

Performance Data



HL-FR Series

Collar Size	Eff. Area (ft ²)	Velocity	400	500	600	700	800	900	1000	1200	1400	1600
		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	1 3 5	2 4 6	2 4 7	3 4 8	3 5 9	4 5 11	4 6 12	7 7 13
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	1 4 7	2 4 8	3 5 9	4 5 10	4 6 11	5 7 12	5 8 14	8 10 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 3 6	2 4.0 7	3 4 9	3 5 10	4 6 10	5 6 12	5 7 13	6 9 14	7 10 16	10 12 19
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 6.5	2 5 8	3 5 10	4 6 11	4 7.0 12	5 8 13	6 9 14	7 10 16	8 12 18	11 13 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.)	3 4 8	3 5 10	4 6 12	5 7 13	5 8 14	6 9 15	7 10 16	8 12 18	10 13 19	12 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	45-50	>50
		Throw (ft.)	4 5 11	5 7 14	6 8 15	7 9 16	8 11 17	9 12 18	10 14 19	11 15 21	13 16 24	13 18 26
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	>50
		Throw (ft.)	5 7 13	6 8 16	8 10 17	9 12 19	10 13 20	11 15 21	12 16 23	13 17 25	15 19 27	16 22 30
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	45-50	45-50	>50
		Throw (ft.)	9 12 15	10 14 18	12 15 18	14 17 21	15 19 22	17 20 23	18 21 25	19 23 27	21 25 29	25 29 34

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