

MODEL HS

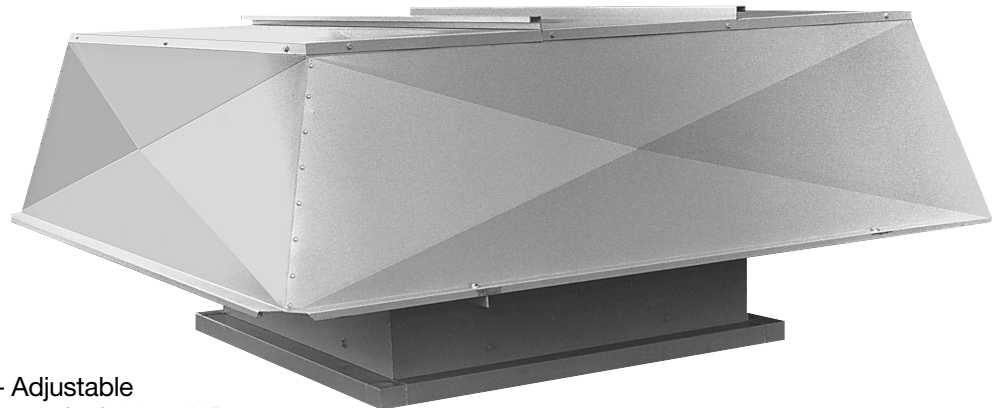
(Steel Propeller)

Romlair Model HS Hooded Propeller Roof Fans are intended for the general ventilation of factories and warehouses. These fans can also be placed to provide spot ventilation in specific problem area.

Hooded Belt Driven Exhaust And Supply Fans

CONSTRUCTION FEATURES

- **Six Bladed Steel Propeller** – For high performance at lower sound levels.
- **Heavy Duty, Long-Life Construction** – Built to industrial standards. The heavy gauge galvanized hood utilizes an interlocking rib at the seams that provides superior strength. All welded fan base.
- **Variable Pitch Drives To 7-1/2 HP** – Adjustable for final system RPM. Belts sized for 165% of driven HP.
- **Heavy Duty Ball Bearing Motor** – Provides years of trouble free operation.
- **Self-Aligning Pillow Block Bearings** – Selected for a minimum (L50) life in excess of 200,000 hours at maximum cataloged operating speeds.
- **Hinged Hood** – Provides easy access to fan components such as motors, belts, pulleys, and propellers.
- **Angle Drive Frame** – Bolted base assembly provides firm base and accurately aligns power assembly.
- **Deep Spun Venturi** – For high efficiency.
- **Birdscreen** – 1/2" mesh galvanized steel.
- **Low Maintenance** – Hinged hood for easy access to motor and drive.

