

Report By:

National TAB
1329 E. KEMPER ROAD
SUITE 4210
CINCINNATI, OH 45246



Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 05/13/2025
Completed By: National TAB

PROJECT
IBP 6275 - Spec Suite 100 (Plano, TX)

6275 W Plano Parkway

Pano, TX 75093

Client
Billingsley

National TAB

Project: IBP 6275 - Spec Suite 100 (Plano, TX)

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CERTIFICATION

PROJECT: IBP 6275 - Spec Suite 100 (Plano, TX)

The data presented in this report is a record of system measurements and final adjustments that have been obtained in accordance with the current edition of the NEBB *Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems*. Any variances from design quantities, which exceed NEBB tolerances, are noted in the Test-Adjust-Balance Report Project Summary.

The air distribution system has been tested and balanced and final adjustments have been made in accordance with NEBB standards and the project specifications.

NEBB TAB FIRM: National TAB-Southeast

REGISTRATION NO: 3755

CERTIFIED BY: J. Scott Springer 23312

DATE: 5/13/2025

The hydronic distribution system has been tested and balanced and final adjustments have been made in accordance with NEBB standards and the project specifications.

NEBB TAB FIRM: National TAB-Southeast

REGISTRATION NO: 3755

CERTIFIED BY: J. Scott Springer 23312

DATE: _____

Submitted and Certified by:

NEBB TAB FIRM: National TAB-Southeast

TAB PROFESSIONAL: J. Scott Springer

SIGNATURE: 

REGISTRATION NO: 3755 (NTAB) / 23312

CERTIFICATION EXP: 12/31/2025





National TAB



Testing, Adjusting, and Balancing Equipment

Function		Range	Minimum Accuracy	Instrument Information	Calibration Date	Date Due
AIR	AIR PRESSURE	0 in wg to 10 in wg	2% +/- 0.001 in wg	Shortridge ADM-880C S/N M05066	10/15/2024	10/15/2025
	AIR VELOCITY INSTRUMENT	50 fpm to 3900 fpm	+/- 5 % +/- 7 fpm	Shortridge ADM-880C S/N M05066	10/15/2024	10/15/2025
	DIRECT HOOD READING	100 cfm to 2000 cfm	+/- 3 % +/- 7 cfm	Shortridge Flow Hood	10/15/2024	10/15/2025
TEMPERATURE	AIR METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 081820093	10/15/2024	10/15/2025
	AIR PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 5028	10/15/2024	10/15/2025
	IMMERSION METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 081820093	10/15/2024	10/15/2025
	IMMERSION PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 1075	10/15/2024	10/15/2025
	CONTACT METER	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - SRH77A S/N 081820093	10/15/2024	10/15/2025
	CONTACT PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper ATKINS - PD1388 7-6 S/N 4011	10/15/2024	10/15/2025
HUMIDITY	HUMIDITY PROBE	10 % RH to 90 % RH	3% of reading	Cooper ATKINS - SRH77A S/N 090315046	10/15/2024	10/15/2025
ELECTRICAL	VOLTAGE MEASUREMENT	0 VAC to 600 VAC	2 % reading +/- 5 digits	Dwyer CM-1 - S/N 190800099	10/15/2024	10/15/2025
	AMPERAGE MEASUREMENT	0 Amperers to 100 Amperes	2 % reading +/- 5 digits	Dwyer CM-1 - S/N 190800099	10/15/2024	10/15/2025
ROTATION	ROTATION MEASUREMENT	60 rpm to 5000 rpm	2 % reading 2 rpm	Dwyer TAC-L - S/N S1100123	10/15/2024	10/15/2025
HYDRONIC	PRESSURE MEASUREMENT	-30 in Hg to 200 psi	±2% of reading +/- 1 psi	Dwyer 490W-6 - S/N 01L6NK	6/3/2024	6/3/2025
	DIFFERENTIAL PRESSURE MEASUREMENT	0 psi - 80 psi	±2% of reading +/- 1 psi	Dwyer 490W-6 - S/N 01L6NK	6/3/2024	6/3/2025
DALT	DUCT LEAKAGE	-10" - +10" wc	±1% of reading +/- .0004" wc	Kanomax DALT 6900 S/N: 080439	3/2025	3/1/2026

