

Performance Data



HVD-FR Series

Collar Size		Velocity	400	500	600	700	800	900	1000	1200	1400	1600
Eff. Area (ft ²)		Duct Pt.	0.02	0.035	0.044	0.061	0.078	0.095	0.119	0.175	0.201	0.256
6"	0.195	CFM	78	98	117	137	156	176	195	234	273	312
		NC	<20	<20	<20	<20	20	20-25	25	30-35	35	40
		Throw (ft.)	1 2 4	1 2.5 4.5	2 3 5	2 4 6	3 5 7	3 5 9	4 6 10	5 7 11	6 8 12	7 8 14
7"	0.265	CFM	106	133	159	186	212	239	265	319	372	425
		NC	<20	<20	<20	<20	20	20-25	25	30-35	35-40	40-45
		Throw (ft.)	1 3 5	1 3.5 6	2 4 7	2 5 8	3 6.5 9.5	4 7 11	5 8 12	6 8.5 13	7 9 14	8 11 16
8"	0.347	CFM	139	173	208	243	277	312	347	416	485	555
		NC	<20	<20	<20	20	20	25	30-35	35-40	40	45
		Throw (ft.)	2 4 6	2 5 7	3 5 9	3 6 10	4 7 12	5 8 13	6 9 14	7 10 15	9 11 16	10 13 18
9"	0.439	CFM	176	219	263	307	351	395	439	527	614	702
		NC	<20	<20	20	25	30	30-35	35	40	40	45
		Throw (ft.)	2 4.5 7	3 5 8	3 6 10	3 6.5 11.5	5 7.5 13	6 9 14	7 9.5 15	8 11 17	9 12 18	10 14 20
10"	0.542	CFM	217	271	325	379	433	488	542	650	758	867
		NC	<20	<20	20	25	30	30-35	35	40	40-45	45-50
		Throw (ft.)	2 4 8	4 5 10	4 6 12	4 7 13	6 8 14	7 9 15	8 10 16	9 12 18	10 13 19	11 15 22
12"	0.780	CFM	312	390	468	546	624	702	780	936	1092	1248
		NC	<20	<20	20-25	25-30	30-35	35	35-40	40-45	45	45
		Throw (ft.)	3 5 11	5 7 14	5 8 15	5 9 16	7 11 18	8 12 18	10 14 20	11 15 21	12 16 23	13 18 25
14"	1.062	CFM	425	531	637	743	849	956	1062	1274	1486	1699
		NC	<20	25	30	30-35	35-40	40	40-45	45-50	45	50
		Throw (ft.)	4 7 13	6 8 16	6 10 17	7 12 20	8 14 21	10 16 22	12 17 23	13 18 25	14 19 27	16 21 29
16"	1.387	CFM	555	693	832	971	1109	1248	1387	1664	1941	2219
		NC	<20	25	30-35	35	35-40	40-45	40-45	45	45	50
		Throw (ft.)	8 12 16	9 13 17	11 15 18	13 17 21	15 19 23	18 21 24	19 22 25	21 24 28	21 26 31	23 28 33

Performance Notes:

- For square neck multiply CFM x 1.21
- Throw values are measured in feet for terminal velocities of 150/100/50 FPM
- Throw data is based on supply air and room air both at isothermal conditions
- Effective core areas listed in chart are defined as the measurement of space between the blades actually being utilized by the air
- Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006