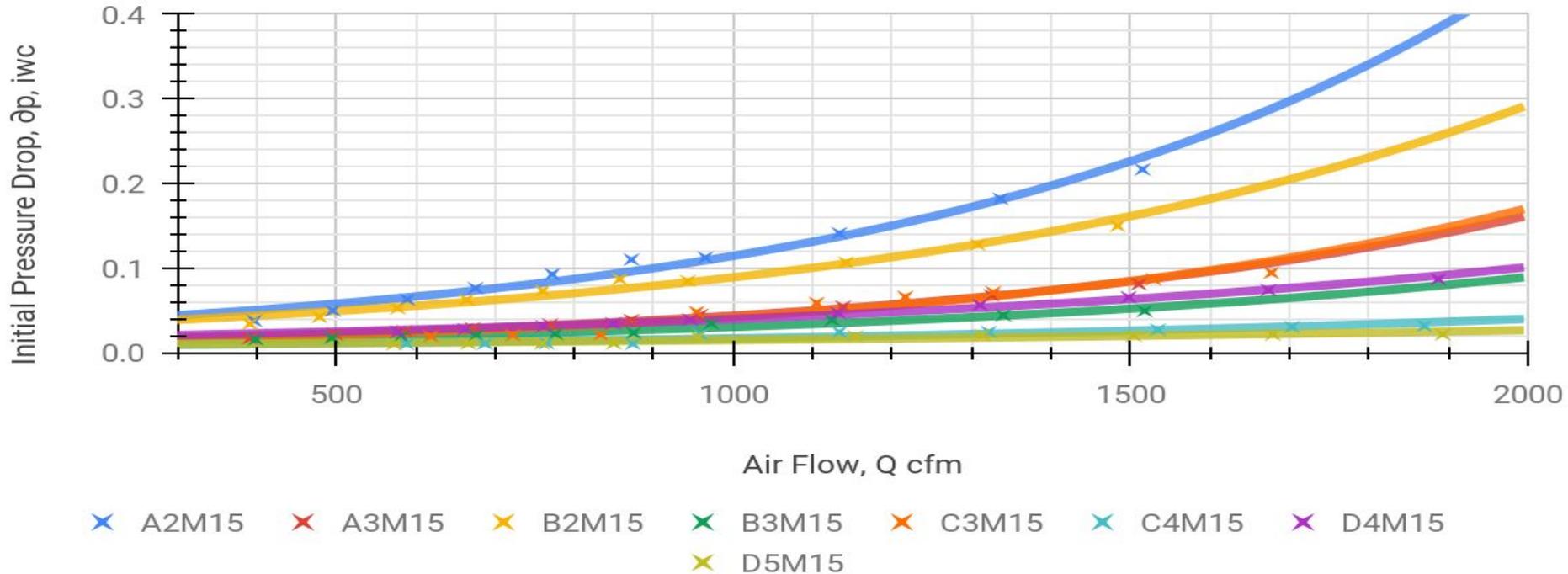
Cozi-Aire Filter Cabinet Performance Data (D5M15)

Filter Cabinet Pressures		Filter Rating*	BD3**	Alt Correction	0.96
Inlet Press.	Outlet Press.	MERV 15	Corrected cfm	Airflow, cfm	Ring
0.2320	0.2107	0.0213	1972	2054	A
0.1872	0.1661	0.0211	1749	1822	A
0.1512	0.1312	0.0200	1567	1632	A
0.1206	0.1002	0.0204	1368	1425	A
0.0962	0.0771	0.0191	1202	1252	A
0.0695	0.0514	0.0181	996	1037	A
0.0547	0.0440	0.0107	885	922	B
0.0458	0.0352	0.0106	791	824	B
0.0377	0.0271	0.0106	694	723	B
0.0300	0.0200	0.0100	597	622	B
* - all filters are manufactured by Columbus Industries					
** - The Energy Conservatory BD3 blower door fan, s/n: 29338					
*** - air density corrected, RAT: 68F, RArh: 47%, altitude: 980 ft.					
**** -duct leakage		4.00%			
2" MERV 8 - 9 pleats/ft, 2" MERV 11 - 15 pleats/ft, 2" MERV 13 - 15 pleats/ft, 2" MERV 15 - 44 pleats/ft					

