



RPN
 This round punkah nozzle features a surface mounting frame.



CRNRR, 5CRNRR
 These concentric ring nozzles feature a stub duct mounting frame for smaller duct work



RPNRD
 This round punkah nozzle features a stub duct mounting frame.



CRNP, 5CRNP
 These products feature a surface mounting frame with two round concentric ring nozzles.



RPNRR
 This round punkah nozzle features a stub duct mounting frame for smaller duct work.



CRNLP, 5CRNLP
 This product features a lay-in T-bar frame with one round concentric ring nozzle



RPN2P
 This product features a surface mounting frame with two round punkah nozzles.



R580, R5880
 These round single and double deflection grilles feature a concealed mounting frame.



RPN4P
 This product features a surface mounting frame with four round punkah nozzles.



R580RD, R5880RD
 These round single and double deflection grilles feature a round duct adapter frame.



RPNLP
 This product features a lay-in T-bar frame with one round punkah nozzle.



R580RR, R5880RR
 These round single and double deflection grilles feature a duct reducing mounting frame for smaller duct work.



K-JET
 This round jet nozzle mounts to a ceiling tile and supplies a non-adjustable jet of air.



REGC5
 These round egg-crate grilles feature a round duct adapter.



K-JET
 This round jet nozzle mounts to a ceiling tile and supplies a non-adjustable jet of air.



REGC5RD
 These round egg-crate grilles feature a duct reducing mounting frame for smaller duct work.



CRN, 5CRN
 These concentric ring nozzles feature a surface mounting frame.



REGC5RR
 These round egg-crate grilles feature a duct reducing mounting frame for smaller duct work.



CRNRD, 5CRNRD
 These concentric ring nozzles feature a stub duct mounting frame.

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K-JET, K-JETA

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CRN, 5CRN Series

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Introduction: RPN

Designed for surface mount applications, this high capacity punkah nozzle diffuser provides an air jet, which can be adjusted up to 70° of global rotation for direction projection.

MODEL

RPN - Round Punkah Nozzle, Surface Mount

FEATURES

- Aluminum construction.
- Aluminum aperture damper with stainless steel hardware (optional).
- Foam gasket and mounting screws included.
- Directional air pattern control (70° global rotation).
- For use in surface mount applications.
- Flex duct mounting ring (optional).

FINISHES

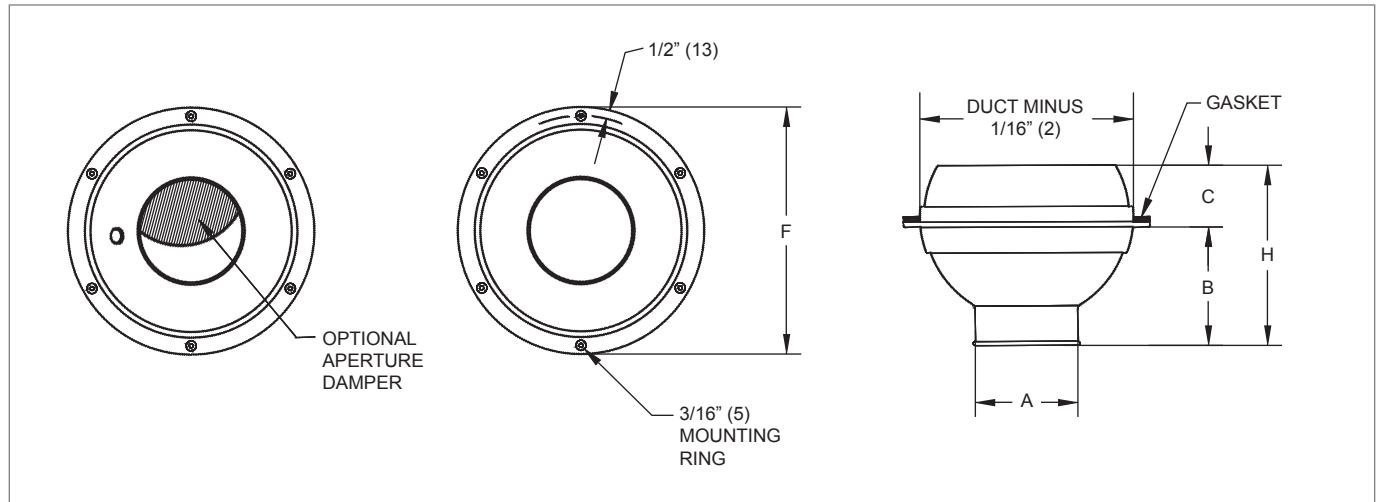
- Standard finish is #44 British White or #81 Clear Anodized.
- Optional finishes available.



RPN (Face & Side View)

RPN Dimensional Information

RPN, FACE AND SIDE VIEWS



RPN, DIMENSIONAL DETAILS

Nominal Size	A	B	C	Duct Size (D)	F	H	Screw Holes
4	2" (51)	2 9/16" (65)	3/4" (19)	4" (102)	6" (152)	3 5/16" (84)	3
6	3" (76)	3 1/16" (78)	1 7/16" (37)	6" (152)	8" (203)	4 1/2" (114)	4
8	4 3/8" (111)	4 1/4" (108)	1 3/4" (44)	8" (203)	10" (254)	6" (152)	4
10	5 3/4" (146)	5 1/2" (140)	2 7/8" (73)	10" (254)	12" (305)	8 3/8" (213)	6
12	7 3/8" (187)	6" (152)	3" (76)	12" (305)	14" (356)	9" (229)	6
14	8 5/8" (219)	7 1/8" (181)	4 1/8" (105)	14" (356)	16" (406)	11 1/4" (286)	6
16	9 3/4" (248)	8 1/4" (210)	4 3/4" (121)	16" (406)	18" (457)	13" (330)	6
18	10 1/2" (267)	9 1/2" (241)	4 1/4" (108)	18" (457)	20" (508)	13 3/4" (349)	8
20	12 3/8" (314)	10 7/8" (276)	4 7/8" (124)	20" (508)	22" (559)	15 3/4" (400)	8

NOTE: Dimensions in parentheses are mm.



