model VT-L Vortech Diffuser

MODEL	Duct Velocity Velocity Pressure	400 0.010	500 0.016	600 0.022	700 0.031	800 0.040	900 0.051	1000 0.062
VT-L-06	CFM	78	98	118	137	157	176	196
	Static Pressure	0.11	0.17	0.24	0.33	0.43	0.54	0.66
	NC	21	26	30	35	38	41	44
	Throw Distance	1-2-4	2-3-6	2-4-7	3-4-7	3-5-10	4-6-11	4-6-12
VT-L-08	CFM	140	175	209	244	279	314	349
	Static Pressure	0.09	0.14	0.20	0.27	0.35	0.44	0.55
	NC	21	26	30	35	38	41	44
	Throw Distance	2-3-6	3-4-8	3-5-10	4-6-11	4-7-13	5-8-15	6-8-16
VT-L-10	CFM	218	273	327	382	436	491	545
	Static Pressure	0.08	0.11	0.18	0.22	0.32	0.36	0.49
	NC	22	27	32	36	39	42	45
	Throw Distance	3-4-8	3-5-10	4-6-12	5-7-14	6-9-17	6-9-18	7-10-20
VT-L-12	CFM	314	393	471	550	628	707	785
	Static Pressure	0.08	0.11	0.18	0.22	0.32	0.36	0.49
	NC	22	27	32	36	39	42	45
	Throw Distance	3-5-10	4-6-12	5-8-15	6-9-17	7-10-20	7-11-22	8-12-24
VT-L-14	CFM	428	535	641	748	855	962	1069
	Static Pressure	0.08	0.11	0.18	0.22	0.32	0.36	0.49
	NC	22	27	32	36	39	42	45
	Throw Distance	4-6-12	5-7-14	6-9-17	7-10-20	8-12-23	9-13-26	10-14-28
VT-L-16	CFM	558	698	838	977	1117	1256	1396
	Static Pressure	0.08	0.11	0.18	0.22	0.32	0.36	0.49
	NC	23	28	33	37	40	43	46
	Throw Distance	4-7-14	5-8-16	7-10-19	8-12-23	9-14-26	10-16-29	11-18-3

• Neck velocity is fpm, feet per minute.

Test Standard

- ANSI / ASHRAE standard 70
- · Isothermal conditions
- Non-uniform air flow into diffusers increase sound levels, operating pressures, and can distort the air distribution pattern into the space

Sound Levels

NC is noise criteria curve that will not be exceeded at the operating point.
This is determined by assuming a 10dB (ref: 10-12 watts) room attenuation
that is subtracted from the power levels in each of the 2nd thru 7th octave
bands

Throw

- The numbers shown are throw distances, in feet, measured along the jet trajectory axis relating to terminal velocities of 150, 100, & 50 fpm and include a surface effect.
- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream.
- For exposed duct installations, throws are 70% of the table values above.

Pressure

· All pressures are stated and calculated in inches of water.



MODEL	Duct Velocity Velocity Pressure	400 0.01	600 0.022	800 0.04	1000 0.062	1200 0.089	1400 0.122
VT-L1-06	CFM	78	118	157	196	235	274
	Total Presure	0.016	0.037	0.065	0.101	0.146	0.2
	NC	<20	<20	<20	22	27	32
	Throw Distance	1-2-4	2-3-5	3-4-6	3-4-7	4-5-8	5-7-9
VT-L1-08	CFM	140	210	280	350	420	490
	Total Presure	0.024	0.053	0.065	0.101	0.146	0.2
	NC	<20	<20	21	28	33	38
	Throw Distance	2-3-5	3-4-8	4-5-9	5-7-10	5-8-11	6-9-12
VT-L1-10	CFM	218	327	436	545	654	763
	Total Presure	0.029	0.064	0.115	0.192	0.259	0.352
	NC	<20	<20	25	32	37	42
	Throw Distance	2-4-7	3-5-10	4-7-11	6-9-13	7-10-15	8-12-16
VT-L1-12	CFM	314	471	628	785	942	1099
	Total Presure	0.037	0.082	0.15	0.222	0.329	0.442
	NC	<20	21	30	37	42	47
	Throw Distance	3-5-10	4-6-12	5-8-15	7-11-16	8-12-17	10-14-19
VT-L1-14	CFM	428	641	855	1069	1283	1497
	Total Presure	0.059	0.132	0.23	0.352	0.509	0.692
	NC	<20	26	35	42	48	52
	Throw Distance	3-5-10	4-7-14	6-9-16	8-12-18	9-13-19	11-16-21

• Neck velocity is fpm, feet per minute.

