

DEL-AIR Heat Recovery Module Engineering Data

HRM1 (24-3/4" X 24-3/4" X 49")				Pressure Drop (IN. WG)**	Blower Horsepower		Intake and Outlet Areas (Sq. Ft)		Heat Transfer Surface Area (Sq. Ft)
AIRFLOW (SCFM)	Heat Recovery Ratio (%)*				Exhaust	Supply	Exhaust	Supply	
	@ 20% RH	@ 50% RH	@80% RH						
1000	77	81	85	0.11	0.06	0.06	3.60	7.36	470
1500	73	77	81	0.20	0.10	0.10			
2000	68	73	77	0.32	0.28	0.28			
2500	63	68	73	0.45	0.58	0.58			
3000	58	64	68	0.61	0.86	0.86			
3500	54	60	64	0.82	1.30	1.30			

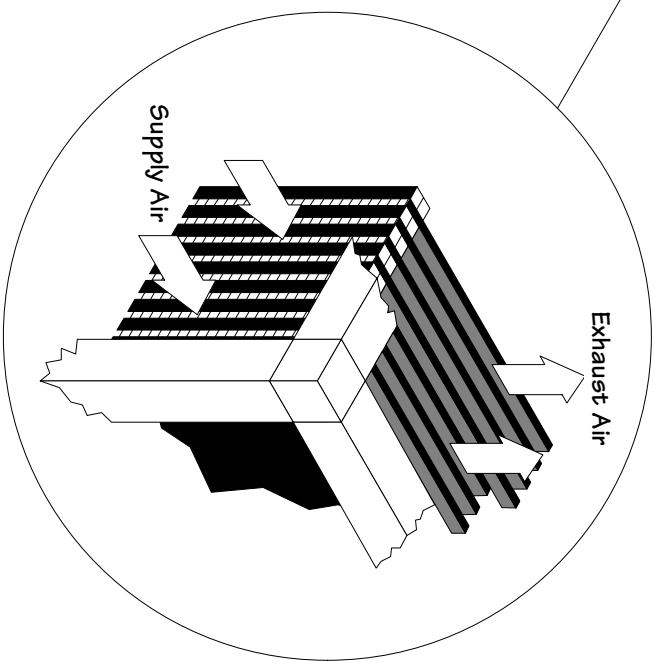
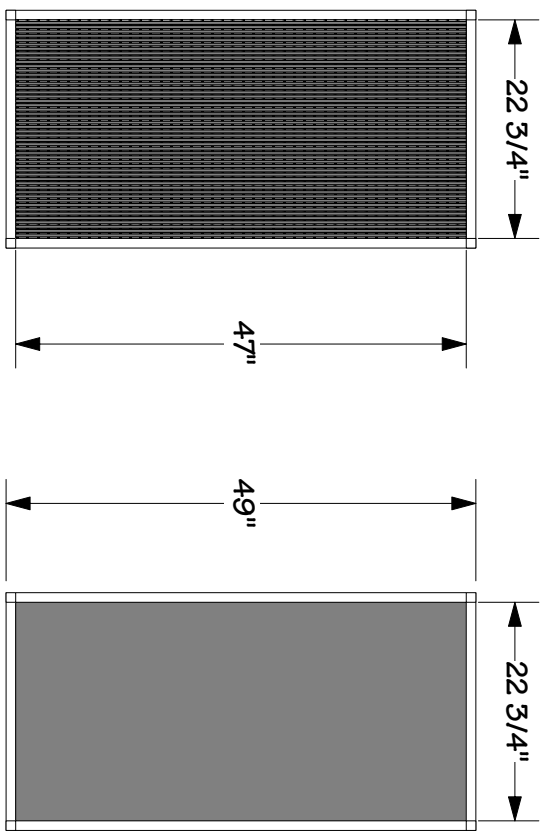
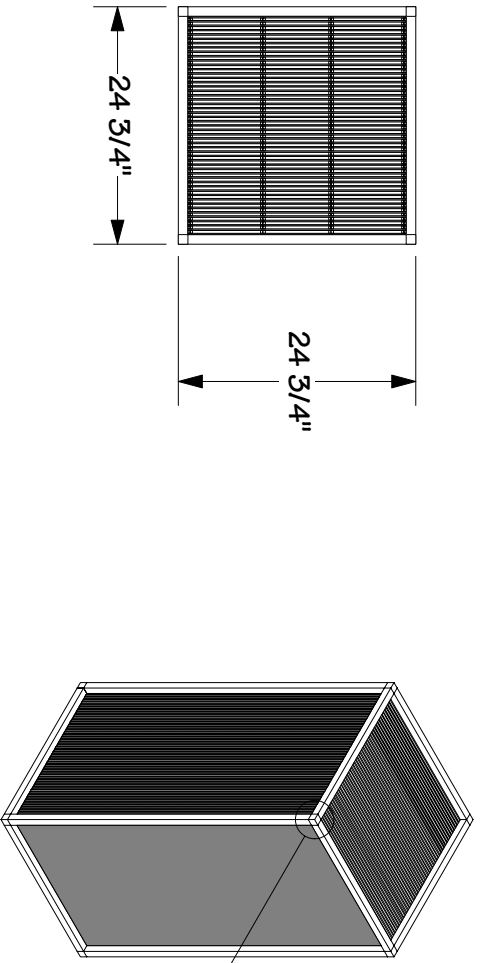
HRM2 (24-3/4" X 48-3/4" X 49")				Pressure Drop (IN. WG)**	Blower Horsepower		Intake and Outlet Areas (Sq. Ft)		Heat Transfer Surface Area (Sq. Ft)
AIRFLOW (SCFM)	Heat Recovery Ratio (%)*				Exhaust	Supply	Exhaust	Supply	
	@ 20% RH	@ 50% RH	@80% RH						
2000	77	81	85	0.11	0.12	0.12	7.19	14.72	941
3000	73	77	81	0.20	0.20	0.20			
4000	68	73	77	0.32	0.56	0.56			
5000	63	68	73	0.45	1.16	1.16			
6000	58	64	68	0.61	1.72	1.72			
7000	54	60	64	0.82	2.60	2.60			