RPNRD (Face & Side View)

Introduction: RPNRD

Designed to fit cleanly over the end of spiral or round duct work, this punkah nozzle with an integrated round duct adaptor works great in exposed duct applications.

MODEL

RPNRD - Round Punkah Nozzle, Round Duct Adaptor

FEATURES

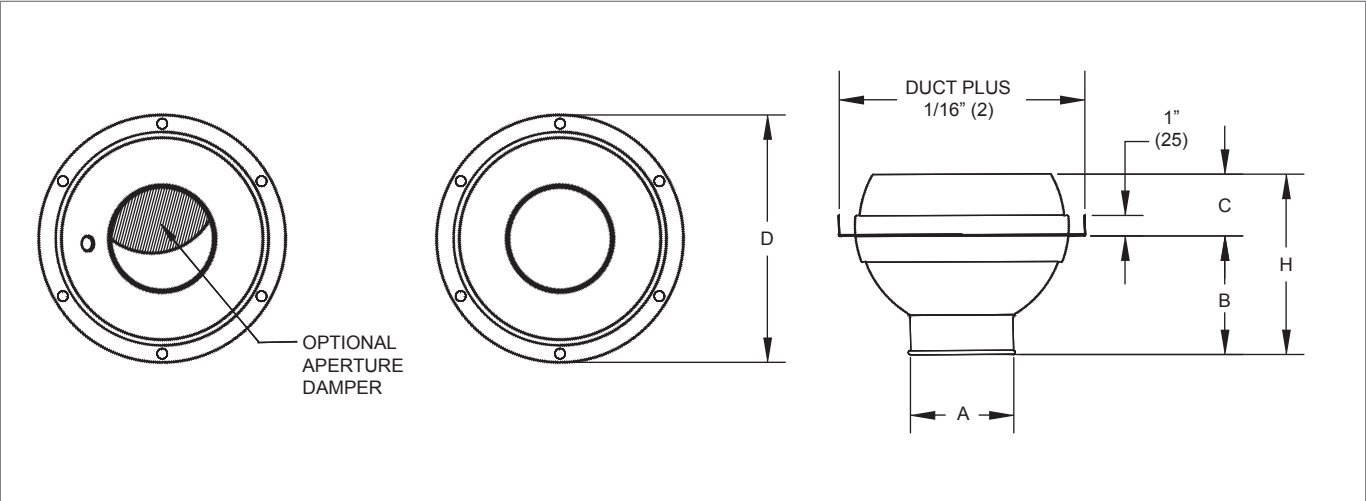
- Aluminum construction.
- Aluminum aperture damper with stainless steel hardware (optional).
- Foam gasket and mounting screws included.
- Directional air pattern control (70° global rotation).
- For use in duct mount applications.

FINISHES

- Standard finish is #44 British White or #81 Clear Anodized.
- Optional finishes available.

RPNRD Dimensional Information

RPNRD, FACE AND SIDE VIEWS



RPNRD, DIMENSIONAL DETAILS

Nominal Size *	A	B	C	Duct Size (D)	H
6	3" (76)	3 1/16" (78)	1 7/16" (37)	8" (203)	4 1/2" (114)
8	4 3/8" (111)	4 1/4" (108)	1 3/4" (44)	10" (254)	6" (152)
10	5 3/4" (146)	5 1/2" (140)	2 7/8" (73)	12" (305)	8 3/8" (213)
12	7 3/8" (187)	6" (152)	3" (76)	14" (356)	9" (229)
14	8 5/8" (219)	7 1/8" (181)	4 1/8" (105)	16" (406)	11 1/4" (286)
16	9 3/4" (248)	8 1/4" (210)	4 3/4" (121)	18" (457)	13" (330)
18	10 1/2" (267)	9 1/2" (241)	4 1/4" (108)	20" (508)	13 3/4" (349)
20	12 3/8" (314)	10 7/8" (276)	4 7/8" (124)	22" (559)	15 3/4" (400)

NOTES: Dimensions in parentheses are mm.

* The nominal size is 2" (51) smaller than the duct size to which it mounts. Example: A size 10 mounts on a 12" (305) duct.

Introduction: RPNRR

This punkah nozzle with an integrated round duct reducer is designed to fit cleanly inside the end of spiral or round duct runs, which makes it a great choice for exposed duct applications.

MODEL

RPNRR - Round Punkah Nozzle

FEATURES

- Aluminum construction.
- Aluminum aperture damper with stainless steel hardware (optional).
- Mounting screws included.
- Directional air pattern control (70° global rotation).
- For use in stub duct applications.

