

TBF-AA / PANEL-MOUNTED NOZZLES

	Duct Velocity, fpm	200	300	400	500	600	700	800
	Velocity Pressure, IN WG	0.002	0.006	0.010	0.016	0.022	0.031	0.040
Size 6 1 Nozzle	Airflow, cfm	135	203	271	339	406	474	542
	Total Pressure, IN WG	0.076	0.171	0.303	0.474	0.683	0.929	1.214
	NC (Noise Criteria)	-	13	24	32	38	44	50
	Throw, FT	12-15-20	14-17-25	17-20-29	19-23-33	21-25-36	22-27-39	24-29-43
	Airflow, cfm	259	388	518	647	777	906	1036
Size 6 2 Nozzle	Total Pressure, IN WG	0.070	0.158	0.281	0.440	0.633	0.862	1.125
	NC (Noise Criteria)	-	18	29	36	43	49	54
	Throw, FT	17-20-29	20-24-35	23-29-41	26-32-46	29-35-51	31-28-55	34-41-60
	Airflow, cfm	382	573	765	956	1147	1338	1529
Size 6 3 Nozzle	Total Pressure, IN WG	0.070	0.157	0.278	0.435	0.626	0.853	1.114
	NC (Noise Criteria)	-	20	30	39	43	51	56
	Throw, FT	21-25-35	25-30-44	29-35-51	33-40-57	36-44-63	38-47-67	42-51-74
	Airflow, cfm	506	759	1012	1264	1517	1770	2023
Size 6 4 Nozzle	Total Pressure, IN WG	0.070	0.157	0.278	0.435	0.626	0.853	1.114
	NC (Noise Criteria)	-	23	33	41	48	53	58
	Throw, FT	23-29-40	28-34-49	33-40-57	37-45-64	41-49-71	43-54-76	48-57-83
	Airflow, cfm	196	294	392	490	588	685	783
Size 8 1 Nozzle	Total Pressure, IN WG	0.056	0.127	0.226	0.353	0.508	0.691	0.903
	NC (Noise Criteria)	-	15	19	27	34	39	45
	Throw, FT	15-17-25	17-21-30	20-25-34	22-27-40	25-30-43	27-32-47	29-34-51
	Airflow, cfm	377	566	755	943	1132	1320	1509
Size 8 2 Nozzle	Total Pressure, IN WG	0.053	0.118	0.210	0.328	0.473	0.644	0.841
	NC (Noise Criteria)	-	16	25	34	40	46	50
	Throw, FT	21-24-34	24-30-42	28-34-48	31-38-55	34-42-60	37-45-66	40-48-71
	Airflow, cfm	559	838	1117	1397	1676	1955	2235
Size 8 3 Nozzle	Total Pressure, IN WG	0.052	0.116	0.206	0.322	0.464	0.631	0.824
	NC (Noise Criteria)	-	18	29	36	42	49	53
	Throw, FT	26-30-42	30-37-52	35-42-59	38-48-68	42-52-75	46-56-82	50-59-88
	Airflow, cfm	740	1110	1480	1850	2220	2590	2961
Size 8 4 Nozzle	Total Pressure, IN WG	0.052	0.116	0.207	0.323	0.465	0.633	0.827
	NC (Noise Criteria)	-	18	29	37	43	50	54
	Throw, FT	29-34-48	34-42-59	39-48-67	43-54-78	48-59-85	52-64-93	56-67-100
	Airflow, cfm	267	401	535	668	802	936	1070
Size 10 1 Nozzle	Total Pressure, IN WG	0.037	0.084	0.149	0.232	0.334	0.455	0.594
	NC (Noise Criteria)	-	-	20	28	34	41	45
	Throw, FT	16-20-29	20-25-35	24-29-41	26-32-46	29-35-50	31-38-55	33-41-59
	Airflow, cfm	518	777	1036	1295	1554	1813	2072
Size 10 2 Nozzle	Total Pressure, IN WG	0.035	0.079	0.140	0.219	0.315	0.429	0.560
	NC (Noise Criteria)	-	14	25	33	35	45	52
	Throw, FT	23-28-40	28-35-50	33-40-57	37-44-64	40-50-70	43-54-76	47-57-83
	Airflow, cfm	768	1153	1537	1921	2305	2689	3074
Size 10 3 Nozzle	Total Pressure, IN WG	0.032	0.071	0.127	0.198	0.285	0.388	0.506
	NC (Noise Criteria)	-	16	27	34	42	47	53
	Throw, FT	28-34-50	34-43-61	41-50-70	45-55-79	50-61-87	54-66-95	57-70-102
	Airflow, cfm	1019	1528	2038	2547	3057	3566	4076
Size 10 4 Nozzle	Total Pressure, IN WG	0.031	0.071	0.125	0.196	0.282	0.384	0.501
	NC (Noise Criteria)	-	18	29	37	43	48	54
	Throw, FT	32-39-56	39-49-69	46-56-80	51-62-90	56-69-98	61-75-107	65-80-116
	Airflow, cfm	1019	1528	2038	2547	3057	3566	4076

