Comparison of HRV and Exhaust Ventilation System Flowrates

Sample House:3 bedrooms, 2 1/2 bathrooms, 1500 sfHouse Volume:26300 cf

With Heat-Recovery Ventilation System:

Supply:	25	cfm to main living area
	20	cfm to each bedroom
Exhaust:	25	cfm from kitchen
	20	cfm from each bathroom
Total Flow:	85	cfm, continuous
	122400	cf per day

Average Air-change Rate:	0.19 ACH	(air changes per hour)
Total House Air exchanges in 24 hours:	4.7	

With Exhaust-Only Ventilation System:

Supply:	Via incidental envelope leakage (i.e. through windows, attic, crawl-space) No assurance of distribution to all spaces of the home				
Exhaust:	· · · · · ·		I hour per day		
	80 cfm from each bathroom,		I hour per day		
	200 cfm from clothes dryer,		I hour per day		
Total Flow	: 25800 cf per day				
0	ir-change Rate: use Air exchanges in 24 hours:	0.04 ACH I.0	(air changes per hour)		