FINISHES

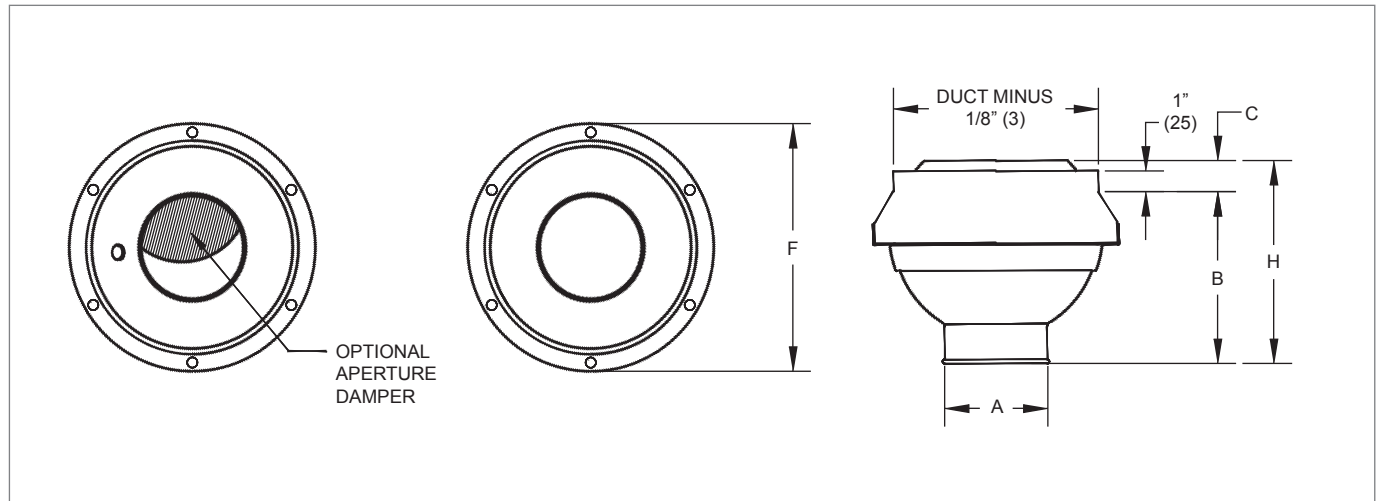
- Standard finish is #44 British White or #81 Clear Anodized.
- Optional finishes available.



RPNRR (Face & Side View)

RPNRR Dimensional Information

RPNRR, FACE AND SIDE VIEWS



RPNRR, DIMENSIONAL DETAILS

Nominal Size	A	B	C	Duct Size (D)	F	H
6	3" (76)	5 9/16" (141)	1" (25)	6" (152)	8" (203)	6 9/16" (167)
8	4 3/8" (111)	6 3/4" (171)	1" (25)	8" (203)	10" (254)	7 3/4" (197)
10	5 3/4" (146)	8" (203)	1" (25)	10" (254)	12" (305)	9" (229)
12	7 3/8" (187)	8 1/2" (216)	1" (25)	12" (305)	14" (356)	9 1/2" (241)
14	8 5/8" (219)	9 5/8" (244)	1 5/8" (41)	14" (356)	16" (406)	11 1/4" (286)
16	9 3/4" (248)	10 3/4" (273)	2 1/4" (57)	16" (406)	18" (457)	13" (330)
18	10 1/2" (267)	12" (305)	1 3/4" (44)	18" (457)	20" (508)	13 3/4" (349)
20	12 3/8" (314)	13 3/8" (340)	2 3/8" (60)	20" (508)	22" (559)	15 3/4" (400)

NOTE: Dimensions in parentheses are mm.

RPN2P



RPN4P



Introduction: RPN2P, RPN4P

These multiple punkah nozzle panels were developed to provide accurate direction control for up to four zones.

MODELS

RPN2P - Two Round Punkah Nozzles in a Panel
 RPN4P - Four Round Punkah Nozzles in a Panel

FEATURES

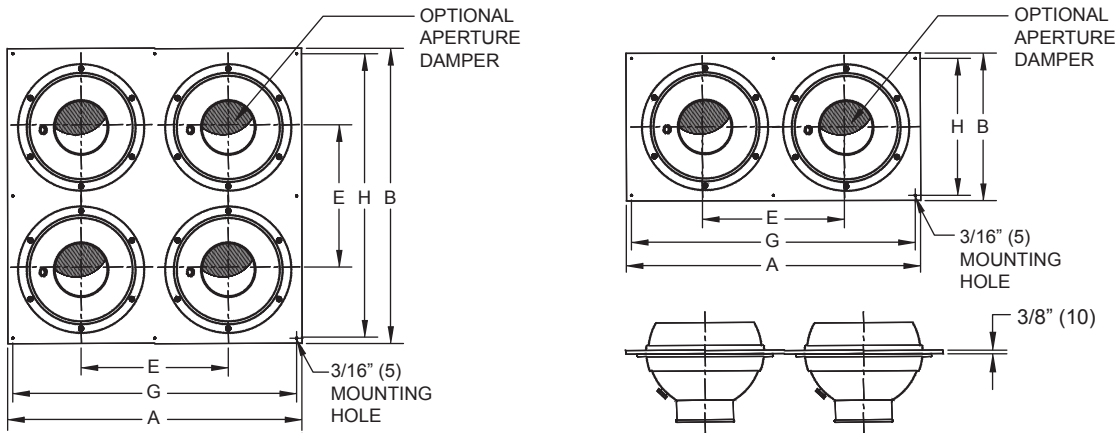
- Aluminum construction.
- Aluminum aperture damper with stainless steel hardware (optional).
- Foam gasket and mounting screws included.
- Directional air pattern control (70° global rotation).
- For use in surface mount applications.

FINISHES

- Standard finish is #44 British White or #81 Clear Anodized.
- Optional finishes available.

RPN2P, RPN4P Dimensional Information

RPN2P, RPN4P, FACE AND SIDE VIEWS



RPN2P, RPN4P, DIMENSIONAL DETAILS

Panel Size AxB	Duct Size	RPN Per Panel	E	G	H
18"x10" (457x254)	16"x8" (406x203)	Qty 2, 6" (152)	9 1/2" (241)	17" (432)	9" (229)
24"x12" (610x305)	22"x10" (559x254)	Qty 2, 8" (203)	11 1/2" (292)	23" (584)	11" (279)
28"x14" (711x 356)	26"x12" (660x305)	Qty 2, 10" (254)	13 1/2" (343)	27" (686)	13" (330)
32"x16" (813x406)	30"x14" (762x356)	Qty 2, 12" (305)	15 1/2" (394)	31" (787)	15" (381)
18"x18" (457x457)	16"x16" (406x406)	Qty 4, 6" (152)	9 1/2" (241)	17" (432)	17" (432)
24"x24" (610x610)	22"x22" (559x559)	Qty 4, 8" (203)	11 1/2" (292)	23" (584)	23" (584)
28"x28" (711x711)	26"x26" (660x660)	Qty 4, 10" (254)	13 1/2" (343)	27" (686)	27" (686)
32"x32" (813x813)	30"x30" (762x762)	Qty 4, 12" (305)	15 1/2" (394)	31" (787)	31" (787)

NOTE: Dimensions in parentheses are mm.

