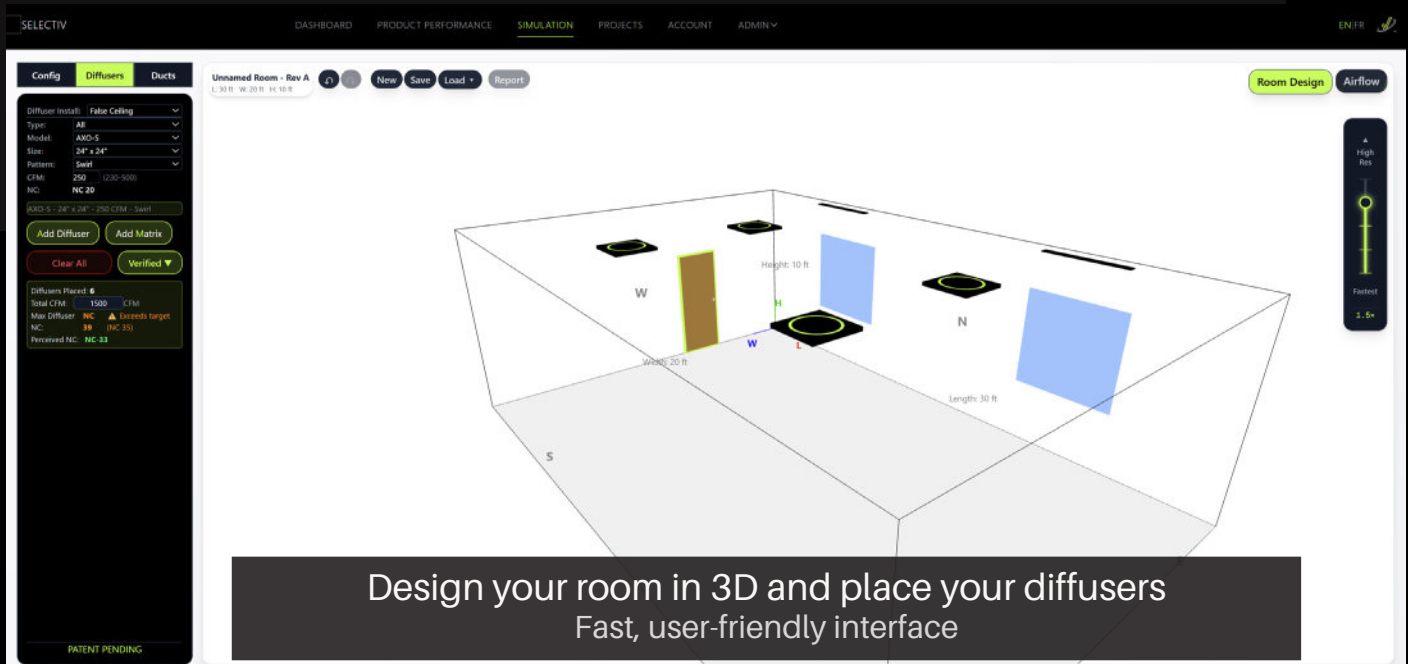




Air distribution design software

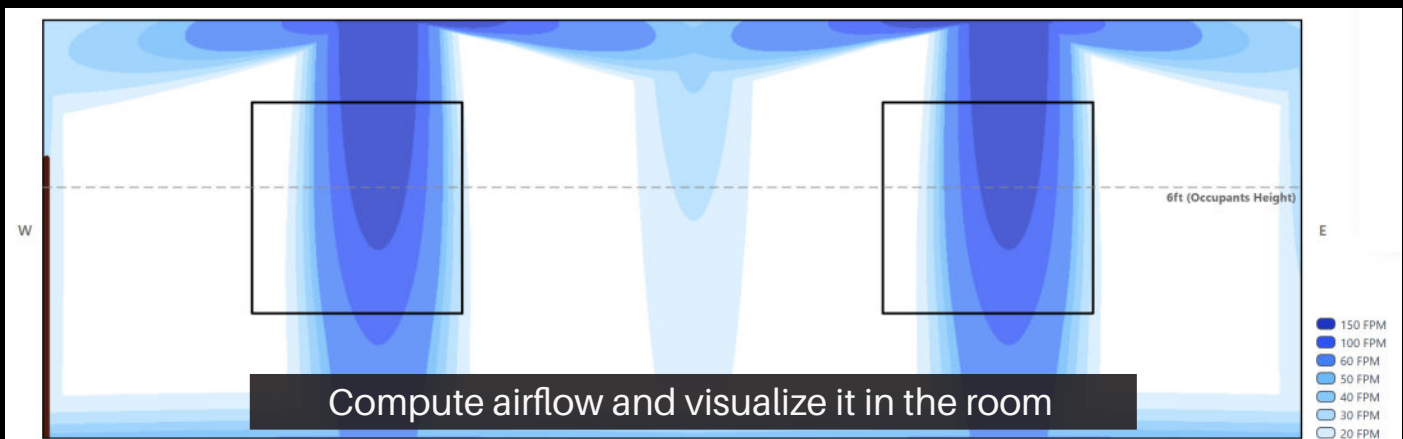
Guesswork in air mixing performance and occupant comfort is a thing of the past.
Design rooms in 3D, place diffusers, and validate airflow before installation.