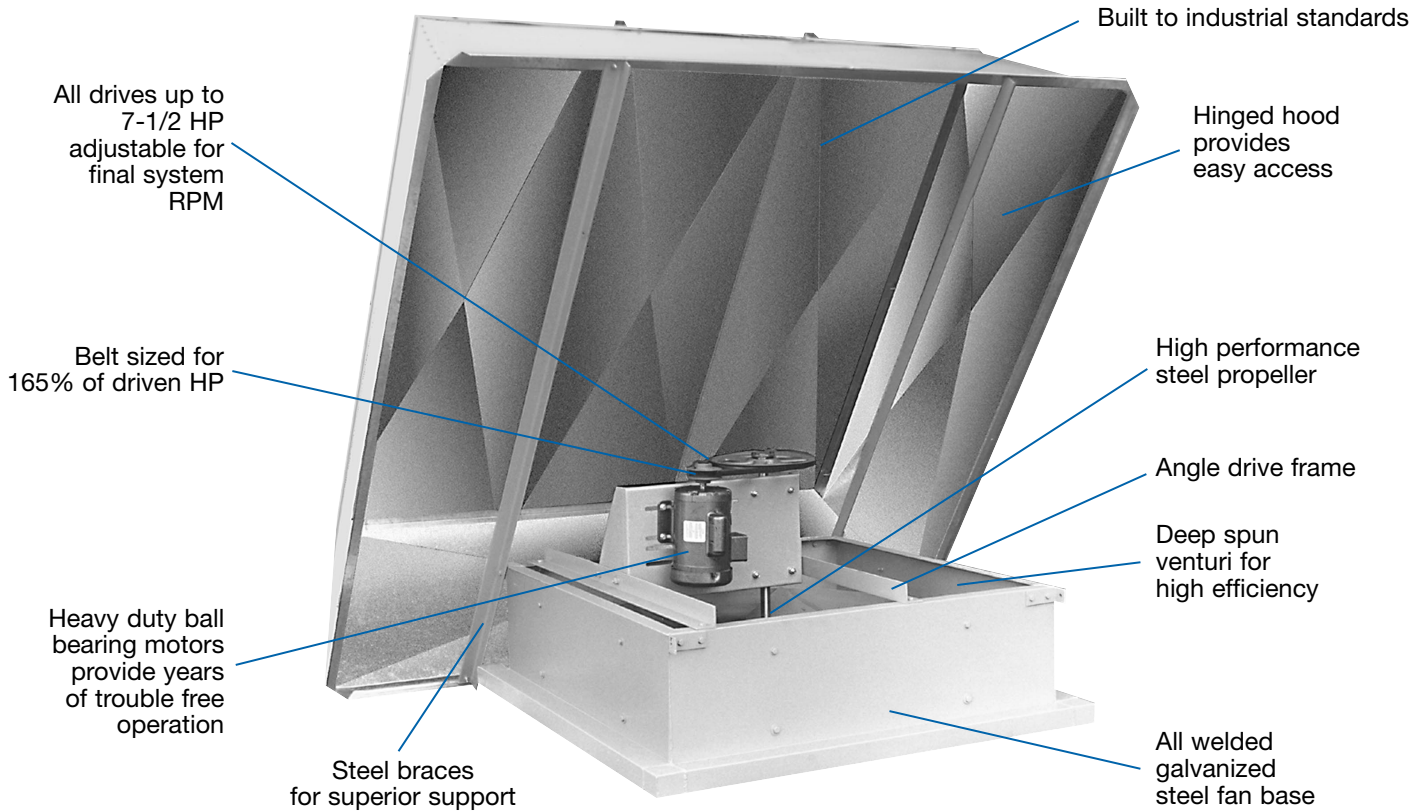


SUPPLY FANS – Application for introducing large volumes of air into schools, commercial buildings, warehouses, power plants, industrial plants, equipment rooms, shipping centers, supermarkets.

EXHAUST FANS – Application for removing heat, moisture, contaminants, fumes, smoke and grease from similar buildings as supply fans. Many codes require specific removal requirements.

Romla also offers the same version with a cast aluminum propeller, a direct driven version, a filtered intake belt driven version, and a reversible flow version.