Introduction: RPNLP

This punkah nozzle with panel is designed for lay-in T-bar applications where integration into standard ceiling grid is necessary. The RPNLP comes with an integral flex duct collar for easy duct connection.

MODEL

RPNLP - Round Punkah Nozzle in Panel

FEATURES

- Aluminum construction.
- Aluminum aperture damper with stainless steel hardware (optional).
- Foam gasket and mounting screws included.
- Integral flex duct mounting ring included.
- Directional air pattern control (70° global rotation).

FINISHES

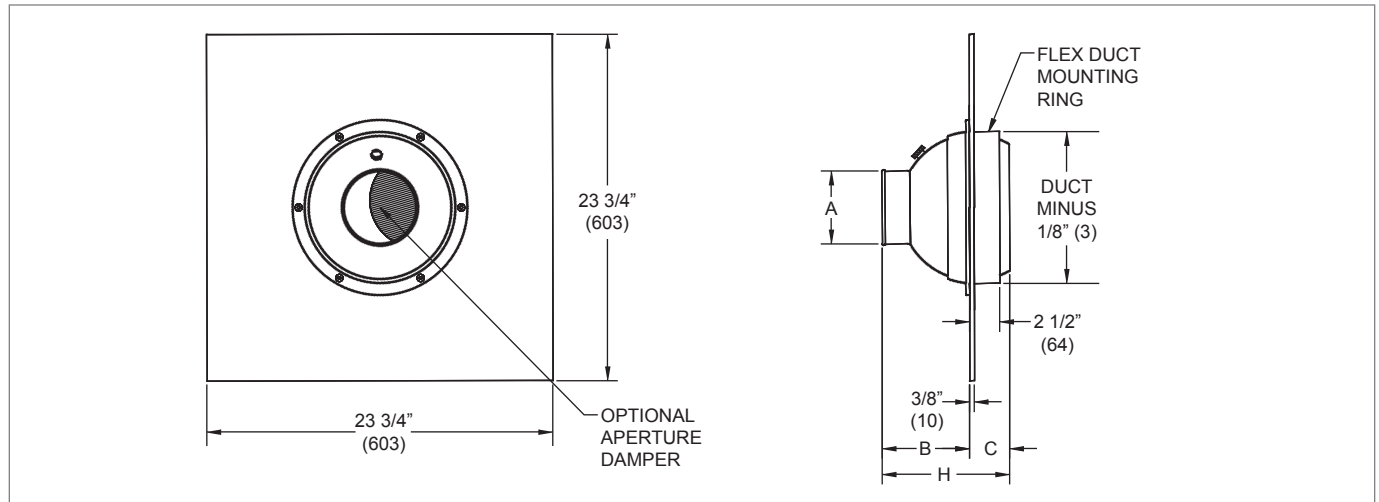
- Standard finish is #44 British White or #81 Clear Anodized.
- Optional finishes available.



