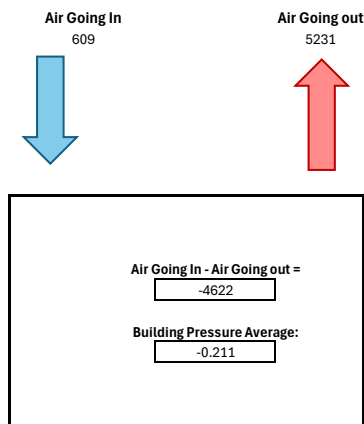


Summary

What was found initially:	Building pressures at both the front & rear were significantly negative. The OA dampers for RTU1 & RTU3 were missing along with both sets of dampers being shut. RTU2 OA already in design upon arrival. All hoods were operating upon arrival as well.
Changes made:	Unable to make changes due to RTU1 & RTU3 economizers. Both economizers were attempted to be manually opened, but the hex key insert for the spring mechanism is severely stripped and dirty inside, leading to the spring resetting and closing the dampers almost immediately after opening.
Air balancing & performance related issues that need to be resolved:	Recommend replacing all 3 units as a whole with DOAS units. The units installed are very old, dirty and outdated. Because the OA dampers for 2 of the 3 units are unable to be opened, building pressure as a whole is very negative. EF-4 exhaust is very low, checked motor and checked belt alignment but both were installed tightly.

Air Balance Schedule

AIR GOING IN (+)	Target	Initial	Final
RTU-1 OA	700	0	0
RTU-2 OA	600	609	609
RTU-3 OA	1040	0	0
RTU-4 OA	0		
RTU-5 OA	0		
RTU-6 OA	0		
MUA-1	844		
MUA-2	0		
MUA-3	0		
AIR GOING OUT (-)			
EF-1	600	778	778
EF-2	1088	1148	1148
EF-3	1406	1090	1090
EF-4	1575	859	859
EF-5	938	892	892
EF-6	0		
EF-7	0		
RR Exhaust (Total)	525	464	464
NET AIRFLOW (TARGET +200 CFM)	-2948	-4622	-4622



Target Airflow Calculations

Unit	Tonnage	Target OA	OA %
RTU-1	17.5	700	10%
RTU-2	15	600	10%
RTU-3	13	1040	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-1	MUA-1	Type I	48	45	Back Return	Ovens			150	600	300
Hood 2	EF-2	MUA-1	Type I	87	60	Back Return	Ovens			150	1088	544
Hood 3	EF-3		Type I	75	58		Griddle - Flat Top			225	1406	#N/A
Hood 4	EF-4		Type I	84	36		Fryers			225	1575	#N/A
Hood 5	EF-5		Type I	75	58		Ovens			150	938	#N/A

Restrooms	# of Toilets/Urinals	Target CFM
RR Exhaust (Total)	7	525