MODEL TRM

Model TRM

Transfer Door Grille

Size	Area	Inlet Velocity	200	300	400	500	600	700	800	900	1000
	Ak	PS	.024	.055	.097	.151	.218	.297	.388	.491	.606
6x6	.25	CFM	50	75	100	125	150	175	200	225	250
	.25	NC	<15	19	23	26	29	32	34	37	39
8x6	.33	CFM	67	100	133	167	200	233	267	300	333
	.33	NC	16	20	24	27	30	33	36	38	40
8x8	.44	CFM	89	133	178	222	267	311	356	400	444
	.44	NC	17	22	25	29	32	34	37	39	42
10x6	.42	CFM	83	125	167	208	250	292	333	375	417
	.41	NC	17	21	25	28	31	34	37	39	41
10x8	.56	CFM	111	167	222	278	333	389	444	500	556
	.54	NC	18	23	26	30	32	35	38	40	43
10x10	.69	CFM	139	208	278	347	417	486	556	625	694
	.68	NC	19	24	27	30	33	36	39	41	44
12x10	.83	CFM	1678	250	333	417	500	583	667	750	833
	.82	NC	20	24	28	31	34	37	40	42	44
12x12	1.00	CFM	200	300	400	500	600	700	800	900	1000
	.98	NC	21	25	29	32	35	38	40	43	45
14x12	1.17	CFM	233	350	467	583	700	817	933	1050	1167
	1.14	NC	21	26	29	33	36	38	41	43	46
14x14	1.36	CFM	272	408	544	681	817	953	1089	1225	1361
	1.33	NC	22	26	30	33	36	39	42	44	46
16x12	1.33	CFM	267	400	533	667	800	933	1067	1200	1333
	1.31	NC	22	26	30	33	36	39	42	44	46
16x16	1.78	CFM	356	533	711	889	1067	1244	1422	1600	1778
	1.74	NC	23	28	31	35	38	40	43	45	48
18x12	1.5	CFM	300	450	600	750	900	1050	1200	1350	1500
	1.47	NC	23	27	31	34	37	40	42	45	47
18x18	2.25	CFM	450	675	900	1125	1350	1575	1800	2025	2250
	2.21	NC	24	29	32	36	39	41	44	46	49
20x12	1.67	CFM	333	500	667	833	1000	1167	1333	1500	1667
	1.63	NC	23	27	31	34	37	40	43	45	47
20x20	2.78	CFM	556	833	1111	1389	1667	1944	2222	2500	2778
	2.72	NC	25	30	33	36	39	42	45	47	50
24x12	2.00	CFM	400	600	800	1000	1200	1400	1600	1800	2000
	1.96	NC	24	28	32	35	38	41	43	46	48
24x18	3.00	CFM	600	900	1200	1500	1800	2100	2400	2700	3000
	2.94	NC	26	30	34	37	40	43	45	48	50
24x24	4.00	CFM	800	1200	1600	2000	2400	2800	3200	3600	4000
	3.92	NC	27	31	35	38	41	44	46	49	51
30x12	2.50	CFM	500	750	1000	1250	1500	1750	2000	2250	2500
	2.45	NC	25	29	33	36	39	42	44	47	49
30x20	1.17	CFM	833	1250	1667	2083	2500	2917	3333	3750	4167
	4.08	NC	27	31	35	38	41	44	47	49	51
30x24	5.00	CFM	1000	1500	2000	2500	3000	3500	4000	4500	5000
	4.90	NC	28	32	36	39	42	45	47	50	52
30x30	6.25	CFM	1250	1875	2500	3125	3750	4375	5000	5625	6250
	6.13	NC	29	33	37	40	43	46	48	51	53
		Throw	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes

All Units have been tested in accordance with ANSI / ASHRAE 70-2006. Data in table is derived from such testing
Ps - Static pressure required to obtain listed cfm, units of inches water gauge (in. wg.)
NC- Calculated noise criteria using 10 dB per octave room attenuation (dimensionless).
Throw - Non-isothermal throw, in feet, for a terminal velocity of 50 fpm
Inlet Velocity = fpm (Feet Per Minute)