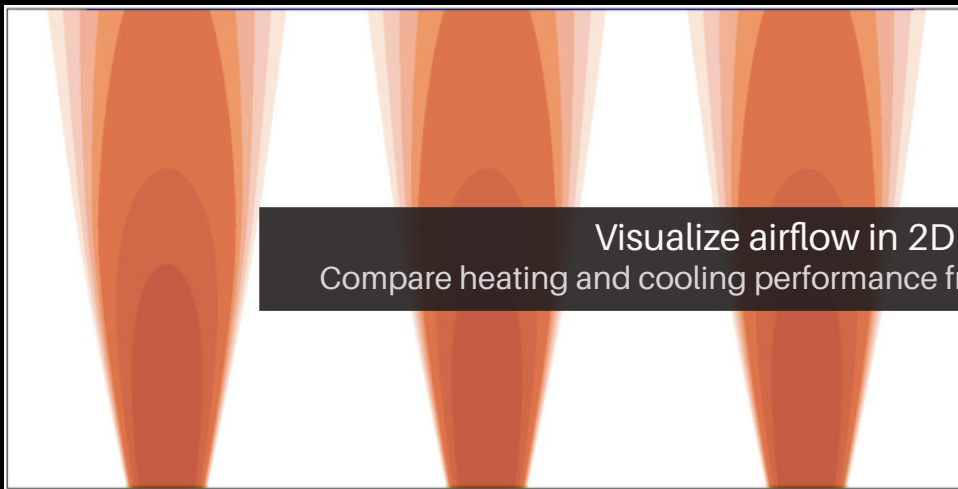


Computing Engineered Airflow

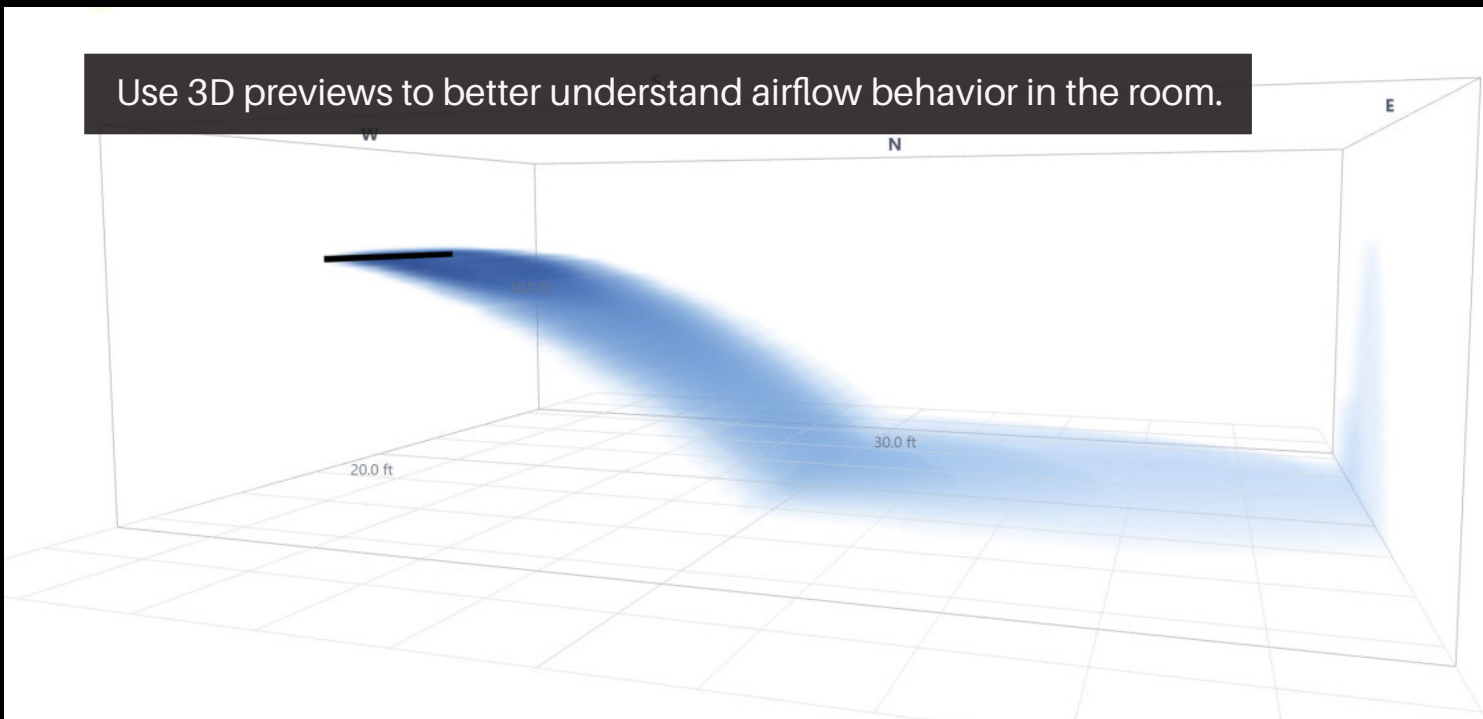
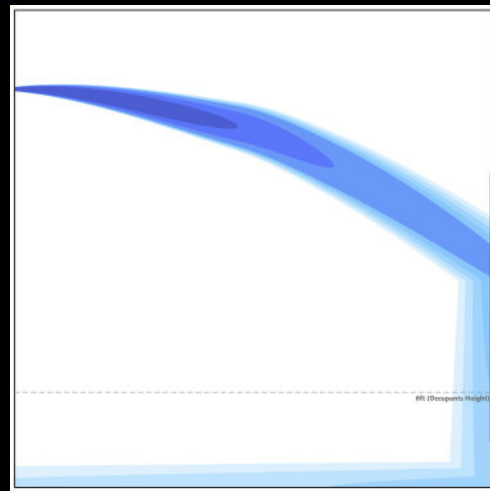
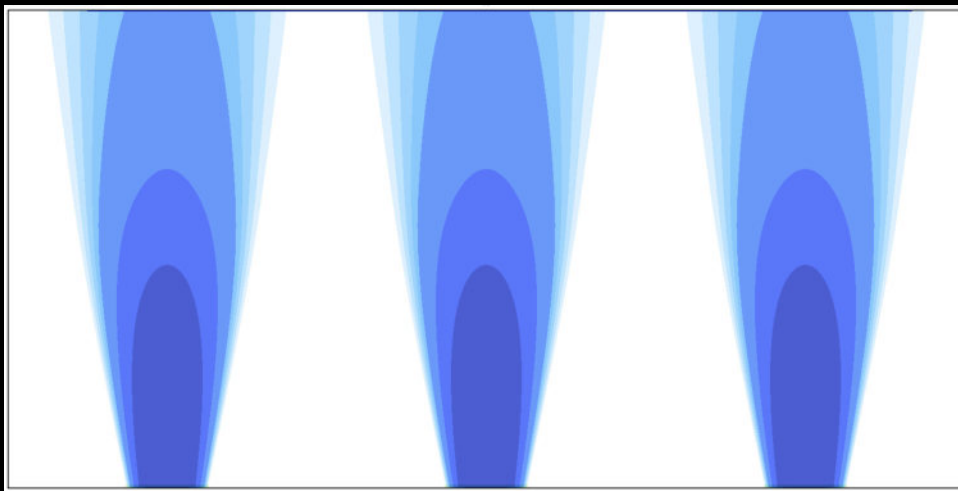
Render airflow in seconds or minutes

SelectiV fills the gap between impractical catalog data and time-consuming CFD simulations





Visualize airflow in 2D
Compare heating and cooling performance from multiple views.



