ENGINEERING DATA

TENSOR™ Standard Model

UNIT SIZE (in.)	INLET SIZE (in.)	VELOCITY (CFM/ft²)	AIRFLOW (CFM)	Ps (in. wc)	NC	ΔT (°F)	Average velocity at specified distance below ceiling	
							4' (fpm)	6' (fpm)
24x24	8	20	80	0.009	<15	-5	44	44
		30	120	0.021	<15	-5	60	65
		40	160	0.038	<15	-5	69	69
		50	200	0.059	18	-5	85	86
		60	240	0.084	25	-5	94	92
		70	280	0.115	28	-5	105	101
24x24	8	20	80	0.009	<15	-15	51	49
		30	120	0.021	<15	-15	73	82
		40	160	0.038	<15	-15	92	101
		50	200	0.059	18	-15	102	104
		60	240	0.084	25	-15	110	109
		70	280	0.115	28	-15	128	130
36x24*	10	20	120	0.010	<15	-5	39	41
		30	180	0.024	<15	-5	48	48
		40	240	0.042	<15	-5	68	72
		50	300	0.065	17	-5	71	72
		60	360	0.094	22	-5	83	82
		70	420	0.128	26	-5	95	94
36x24*	10	20	120	0.010	<15	-15	59	57
		30	180	0.024	<15	-15	68	78
		40	240	0.042	<15	-15	82	88
		50	300	0.065	17	-15	95	102
		60	360	0.094	22	-15	100	110
		70	420	0.128	26	-15	109	116
48x24	10	20	160	0.017	<15	-5	41	42
		30	240	0.038	<15	-5	51	52
		40	320	0.068	19	-5	62	64
		50	400	0.106	25	-5	73	71
		60	480	0.153	30	-5	81	81
		70	560	0.208	35	-5	92	89
48x24	10	20	160	0.017	<15	-15	58	64
		30	240	0.038	<15	-15	72	83
		40	320	0.068	19	-15	81	90
		50	400	0.106	25	-15	89	96
		60	480	0.153	30	-15	99	105
		70	560	0.208	35	-15	108	112

*Non-standard size will require extended lead time

Notes:

1. Tests conducted in accordance with ASHRAE 70-1991 (pressure loss and sound tests were conducted at isothermal conditions).
2. Tests conducted with straight rigid inlet condition. Other inlet conditions may alter performance.
3. Ps = static pressure, inches of water column (Ps is averaged in dual inlet diffusers).
4. CFM/ft² = airflow rate through diffuser per square foot of overall face area.
5. NC = Noise Criteria (based on a 10dB room attenuation (Re: 10^{-12} watts) evaluated at 125 through 4000Hz octave bands).
6. ΔT = The temperature difference, measured in °F, between the supply air temperature and the average room air temperature.
7. Test room dimensions: 18' x 24' x 9'.

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TENSOR™ Standard Model

UNIT SIZE (in.)	INLET SIZE (in.)	VELOCITY (CFM/ft²)	AIRFLOW (CFM)	Ps (in. wc)	NC	ΔT (°F)	Average velocity at specified distance below ceiling	
							4' (fpm)	6' (fpm)
48x12*	6	20	80	0.016	<15	-5	38	33
		30	120	0.037	<15	-5	64	59
		40	160	0.065	17	-5	64	53
		50	200	0.102	25	-5	70	58
		60	240	0.147	31	-5	79	63
		70	280	0.200	34	-5	82	63
48x12*	6	20	80	0.016	<15	-15	59	52
		30	120	0.037	<15	-15	64	55
		40	160	0.065	17	-15	75	69
		50	200	0.102	25	-15	81	71
		60	240	0.147	31	-15	90	80
		70	280	0.200	34	-15	97	83
60x12*	2-6	20	100	0.036	<15	-5	41	39
		30	150	0.080	<15	-5	44	38
		40	200	0.143	<15	-5	59	49
		50	250	0.224	15	-5	76	63
		60	300	0.322	21	-5	83	67
		70	350	0.438	24	-5	86	69
60x12*	2-6	20	100	0.036	<15	-15	40	38
		30	150	0.080	<15	-15	60	56
		40	200	0.143	<15	-15	65	54
		50	250	0.224	15	-15	77	69
		60	300	0.322	21	-15	105	90
		70	350	0.438	24	-15	127	109
72x12*	2-6	20	120	0.044	<15	-5	40	34
		30	180	0.098	<15	-5	56	46
		40	240	0.175	<15	-5	68	55
		50	300	0.273	20	-5	78	66
		60	360	0.393	25	-5	84	67
		70	420	0.536	30	-5	98	77
72x12*	2-6	20	120	0.044	<15	-15	53	47
		30	180	0.098	<15	-15	68	63
		40	240	0.175	<15	-15	86	76
		50	300	0.273	20	-15	92	77
		60	360	0.393	25	-15	110	93
		70	420	0.536	30	-15	115	97