Test Standard

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- · Isothermal conditions
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NC is noise criteria curve that will not be exceeded at the operating point.
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that is subtracted from the power levels in each of the 2nd thru 7th octave
bands

Throw

- The numbers shown are throw distances, in feet, measured along the jet trajectory axis relating to terminal velocities of 150, 100, & 50 fpm and include a surface effect.
- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream.
- For exposed duct installations, throws are 70% of the table values above.

Pressure

· All pressures are stated and calculated in inches of water.

VT-S-06 CFM 78 98 118 137 157 176 196 Static Pressure 0.11 0.17 0.24 0.33 0.43 0.54 0.66 NC 21 26 30 35 38 41 44 Throw Distance 1-2-4 2-3-6 2-4-7 3-4-7 3-5-10 4-6-11 4-6-12 VT-S-08 CFM 140 175 209 244 279 314 349 NC 21 26 30 35 38 41 44 NC 21 26 30 35 38 41 44 Throw Distance 2-3-6 3-4-8 3-5-10 4-6-11 4-7-13 5-8-15 6-8-16 VT-S-10 CFM 218 273 327 382 436 491 545 VT-S-10 CFM 218 273 32 36 39 42 45 Throw D	MODEL	Duct Velocity Velocity Pressure	400 0.010	500 0.016	600 0.022	700 0.031	800 0.040	900 0.051	1000 0.062
NC 21 26 30 35 38 41 44 Throw Distance 1-2-4 2-3-6 2-4-7 3-4-7 3-5-10 4-6-11 4-6-12 VT-S-08 CFM 140 175 209 244 279 314 349 Static Pressure 0.09 0.14 0.20 0.27 0.35 0.44 0.55 NC 21 26 30 35 38 41 44 Throw Distance 2-3-6 3-4-8 3-5-10 4-6-11 4-7-13 5-8-15 6-8-16 VT-S-10 CFM 218 273 327 382 436 491 545 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 3-4-8 3-5-10 4-6-12 5-7-14 6-9-17 6-9-18 7-10-20 <td< th=""><td>VT-S-06</td><td>CFM</td><td>78</td><td>98</td><td>118</td><td>137</td><td>157</td><td>176</td><td>196</td></td<>	VT-S-06	CFM	78	98	118	137	157	176	196
Throw Distance 1-2-4 2-3-6 2-4-7 3-4-7 3-5-10 4-6-11 4-6-12 VT-S-08 CFM 140 175 209 244 279 314 349 Static Pressure 0.09 0.14 0.20 0.27 0.35 0.44 0.55 NC 21 26 30 35 38 41 44 Throw Distance 2-3-6 3-4-8 3-5-10 4-6-11 4-7-13 5-8-15 6-8-16 VT-S-10 CFM 218 273 327 382 436 491 545 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 3-4-8 3-5-10 4-6-12 5-7-14 6-9-17 6-9-18 7-10-20 VT-S-12 CFM 314 393 471 550 628 707 785 <td></td> <td>Static Pressure</td> <td>0.11</td> <td>0.17</td> <td>0.24</td> <td>0.33</td> <td>0.43</td> <td>0.54</td> <td>0.66</td>		Static Pressure	0.11	0.17	0.24	0.33	0.43	0.54	0.66
VT-S-08 CFM 140 175 209 244 279 314 349 Static Pressure 0.09 0.14 0.20 0.27 0.35 0.44 0.55 NC 21 26 30 35 38 41 44 Throw Distance 2-3-6 3-4-8 3-5-10 4-6-11 4-7-13 5-8-15 6-8-16 VT-S-10 CFM 218 273 327 382 436 491 545 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 3-4-8 3-5-10 4-6-12 5-7-14 6-9-17 6-9-18 7-10-20 VT-S-12 CFM 314 393 471 550 628 707 785 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 </th <td></td> <td>NC</td> <td>21</td> <td>26</td> <td>30</td> <td>35</td> <td>38</td> <td>41</td> <td>44</td>		NC	21	26	30	35	38	41	44
