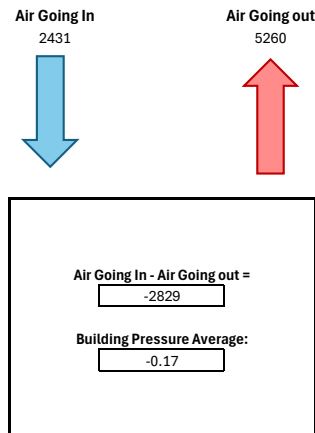


## Summary

<b>What was found initially:</b>	After speaking with manager, it has been noted that there is an issue with building pressure and hood exhaust. Building is negative pressure and causing sucking at the doorways. Hood exhaust is getting clogged by grease. In this case, hood filters may need to be replaced. Initial Building pressure is -0.29" average. RTU-3 and SF-1 are not powered, and OA dampers on RTUs 1 and 2 are fully shut.
<b>Changes made:</b>	RTUs 1 & 2 were adjusted so they reached OA design CFM. Each unit has ~1200 CFM of OA provided. The OA manual damper has been opened and marked with sharpie.
<b>Air balancing &amp; performance related issues that need to be resolved:</b>	A pulley change is needed on EF-2 to reduce CFM from 1706 to 1125 but the current belt on is too large- the belt must be swapped. Other EFs have been left as is to avoid an even more negative building pressure. Smoke capture on hoods are good, with HD-3 needing some improvement. If hood filters are replaced and more OA is provided to the building, smoke capture should be good for all hoods. RTU-3 and SF-1 need power to start running. This will provide the space with more OA. If MUA reaches design CFM of 1219, RTU-3 OA is set at the 1200 CFM design, the building will have a net positive +171 CFM. If restroom exhaust is increased to 600 CFM design, this will put net CFM at -198. Other EFs can than be increased if needed to reach net positive flow. Building was balanced as is to avoid more negative pressure. RTUs, EF-2/3/4, and SF can all use cleaning or replacement to improve performance and condition. Building pressure has improved after changes made from -0.29" to -0.17".

## Air Balance Schedule

AIR GOING IN (+)	Target	Initial	Final
RTU-1 OA	1200	0	1203
RTU-2 OA	1200	0	1228
RTU-3 OA	1200	0	0
RTU-4 OA	0		
RTU-5 OA	0		
RTU-6 OA	0		
MUA-1	1219	0	0
MUA-2	0		
MUA-3	0		
AIR GOING OUT (-)			
EF-1	975	655	655
EF-2	1125	1706	1706
EF-3	1313	1097	1097
EF-4	1575	1130	1130
EF-5	0		0
EF-6	0		0
EF-7	0	441	441
RR Exhaust (Total)	600	231	231
NET AIRFLOW (TARGET +200 CFM)	-769	-5260	-2829



## Target Airflow Calculations

Unit	Tonnage	Target OA	OA %
RTU-1	15	1200	20%
RTU-2	15	1200	20%
RTU-3	15	1200	20%
RTU-4		0	N/A
RTU-5		0	N/A
RTU-6		0	N/A

Hoods	Served by	Served by	Type	Length (in)	Width (in)	MUA Type	Equipment 1	Equipment 2	Equipment 3	CFM/ft1	Target Exhaust	Target MUA
Hood 1	EF-2	MUA-1	Type I	90	57	Short Cycle	Ovens			150	1125	563
Hood 2	EF-3	MUA-1	Type I	70	57	Short Cycle/riddle - Flat Top				225	1313	656
Hood 3	EF-4		Type I	84	33	Short Cycle	Fryers			225	1575	
Hood 4	EF-1		Type I	78	51		Ovens			150	975	0
Hood 5	EF-7		Type I	48	45					NOT FOUND	0	0

Restrooms	# of Toilets/Urinals	Target CFM
RR Exhaust (Total)	8	600