Cozi-Aire Filter Cabinet Performance Chart

Filter Cabinet Performance

Cabinets with 20"x25"x2" MERV 15 filters



Filter Sizer App

Heating Target Air Flow				
Heating Type	Air Flow	Heating Input		Heating Target Air Flow, cfm
Gas	cfm/MBtuh	MBtuh Input		
AFUE_80	13	80		1040
Cooling Target Air Flow				
Air Flow		Cooling Capacity	Cooling Target Air Flow, cfm	Dominant Mode
Climate	cfm/ton	Tons		Heating
Mixed	400	2.5	1000	1040
System Static Pressure Budget				
Equip ESP, iwc	Coil Location	Ductwork Press, iwc	Coil Press, iwc	Filter Press, iwc
0.50	External	0.20	0.20	0.10
Filter Cabinet Selection		Projected Cabinet Performance		
Cabinet Width	Number and Type of Filters	Clean Filter Factor of Safety	Target Initial Pressure Drop	Projected Initial Pressure Drop, iwc
C	C3M11	1.50	0.067	0.031
				Meets Target

Cozi-Aire Duct Leakage Test



Duct Leakage Test

Testing Company:

Name: WCI
Address: 2644 Avenue D
Council Bluffs, IA 51501
Phone: 712-323-5782
www.coziahrvac.com

Technician:

Name: David Coziahr
Credentials: BPI certification number: 5044809
Email: coziahr@gmail.com

Building Information:

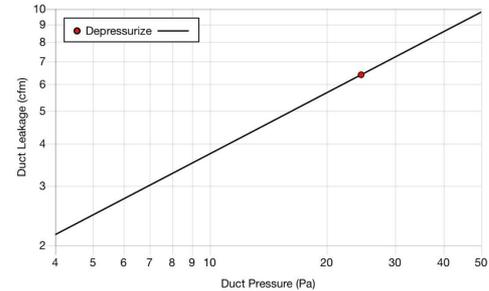
Project ID: Cozi-Aire D-width cabinet
Address:
Geo-Tag Data: Latitude:
Longitude:
Timestamp:

Customer Information:

Name:
Address:

Measured Leakage: 0.40 CFM25/100 ft²
Leakage Target: 6.00 CFM25/100 ft²
Compliance with Leakage Target: Pass

Test ID: 11Jun2024_DLT
Purpose of Test: Iowa 2012IECC Total Leakage
Measured CFM25: 6.5
Conditioned Floor Area: 1,600.0 ft² AH Flow: 2,000.0 cfm (cooling)
Coefficient (C): 0.9 Exponent (n): 0.600 (assumed)
Test Standard: RESNET 380 Total Duct Leakage Test Mode: Depressurize
Test Characteristics: Time Average Period: 10 seconds
Test Date and Time: 2024-06-11 15:16:54



Field Test Results (B2M8) (B2M15)



Date tested: 7/6/2023
 Spelman_new motor med speed
Company info
 Name: Coziahr Htg & A/C
 Phone: (712) 323-5782
 Email: coziahr@gmail.com

Tech info
 Name: David Coziahr
 ID: 263
 Title: Owner
 Credentials: BPI 5044809

True Flow System Air Flow and Static Pressure Analysis

Air measurements	System & Conditions	
Total air flow = 908 SCFM	Cooling Climate: Moist	System Type: Fuel
Return duct = -0.155 inH ₂ O	Elevation: 1223 ft	Orientation: Upflow
After filter = -0.209 inH ₂ O	Return temp: 72° F	Cooling Capacity: 2.5
Before evap. coil = 0.259 inH ₂ O		Filter Location: InDuct
Supply duct = 0.069 inH ₂ O		

Summary calculations

Flow		363 SCFM/ton
TESP		0.468 inH ₂ O
Return Plenum		0.155 inH ₂ O
Filter Drop		0.055 inH ₂ O
Evap. Coil Drop		0.190 inH ₂ O
Supply Plenum		0.069 inH ₂ O

Summary of Warnings

No warnings.