TRANSFER GRILLES QUICK SELECTION TABLE

Flow (m³/h)	W x H	200 x 100	300 x 150	400 x 200	300 x 300	300 x 300	600 x 200 400 x 300	500 x 300	600 x 300	600 x400
50	Vk (m/s)	1.3	0.6							
	Ps (Pa)	8.0	1.6							
60	Vk (m/s)	1.6	0.6							
	Ps (Pa)	11.6	2.3							
70	Vk (m/s)	1.9	0.8	0.4						
	Ps (Pa)	15.7	3.1	0.8						
80	Vk (m/s)	2.1	0.9	0.5	0.4					
	Ps (Pa)	20.5	4.1	1.1	0.8					
90	Vk (m/s)	2.4	1.1	0.6	0.5					
	Ps (Pa)	26.0	5.1	1.4	1.1					
100	Vk (m/s)		1.2	0.6	0.5	0.4	0.4			
	Ps (Pa)		6.3	1.7	1.3	0.7	0.7			
120	Vk (m/s)		1.4	0.7	0.6	0.5	0.5	0.4		
	Ps (Pa)		9.1	2.5	1.9	1.1	1.1	0.7		
140	Vk (m/s)		1.7	0.9	0.8	0.6	0.6	0.5		
	Ps (Pa)		12.4	3.4	2.6	1.5	1.5	0.9		
160	Vk (m/s)		1.9	1.0	0.9	0.6	0.6	0.5		
	Ps (Pa)		16.2	4.4	3.4	1.9	1.9	1.2		
180	Vk (m/s)		2.1	1.1	1.0	0.7	0.7	0.6	0.5	
	Ps (Pa)		20.5	5.6	4.3	2.4	2.4	1.5	1.1	
200	Vk (m/s)		2.4	1.2	1.1	0.8	0.8	0.6	0.5	
	Ps (Pa)		25.4	6.9	5.3	3.0	3.0	1.9	1.3	
250	Vk (m/s)			1.6	1.4	1.0	1.0	0.8	0.7	0.5
	Ps (Pa)			10.8	8.2	4.6	4.6	3.0	2.1	1.1
300	Vk (m/s)			1.9	1.6	1.2	1.2	1.0	0.8	0.6
	Ps (Pa)			15.6	12.0	6.7	6.7	4.3	3.0	1.5
350	Vk (m/s)			2.2	1.9	1.4	1.4	1.1	0.9	0.7
	Ps (Pa)			21.2	16.2	9.1	9.1	5.8	4.0	2.1
400	Vk (m/s)			2.5	2.2	1.6	1.6	1.3	1.1	0.8
	Ps (Pa)			27.7	21.1	11.9	11.9	7.6	5.3	2.7
500	Vk (m/s)					2.0	2.0	1.6	1.4	1.0
	Ps (Pa)					18.6	18.6	11.9	8.2	4.2
600	Vk (m/s)					2.4	2.4	1.9	1.6	1.2
	Ps (Pa)					26.7	26.7	17.1	12.0	6.1
700	Vk (m/s)							2.3	1.9	1.4
	Ps (Pa)							23.3	16.2	8.3
800	Vk (m/s)							2.6	2.2	1.5
	Ps (Pa)							30.4	21.1	10.8
900	Vk (m/s)								2.4	1.7
	Ps (Pa)								26.7	13.7
1000	Vk (m/s)									1.9
	Ps (Pa)									16.9
1200	Vk (m/s)									2.3
	Ps (Pa)									24.3

Qv (m3/h): Flow Rate , **Ak (m2) :** Effective area , **Vk (m/s)** : Exit Speed , **Pt (Pa) :** Pressure Loss