HRM3 (24-3/4" X 73-1/2" X 49")				Pressure Drop (IN. WG)**	Blower Horsepower		Intake and Outlet Areas (Sq. Ft)		Heat Transfer Surface Area (Sq. Ft)
AIRFLOW (SCFM)	Heat Recovery Ratio (%)*				Exhaust	Supply	Exhaust	Supply	
	@ 20% RH	@ 50% RH	@80% RH						
3000	77	81	85	0.11	0.18	0.18	10.98	22.46	1436
4500	73	77	81	0.20	0.30	0.30			
6000	68	73	77	0.32	0.84	0.84			
7500	63	68	73	0.45	1.74	1.74			
9000	58	64	68	0.61	2.58	2.58			
10500	54	60	64	0.82	3.90	3.90			

HRM4 (24-3/4" X 97-1/2" X 49")				Pressure Drop (IN. WG)**	Blower Horsepower		Intake and Outlet Areas (Sq. Ft)		Heat Transfer Surface Area (Sq. Ft)
AIRFLOW (SCFM)	Heat Recovery Ratio (%)*				Exhaust	Supply	Exhaust	Supply	
	@ 20% RH	@ 50% RH	@80% RH						
4000	77	81	85	0.11	0.24	0.24	14.61	29.89	1910
6000	73	77	81	0.20	0.40	0.40			
8000	68	73	77	0.32	1.12	1.12			
10000	63	68	73	0.45	2.32	2.32			
12000	58	64	68	0.61	3.44	3.44			
14000	54	60	64	0.82	5.20	5.20			