Static Pressure 0.09 0.14 0.20 0.27 0.35 0.44 0.55 NC 21 26 30 35 38 41 44 Throw Distance 2-3-6 3-4-8 3-5-10 4-6-11 4-7-13 5-8-15 6-8-16 VT-S-10 CFM 218 273 327 382 436 491 545 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 3-4-8 3-5-10 4-6-12 5-7-14 6-9-17 6-9-18 7-10-20 VT-S-12 CFM 314 393 471 550 628 707 785 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Di		Throw Distance	1-2-4	2-3-6	2-4-7	3-4-7	3-5-10	4-6-11	4-6-12
NC 21 26 30 35 38 41 44 Throw Distance 2-3-6 3-4-8 3-5-10 4-6-11 4-7-13 5-8-15 6-8-16 VT-S-10 CFM 218 273 327 382 436 491 545 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 3-4-8 3-5-10 4-6-12 5-7-14 6-9-17 6-9-18 7-10-20 VT-S-12 CFM 314 393 471 550 628 707 785 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 3-5-10 4-6-12 5-8-15 6-9-17 7-10-20 7-11-22 8-12-24	VT-S-08	CFM	140	175	209	244	279	314	349
Throw Distance 2-3-6 3-4-8 3-5-10 4-6-11 4-7-13 5-8-15 6-8-16 VT-S-10 CFM 218 273 327 382 436 491 545 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 3-4-8 3-5-10 4-6-12 5-7-14 6-9-17 6-9-18 7-10-20 VT-S-12 CFM 314 393 471 550 628 707 785 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 3-5-10 4-6-12 5-8-15 6-9-17 7-10-20 7-11-22 8-12-24 VT-S-14 CFM 428 535 641 748 855 962 <th< th=""><td></td><td>Static Pressure</td><td>0.09</td><td>0.14</td><td>0.20</td><td>0.27</td><td>0.35</td><td>0.44</td><td>0.55</td></th<>		Static Pressure	0.09	0.14	0.20	0.27	0.35	0.44	0.55
VT-S-10 CFM 218 273 327 382 436 491 545 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 3-4-8 3-5-10 4-6-12 5-7-14 6-9-17 6-9-18 7-10-20 VT-S-12 CFM 314 393 471 550 628 707 785 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 3-5-10 4-6-12 5-8-15 6-9-17 7-10-20 7-11-22 8-12-24 VT-S-14 CFM 428 535 641 748 855 962 1069 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49		NC	21	26	30	35	38	41	44
Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 3-4-8 3-5-10 4-6-12 5-7-14 6-9-17 6-9-18 7-10-20 VT-S-12 CFM 314 393 471 550 628 707 785 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 3-5-10 4-6-12 5-8-15 6-9-17 7-10-20 7-11-22 8-12-24 VT-S-14 CFM 428 535 641 748 855 962 1069 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Th		Throw Distance	2-3-6	3-4-8	3-5-10	4-6-11	4-7-13	5-8-15	6-8-16
NC 22 27 32 36 39 42 45 Throw Distance 3-4-8 3-5-10 4-6-12 5-7-14 6-9-17 6-9-18 7-10-20 VT-S-12 CFM 314 393 471 550 628 707 785 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 3-5-10 4-6-12 5-8-15 6-9-17 7-10-20 7-11-22 8-12-24 VT-S-14 CFM 428 535 641 748 855 962 1069 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 4-6-12 5-7-14 6-9-17 7-10-20 8-12-23 9-13-26 10-14-28 <	VT-S-10	CFM	218	273	327	382	436	491	545
VT-S-12 CFM 3-4-8 3-5-10 4-6-12 5-7-14 6-9-17 6-9-18 7-10-20 VT-S-12 CFM 314 393 471 550 628 707 785 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 3-5-10 4-6-12 5-8-15 6-9-17 7-10-20 7-11-22 8-12-24 VT-S-14 CFM 428 535 641 748 855 962 1069 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 4-6-12 5-7-14 6-9-17 7-10-20 8-12-23 9-13-26 10-14-28 VT-S-16 CFM 558 698 838 977 1117 <		Static Pressure	0.08	0.11	0.18	0.22	0.32	0.36	0.49
