

# PRESSURE DROP

## COIL PRESSURE DROP

ROWS VELOCITY	WATER COIL	1	2	4	6	8	1" SD COIL	1	2
		300 FPM	DRY COIL PD	0.034	0.065	0.126		0.251	0.333
	WET COIL PD	0.081	0.155	0.301	0.6	0.796			
350 FPM	DRY COIL PD	0.045	0.085	0.165	0.33	0.438	0.08	0.16	
	WET COIL PD	0.108	0.203	0.394	0.789	1.047			
400 FPM	DRY COIL PD	0.056	0.108	0.21	0.418	0.555	0.09	0.19	
	WET COIL PD	0.134	0.258	0.502	0.999	1.326			
450 FPM	DRY COIL PD	0.07	0.132	0.258	0.515	0.684	0.11	0.23	
	WET COIL PD	0.167	0.315	0.617	1.231	1.635			
500 FPM	DRY COIL PD	0.084	0.16	0.311	0.621	0.824	0.13	0.26	
	WET COIL PD	0.201	0.382	0.743	1.484	1.969			
550 FPM	DRY COIL PD	0.099	0.189	0.369	0.735	0.976	0.15	0.3	
	WET COIL PD	0.237	0.451	0.882	1.757	2.333			

CORRECTION FACTOR:

8 FPI = 0.805

12 FPI = 1.223

14 FPI = 1.481

Pressure drop based on 10 FPI.

## ACCESSORY AIR PRESSURE DROPS

VELOCITY	O/A DAMPER	ECONOMIZER CASING LOSS	SAFETY GRATES	FACE AND BY-PASS	MOISTURE ELIMINATORS	VEL. FPM	EXHAUST DAMPER
300 FPM	0.009	0.029	0.02	0.029	0.037	900	0.031
400 FPM	0.011	0.032	0.04	0.032	0.064	1000	0.039
500 FPM	0.013	0.037	0.06	0.037	0.098	1250	0.059
600 FPM	0.016	0.045	0.09	0.045	0.145	1500	0.085
700 FPM	0.02	0.055	0.12	0.055	0.2	1750	0.12
800 FPM	0.026	0.071	0.16	0.071	0.26	2000	0.15
900 FPM	0.031	0.083	0.2	0.083	0.33	3000	0.34
1000 FPM	0.039	0.103	0.25	0.103		4000	0.58
1250 FPM	0.059	0.15		0.15			
1500 FPM	0.085	0.21		0.21			

Economiser casing pressure drop includes return air damper pressure drop.

## FILTER PRESSURE DROP - DIRTY FILTER

TYPE VELOCITY	2" DEEP			12" CARTRIDGE			22" DEEP BAG			30" DEEP BAG		
	TA	PLEAT	PERM	60/65	80/85	90/95	60/65	80/85	90/95	60/65	80/85	90/95
125 FPM	0.037	0.09	0.02	0.07	0.635	0.83	0.246	0.418	0.683	0.368	0.442	0.53
250 FPM	0.079	0.18	0.04	0.562	0.727	0.94	0.288	0.48	0.8	0.544	0.576	0.61
375 FPM	0.14	0.33	0.1	0.635	0.817	1.05	0.356	0.6	1.01	0.551	0.63	0.72
500 FPM	0.216	0.51	0.18	0.722	0.942	1.23	0.438	0.73	1.217	0.619	0.736	0.875
625 FPM		0.73	0.32	0.956	1.236	1.6	0.623	1.02	1.67	0.792	0.954	1.08

Pressure drop in inches W.G.