Use 3D previews to better understand airflow behavior in the room.

SELECTIV

DASHBOARD

PRODUCT PERFORMANCE

SIMULATION

PROJECTS

ACCOUNT

ADMIN

ENFR

Config

Diffusers

Ducts

Multiple Duct Lines - Rev 6

L: 100.0 W: 80.0 H: 60.0 ft

1

New

Save

Load

Report

Room Design

Preview

Airflow

A High Rise

Fastest

0.25+

Duct Components

Start

Duct

Reducer

Elbow

Split

End Cap

Component Selected

Edit properties in popup dialog

DUCT LINES (2)

D1

10000 CFM

D2

500 CFM

Keyboard Shortcuts

Start

End

Reducer

Elbow

Split

End Cap

Duplicate

Delete

Duct 2

Total CFM: 10500 CFM

Max Diffuser NC: NC-30

Perceived NC: NC-24

Req. Ps: 0.253" w.g.

Verified

13 Duct Sections

Length: 60 in (12-00)

Type: (13 selected) BREEZ

PERFORMANCE ROWS

Active rows: 12 (14" sheet covers each row)

Row 1

Pattern

Angle

Qty (rows)

A1 - S

180

13

Row 2

Pattern

Angle

Qty (rows)

A3 - L

250

6

Copy Pattern

Change First Section

Change all sections

SECTION: 1 / 13

FLOW ANALYSIS

Diffused CFM

38

Inlet CFM

500

Inlet Ps

1.000" w.g.

Inlet velocity

229 FPM

Friction loss

-0.0002"

Pressure

+0.0009"

Diffuser NC

NC-13

Pressure (S1, S, R): 30

Ungroup

Delete

W

N

S

E

Height: 60 ft

Length: 100 ft

Width: 80 ft

Design Architectural Duct Diffusers

Build duct lines, apply perforation patterns, and validate performance.

150 FPM

100 FPM

60 FPM

50 FPM

40 FPM

30 FPM

20 FPM

150 FPM

100 FPM

60 FPM

50 FPM

40 FPM

30 FPM

20 FPM

Generate complete PDF reports in a single click

S

N

6ft (Occupants Height)

N

S

6ft (Occupants Height)

Cooling Mode Performance

Top View (Plan)

N

E

S

W

Vel.

150

100

60

50

40

30

20

7'-0"

22'-0"

7'-0"

22'-0"

7'-0"

22'-0"

7'-0"

22'-0"

7'-0"

22'-0"

7'-0"

22'-0"

#1

#2

#3

#4

#5

#6

#7

#8

#9

#10

#11

#12

#13

#14

#15

#16

#17

#18

#19

#20

Airflow direction

Ceiling Diffuser Matrix

Closed Ceiling

False Ceiling

Open Ceiling

Side Wall

Type

All

Model

KOBE

Slot Width

Auto

Length

Auto

Angle

Auto

Orient.

Auto

Recommended: KOBE-Auto: 10 - 2198 CFM

CFM per Diffuser

250

Total CFM (9 diffusers)