VT-S-12 CFM 314 393 471 550 628 707 785 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 3-5-10 4-6-12 5-8-15 6-9-17 7-10-20 7-11-22 8-12-24 VT-S-14 CFM 428 535 641 748 855 962 1069 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 4-6-12 5-7-14 6-9-17 7-10-20 8-12-23 9-13-26 10-14-28 VT-S-16 CFM 558 698 838 977 1117 1256 1396 VT-S-16 CFM 558 698 33 37 40 43 <td< th=""><td></td><td>NC</td><td>22</td><td>27</td><td>32</td><td>36</td><td>39</td><td>42</td><td>45</td></td<>		NC	22	27	32	36	39	42	45
Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 3-5-10 4-6-12 5-8-15 6-9-17 7-10-20 7-11-22 8-12-24 VT-S-14 CFM 428 535 641 748 855 962 1069 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 4-6-12 5-7-14 6-9-17 7-10-20 8-12-23 9-13-26 10-14-28 VT-S-16 CFM 558 698 838 977 1117 1256 1396 VT-S-16 CFM 558 698 838 977 1117 1256 1396 NC 23 28 33 37 40 43 46 <t< th=""><td></td><td>Throw Distance</td><td>3-4-8</td><td>3-5-10</td><td>4-6-12</td><td>5-7-14</td><td>6-9-17</td><td>6-9-18</td><td>7-10-20</td></t<>		Throw Distance	3-4-8	3-5-10	4-6-12	5-7-14	6-9-17	6-9-18	7-10-20
NC 22 27 32 36 39 42 45 Throw Distance 3-5-10 4-6-12 5-8-15 6-9-17 7-10-20 7-11-22 8-12-24 VT-S-14 CFM 428 535 641 748 855 962 1069 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 4-6-12 5-7-14 6-9-17 7-10-20 8-12-23 9-13-26 10-14-28 VT-S-16 CFM 558 698 838 977 1117 1256 1396 VT-S-16 CFM 558 698 838 977 1117 1256 1396 NC 23 28 33 37 40 43 46 Throw Distance 4-7-14 5-8-16 7-10-19 8-12-23 9-14-26 10-16-29 11-18-32 </th <td>VT-S-12</td> <td>CFM</td> <td>314</td> <td>393</td> <td>471</td> <td>550</td> <td>628</td> <td>707</td> <td>785</td>	VT-S-12	CFM	314	393	471	550	628	707	785
VT-S-14 CFM 428 535 641 748 855 962 1069 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 4-6-12 5-7-14 6-9-17 7-10-20 8-12-23 9-13-26 10-14-28 VT-S-16 CFM 558 698 838 977 1117 1256 1396 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 23 28 33 37 40 43 46 Throw Distance 4-7-14 5-8-16 7-10-19 8-12-23 9-14-26 10-16-29 11-18-32 VT-S-20 CFM 872 1090 1309 1527 1745 1963 2181 NC 24 30 34 38 42 44 47		Static Pressure	0.08	0.11	0.18	0.22	0.32	0.36	0.49
VT-S-14 CFM 428 535 641 748 855 962 1069 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 4-6-12 5-7-14 6-9-17 7-10-20 8-12-23 9-13-26 10-14-28 VT-S-16 CFM 558 698 838 977 1117 1256 1396 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 23 28 33 37 40 43 46 Throw Distance 4-7-14 5-8-16 7-10-19 8-12-23 9-14-26 10-16-29 11-18-32 VT-S-20 CFM 872 1090 1309 1527 1745 1963 2181 Static Pressure 0.07 0.11 0.15 0.21 0.27 0.35		NC	22	27	32	36	39	42	45
Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 22 27 32 36 39 42 45 Throw Distance 4-6-12 5-7-14 6-9-17 7-10-20 8-12-23 9-13-26 10-14-28 VT-S-16 CFM 558 698 838 977 1117 1256 1396 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 23 28 33 37 40 43 46 Throw Distance 4-7-14 5-8-16 7-10-19 8-12-23 9-14-26 10-16-29 11-18-32 VT-S-20 CFM 872 1090 1309 1527 1745 1963 2181 Static Pressure 0.07 0.11 0.15 0.21 0.27 0.35 0.41 NC 24 30 34 38 42 44 47 <td>Throw Distance</td> <td>3-5-10</td> <td>4-6-12</td> <td>5-8-15</td> <td>6-9-17</td> <td>7-10-20</td> <td>7-11-22</td> <td>8-12-24</td>		Throw Distance	3-5-10	4-6-12	5-8-15	6-9-17	7-10-20	7-11-22	8-12-24