*Non-standard size will require extended lead time

Notes:

1. Tests conducted in accordance with ASHRAE 70-1991 (pressure loss and sound tests were conducted at isothermal conditions).
2. Tests conducted with straight rigid inlet condition. Other inlet conditions may alter performance.
3. Ps = static pressure, inches of water column (Ps is averaged in dual inlet diffusers).
4. CFM/ft² = airflow rate through diffuser per square foot of overall face area.
5. NC = Noise Criteria (based on a 10dB room attenuation (Re: 10^{-12} watts) evaluated at 125 through 4000Hz octave bands).
6. ΔT = The temperature difference, measured in °F, between the supply air temperature and the average room air temperature.
7. Test room dimensions: 18' x 24' x 9'.

ENGINEERING DATA

TENSOR™ Standard Model

UNIT SIZE (in.)	INLET SIZE (in.)	VELOCITY (CFM/ft²)	AIRFLOW (CFM)	Ps (in. wc)	NC	ΔT (°F)	Average velocity at specified distance below ceiling	
							4' (fpm)	6' (fpm)
60x24*	2-12	20	200	0.019	<15	-5	35	38
		30	300	0.042	<15	-5	51	49
		40	400	0.074	<15	-5	63	63
		50	500	0.116	<15	-5	66	66
		60	600	0.167	<15	-5	84	82
		70	700	0.228	16	-5	88	85
60x24*	2-12	20	200	0.019	<15	-15	47	53
		30	300	0.042	<15	-15	70	81
		40	400	0.074	<15	-15	85	98
		50	500	0.116	<15	-15	92	103
		60	600	0.167	<15	-15	102	110
		70	700	0.228	16	-15	111	120
72x24*	2-12	20	240	0.026	<15	-5	47	52
		30	360	0.058	<15	-5	57	57
		40	480	0.104	<15	-5	58	58
		50	600	0.162	<15	-5	60	55
		60	720	0.234	16	-5	87	86
		70	840	0.318	22	-5	82	80
72x24*	2-12	20	240	0.026	<15	-15	64	72
		30	360	0.058	<15	-15	66	68
		40	480	0.104	<15	-15	80	87
		50	600	0.162	<15	-15	97	103
		60	720	0.234	16	-15	100	103
		70	840	0.318	22	-15	106	104

*Non-standard size will require extended lead time

Notes:

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6. ΔT = The temperature difference, measured in °F, between the supply air temperature and the average room air temperature.
7. Test room dimensions: 18' x 24' x 9'.

ENGINEERING DATA

TENSOR™ Subplenum Model

UNIT SIZE (in.)	INLET SIZE (in.)	VELOCITY (CFM/ft²)	AIRFLOW (CFM)	Ps (in. wc)	NC	ΔT (°F)	Average velocity at specified distance below ceiling	
							4' (fpm)	6' (fpm)
24x24	8	20	80	0.002	<15	-5	45	50
		30	120	0.003	<15	-5	50	48
		40	160	0.006	<15	-5	77	80
		50	200	0.009	<15	-5	83	82
		60	240	0.014	<15	-5	97	86
		70	280	0.018	15	-5	101	100
24x24	8	20	80	0.002	<15	-15	43	41
		30	120	0.003	<15	-15	62	60
		40	160	0.006	<15	-15	83	91
		50	200	0.009	<15	-15	94	98
		60	240	0.014	<15	-15	110	118
		70	280	0.018	15	-15	119	126
36x24*	10	20	120	0.004	<15	-5	48	55
		30	180	0.009	<15	-5	50	57
		40	240	0.015	<15	-5	63	67
		50	300	0.024	<15	-5	75	79
		60	360	0.035	<15	-5	86	86
		70	420	0.047	15	-5	96	95
36x24*	10	20	120	0.004	<15	-15	52	51
		30	180	0.009	<15	-15	66	77
		40	240	0.015	<15	-15	80	91
		50	300	0.024	<15	-15	87	98
		60	360	0.035	<15	-15	96	105
		70	420	0.047	15	-15	110	117
48x24	10	20	160	0.004	<15	-5	42	45
		30	240	0.009	<15	-5	45	52
		40	320	0.016	<15	-5	65	65
		50	400	0.025	<15	-5	75	81
		60	480	0.036	19	-5	87	87
		70	560	0.049	23	-5	103	104
48x24	10	20	160	0.004	<15	-15	55	60
		30	240	0.009	<15	-15	64	73
		40	320	0.016	<15	-15	79	94
		50	400	0.025	<15	-15	89	100
		60	480	0.036	19	-15	104	113
		70	560	0.049	23	-15	114	125

