

PLAQUE DIFFUSER

Performance Data :

Model : PQD , Face Size (300 X 300) , 4-Way Blow (360° Pattern)

Nominal Neck Size (mm)	Neck Velocity, FPM	400	500	600	700	800	900	1000	1200	1400	1600
	VP (inch w.g)	0.010	0.016	0.023	0.031	0.040	0.051	0.063	0.090	0.122	0.160
100	TP (inch w.g)	0.023	0.036	0.051	0.070	0.091	0.115	0.142	0.205	0.279	0.364
	Airflow, CFM	35	45	50	60	70	80	85	105	120	140
	Throw (Ft)	1-2-3	1-2-4	2-2-5	2-3-6	3-3-6	2-4-7	3-4-7	3-5-7	4-6-7	5-7-8
	NC (dB)	-	-	-	13	17	21	24	30	35	40
150	TP (inch w.g)	0.033	0.052	0.074	0.101	0.131	0.166	0.205	0.295	0.402	0.525
	Airflow, CFM	80	100	120	140	160	180	200	235	275	315
	Throw (Ft)	2-3-5	3-4-6	3-5-7	4-5-8	5-6-9	5-7-10	5-8-10	6-9-11	7-10-12	7-10-13
	NC (dB)	-	-	10	15	19	23	26	32	37	42
200	TP (inch w.g)	0.067	0.105	0.160	0.205	0.268	0.340	0.418	0.600	0.821	1.070
	Airflow, CFM	140	175	210	245	280	315	350	420	490	560
	Throw (Ft)	3-5-7	4-6-9	5-7-10	6-8-11	6-9-12	7-9-13	7-10-14	8-11-15	9-12-16	9-12-17
	NC (dB)	-	-	12	17	21	25	28	34	39	44

Model : PQD , Face Size (600 X 600) , 4-Way Blow (360° Pattern)

Nominal Neck Size (mm)	Neck Velocity, FPM	400	500	600	700	800	900	1000	1200	1400	1600
	VP (inch w.g)	0.010	0.016	0.023	0.031	0.040	0.051	0.063	0.090	0.122	0.160
150	TP (inch w.g)	0.010	0.020	0.030	0.041	0.053	0.068	0.084	0.120	0.164	0.214
	Airflow, CFM	80	100	120	140	160	180	200	235	275	315
	Throw (Ft)	1-2-3	1-3-4	2-4-5	2-4-6	2-5-6	3-4-7	3-5-8	4-6-9	4-6-10	5-6-10
	NC (dB)	-	-	-	-	14	18	22	28	34	39
200	TP (inch w.g)	0.018	0.028	0.037	0.056	0.072	0.092	0.112	0.162	0.220	0.288
	Airflow, CFM	140	175	210	245	280	315	350	420	490	560
	Throw (Ft)	2-2-4	2-3-5	2-3-7	3-4-8	3-5-9	4-6-9	5-7-10	6-8-11	7-9-12	8-10-13
	NC (dB)	-	-	-	13	18	22	26	32	38	43
250	TP (inch w.g)	0.031	0.048	0.069	0.093	0.122	0.155	0.191	0.275	0.375	0.489
	Airflow, CFM	220	270	330	380	435	490	545	655	765	870
	Throw (Ft)	3-4-7	3-5-9	3-5-10	4-6-12	5-7-13	5-8-13	7-9-14	8-11-15	10-12-17	11-13-18
	NC (dB)	-	-	10	16	21	25	29	35	41	46
300	TP (inch w.g)	0.040	0.063	0.090	0.123	0.161	0.203	0.251	0.361	0.492	0.643
	Airflow, CFM	315	390	470	550	630	705	785	940	1100	1255
	Throw (Ft)	4-5-10	4-7-13	5-8-14	7-9-16	8-11-17	8-12-17	10-14-19	11-15-20	14-17-23	16-18-25
	NC (dB)	-	-	13	19	24	28	32	38	44	49

FPM - Feet per minute, Velocity

CFM - Cubic feet per minute

TP - Total pressure, Inches w.g.

VP - Velocity pressure, Inches w.g

T - Throw, Feet

NC - Noise criteria, dB

Performance Note :

Horizontal throws are given at 150, 100, and 50 fpm terminal velocities under isothermal conditions.