RPNLP

RPNLP Dimensional Information

RPNLP, FACE AND SIDE VIEWS



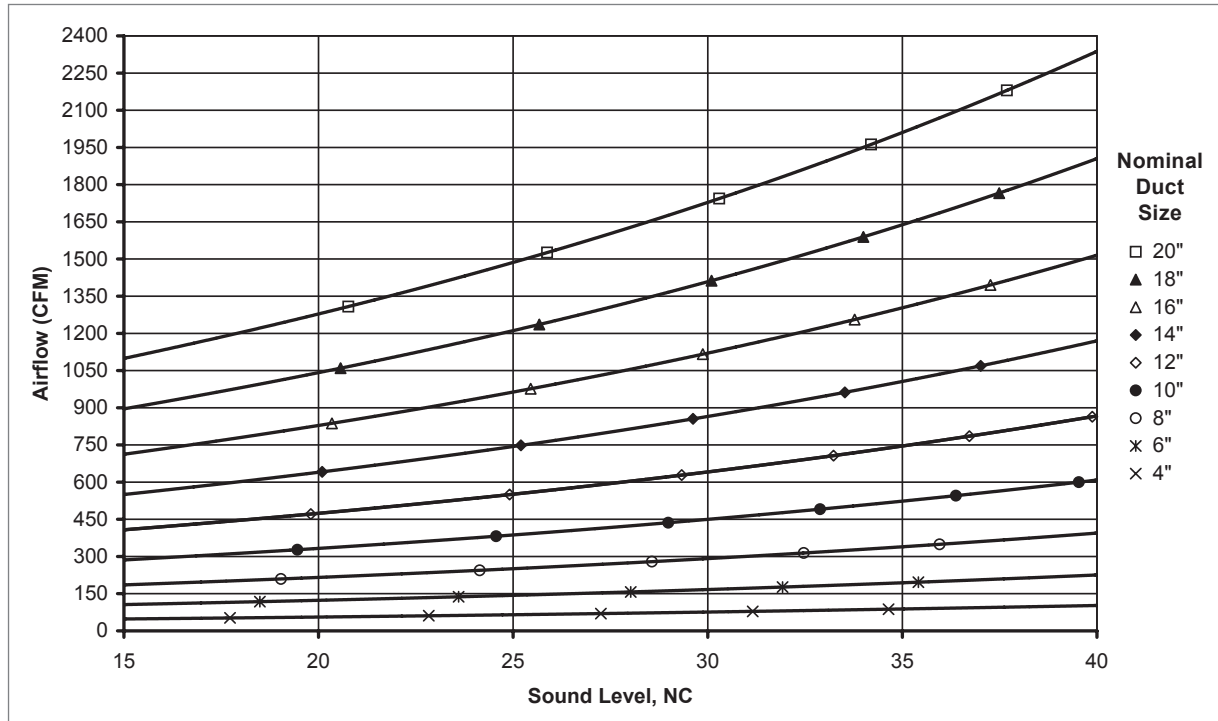
RPNLP, DIMENSIONAL DETAILS

Nominal Size	A	B	C	Duct Size (D)	H
6	3" (76)	3 3/8" (86)	2 1/2" (64)	6" (152)	5 7/8" (149)
8	4 3/8" (111)	4 9/16" (116)	2 1/2" (64)	8" (203)	7 1/16" (179)
10	5 3/4" (146)	5 13/16" (148)	2 9/16" (65)	10" (254)	8 3/8" (213)
12	7 3/8" (187)	6 5/16" (160)	2 11/16" (68)	12" (305)	9" (229)

NOTE: Dimensions in parentheses are mm.

RPN Series Reference Chart

AIRFLOW VS. NC: RPN, RPNRD, RPNRR, RPN2P, RPN4P, RPNLP



RPN Series Performance Data

IP/METRIC DATA: RPN, RPNRD, RPNRR, RPN2P, RPN4P, RPNLP

Nominal Size		Nozzle Size		IP Data					NC	Metric Data					Octave Band, dB						
				Neck Vel*	Air Flow	Ps	Pt	Projection		Neck Vel	Air Flow	Ps	Pt	Projection							
				FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa	m	2	3	4	5	6	7	
4"	2"	300	26	0.06	0.06	5 - 8 - 11	-	1.5	12	14	16	1.6 - 2.3 - 3.3	15	15	13	-	-	-			
		400	35	0.10	0.11	6 - 9 - 12	-	2.0	16	26	28	1.9 - 2.7 - 3.8	22	21	21	13	12	14			
		500	44	0.16	0.18	7 - 10 - 14	12	2.5	21	40	44	2.1 - 3.0 - 4.2	28	26	28	21	18	19			
		600	52	0.23	0.25	8 - 11 - 15	18	3.0	25	58	63	2.3 - 3.3 - 4.6	32	30	33	28	23	23			
		700	61	0.32	0.35	8 - 12 - 16	23	3.6	29	79	86	2.5 - 3.5 - 5.0	36	34	38	33	27	26			
		800	70	0.41	0.45	9 - 12 - 18	27	4.1	33	103	113	2.7 - 3.8 - 5.3	39	37	42	38	30	28			
		900	78	0.52	0.57	9 - 13 - 19	31	4.6	37	130	143	2.8 - 4.0 - 5.7	42	39	45	42	34	31			
		1000	87	0.64	0.71	10 - 14 - 20	35	5.1	41	160	176	3.0 - 4.2 - 6.0	44	42	48	46	36	33			
6"	3"	1200	105	0.93	1.02	11 - 15 - 21	41	6.1	49	231	253	3.3 - 4.6 - 6.5	48	45	54	53	41	37			
		300	59	0.06	0.06	7 - 11 - 16	-	1.5	28	14	16	2.0 - 3.5 - 4.9	20	19	14	-	-	-			
		400	79	0.10	0.11	9 - 13 - 19	-	2.0	37	25	28	2.7 - 4.0 - 5.6	27	26	22	13	13	14			
		500	98	0.16	0.17	10 - 15 - 21	12	2.5	46	39	43	3.2 - 4.5 - 6.3	32	31	29	21	19	19			
		600	118	0.23	0.25	11 - 16 - 23	18	3.0	56	57	62	3.5 - 4.9 - 6.9	37	35	34	28	24	23			
		700	137	0.31	0.34	12 - 17 - 25	24	3.6	65	77	85	3.7 - 5.3 - 7.5	40	38	39	33	28	26			
		800	157	0.41	0.44	13 - 19 - 26	28	4.1	74	101	111	4.0 - 5.6 - 8.0	44	41	43	38	32	28			
		900	177	0.51	0.56	14 - 20 - 28	32	4.6	83	128	140	4.2 - 6.0 - 8.5	46	43	46	42	35	31			
8"	4 3/8"	1000	196	0.63	0.70	15 - 21 - 29	35	5.1	93	158	173	4.5 - 6.3 - 8.9	49	46	49	46	38	33			
		1200	236	0.91	1.00	16 - 23 - 32	41	6.1	111	227	249	4.9 - 6.9 - 9.8	53	50	55	53	42	37			
		300	105	0.06	0.06	8 - 15 - 21	-	1.5	49	14	15	2.5 - 4.6 - 6.5	24	22	15	-	-	-			
		400	140	0.10	0.11	11 - 18 - 25	-	2.0	66	25	27	3.4 - 5.3 - 7.5	31	29	23	13	14	14			
		500	175	0.15	0.17	14 - 20 - 28	13	2.5	82	38	42	4.2 - 6.0 - 8.4	36	34	30	21	20	19			
		600	209	0.22	0.24	15 - 21 - 30	19	3.0	99	55	61	4.6 - 6.5 - 9.2	40	38	35	27	25	23			
		700	244	0.30	0.33	16 - 23 - 33	24	3.6	115	75	83	5.0 - 7.0 - 10.0	44	41	40	33	29	26			
		800	279	0.39	0.43	18 - 25 - 35	29	4.1	132	98	108	5.3 - 7.5 - 10.7	47	44	44	38	32	29			
RPN	Z	900	314	0.50	0.55	19 - 26 - 37	32	4.6	148	124	137	5.6 - 8.0 - 11.3	50	46	47	42	36	31			
		1000	349	0.62	0.68	20 - 28 - 39	36	5.1	165	154	169	6.0 - 8.4 - 11.9	52	49	50	46	38	33			
		1200	419	0.89	0.98	21 - 30 - 43	42	6.1	198	221	243	6.5 - 9.2 - 13.0	57	53	56	53	43	37			

NOTE: See next page for notes.