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Notes:

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ENGINEERING DATA

TENSOR™ Subplenum Model

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							4' (fpm)	6' (fpm)
48x12*	6	20	80	0.004	<15	-5	40	35
		30	120	0.009	<15	-5	47	45
		40	160	0.016	<15	-5	49	43
		50	200	0.025	17	-5	62	56
		60	240	0.036	22	-5	67	60
		70	280	0.049	28	-5	77	68
48x12*	6	20	80	0.004	<15	-15	56	46
		30	120	0.009	<15	-15	64	62
		40	160	0.016	<15	-15	76	81
		50	200	0.025	17	-15	72	76
		60	240	0.036	22	-15	95	93
		70	280	0.049	28	-15	99	99
60x12*	2-6	20	100	0.016	<15	-5	25	23
		30	150	0.036	<15	-5	48	46
		40	200	0.063	<15	-5	57	50
		50	250	0.099	15	-5	65	59
		60	300	0.142	20	-5	82	73
		70	350	0.194	26	-5	92	80
60x12*	2-6	20	100	0.016	<15	-15	41	33
		30	150	0.036	<15	-15	54	43
		40	200	0.063	<15	-15	55	40
		50	250	0.099	15	-15	68	51
		60	300	0.142	20	-15	88	78
		70	350	0.194	26	-15	103	86
72x12*	2-6	20	120	0.020	<15	-5	35	31
		30	180	0.045	<15	-5	50	42
		40	240	0.079	<15	-5	63	56
		50	300	0.124	15	-5	77	69
		60	360	0.179	20	-5	94	79
		70	420	0.243	26	-5	105	91
72x12*	2-6	20	120	0.020	<15	-15	19	16
		30	180	0.045	<15	-15	33	24
		40	240	0.079	<15	-15	78	72
		50	300	0.124	15	-15	89	73
		60	360	0.179	20	-15	115	101
		70	420	0.243	26	-15	121	103

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Notes:

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TENSOR™ Subplenum Model

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							4' (fpm)	6' (fpm)
60x24*	2-12	20	200	0.012	<15	-5	31	34
		30	300	0.026	<15	-5	36	39
		40	400	0.046	<15	-5	57	60
		50	500	0.073	<15	-5	66	71
		60	600	0.105	<15	-5	79	82
		70	700	0.142	<15	-5	95	98
60x24*	2-12	20	200	0.012	<15	-15	50	62
		30	300	0.026	<15	-15	55	66
		40	400	0.046	<15	-15	73	84
		50	500	0.073	<15	-15	87	100
		60	600	0.105	<15	-15	96	109
		70	700	0.142	<15	-15	107	120
72x24*	2-12	20	240	0.012	<15	-5	40	41
		30	360	0.027	<15	-5	51	50
		40	480	0.049	<15	-5	64	72
		50	600	0.076	<15	-5	75	82
		60	720	0.109	<15	-5	84	85
		70	840	0.149	16	-5	98	100
72x24*	2-12	20	240	0.012	<15	-15	58	70
		30	360	0.027	<15	-15	62	68
		40	480	0.049	<15	-15	68	81
		50	600	0.076	<15	-15	82	94
		60	720	0.109	<15	-15	92	103
		70	840	0.149	16	-15	107	120

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Notes:

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