2250

Count X

3

Count Y

3

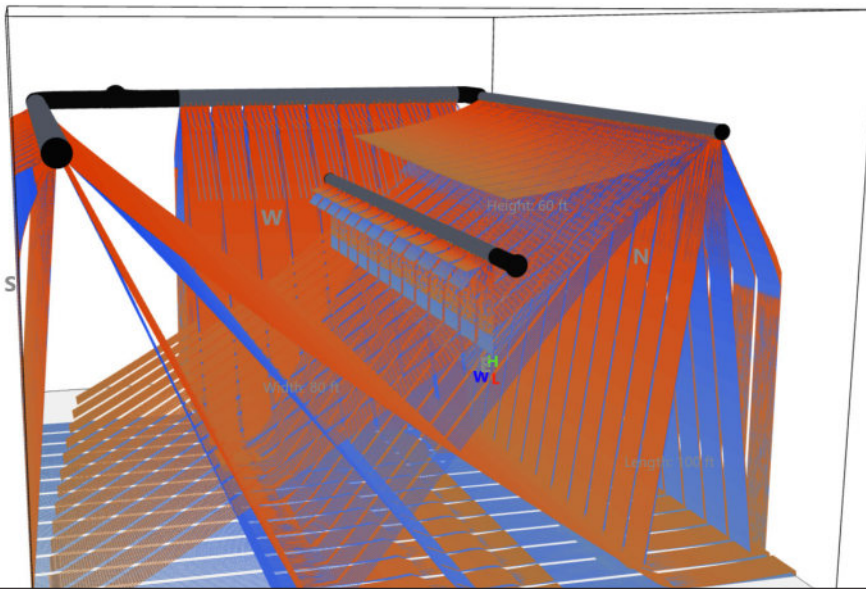
Auto-Design

☒ X Sym Spacing: 20.0ft btw, 10.0ft wall (auto)

☒ Y Sym Spacing: 7.5ft (auto)

Auto-Design for diffusers

Choose the diffuser model and let SelectiV find the best configuration for your room.



Auto-Design for ducts

Let SelectiV analyze millions of perforation patterns and recommend the best configuration for your room.

Auto-Design Duct Line

PATENT PENDING X

D12(5-8)

D12(12-15)

80% - 86%

81% - 82%

Section D12(5-8): Top 8 of 294,319 analyzed

#1

Micro circular hole 12-row spread

60%

Row 1: C1 @ 120" x16 | Row 2: C1 @ 130" x16 | Row 3: C1 @ 140" x40 | Row 4: C1 @ 155" x40 | Row 5: C1 @ 165" x40 | Row 6: C1 @ 175" x40 | Row 7: C1 @ 185" x40 | Row 8: C1 @ 195" x40 | Row 9: C1 @ 205" x40 | Row 10: C1 @ 220" x40 | Row 11: C1 @ 230" x16 | Row 12: C1 @ 240" x16

	Avg	Cool	Heat
Velocity	52%	58%	45%
Coverage	64%	78%	49%
NC	100%	100%	100%
Total	60%	70%	52%

#2

Pico circular hole 12-row spread

58%

Row 1: C0 @ 152" x55 | Row 2: C0 @ 156" x55 | Row 3: C0 @ 160" x55 | Row 4: C0 @ 164" x55 | Row 5: C0 @ 168" x55 | Row 6: C0 @ 172" x55 | Row 7: C0 @ 176" x55 | Row 8: C0 @ 180" x55 | Row 9: C0 @ 188" x55 | Row 10: C0 @ 200" x55 | Row 11: C0 @ 208" x55 | Row 12: C0 @ 220" x55

	Avg	Cool	Heat
Velocity	48%	50%	46%
Coverage	61%	59%	64%
NC	100%	100%	100%
Total	58%	59%	59%

#3

Pico circular hole 12-row spread

57%

Row 1: C0 @ 120" x72 | Row 2: C0 @ 132" x72 | Row 3: C0 @ 140" x72 | Row 4: C0 @ 152" x72 | Row 5: C0 @ 164" x72 | Row 6: C0 @ 176" x72 | Row 7: C0 @ 184" x72 | Row 8: C0 @ 196" x72 | Row 9: C0 @ 208" x72 | Row 10: C0 @ 220" x72 | Row 11: C0 @ 228" x72 | Row 12: C0 @ 240" x72

	Avg	Cool	Heat
Velocity	56%	62%	50%
Coverage	68%	79%	58%
NC	100%	100%	100%
Total	57%	62%	52%

#4

Pico circular hole 12-row spread

57%

Row 1: C0 @ 120" x72 | Row 2: C0 @ 132" x72 | Row 3: C0 @ 140" x72 | Row 4: C0 @ 152" x72 | Row 5: C0 @ 164" x72 | Row 6: C0 @ 176" x72 | Row 7: C0 @ 184" x72 | Row 8: C0 @ 196" x72 | Row 9: C0 @ 208" x72 | Row 10: C0 @ 220" x72 | Row 11: C0 @ 228" x72 | Row 12: C0 @ 240" x72

	Avg	Cool	Heat
Velocity	56%	62%	50%
Coverage	68%	79%	58%
NC	100%	100%	100%
Total	57%	62%	52%

Try SelectiV now: <https://selectiv.design>

EFFECTIV[®]