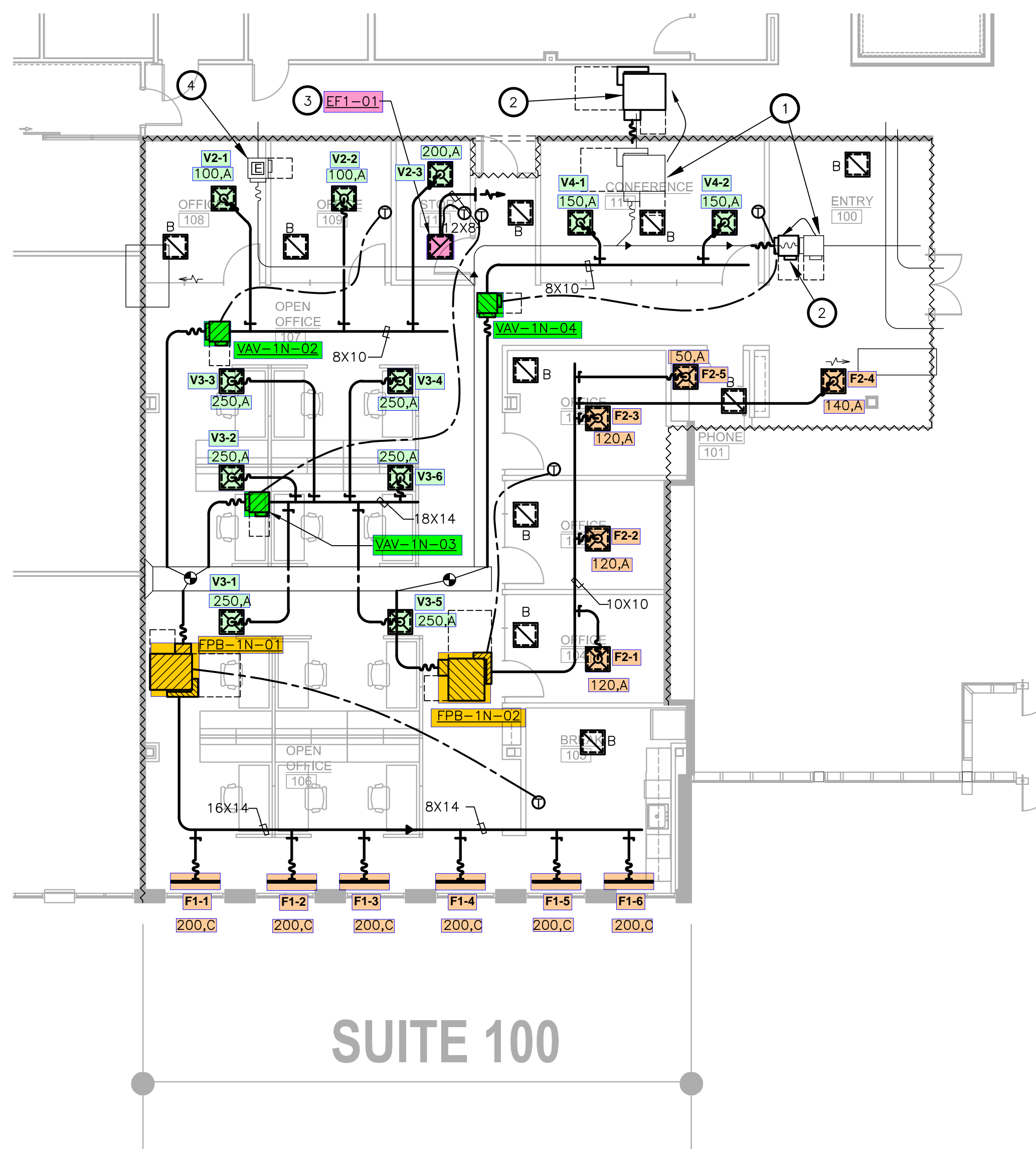
Abbreviation List

A = Area (ft ²)	S.F. = Service Factor
AHU = Air Handling Unit	SF = Supply Fan
A _k = Effective Area	SP = Static Pressure
BHP = Brake Horsepower (IP) HP	SR = Supply Register
Btu = British Thermal Unit	T = Temperature
Btu/h = Btuh = BTUH = BTU/Hour	T _{ma} = Mixed Air Temperature
CL = Center Distance (used in belt formula)	T _{oa} = Outside Air Temperature
CD = Ceiling Diffuser	T _{ra} = Return Air Temperature
CF = Correction Factor	H = Head (in wc, ft wc, psi)
CFM = Volumetric Flow: Cubic Feet Per Minute	h = Enthalpy
CO ₂ = Carbon Dioxide	HP = Horsepower
CO = Carbon Monoxide	hr = Hour
C _v = Flow Constant	K _v = Flow constant (SI)
d = Diameter (in.) IP	kW = Kilowatt = 1000 Watts
Δ = Difference or Change (Final - Initial)	LAT = Leaving Air Temperature
DB = Dry Bulb	lb = Pounds
EA = Exhaust Air	LWT = Leaving Water Temperature
EAT = Entering Air Temperature	ma = Mixed Air
EF = Exhaust Fan	MIN = Minimum
Eff = Efficiency	MAX = Maximum
EG = Exhaust Grille	N/A = Not Applicable
ESP = External Static Pressure	NA = No Access
EWT = Entering Water Temperature	NL = Not Listed
°F = Degrees Fahrenheit, °F	NPSHA = Net Positive Suction Head Available
FPB = Fan Powered Box	NS = Not Specified
FLA = Full Load Amps	OA = Outside Air
fpm = Feet per Minute (fpm)	OAT = Outside Air Temperature
ft = Foot	PD = Sheave Pitch Diameter
gal = Gallons	P.D. = Pressure Drop
GPM = Gallons Per Minute (GPM)	PF = Power Factor
h = Enthalpy (BTU/lb dry air)	SG = Supply Grille
P = Pressure	SR = Supply Register
ppm = parts per million	TP = Total Pressure
psi = Pounds Per Square Inch	T _{ra} = Return Air Temperature
psid = PSI Differential	TS = Tip Speed (fpm) IP, (m/s) SI
r = Radius (in)	TSP = Total Static Pressure
% _{ra} = % of Return Air	V = Velocity
RA = Return Air	VAV = Variable Air Volume
RAT = Return Air Temperature	VD = Volume Damper
RF = Return Fan	VFD = Variable Frequency Drive
RG = Return Grille	W = Watt
RH = Relative Humidity	WB = Wet Bulb
