Gas flow test (Oct. 26, 2003 / 510-HighBay)

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Part; Aerogel (North-side)
Gas; Nitrogen(N2)

1 psi = 7 % atm = 70m atm
1 SCFH = 30 liter / h = 0.5 liter / min
1 % inchAq = 2.5m atm

	Flow rate (input)	Input line	Output line (outlet)	
Case1	0.8 CFH/10box	Parallel	Chain (bottom)	
Case2	1.6 CFH/10box	Parallel	Chain (bottom)	(CDR value)
Case3	5.0 CFH/10box	Parallel	Chain (bottom)	
Case4	0.5 CFH/single box	Single	Chain (bottom)	
Case5	0.5 CFH/single box	Single	Single	(More tight, empty)

Case1 (Fin; 0.8 CFH/10box)

	Pin/psi	Fin/SCFH	Pout/%inchAq	Fout/SCFH
NW-A	0.5	0.8	3	-
NW-B	0.5	0.8	3	-
NW-C	0.6	0.8	2	-
NW-D	0.6	0.8	2	-
NE-A	0.6	0.8	2	-
NE-B	0.6	0.8	3	-
NE-C	0.6	0.8	4	-
NE-D	0.6	0.8	2	-
	Ave: 40 m atm		Ave: 7 m atm	

Case2 (Fin; 1.6 CFH/10box)

	Pin/psi	Fin/SCFH	Pout/%inchAq	Fout/SCFH
NW-A	0.4	1.6	6	-
NW-B	0.4	1.6	7	-
NW-C	0.4	1.6	8	-
NW-D	0.4	1.6	6	-
NE-A	0.4	1.6	5	-
NE-B	0.5	1.6	9	-
NE-C	0.4	1.6	8	-
NE-D	0.4	1.6	6	-
	Ave: 30 m atm		Ave: 17 m atm	

Case3 (Fin; 5.0 CFH/10box)

	Pin/psi	Fin/SCFH	Pout/%inchAq	Fout/SCFH
NW-A	0.7	5	13	-
NW-B	0.8	5	12	-
NW-C	0.8	5	13	-
NW-D	0.8	5	15	-
NE-A	0.7	5	14	-
NE-B	0.7	5	14	-
NE-C	0.7	5	20	-
NE-D	0.8	5	12	-
	Ave: 50 m atm		Ave: 35 m atm	

Case4(1) (Fin; 0.5 CFH/single box)

BoxNo (NE-C)	Pin/psi	Fin/SCFH	Pout/%inchAq	Fout/SCFH
51	2	0.5	1	-
52	2	0.5	1	-

53	2	0.5	1	-
54	2	0.5	1.5	-
55	2	0.5	1.5	-
56	2	0.5	1.5	-
57	2	0.5	1.5	-
58	2	0.5	2	-
59	2	0.5	2	-
60	2	0.5	3	-
	Ave: 140 m atm		Ave: 4 m atm	

Case4(2) (Fin; 0.5 CFH/single box)

BoxNo (NE-D)	Pin/psi	Fin/SCFH	Pout/%inchAq	Fout/SCFH	
71	2	0.5	1.5	-	
72	2	0.5	1.5	-	
73	2	0.5	1.5	-	
74	2	0.5	1.5	-	
75	2	0.5	2	-	
76	2	0.5	2	-	
77	2	0.5	2	-	
78	2	0.5	2	-	
79	2	0.5	2.5	-	
80	2	0.5	4	-	
	Ave: 140 m atm		Ave: 5 m atm		
71	2	0.5	2.5	-	(Outlet; top)
80	2	0.5	1	-	(Outlet; top)

Case5 (Fin; 0.5 CFH/single box) (More air-tight, empty)

	Pin/psi	Fin/SCFH	Pout/%inchAq	Fout/SCFH
	2	0.5	34	-
	Ave: 140 m atm		Ave: 85 m atm	