NC 22 27 32 36 39 42 45 Throw Distance 4-6-12 5-7-14 6-9-17 7-10-20 8-12-23 9-13-26 10-14-28 VT-S-16 CFM 558 698 838 977 1117 1256 1396 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 23 28 33 37 40 43 46 Throw Distance 4-7-14 5-8-16 7-10-19 8-12-23 9-14-26 10-16-29 11-18-32 VT-S-20 CFM 872 1090 1309 1527 1745 1963 2181 Static Pressure 0.07 0.11 0.15 0.21 0.27 0.35 0.41 NC 24 30 34 38 42 44 47	VT-S-14	CFM	428	535	641	748	855	962	1069
VT-S-16 CFM 558 698 838 977 1117 1256 1396 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 23 28 33 37 40 43 46 Throw Distance 4-7-14 5-8-16 7-10-19 8-12-23 9-14-26 10-16-29 11-18-32 VT-S-20 CFM 872 1090 1309 1527 1745 1963 2181 Static Pressure 0.07 0.11 0.15 0.21 0.27 0.35 0.41 NC 24 30 34 38 42 44 47		Static Pressure	0.08	0.11	0.18	0.22	0.32	0.36	0.49
VT-S-16 CFM 558 698 838 977 1117 1256 1396 Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 23 28 33 37 40 43 46 Throw Distance 4-7-14 5-8-16 7-10-19 8-12-23 9-14-26 10-16-29 11-18-32 VT-S-20 CFM 872 1090 1309 1527 1745 1963 2181 Static Pressure 0.07 0.11 0.15 0.21 0.27 0.35 0.41 NC 24 30 34 38 42 44 47		NC	22	27	32	36	39	42	45
Static Pressure 0.08 0.11 0.18 0.22 0.32 0.36 0.49 NC 23 28 33 37 40 43 46 Throw Distance 4-7-14 5-8-16 7-10-19 8-12-23 9-14-26 10-16-29 11-18-32 VT-S-20 CFM 872 1090 1309 1527 1745 1963 2181 Static Pressure 0.07 0.11 0.15 0.21 0.27 0.35 0.41 NC 24 30 34 38 42 44 47		Throw Distance	4-6-12	5-7-14	6-9-17	7-10-20	8-12-23	9-13-26	10-14-28
NC 23 28 33 37 40 43 46 Throw Distance 4-7-14 5-8-16 7-10-19 8-12-23 9-14-26 10-16-29 11-18-32 VT-S-20 CFM 872 1090 1309 1527 1745 1963 2181 Static Pressure 0.07 0.11 0.15 0.21 0.27 0.35 0.41 NC 24 30 34 38 42 44 47	VT-S-16	CFM	558	698	838	977	1117	1256	1396
VT-S-20 CFM 872 1090 1309 1527 1745 1963 2181 Static Pressure 0.07 0.11 0.15 0.21 0.27 0.35 0.41 NC 24 30 34 38 42 44 47		Static Pressure	0.08	0.11	0.18	0.22	0.32	0.36	0.49
VT-S-20 CFM 872 1090 1309 1527 1745 1963 2181 Static Pressure 0.07 0.11 0.15 0.21 0.27 0.35 0.41 NC 24 30 34 38 42 44 47		NC	23	28	33	37	40	43	46
Static Pressure 0.07 0.11 0.15 0.21 0.27 0.35 0.41 NC 24 30 34 38 42 44 47		Throw Distance	4-7-14	5-8-16	7-10-19	8-12-23	9-14-26	10-16-29	11-18-32
NC 24 30 34 38 42 44 47	VT-S-20	CFM	872	1090	1309	1527	1745	1963	2181
		Static Pressure	0.07	0.11	0.15	0.21	0.27	0.35	0.41
		NC	24	30	34	38	42	44	47
Throw Distance 5-9-18 6-10-20 8-12-24 10-15-28 11-17-31 12-19-35 13-21-37		Throw Distance	5-9-18	6-10-20	8-12-24	10-15-28	11-17-31	12-19-35	13-21-37
VT-S-24 CFM 1256 1570 1885 2199 2513 2827 3141	VT-S-24	CFM	1256	1570	1885	2199	2513	2827	3141
Static Pressure 0.05 0.08 0.12 0.16 0.20 0.25 0.31		Static Pressure	0.05	0.08	0.12	0.16	0.20	0.25	0.31
NC 26 32 37 41 44 47 49		NC	26	32	37	41	44	47	49
Throw Distance 6-11-22 7-12-24 9-14-28 11-17-32 13-20-36 14-22-40 15-24-42		Throw Distance	6-11-22	7-12-24	9-14-28	11-17-32	13-20-36	14-22-40	15-24-42