RPM = Revolutions Per Minute	wg = wc = water gauge = water column
RTU = Roof Top Unit	WHP = Water Horsepower (IP)
SA = Supply Air	ω = Humidity Ratio

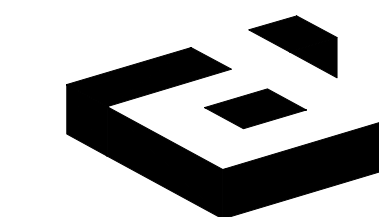
NOTES BY SYMBOL (X) :

- EXISTING LOCATION OF TERMINAL BOX TO BE RELOCATED/REMOVED. REMOVE EXISTING MEDIUM AND LOW PRESSURE DUCTWORK AS INDICATED ON DRAWINGS.
- NEW LOCATION OF TERMINAL BOX. MOUNT BOX FROM STRUCTURE ABOVE. ENSURE BOX CLEARANCES ARE MAINTAINED AT NEW LOCATION. EXTEND NEW MEDIUM AND LOW PRESSURE DUCT AS INDICATED ON DRAWINGS. COORDINATE RELOCATION WITH OTHER TRADES INVOLVED.
- INSTALL NEW EXHAUST FAN AT SUSPENDED CEILING. SUPPORT FAN FROM STRUCTURE ABOVE USING HANGER RODS WITH VIBRATION ISOLATOR PER EACH ROD. EXTEND EXHAUST DUCT FROM OUTLET AT EXHAUST FAN AS SHOWN ON DRAWINGS.
- EXISTING RESTROOM VAV BOX TO REMAIN.

REFER TO SHEET M0.01 FOR GENERAL NOTES, SCHEDULES AND SYMBOLS.



① LEVEL 01 MECHANICAL PLAN
SCALE: 1/8"=1'-0"



idGROUP

2641 IRVING BLVD.
DALLAS, TEXAS 75207
TEL: 214-638-6800

ARCHITECT/ENGINEER

© 2024 Purdy - McGuire
Mechanical - Electrical Engineers
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PM JOB NO. 24040.005
PROJECT MGR. TODD JOHNSON
THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK WITHOUT THE WRITTEN CONSENT OF PURDY-MCGUIRE, INC. DALLAS, TX

SEAL



PROJECT NUMBER: 660-011
DRAWN BY: TP
CHECKED BY: BH/CB
R.S.F.: 3,811

6275 WEST PLANO PKWY
SPEC SUITE 100

6275 WEST PLANO PKWY
SUITE 100
PLANO, TX 75093

NO.	REVISIONS	DATE

CLIENT/LANDLORD ISSUE DATE: 11/08/2024
BID ISSUE DATE: 11/08/2024
PERMIT ISSUE DATE: 11/08/2024

DRAWING TITLE:

LEVEL 01 MECHANICAL PLAN

DRAWING NUMBER:

M2.01



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Project: IBP 6275 - Spec Suite 100 (Plano, TX)

VAV - Single Duct



VAV/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
VAV-1N-02	COOLING	8	400	385	80	78	866

Completed By: Bayley Morvant on 04/17/2025

Asset	Notes	Date	Written By
VAV-1N-02	SERVICE: VAV-1 N-02	04/17/2025	Bayley Morvant