RPN Series Performance Data

IP/METRIC DATA: RPN, RPNRD, RPNRR, RPN2P, RPN4P, RPNLP

		IP Data							Metric Data											
Nominal Size	Nozzle Size	Neck Vel*	Air Flow	Ps	Pt	Projection	NC	Neck Vel	Air Flow	Ps	Pt	Projection	Octave Band, dB							
		FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa	m	2	3	4	5	6	7		
10"	5 3/4"	300	164	0.05	0.06	10 - 19 - 27	-	1.5	77	13	15	3.1 - 5.8 - 8.2	26	25	15	-	-	-		
		400	218	0.10	0.11	13 - 22 - 31	-	2.0	103	24	26	4.1 - 6.7 - 9.4	33	31	24	13	14	14		
		500	273	0.15	0.16	17 - 24 - 35	13	2.5	129	37	41	5.1 - 7.4 - 10.5	39	36	30	21	20	19		
		600	327	0.21	0.24	19 - 27 - 38	19	3.0	154	53	59	5.8 - 8.2 - 11.5	43	40	36	27	25	23		
		700	382	0.29	0.32	20 - 29 - 41	25	3.6	180	73	80	6.2 - 8.8 - 12.5	47	43	40	33	29	26		
		800	436	0.38	0.42	22 - 31 - 44	29	4.1	206	95	105	6.7 - 9.4 - 13.3	50	46	44	38	33	29		
		900	491	0.48	0.53	23 - 33 - 46	33	4.6	232	120	133	7.1 - 10.0 - 14.1	52	49	48	42	36	31		
		1000	545	0.60	0.66	24 - 35 - 49	36	5.1	257	148	164	7.4 - 10.5 - 14.9	55	51	51	46	39	33		
		1100	600	0.72	0.80	26 - 36 - 51	40	5.6	283	180	198	7.8 - 11.0 - 15.6	57	53	54	49	42	35		
12"	7 3/8"	300	236	0.05	0.06	12 - 23 - 32	-	1.5	111	13	14	3.6 - 6.9 - 9.8	29	27	16	-	-	-		
		400	314	0.09	0.10	16 - 26 - 37	-	2.0	148	23	25	4.8 - 8.0 - 11.3	35	33	24	13	15	14		
		500	393	0.14	0.16	20 - 29 - 42	14	2.5	185	36	39	6.0 - 8.9 - 12.6	41	38	31	21	21	19		
		600	471	0.21	0.23	23 - 32 - 46	20	3.0	222	51	57	6.9 - 9.8 - 13.8	45	42	36	27	26	23		
		700	550	0.28	0.31	25 - 35 - 49	25	3.6	259	70	77	7.5 - 10.6 - 14.9	49	45	41	33	30	26		
		800	628	0.37	0.41	26 - 37 - 53	29	4.1	297	91	101	8.0 - 11.3 - 16.0	52	48	45	38	34	29		
		900	707	0.46	0.51	28 - 39 - 56	33	4.6	334	115	128	8.5 - 12.0 - 16.9	55	51	48	42	37	31		
		1000	785	0.57	0.63	29 - 42 - 59	37	5.1	371	142	158	8.9 - 12.6 - 17.9	57	53	51	46	40	33		
		1100	864	0.69	0.77	31 - 44 - 62	40	5.6	408	172	191	9.4 - 13.2 - 18.7	59	55	54	49	42	35		
14"	8 5/8"	300	321	0.05	0.05	14 - 27 - 38	-	1.5	151	12	14	4.2 - 8.1 - 11.4	30	28	16	-	-	-		
		400	428	0.09	0.10	18 - 31 - 43	-	2.0	202	22	24	5.6 - 9.3 - 13.2	37	34	25	13	15	14		
		500	535	0.14	0.15	23 - 34 - 48	14	2.5	252	34	38	7.0 - 10.4 - 14.7	43	39	31	21	21	19		
		600	641	0.19	0.22	27 - 38 - 53	20	3.0	303	48	54	8.1 - 11.4 - 16.1	47	43	37	27	26	23		
		700	748	0.27	0.30	29 - 41 - 57	25	3.6	353	66	74	8.7 - 12.3 - 17.4	51	47	41	33	30	26		
		800	855	0.35	0.39	31 - 43 - 61	30	4.1	404	86	96	9.3 - 13.2 - 18.6	54	50	45	38	34	29		
		900	962	0.44	0.49	33 - 46 - 65	34	4.6	454	109	122	9.9 - 14.0 - 19.8	57	52	48	42	37	31		
		1000	1069	0.54	0.60	34 - 48 - 69	37	5.1	505	135	150	10.4 - 14.7 - 20.8	59	54	52	46	40	33		
		1100	1176	0.65	0.73	36 - 51 - 72	40	5.6	555	163	182	10.9 - 15.5 - 21.9	61	57	54	49	43	35		
16"	9 3/4"	300	419	0.05	0.05	16 - 30 - 43	-	1.5	198	11	13	4.8 - 9.2 - 13.0	32	30	16	-	-	-		
		400	558	0.08	0.09	21 - 35 - 50	-	2.0	263	20	23	6.4 - 10.6 - 15.1	39	36	25	13	16	14		
		500	698	0.13	0.14	26 - 39 - 55	14	2.5	329	32	35	7.9 - 11.9 - 16.8	44	41	31	21	22	19		
		600	837	0.18	0.20	30 - 43 - 61	20	3.0	395	45	51	9.2 - 13.0 - 18.4	48	45	37	27	27	23		
		700	977	0.25	0.28	33 - 46 - 66	25	3.6	461	62	69	10.0 - 14.1 - 19.9	52	48	41	33	31	26		
		800	1116	0.32	0.36	35 - 50 - 70	30	4.1	527	81	91	10.6 - 15.1 - 21.3	55	51	45	38	34	29		
		900	1256	0.41	0.46	37 - 53 - 74	34	4.6	593	102	115	11.3 - 16.0 - 22.6	58	54	49	42	38	31		
		1000	1395	0.51	0.57	39 - 55 - 78	37	5.1	658	126	142	11.9 - 16.8 - 23.8	61	56	52	46	40	33		
		1100	1535	0.61	0.69	41 - 58 - 82	40	5.6	724	153	171	12.5 - 17.7 - 25.0	63	58	55	49	43	35		
18"	10 1/2"	300	530	0.04	0.05	18 - 34 - 48	-	1.5	250	10	12	5.3 - 10.4 - 14.7	33	31	17	-	-	-		
		400	706	0.07	0.08	23 - 39 - 56	-	2.0	333	19	21	7.1 - 12.0 - 16.9	40	37	25	13	16	14		
		500	883	0.12	0.13	29 - 44 - 62	15	2.5	417	29	33	8.9 - 13.4 - 18.9	46	42	32	21	22	19		
		600	1059	0.17	0.19	34 - 48 - 68	21	3.0	500	42	47	10.4 - 14.7 - 20.7	50	46	37	27	27	23		
		700	1236	0.23	0.26	37 - 52 - 74	26	3.6	583	57	65	11.2 - 15.8 - 22.4	54	49	42	33	31	26		
		800	1413	0.30	0.34	39 - 56 - 79	30	4.1	667	74	84	12.0 - 16.9 - 24.0	57	52	46	38	35	29		
		900	1589	0.38	0.43	42 - 59 - 84	34	4.6	750	94	107	12.7 - 18.0 - 25.4	60	55	49	42	38	31		
		1000	1766	0.47	0.53	44 - 62 - 88	37	5.1	833	116	132	13.4 - 18.9 - 26.8	62	57	52	46	41	33		
		1100	1942	0.57	0.64	46 - 65 - 92	41	5.6	917	141	159	14.0 - 19.9 - 28.1	64	59	55	49	43	35		
20"	12 3/8"	300	654	0.04	0.04	19 - 38 - 54	-	1.5	309	9	11	5.9 - 11.5 - 16.3	35	32	17	-	-	-		
		400	872	0.07	0.08	26 - 44 - 62	-	2.0	412	17	19	7.9 - 13.3 - 18.8	42	38	25	13	17	14		
		500	1090	0.11	0.12	32 - 49 - 69	15	2.5	514	26	30	9.9 - 14.9 - 21.0	47	43	32	21	23	19		
		600	1308	0.15	0.17	38 - 54 - 76	21	3.0	617	38	44	11.5 - 16.3 - 23.1	51	47	37	27	27	23		
		700	1526	0.21	0.24	41 - 58 - 82	26	3.6	720	52	59	12.4 - 17.6 - 24.9	55	50	42	33	32	26		
		800	1744	0.27	0.31	44 - 62 - 88	30	4.1	823	67	77	13.3 - 18.8 - 26.6	58	53	46	38	35	29		
		900	1962	0.34	0.39	46 - 66 - 93	34	4.6	926	85	98	14.1 - 20.0 - 28.2	61	56	49	42	38	31		
		1000	2180	0.42	0.49	49 - 69 - 98	38	5.1	1029	105	121	14.9 - 21.0 - 29.8	63	58	53	46	41	33		
		1100	2398	0.51	0.59	51 - 73 - 103	41	5.6	1132	128	146	15.6 - 22.1 - 31.2	66	60	55	49	44	35		