• Neck velocity is fpm, feet per minute.

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 This is determined by assuming a 10dB (ref: 10-12 watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands

Throw

- The numbers shown are throw distances, in feet, measured along the jet trajectory axis relating to terminal velocities of 150, 100, & 50 fpm and include a surface effect.
- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream.
- For exposed duct installations, throws are 70% of the table values above.

Pressure

• All pressures are stated and calculated in inches of water.



MODEL	Duct Velocity Velocity Pressure	400 0.01	600 0.022	800 0.04	1000 0.062	1200 0.089	1400 0.122
VT-S1-06	CFM	78	118	157	196	235	274
	Total Presure	0.016	0.037	0.065	0.101	0.146	0.2
	NC	<20	<20	<20	22	27	32
	Throw Distance	1-2-4	2-3-5	3-4-6	3-4-7	4-5-8	5-7-9
VT-S1-08	CFM	140	210	280	350	420	490
	Total Presure	0.024	0.053	0.065	0.101	0.146	0.2
	NC	<20	<20	21	28	33	38
	Throw Distance	2-3-5	3-4-8	4-5-9	5-7-10	5-8-11	6-9-12
VT-S1-10	CFM	218	327	436	545	654	763
	Total Presure	0.029	0.064	0.115	0.192	0.259	0.352
	NC	<20	<20	25	32	37	42
	Throw Distance	2-4-7	3-5-10	4-7-11	6-9-13	7-10-15	8-12-16
VT-S1-12	CFM	314	471	628	785	942	1099
	Total Presure	0.037	0.082	0.15	0.222	0.329	0.442
	NC	<20	21	30	37	42	47
	Throw Distance	3-5-10	4-6-12	5-8-15	7-11-16	8-12-17	10-14-19
VT-S1-14	CFM	428	641	855	1069	1283	1497
	Total Presure	0.059	0.132	0.23	0.352	0.509	0.692
	NC	<20	26	35	42	48	52
	Throw Distance	3-5-10	4-7-14	6-9-16	8-12-18	9-13-19	11-16-21

• Neck velocity is fpm, feet per minute.

Test Standard

- ANSI / ASHRAE standard 70
- · Isothermal conditions
- Non-uniform air flow into diffusers increase sound levels, operating pressures, and can distort the air distribution pattern into the space

Sound Levels

NC is noise criteria curve that will not be exceeded at the operating point.
This is determined by assuming a 10dB (ref: 10-12 watts) room attenuation
that is subtracted from the power levels in each of the 2nd thru 7th octave
bands

Throw

- The numbers shown are throw distances, in feet, measured along the jet trajectory axis relating to terminal velocities of 150, 100, & 50 fpm and include a surface effect.
- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream.
- For exposed duct installations, throws are 70% of the table values above.

Pressure

All pressures are stated and calculated in inches of water.