MODEL HS TYPICAL CONSTRUCTION



MODEL HS EXHAUST APPLICATION PERFORMANCE DATA

MODEL	HP	RPM	TIP SPEED	MAX BHP	*SONES	STATIC PRESSURE (ins. w.g.) / CAPACITY (cfm)							
						0	.10	.125	.15	.20	.25	.375	.5
HS-242E	1/3	751	4719	.36	14.8	4910	4426	4299	4161	2867	3452		
HS-243E	1/2	862	5416	.55	18.4	5636	5221	5110	4999	4764	4518	3524	
HS-244E	3/4	994	6246	.83	22.2	6499	6143	6051	5955	5763	5561	4964	4051
HS-245E	1	1090	6849	1.10	24.2	7127	6803	6721	6637	6461	6286	5809	5163
HS-302E	1/3	525	4123	.37	12.4	68.61	5876	5591	5191	4133	3173		
HS-303E	1/2	611	4799	.57	17.0	7985	7166	6941	6696	6091	5253	3278	
HS-304E	3/4	698	5482	.86	19.7	9122	8421	8229	8036	7613	7111	5097	3659
HS-305E	1	758	5953	1.10	23.0	9906	9273	9095	8917	8551	8156	6684	4798
HS-306E	1-1/2	867	6809	1.65	26.9	11330	10782	10642	10487	10176	9861	8952	7505
HS-363E	1/2	470	4430	.57	13.8	10401	9111	8698	8261	7086	5868		
HS-364E	3/4	532	5014	.83	16.5	11773	10643	10350	10002	9230	8157	5220	
HS-365E	1	585	5514	1.11	19.2	12946	11927	11660	11393	10737	10009	7543	4672
HS-366E	1-1/2	670	6315	1.66	22.8	14827	13947	13717	13484	13018	12448	10646	8501
HS-367E	2	735	6927	2.20	26.1	16266	15463	15262	15052	14627	14202	12827	10908
HS-368E	3	841	7926	3.30	32.4	18611	17910	17734	17559	17196	16824	15810	14589
HS-425E	1	424	4662	1.1	17.0	15987	14410	13930	13359	12128	10720		
HS-426E	1-1/2	482	5300	1.65	19.4	18174	16854	16449	16044	15063	13992	10767	
HS-427E	2	533	5861	2.21	21.1	20097	18964	18598	18231	17467	16558	13953	10882
HS-428E	3	615	6762	3.34	25.5	23189	22220	21978	21667	21032	20398	18441	16086
HS-486E	1-1/2	400	5027	1.65	13.8	21514	19397	12793	18113	16740	15368		
HS-487E	2	442	5554	2.21	17.7	23773	21917	21370	20824	19596	18354	14779	
HS-488E	3	505	6346	3.30	25.7	27161	25621	25147	24668	23711	22630	19912	16591
HS-547E	2	363	5132	2.20	21.2	27763	24732	23926	23062	21288	19369		
HS-548E	3	415	5867	3.31	25.2	31740	29126	28433	27740	26246	25706	20241	15611
HS-549E	5	495	6998	5.53	32.8	37859	35705	35142	34561	33399	32182	28946	25251
HS-5410E	1-1/2	569	8044	8.26	36.5	43518	41643	41174	40703	39691	38680	36007	33167
HS-608E	3	346	5435	3.30	20.2	36832	33193	32172	31125	28975	26962		
HS-609E	5	410	6440	5.52	21.5	43645	40726	39864	39002	37368	35454	31144	25871
HS-6010E	1-1/2	471	7398	8.26	35.4	50139	47611	46979	46245	44744	43243	39304	35629
HS-6011E	10	518	8137	11.03	37.1	55142	52844	52269	51695	50352	48988	45484	41968

MODEL HS SUPPLY APPLICATION

PERFORMANCE DATA

MODEL	HP	RPM	TIP SPEED	MAX BHP	*SONES	STATIC PRESSURE (ins. w.g.) / CAPACITY (cfm)							
						0	.10	.125	.15	.20	.25	.375	.5
HS-242S	1/3	751	4719	.36	17.5	5456	4967	4814	4661	4124	3525		
HS-243S	1/2	862	5416	.54	22.1	6262	5863	5737	5604	5337	4875	3577	
HS-244S	3/4	994	6246	.84	27.1	7221	6875	6788	6691	6459	6228	5235	4113
HS-245S	1	1090	6849	1.10	29.3	7919	7603	7524	7445	7254	7043	6369	5334
HS-302S	1/3	525	4123	.36	16.5	7318	6500	6011	5491	4220	2855		
HS-303S	1/2	611	4799	.57	17.9	8590	7876	7656	7341	6447	5418	2957	
HS-304S	3/4	698	5482	.86	21.6	9813	9232	9040	8840	8320	7537	5154	3285
HS-305S	1	758	5953	1.09	23.8	10656	10138	9975	9798	9444	8831	6904	4467
HS-306S	1-1/2	867	6809	1.64	28.7	12189	11736	11623	11494	11184	10875	9497	7746
HS-363S	1/2	470	4430	.57	17.2	10930	9472	8935	8276	6997	5586		
HS-364S	3/4	532	5014	.83	20.3	12372	11196	10774	10350	9186	8057	4831	
HS-365S	1	585	5514	1.11	23.0	13605	12632	12249	11865	10986	9928	7241	
HS-366S	1-1/2	670	6315	1.67	27.3	15581	14785	14550	14216	13546	12811	10522	8127
HS-367S	2	735	6927	2.19	31.2	17093	16367	16185	15967	15357	14747	12804	10770
HS-368S	3	841	7926	3.28	38.9	19558	18923	18765	18606	18231	17698	16359	14518
HS-425S	1	424	4662	1.11	19.3	16960	15450	15003	14438	13125	11128		
HS-426S	1-1/2	482	5300	1.65	21.7	19280	18024	17630	17237	16270	15116	11329	
HS-427S	2	533	5861	2.21	24.4	21320	20224	19892	19536	18824	17878	14578	11574
HS-428S	3	615	6762	3.34	30.7	24600	23650	23413	23155	22538	21921	19866	16799
HS-486S	1-1/2	400	5027	1.65	23.8	22737	20642	19775	18908	17136	15316		
HS-487S	2	442	5554	2.21	26.8	25124	23388	22718	21934	20365	18744	14533	9619
HS-488S	3	505	6346	3.30	32.6	28705	27185	26805	26318	24945	23572	20014	16285
HS-547S	2	363	5132	2.18	25.3	29098	26087	25180	24020	21481	18649		
HS-548S	3	415	5867	3.25	28.0	33267	30799	30005	29212	27286	25074	19282	
HS-549S	5	495	6998	5.53	37.9	39679	37704	37196	36531	35200	33827	29164	24052
HS-5410S	1-1/2	569	8044	8.26	48.3	45611	43892	43463	43033	41950	40792	37443	33361
HS-608S	3	346	5435	3.30	25.1	38837	35213	34092	32970	29928	26993	20503	
HS-609S	5	410	6440	5.52	35.9	46181	43181	42310	41364	39471	37082	30914	25438
HS-6010S	1-1/2	471	7398	8.26	43.3	52867	50395	49778	49098	47451	45803	40539	35315
HS-6011S	10	518	8137	11.05	53.0	58143	55895	55333	54772	53441	51943	47849	42656