NOTES: Throw Projection values are given for terminal velocities of 200, 100, and 50 fpm. (1.0, 0.5 and 0.25 m/s). Projection values are given for isothermal conditions, free jet. Nominal duct size varies for a given aperture, as a function of model type. Data is based on Krueger model RPN. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB. Dash in space denotes an NC value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70. Asterisk (*) indicates neck velocity is based on a supply duct diameter equal to the stated nominal size (in inches).

RPN, RPNRD, RPNRR Suggested Specification & Configuration

RPN

The supply punkah nozzle shall be a Krueger model RPN constructed of heavy gauge aluminum. This nozzle must have directional control no less than 70° of global rotation. The flange of the RPN shall have a minimum of 4 screw holes on the face of the flange for surface mounting. A foam gasket on the reverse side of the flange shall be provided by the manufacturer. A felt gasket shall be located between the nozzle and the frame of the ball and socket joint to provide a tight air seal.

RPNRD

The supply punkah nozzle shall be a Krueger model RPNRD constructed of heavy gauge aluminum. This nozzle must have directional control no less than 70° of global rotation. The flange of the RPNRD shall have a minimum of 4 screw holes on the side of the flange for mounting to the end of a stub duct. A felt gasket shall be located between the nozzle and the frame of the ball and socket joint to provide a tight air seal.

RPNRR

The supply punkah nozzle shall be a Krueger model RPNRR constructed of heavy gauge aluminum. This nozzle must have directional control no less than 70° of global rotation. The flange of the RPNRR shall be designed to reduce the size of duct required to supply air to the nozzle. The RPNRR was designed to fit directly to the end of a stub duct. A felt gasket shall be located between the nozzle and the frame of the ball and socket joint to provide a tight air seal.

OPTION (DAMPER)

An optional aluminum aperture damper with stainless steel hardware shall be operable from the face of the nozzle.

PERFORMANCE

The manufacturer shall provide published performance data for the grille. The grille shall be tested in accordance to the data standards at the time of product introduction or ANSI/ASHRAE Standard 70.

