

THERMA-FUSER™

THERMALLY POWERED VAV DIFFUSER



VARIABLE AIR VOLUME SYSTEMS OPTIMIZED

PERFORMANCE GUIDE

Models: STR-C VAV cooling only.
STR-HC VAV heating and VAV cooling.

Performance Chart - SI (Metric)

Inlet Designation	Nominal Inlet Dia. mm	Inlet Static Pressure Pa	Maximum Flow		Maximum Flow				25% Maximum Flow			
					Throw (m)* @v _t =				Throw (m)* @v _t =			
					L/s	m ³ /h	0.25 m/s	0.50 m/s	0.75 m/s	[†] NC	0.25 m/s	0.50 m/s
6	150	10	42	150	0.9	0.3	0.3	22	0.2	< 0.3	< 0.3	< 15
		20	55	198	1.1	0.5	0.3	23	0.5	< 0.3	< 0.3	17
		• 30	68	245	1.4	0.8	0.3	24	0.7	< 0.3	< 0.3	19
		40	80	290	1.6	1.0	0.4	26	1.0	0.4	< 0.3	21
		50	90	324	1.8	1.1	0.5	28	1.1	0.5	0.3	23
		60	99	358	2.1	1.2	0.6	30	1.2	0.6	0.3	24
8	200	10	70	253	1.1	0.6	0.3	< 15	0.6	0.3	< 0.3	< 15
		20	92	331	1.6	0.7	0.3	19	0.8	0.4	< 0.3	< 15
		• 30	114	410	2.1	0.8	0.3	25	1.0	0.5	< 0.3	< 15
		40	134	483	2.5	0.9	0.4	30	1.3	0.7	0.4	16
		50	150	541	2.6	1.0	0.5	34	1.5	0.8	0.5	19
		60	166	599	2.7	1.2	0.6	38	1.8	0.9	0.6	21
10	250	10	105	377	1.7	1.1	0.6	< 15	0.8	0.2	< 0.3	< 15
		20	140	504	2.1	1.5	0.8	22	1.2	0.6	< 0.3	18
		• 30	175	630	2.5	1.9	1.1	29	1.6	1.0	0.3	20
		40	208	748	2.8	2.2	1.3	34	1.9	1.3	0.4	22
		50	234	844	3.1	2.3	1.4	38	2.0	1.4	0.5	25
		60	261	939	3.3	2.4	1.5	42	2.1	1.5	0.6	28
12	300	10	139	501	2.4	1.2	0.2	< 15	1.5	0.3	< 0.3	< 15
		20	188	676	2.7	1.6	0.7	23	1.7	0.5	0.3	17
		30	229	826	2.9	1.9	1.0	31	2.0	0.6	0.3	19
		• 40	264	951	3.1	2.2	1.3	37	2.2	0.7	0.3	20
		50	298	1074	3.2	2.3	1.6	41	2.3	1.0	0.3	24
		60	332	1197	3.3	2.4	1.8	44	2.4	1.2	0.3	27

NOTES

All SI / Metric ratings are soft conversion from I-P ratings.

• Denotes 750 fpm / 3.81 m/s inlet velocity.

*Throw data is for air 20°F/11°C lower than room temperature. Throws for isothermal air are 40 to 50% greater.

[†]NC based on L_w(10⁻¹² watts reference) -10db

Tested in accordance with ANSI/ASHRAE 70-2006, ANSI S12.31, ARI 890-2001, ISO 5219 and ISO 3741.

Ratings independently verified by Inchcape Testing Services, ETL Testing Laboratories (pending).