* All dimensions are in mm.
* WxH : Neck Size
* W: Lenght H: Height

TRANSFER GRILLE SELECTED

TRANSFER GRILLE EFFECTIVE AREA

H (mm)	Ak (m2) W (mm)							
	200	300	400	500	600	800	1000	1200
100	0,01	0,016	0,021	0,027	0,033	0,043	0,056	0,070
150	0,018	0,029	0,039	0,050	0,060	0,080	0,100	0,120
200	0,027	0,043	0,056	0,070	0,090	0,120	0,150	0,190
300		0,070	0,090	0,120	0,150	0,160	0,190	0,260
400			0,120	0,150	0,190	0,260	0,320	0,400
500				0,190	0,260	0,320	0,400	0,520

Table-1

SELECTED DIAGRAMI

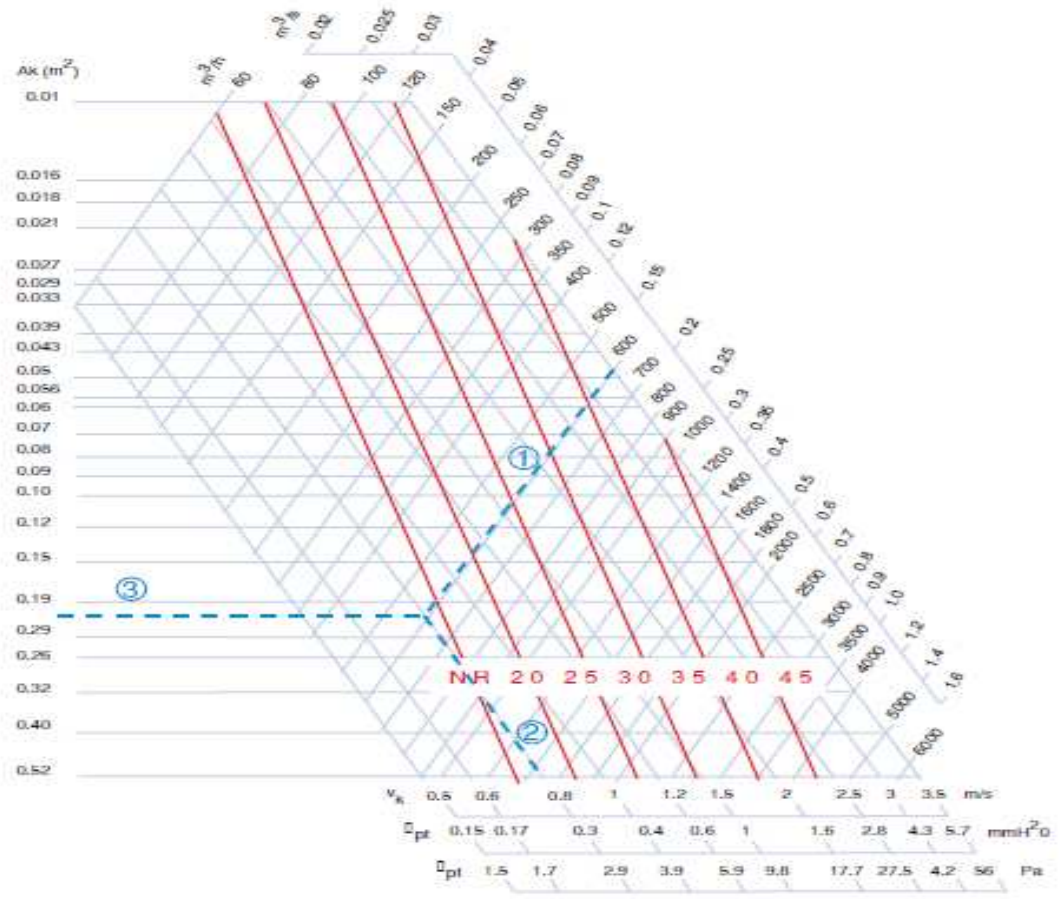

Diagram-1

SAMPLE GRILLE SELECTION

Given

Qv=600 m^3/h ①
Vk=0.8m/sn ②

Selected
Diagram 1
Ak= 0.20m^2 ③
pt=2.9 Pa

Table 1
W XH=1000x300mm
Selected