Customer

Name: Spelman
 Phone: N/A
 Email: N/A
 Address: 19914 Honeysuckle Rd Council Bluffs IA 51503 United States

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Date tested: 6/18/2024
 6/18/2024 10:49:00 AM
Company info
 Name: Coziahr Htg & A/C
 Phone: (712) 323-5782
 Email: coziahr@gmail.com

Tech info
 Name: David Coziahr
 ID: 263
 Title: Owner
 Credentials: BPI 5044809

True Flow System Air Flow and Static Pressure Analysis

Air measurements	System & Conditions	
Total air flow = 880 SCFM	Cooling Climate: Moist	System Type: Fuel
Return duct = -0.150 inH ₂ O	Elevation: 1220 ft	Orientation: Upflow
After filter = -0.230 inH ₂ O	Return temp: 73° F	Cooling Capacity: 2.5
Before evap. coil = 0.248 inH ₂ O		Filter Location: InDuct
Supply duct = 0.072 inH ₂ O		

Summary calculations

Flow		352 SCFM/ton		Low Flow; High Return Pressure.
TESP		0.478 inH ₂ O		Maximum TESP Adjusted By User
Return Plenum		0.150 inH ₂ O		
Filter Drop		0.080 inH ₂ O		
Evap. Coil Drop		0.176 inH ₂ O		
Supply Plenum		0.072 inH ₂ O		

Summary of Warnings

No warnings.

Customer

Name: DeeDee Spelman
 Phone: (402) 345-5558
 Email: dspelman@gmail.com
 Address: 19914 Honeysuckle Road Council Bluffs IA 51503

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Field Test Results (A2M8) and (A2M15)



Date tested: 2/24/2024
Meade
Company info
 Name: Coziahr Htg & A/C
 Phone: (712) 323-5782
 Email: coziahr@gmail.com

Tech info
 Name: David Coziahr
 ID: 263
 Title: Owner
 Credentials: BPI 5044809

True Flow System Air Flow and Static Pressure Analysis

Air measurements	Cooling Climate: Moist	System Type: Fuel
Total air flow = 734 SCFM	Elevation: 1157 ft	Orientation: Upflow
Return duct = -0.114 inH ₂ O	Return temp: 66° F	Cooling Capacity: 2.145
After filter = -0.169 inH ₂ O		Filter Location: InDuct
Before evap. coil = 0.656 inH ₂ O		
Supply duct = 0.129 inH ₂ O		

Summary calculations

Flow		342 SCFM/ton
TESP		0.824 inH ₂ O
Return Plenum		0.114 inH ₂ O
Filter Drop		0.055 inH ₂ O
Evap. Coil Drop		0.527 inH ₂ O
Supply Plenum		0.129 inH ₂ O

Summary of Warnings

Low Flow; High Evap Coil Drop.

Customer

Name: Meade
 Phone: N/A
 Email: N/A
 Address: N/A

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Date tested: 6/8/2024
 6/8/2024 2:49:16 PM
Company info
 Name: Coziahr Htg & A/C
 Phone: (712) 323-5782
 Email: coziahr@gmail.com

Tech info
 Name: David Coziahr
 ID: 263
 Title: Owner
 Credentials: BPI 5044809

True Flow System Air Flow and Static Pressure Analysis

Air measurements	Cooling Climate: Moist	System Type: Fuel
Total air flow = 723 CFM	Elevation: 1161 ft	Orientation: Upflow
Return duct = -0.120 inH ₂ O		Cooling Capacity: 2
After filter = -0.207 inH ₂ O		Filter Location: InDuct
Before evap. coil = 0.595 inH ₂ O		
Supply duct = 0.109 inH ₂ O		

Summary calculations

Flow		362 CFM/ton
TESP		0.802 inH ₂ O
Return Plenum		0.120 inH ₂ O
Filter Drop		0.087 inH ₂ O
Evap. Coil Drop		0.486 inH ₂ O
Supply Plenum		0.109 inH ₂ O

Summary of Warnings

Flow is OK; High TESP.
 Flow is OK; High Evap Coil Drop.
 Maximum TESP Adjusted By User

Customer

Name: Mary Meade
 Phone: N/A
 Email: N/A
 Address: 248 Zenith Dr Council Bluffs IA 51503 United States

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Field Results (C3M8)



Date tested: 9/15/2023
Bates_TF report
Company info
Name: Coziahr Htg & A/C
Phone: (712) 323-5782
Email: coziahr@gmail.com

Tech info
Name: David Coziahr
ID: 263
Title: Owner
Credentials: BPI 5044809

True Flow System Air Flow and Static Pressure Analysis

Air measurements
Total air flow = 1069 SCFM
Return duct = -0.381 inH₂O
After filter = -0.416 inH₂O
Supply duct = 0.106 inH₂O

System & Conditions
Cooling Climate: Moist
Elevation: 1067 ft
Return temp: 74° F

System Type: Electric
Orientation: Upflow
Cooling Capacity: 3
Filter Location: InDuct

Summary calculations



Flow		356 SCFM/ton
TESP		0.523 inH ₂ O
Return Plenum		0.381 inH ₂ O
Filter Drop		0.035 inH ₂ O
Supply Plenum		0.106 inH ₂ O

Summary of Warnings

Low Flow, High Return Pressure.