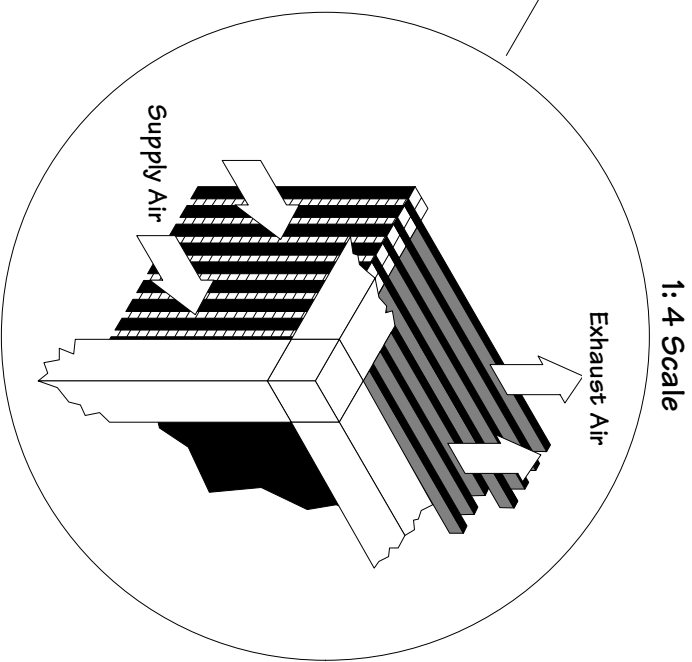
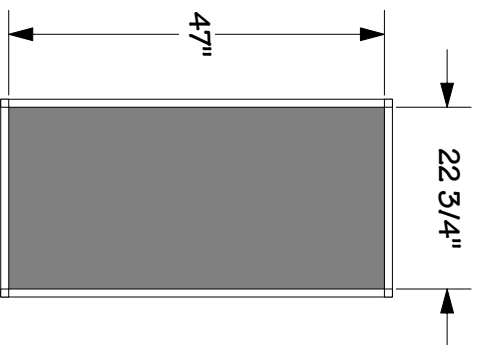
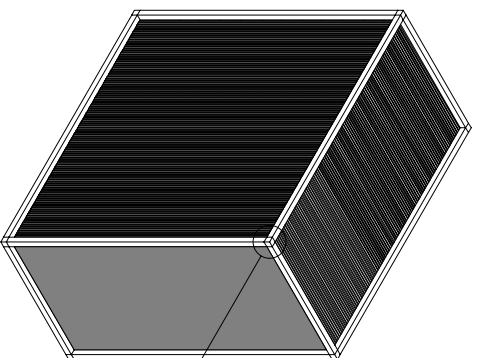
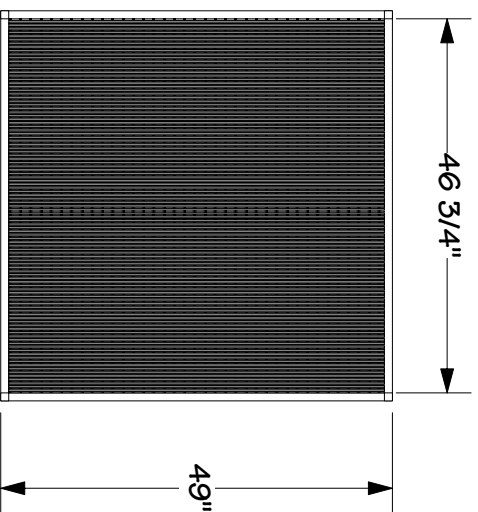
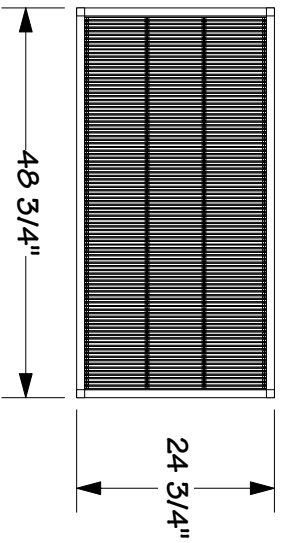
* Heat Recover Ratio = Sensible Energy Recovered / Sensible Energy Exhausted as determined at Balanced Mass Airflows on Exhaust and Supply

** Horsepower required for core alone. When connecting additional Ductwork, blower speed and power must be adjusted according to the fan laws.