NOTE: The following pertains to both the exhaust and the supply application of the Model HS.

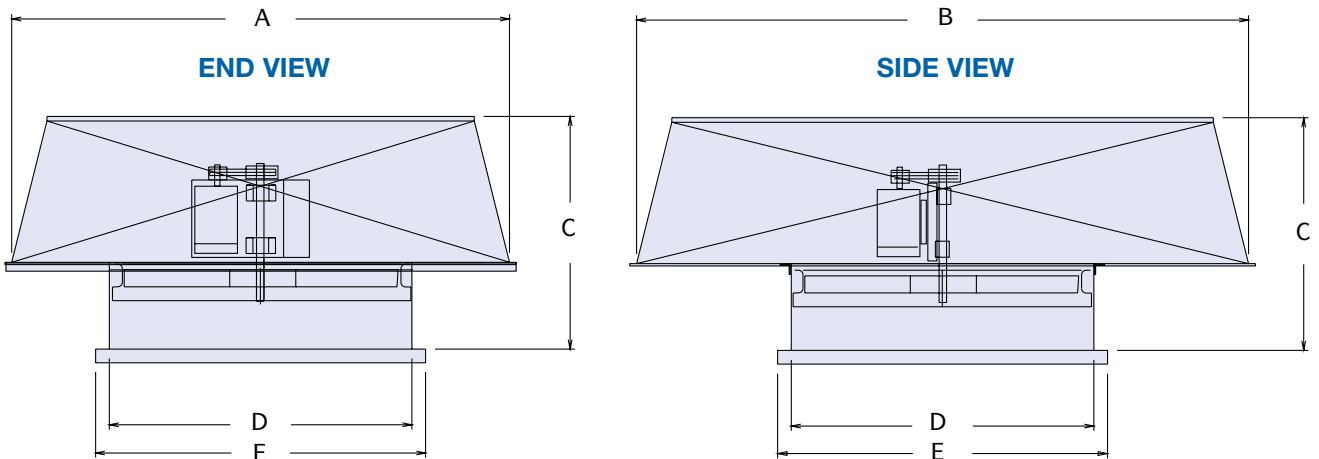
Romla Co. certifies that the fans shown have been tested and rated in accordance with AMCA Bulletin 211 and are guaranteed by the manufacturer to deliver rated performance.

*Sones shown apply to the highest cataloged CFM at each fan RPM.

MAX. BHP: The brake horsepower capability of a fan motor is dependent on the degree of cooling the motor receives from the moving air stream over the motor. The motor loading beyond the motor name plate rating on Romla-built fans does not overheat the motor and is within NEMA recommended limits.