Customer

Name: Bates
Phone: N/A
Email: N/A
Address: N/A

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Field Test Results (C3M8)



Date tested: 10/20/2023
Lowndes
Company info
Name: Coziahr Htg & A/C
Phone: (712) 323-5782
Email: coziahr@gmail.com

Tech info
Name: David Coziahr
ID: 263
Title: Owner
Credentials: BPI 5044809

True Flow System Air Flow and Static Pressure Analysis

Air measurements

Total air flow = 1059 SCFM
Return duct = -0.108 inH₂O
After filter = -0.133 inH₂O
Before evap. coil = 0.476 inH₂O
Supply duct = 0.174 inH₂O

System & Conditions

Cooling Climate: Moist
Elevation: 743 ft
Return temp: 74° F

System Type: Fuel
Orientation: Upflow
Cooling Capacity: 2.5
Filter Location: InDuct

Summary calculations

Flow		424 SCFM/ton
TESP		0.609 inH ₂ O
Return Plenum		0.108 inH ₂ O
Filter Drop		0.025 inH ₂ O
Evap. Coil Drop		0.302 inH ₂ O
Supply Plenum		0.174 inH ₂ O

Summary of Warnings

Flow is OK; High Evap Coil Drop.

Customer

Name: Lowndes
Phone: N/A
Email: N/A
Address: 444 Glen Ave Council Bluffs IA 51503 United States

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Field Test Results (BA2M8)



Date tested: 11/3/2022
510 N 41st St
Company info
Name: Coziahr Htg & A/C
Phone: (712) 323-5782
Email: coziahr@gmail.com

Tech info
Name: David Coziahr
ID: 263
Title: Owner
Credentials: BPI 5044809

True Flow System Air Flow and Static Pressure Analysis

Air measurements

Total air flow = 806 SCFM
Return duct = -0.204 inH₂O
After filter = -0.468 inH₂O
Before evap. coil = 0.187 inH₂O
Supply duct = 0.077 inH₂O

System & conditions

System Type: Fuel
Orientation: Upflow
Cooling Capacity: 1.875
Filter Location: InDuct
Cooling Climate Type: Moist
Elevation: 1001 ft

Summary calculations

Flow		430 SCFM/ton
TESP		0.655 inH ₂ O
Return Plenum		0.204 inH ₂ O
Filter Drop		0.265 inH ₂ O
Evap. Coil Drop		0.109 inH ₂ O
Supply Plenum		0.077 inH ₂ O

Summary of Warnings

- Flow is OK, high filter drop
- Flow is OK; High Return Pressure.

Customer

Name: Salvo
Phone: N/A
Email: N/A
Address: 510 N 41st St Council Bluffs IA 51501 United States

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Date tested: 12/4/2023
Salvo
Company info
Name: Coziahr Htg & A/C
Phone: (712) 323-5782
Email: coziahr@gmail.com

Tech info
Name: David Coziahr
ID: 263
Title: Owner
Credentials: BPI 5044809

True Flow System Air Flow and Static Pressure Analysis

Air measurements

Total air flow = 960 SCFM
Return duct = -0.219 inH₂O
After filter = -0.321 inH₂O
Supply duct = 0.106 inH₂O

Cooling Climate: Moist
Elevation: 978 ft
Return temp: 69° F

System Type: Electric
Orientation: Horizontal
Cooling Capacity: 2.4
Filter Location: InDuct

Summary calculations

Flow		400 SCFM/ton
TESP		0.427 inH ₂ O
Return Plenum		0.219 inH ₂ O
Filter Drop		0.102 inH ₂ O
Supply Plenum		0.106 inH ₂ O

Summary of Warnings

- Flow is OK; High Return Pressure.

Customer

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Thank you for your time



Innovative design/Cleaner indoor air/Healthier choice

What questions can I answer for you?