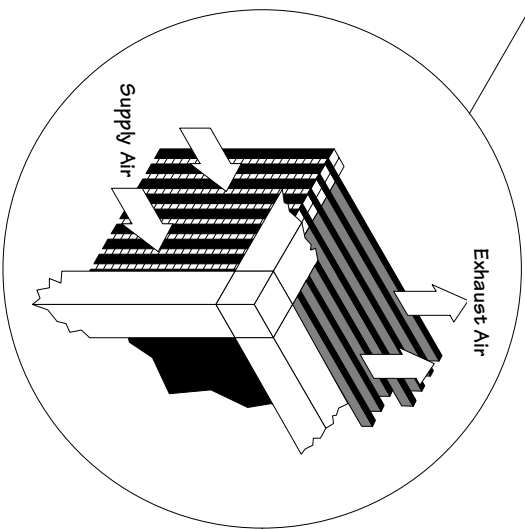
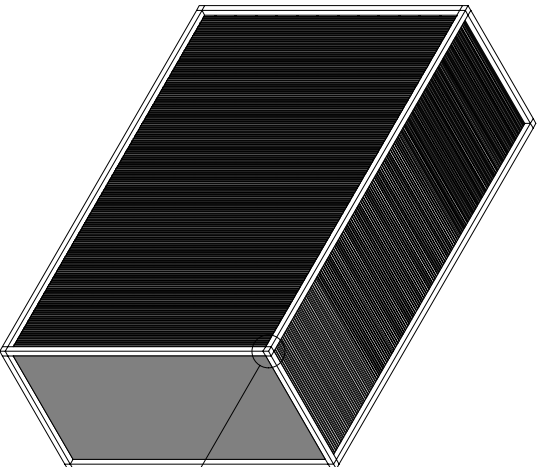
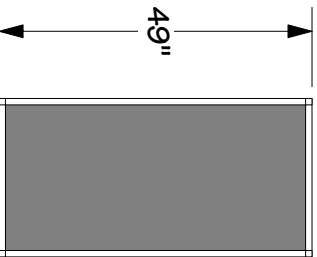
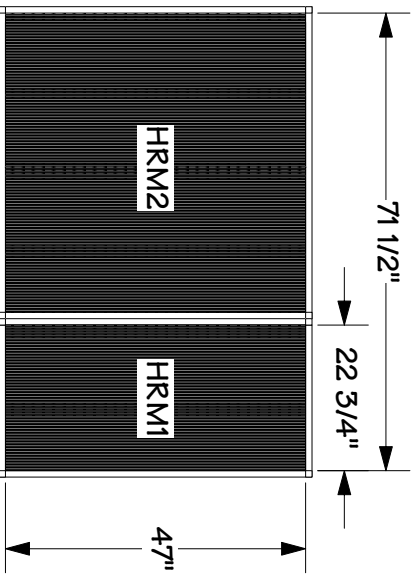
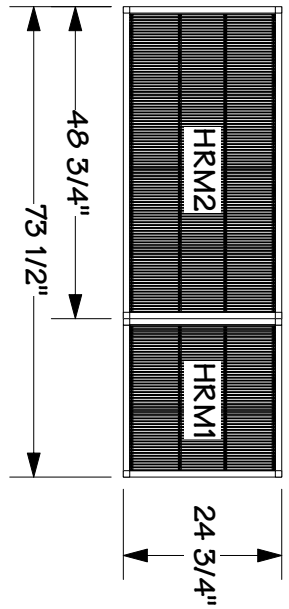
Material
 Core: Coroplast™, corrugated polypropylene
 Frame: 1" X 1" 6063 Aluminum tubing

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APPROVALS:		DATE:		TITLE:	HRM 1 Commercial Core				
CUSTOMER:	TLJ	CHECKED BY:							
REVISION:	Reduced length & width by 1/4"								
DATE:	17-08-94								



Material
 Core: Coroplast™, corrugated polypropylene
 Frame: 1" X 1" 6063 Aluminum tubing

DESIGNED BY:	TLJ	DATE:	17-08-94	SCALE:	1:24	PAGE:	1	OF:	1
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CUSTOMER:	TLJ			TITLE:	HRM 2 Commercial Core				
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REVISION:	Reduced length & width by 1/4"								
DATE:	17-08-94								



