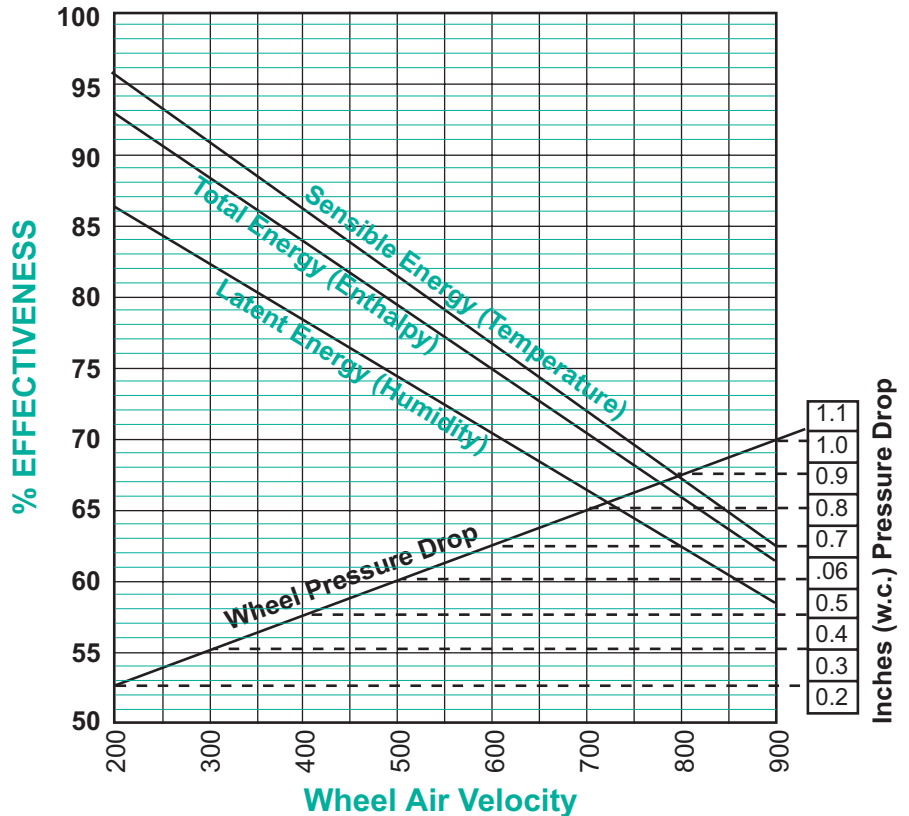


PRODUCT SELECTION

Capacity Tables

CFM	Wheel Air Velocity	Blower RPM	BHP	ESP (" w.c.)	
				Hood Without	Hood With
Model ERSA 3					
2500	707	1565	1.78	1.42	1.24
2000	566	1300	0.97	0.91	0.80
1500	424	970	0.41	0.37	0.32
1000	283	650	0.12	0.04	0.02
850	240	530	0.07	0.06	0.05
Model ERSA 4					
4000	831	1050	2.72	1.30	0.90
3500	727	1040	2.14	1.17	0.86
3000	624	930	1.45	1.03	0.80
2500	520	790	0.87	0.69	0.56
2000	416	610	0.41	0.27	0.19
Model ERSA 5					
6500	817	1065	4.66	1.16	0.54
6000	755	1050	4.09	1.32	0.76
5500	692	1040	3.58	1.40	0.91
5000	629	1030	3.13	1.50	1.08
4500	566	1025	2.75	1.60	1.26
4000	503	940	2.03	1.32	1.06
3500	440	815	1.33	0.91	0.71
All values shown are for standard air conditions.					

Model ERSA Effectiveness Chart



Selection Procedure

- ◆ **% of Effectiveness:** Using the wheel air velocity from the Capacity Table, enter the Effectiveness Chart from the bottom moving up to the Sensible, Latent, or Total effectiveness curve and left to the percentage column.
- ◆ **Supply Air Temperature:** $T_2 = T_1 - [\% \text{ Sensible Effectiveness from the Chart} \times (T_1 - T_3)]$ where T_2 is the supply temperature; T_1 is the outdoor temperature; and T_3 is the return air temperature.
- ◆ **Supply Air Humidity:** $W_2 = W_1 - [\% \text{ Latent Effectiveness from the Chart} \times (W_1 - W_3)]$ where W_2 is the supply humidity (grains of moisture per pound of dry air); W_1 is the outdoor humidity; and W_3 is the return air humidity.
- ◆ **Pressure Drop:** The pressure drop curve shows the pressure drop through the energy recovery wheel. See the Capacity Table on the right to determine the total External Static Pressure available for each Size with and without the optional outside air hood.