Diffuser Supply (GRD)

VAV-1N-02/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	108	A	8	100	80	95	95.0
SGRD2	109	A	8	100	163	92	92.0
SGRD3	110	A	8	200	185	198	99.0
Total				400	428	385	96.25%

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Project: IBP 6275 - Spec Suite 100 (Plano, TX)

VAV - Single Duct



VAV/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
VAV-1N-03	COOLING	12	1500	1376	300	293	1926

Completed By: Bayley Morvant on 04/17/2025

Asset	Notes	Date	Written By
VAV-1N-03	SERVICE: VAV-1N-03	04/17/2025	Bayley Morvant

Diffuser Supply (GRD)

VAV-1N-03/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	107	A	8	250		187	226	226	90.4
SGRD2	107	A	8	250		221	234	234	93.6
SGRD3	107	A	8	250		218	228	228	91.2
SGRD4	107	A	8	250		228	234	234	93.6
SGRD5	107	A	8	250		230	227	227	90.8
SGRD6	107	A	8	250		205	227	227	90.8
Total				1500		1289	1376	1376	91.73%

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Project: IBP 6275 - Spec Suite 100 (Plano, TX)

VAV - Single Duct



VAV/

Asset							
Asset Name	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Ak (max)
VAV-1N-04	COOLING	8	300	297	60	56	804

Completed By: Bayley Morvant on 04/17/2025

Asset	Notes	Date	Written By
VAV-1N-04	SERVICE: VAV-1N-04	04/17/2025	Bayley Morvant

Diffuser Supply (GRD)

VAV-1N-04/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	111	A	8	150	159	159	106.0
SGRD2	111	A	8	150	138	138	92.0
Total				300	297	297	99%

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Project: IBP 6275 - Spec Suite 100 (Plano, TX)

VAV-Fan Powered Box



FPB/

Asset										
Asset Name	Service	Type	Inlet Size	Design Max Cool CFM	Max Cool CFM	Design Min Cool CFM	Min Cool CFM	Design Fan CFM (Heat)	Fan CFM (Heat)	Ak (max)
FPB-1N-01	106, 105	REHEAT	12	1200	1260	300	299	840	867	2276

Completed By: Bayley Morvant on 04/17/2025

Asset	Notes	Date	Written By
FPB-1N-01	SERVICE: FPB-1N-01	04/17/2025	Bayley Morvant

Diffuser Supply (GRD)

FPB-1N-01/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	106	C	10	200	267	193	96.5
SGRD2	106	C	10	200	310	207	103.5
SGRD3	106	C	10	200	331	218	109.0
SGRD4	106	C	10	200	295	209	104.5
SGRD5	105	C	10	200	266	217	108.5
SGRD6	105	C	10	200	356	216	108.0
Total				1200	1825	1260	105%

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Project: IBP 6275 - Spec Suite 100 (Plano, TX)

VAV-Fan Powered Box



FPB/

Asset										
Asset Name	Service	Type	Inlet Size	Design Max Cool CFM	Max Cool CFM	Design Min Cool CFM	Min Cool CFM	Design Fan CFM (Heat)	Fan CFM (Heat)	Ak (max)
FPB-1N-02	100, 101, 102-104	REHEAT	8	550	551	138	141	385	378	1018

Completed By: Bayley Morvant on 04/17/2025

Asset	Notes	Date	Written By
FPB-1N-02	SERVICE: FPB-1N-02	04/17/2025	Bayley Morvant

Diffuser Supply (GRD)

FPB-1N-02/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	104	A	8	120	136	118	98.3
SGRD2	103	A	8	120	145	118	98.3
SGRD3	102	A	8	120	128	126	105.0
SGRD4	100	A	8	140	140	139	99.3
SGRD5	101	A	8	50	134	50	100.0
Total				550	683	551	100.18%

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Project: IBP 6275 - Spec Suite 100 (Plano, TX)

System/Unit: FAN - Exhaust



Asset: EF1-01

AREA:110

Unit Data		
	Design	Actual
MFG	NA	[1]
Model Num	NA	[1]
Serial Num	-	[1]
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	400	367
RL Voltage	-	120
RL Amperage	-	2.9
Total ESP	0.25	0.11

Motor Data		
	Design	Actual
Motor MFG	-	MCMILLAN
Frame	-	NA
Horsepower	-	0.083
Motor Rpm	-	1070
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	3.3
Service Factor	-	NA

Completed By: Bayley Morvant on 04/17/2025

Notes:

[1] UNIT WAS NOT EQUIPPED WITH AN INFORMATION TAG.

Written By: Bayley Morvant on 04/17/2025