FINISH

The paint finish shall be #44 White and be a P-Series Powder Coating finish, baked at 400°F for 7 minutes. The paint thickness shall be 1.8 – 2.2 mils, pencil hardness per ASTM D3363 of H – 2H, crosshatch adhesion per ASTM D3359 of 4B, impact per ASTM D2794 of direct and reverse impact range of 40 to 160 in/lb depending on formulation, salt spray per ASTM B117 of 1000 hours, humidity per ASTM D2247 of 1000 hours and water soak per ASTM D8702 of 500 hours.

1. SERIES: (XXXXX)

RPN - Round Punkah Nozzle, Surface Mount
 RPNRD - Round Punkah Nozzle, Round Duct Mount *
 RPNRR - Round Punkah Nozzle, Round Duct Mount with Reducer

2. SIZE: (XX)

04 - 4" Nominal Size **
 06 - 6" Nominal Size
 08 - 8" Nominal Size
 10 - 10" Nominal Size
 12 - 12" Nominal Size
 14 - 14" Nominal Size
 16 - 16" Nominal Size
 18 - 18" Nominal Size
 20 - 20" Nominal Size

3. APERTURE DAMPER: (XX) ***

00 - NONE
 01 - Aperture Damper

4. FINISH: (XX)

01 - Mill
 36 - Gloss Black
 44 - British White
 50 - Bright White
 70 - Silver Metallic
 81 - Clear Anodize
 99 - Custom Color

* RPNRD duct connection is 2" larger than ordered size.

** Size 04 not available on RPNRD or RPNRR Series.

*** Aperture damper must be ordered with unit; cannot be field installed.

SAMPLE CONFIGURATIONS: RPN - 08 - 00 - 44 (FOR 8" DUCT) & RPNRD - 10 - 01 - 81 (FOR 12" DUCT)

RPN2P, RPN4P, RPNLP Suggested Specification & Configuration
1. SERIES: (XXXXX)

- RPN2P - Quantity (2) Punkah Nozzles Mounted in Panel; 1-Row; Surface Mount Application
 RPN4P - Quantity (4) Punkah Nozzles Mounted in Panel; 2-Rows; Surface Mount Application
 RPNLP - Quantity (1) Punkah Nozzle Mounted in Panel; Lay-In T-Bar Application

2. SIZE: (XX)x(XX) OR (XX)

- 18x10 - 16"x08" Duct Size (RPN2P Only)
 24x12 - 22"x10" Duct Size (RPN2P Only)
 28x14 - 26"x12" Duct Size (RPN2P Only)
 32x16 - 30"x14" Duct Size (RPN2P Only)
 18x18 - 16"x16" Duct Size (RPN4P Only)
 24x24 - 22"x22" Duct Size (RPN4P Only)
 28x28 - 26"x26" Duct Size (RPN4P Only)
 32x32 - 30"x30" Duct Size (RPN4P Only)
 06 - 6" Nominal Size (RPNLP Only)
 08 - 8" Nominal Size (RPNLP Only)
 10 - 10" Nominal Size (RPNLP Only)
 12 - 12" Nominal Size (RPNLP Only)

3. PANEL CONSTRUCTION: (XX)

- 00 - Aluminum Panel
 01 - Stainless Steel Panel *

4. APERTURE DAMPER: (XX) **

- 00 - NONE
 01 - Aperture Damper

5. FINISH: (XX)

- 01 - Mill
 36 - Gloss Black
 44 - British White
 50 - Bright White
 70 - Silver Metallic
 81 - Clear Anodize
 99 - Custom Color

* Stainless steel panel not available on the RPNLP Series.

** Aperture damper must be ordered with unit; cannot be field installed.

RPN2P

The supply punkah nozzles shall be a Krueger model RPN2P constructed of heavy gauge aluminum. This set of nozzles must have directional control no less than 70° of global rotation. The RPN2P shall consist of two RPN air nozzles mounted in a rectangular panel. The panel shall create a flange with a minimum of 6 screw holes on the face of the flange for surface mounting applications. A felt gasket shall be located between the nozzle and the frame of the ball and socket joint to provide a tight air seal. Optional stainless steel panel/frame is available.

RPN4P

The supply punkah nozzles shall be a Krueger model RPN4P constructed of heavy gauge aluminum. This set of nozzles must have directional control no less than 70° of global rotation. The RPN4P shall consist of four RPN air nozzles mounted in a square panel. The panel shall create a flange with a minimum of 8 screw holes on the face of the flange for surface mounting applications. A felt gasket shall be located between the nozzle and the frame of the ball and socket joint to provide a tight air seal. Optional stainless steel panel/frame is available.

RPNLP

The supply punkah nozzle shall be a Krueger model RPNLP constructed of heavy gauge aluminum. This nozzle must have directional control no less than 70° of global rotation. The RPNLP shall be sized to lay in a standard 15/16" inverted T T-bar grid with a grid size of 24"x24". A felt gasket shall be located between the nozzle and the frame of the ball and socket joint to provide a tight air seal.

OPTION (DAMPER)

An optional aluminum aperture damper with stainless steel hardware shall be operable from the face of the nozzle.

PERFORMANCE

The manufacturer shall provide published performance data for the grille. The grille shall be tested in accordance to the data standards at the time of product introduction or ANSI/ASHRAE Standard 70.

FINISH

The paint finish shall be #44 White and be a P-Series Powder Coating finish, baked at 400°F for 7 minutes. The paint thickness shall be 1.8 – 2.2 mils, pencil hardness per ASTM D3363 of H – 2H, crosshatch adhesion per ASTM D3359 of 4B, impact per ASTM D2794 of direct and reverse impact range of 40 to 160 in/lb depending on formulation, salt spray per ASTM B117 of 1000 hours, humidity per ASTM D2247 of 1000 hours and water soak per ASTM D8702 of 500 hours.

SAMPLE CONFIGURATION: RPN4P - 24x24 - 01 - 00 - 44