1 : 5 Scale

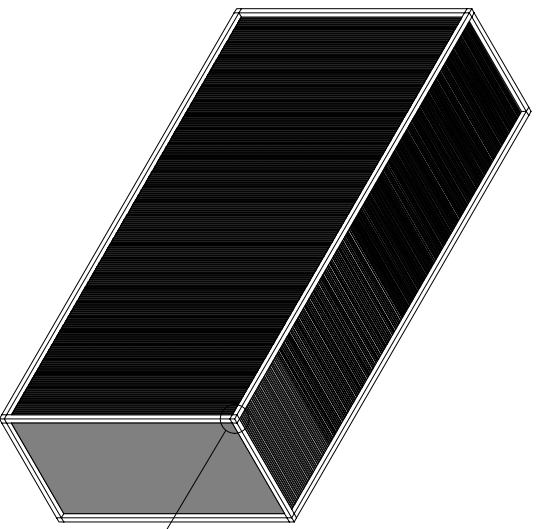
Material

Core: Coroplast™, corrugated polypropylene
 Frame: 1" X 1" 6063 Aluminum tubing

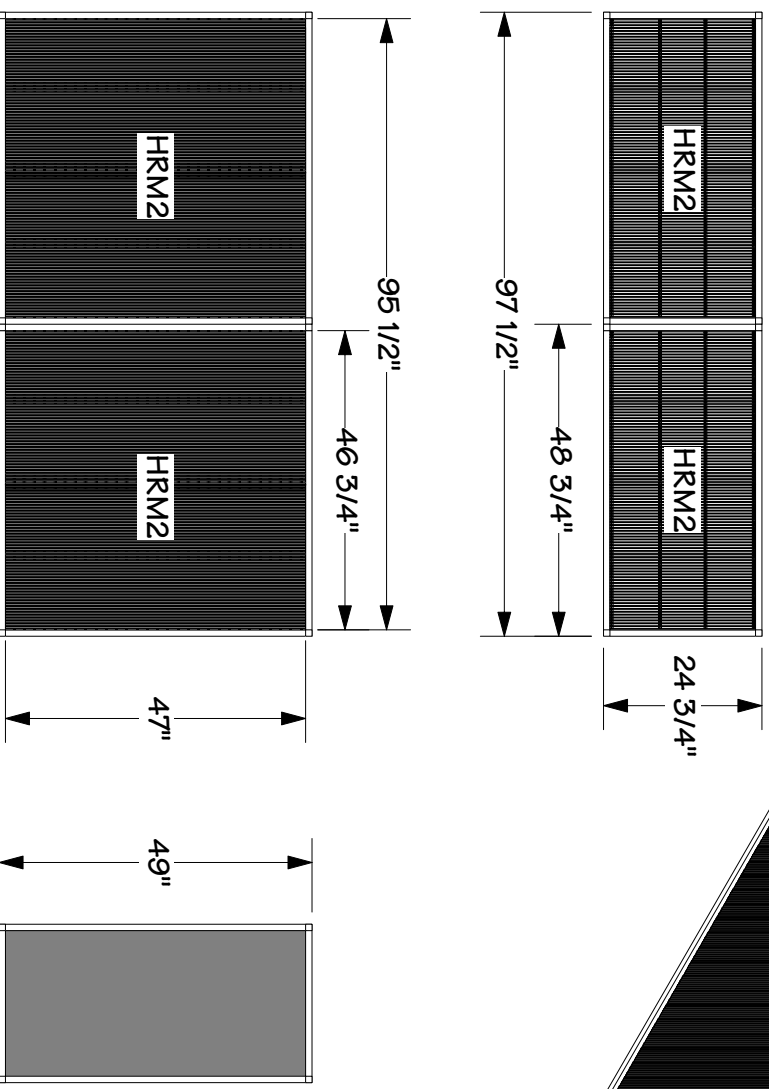
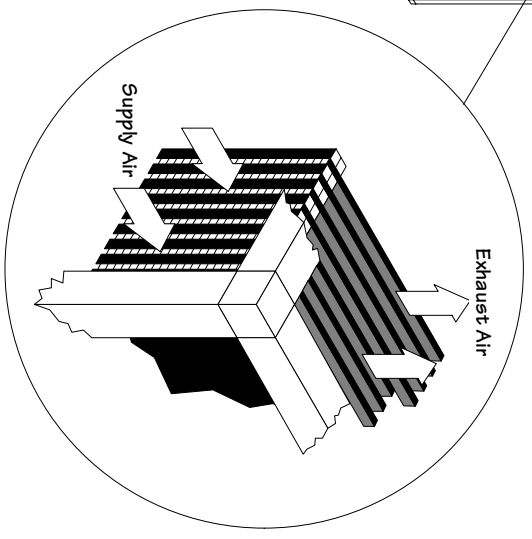
DESIGNED BY:	TLJ	DATE:	17-08-94
DRAWN BY:	TLJ	DATE:	17-08-94
APPROVALS:		DATE:	
CUSTOMER:	Now HRM3 = HRM1 + HRM2		
CHECKED:	TLJ	Reduced length & width by 1/4"	
REVISION:	D		

DATE	11-07-97	17-08-94
	Now HRM3 = HRM1 + HRM2	Reduced length & width by 1/4"
	TLJ	TLJ
	DESIGNED BY:	DATE:
	DRAWN BY:	DATE:
	APPROVALS:	DATE:
	CUSTOMER:	
	CHECKED:	
	REVISION:	

TITLE:	HRM 3 Commercial Core
SCALE:	1 : 30
PAGE:	1
DRAWING NUMBER:	P-800102
R&D PROJECT #:	n/a
SYSTEMS:	
DEL-AIR:	



1 : 5 Scale



Material
 Core: Coroplast™, corrugated polypropylene
 Frame: 1" X 1" 6063 Aluminum tubing

DESIGNED BY:	TLJ	DATE:	17-08-94	SCALE:	1 : 30	PAGE:	1	OF:	1
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APPROVALS:		DATE:		TITLE: HRM 4 Commercial Core					
CUSTOMER:	TLJ								
REVISION:	Now HRM4 = HRM2 + HRM2	TLJ							
DATE:	17-08-94	Reduced length & width by 1/4"							