MODEL HS

DIMENSIONAL DATA



FAN SIZE	DIMENSIONS (inches)					BASE GAUGE	HOOD GAUGE	DAMPER SIZE (ins. sq.)	ROOF OPENING (ins. sq.)	APPROX. WEIGHT (lbs.)
	A	B	C	D	E					
24	51	51	24	30.25	36	16	20	24	26.5	196
30	60	60	24	36.25	42	16	20	30	32.5	260
36	71	71	28	42.25	48	16	20	36	38.5	375
42	81	81	30	48.25	54	16	20	42	44.5	500
48	91	91	31	54.25	60	14	20	48	50.5	650
54	99	99	34	60.25	66	14	18	54	56.5	775
60	99	120	35	66.25	72	14	18	60	62.5	900

MODEL HS ACCESSORIES

- **DAMPERS** – Model RBD gravity dampers are available for both exhaust and supply applications. Motorized operation is available.
- **HEAVY-DUTY BACKDRAFT DAMPERS** – Model RVC motorized heavy duty galvanized backdraft dampers can be used on either exhaust or supply applications. Designed for higher velocity application and are available in standard leakage and low leakage applications. All low leakage dampers include vinyl blade and jamb seals.
- **ROOF CURBS** – Type CF and SF prefabricated roof curbs are available to ensure compatibility between the fan, curb, and roof opening.
- **U.L. 705** – All belt driven fans up to 10 HP with TEFC standard efficiency and premium efficiency single speed motors are available with the UL-705 listing for electrical.
- **SAFETY GUARDS** – Safety guards installed at the fan inlet are recommended to protect the fan and nearby personnel in nonducted applications. Where a safety guard is not ordered with the fan, it should be provided by the installer.
- **SPECIAL COATINGS** – Special liquid coatings are available, including special color to match enamels, epoxies, and urethanes. Urethane powder coating are also available. Consult factory for information regarding which coating to use.
- **DISCONNECT SWITCHES** – The following switches are available. They are factory mounted non-wired. Optionally, wiring from the motor to the disconnect box can be provided. NEMA 1 - Indoor general purpose, NEMA 3R - Exterior mount, rain-tight, NEMA 4 - Water-tight and dust-tight.
- **EXTENDED LUBRICATION LINES** – All the pillow block bearings to be lubricated without hinging the hood.
- **HOOD INSULATION** – 1/2" or 1-1/2" thickness insulation is available to minimize condensation and reduce sound levels.
- **HIGH WIND TIE DOWN POINTS** – In high wind locations, cable tie downs (by others) are recommended to secure fans to the roof. Four tie down points for cable attachment can be provided.

SPECIFICATIONS

Roof mounted exhaust or supply hooded power roof ventilators shall be belt driven axial type. Fan shall be belt driven and incorporate a high efficiency six bladed fabricated steel propeller. Propellers shall be statically and dynamically balanced. The fan housing shall be heavy gauge galvanized steel with vertical welded seams. The fan hoods shall be constructed of heavy gauge galvanized steel with interlocking ribs at the seams to provide superior strength. Hoods shall also be hinged to provide easy access to fan components such as motors, belts, pulleys, and propellers. The units shall have 1/2" mesh galvanized birdscreen installed vertically along the perimeter of the fan base. Self-aligning pillow block bearings shall be selected for a minimum (L50) life in excess of 200,000 hours at maximum cataloged operating speeds. Fan drives shall be designed for 165% of driven HP. Motor drives to 7-1/2 HP shall be variable pitch. Belts shall be oil resistant non-static type. Fans shall be Model HS as manufactured by Romla Ventilator Company of San Diego, California.

WARRANTIES

The Romla Ventilator Company warrants this equipment to be free from defects in material and workmanship under normal use and service for a period of one year from date of delivery. During the warranty period if any parts prove to be defective, they will be repaired or replaced free of charge at factory option: If upon receipt of written authorization they are delivered prepaid to the factory. This guarantee does not cover any damage caused by neglect of lubrication, accident or overload, improper installation, nor does it cover the cost of repairs made or attempted outside the factory, without authorization from Romla Co. Electric motors are guaranteed only to the extent of the motor manufacturer's warranty.

Romla Co., is not responsible for the cost of removal of the defective product or part, or the installation of the repaired or replaced products or part. Correction of any verified defects by repair or replacement shall constitute fulfillment of this warranty.



WARNING! DO NOT USE IN HAZARDOUS ENVIRONMENTS where fans electrical system could provide ignition to combustible or flammable materials, unless unit is specifically built for hazardous environments. Guards must be installed when fan is within reach of personnel or within seven (7) feet of working level or when deemed advisable for safety.



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