

# Performance Data



## HVL-FR Series

Collar Size		Velocity	400	500	600	700	800	900	1000	1200	1400	1600
Eff. Area (ft <sup>2</sup> )		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   12	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   7.0   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:

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