TBF-AA - PANEL-MOUNTED NOZZLES

		Duct Velocity, fpm	200	300	400	500	600	700	800
		Velocity Pressure, IN WG	0.002	0.006	0.010	0.016	0.022	0.031	0.040
Size 12 1 Nozzle	Airflow, cfm	350	525	700	875	1050	1225	1400	
	Total Pressure, IN WG	0.033	0.075	0.132	0.207	0.298	0.406	0.530	
	NC (Noise Criteria)	-	-	18	27	33	39	47	
	Throw, FT	19-23-33	23-28-40	27-33-47	30-36-52	33-40-58	35-43-62	38-47-67	
	Airflow, cfm	681	1021	1362	1702	2042	2383	2723	
Size 12 2 Nozzle	Total Pressure, IN WG	0.031	0.071	0.126	0.197	0.283	0.385	0.503	
	NC (Noise Criteria)	-	16	27	35	42	47	53	
	Throw, FT	26-32-46	32-40-56	37-46-66	42-51-73	46-56-81	50-61-87	53-66-94	
	Airflow, cfm	1011	1517	2023	2529	3034	3540	4046	
Size 12 3 Nozzle	Total Pressure, IN WG	0.031	0.070	0.124	0.193	0.278	0.379	0.495	
	NC (Noise Criteria)	-	16	27	34	41	46	52	
	Throw, FT	32-40-57	40-49-69	46-57-81	52-63-90	57-69-100	61-75-107	66-81-116	
	Airflow, cfm	1324	2013	2684	3356	4027	4698	5369	
Size 12 4 Nozzle	Total Pressure, IN WG	0.031	0.069	0.123	0.192	0.276	0.375	0.490	
	NC (Noise Criteria)	-	16	27	35	43	49	53	
	Throw, FT	36-45-64	45-56-78	52-64-92	59-71-102	64-78-113	69-85-122	75-92-132	
	Airflow, cfm	444	666	888	1109	1331	1553	1775	
Size 14 1 Nozzle	Total Pressure, IN WG	0.024	0.055	0.097	0.125	0.219	0.299	0.390	
	NC (Noise Criteria)	-	-	18	27	33	39	44	
	Throw, FT	21-26-37	26-32-45	29-37-53	34-41-59	37-45-65	40-49-70	43-53-75	
	Airflow, cfm	866	1299	1732	2165	2597	3030	3463	
Size 14 2 Nozzle	Total Pressure, IN WG	0.023	0.052	0.093	0.146	0.210	0.286	0.373	
	NC (Noise Criteria)	-	12	23	30	37	43	47	
	Throw, FT	30-36-51	36-45-64	41-51-74	47-58-83	51-64-91	56-69-98	60-74-106	
	Airflow, cfm	1288	1932	2576	3220	3864	4508	5151	
Size 14 3 Nozzle	Total Pressure, IN WG	0.023	0.052	0.092	0.144	0.207	0.281	0.368	
	NC (Noise Criteria)	-	15	25	34	40	46	52	
	Throw, FT	37-35-63	45-55-79	50-63-91	58-72-102	63-79-113	70-85-122	74-91-131	
	Airflow, cfm	1710	2565	3420	4275	5130	5985	6840	
Size 14 4 Nozzle	Total Pressure, IN WG	0.023	0.051	0.091	0.142	0.205	0.279	0.365	
	NC (Noise Criteria)	-	16	26	36	41	47	53	
	Throw, FT	42-51-72	51-63-89	57-72-103	66-81-116	72-89-128	79-96-138	84-103-148	
	Airflow, cfm	1710	2565	3420	4275	5130	5985	6840	

- All pressures given are in inches of water
- Throw values given are for terminal velocities of 150, 100 and 50 fpm and for isothermal conditions. See the section, Engineering Guidelines for additional throw information.
- The throw values listed are with ceiling effect
- To obtain static pressure, subtract the velocity pressure from the total pressure
- If the diffuser is mounted on an exposed duct, the throw values are 70% of those listed in the table and will project downward
- Each NC value represents the noise criteria curve that will not be exceeded by the sound pressure in any of the octave bands, 2nd through 7th, with a room absorption of 10 dB, re 10⁻¹² watts
- Dash (-) in space denotes an NC value of less than 10
- Data obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006. Actual performance, with flexible duct inlet, may vary in the field. See the section, Engineering Guidelines for additional information.