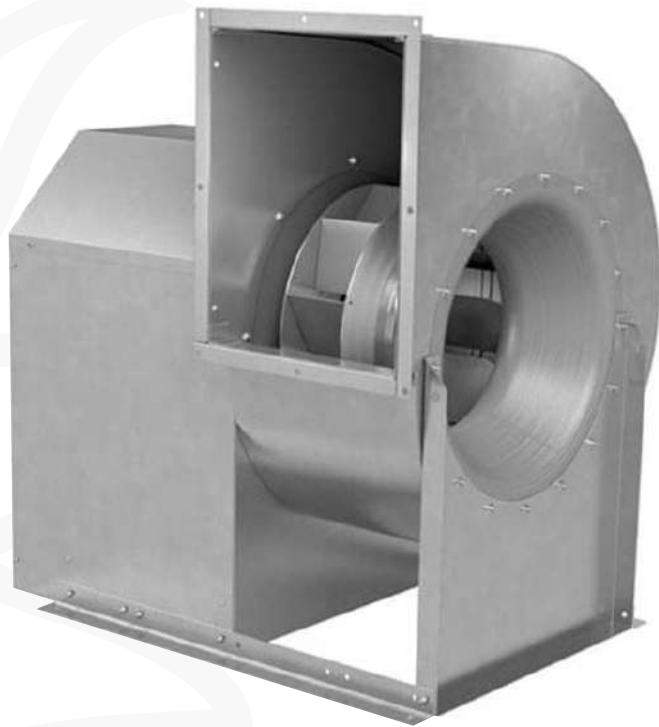


We Care for Your Needs

UTILITY FAN

UF Series



CATALOGUE ID:
ETC-UF-2022-ED00V0
November 2022



TABLE OF CONTENTS

GENERAL INFORMATION	03-04
CONSTRUCTION FEATURES	05
ROTATION & DISCHARGES	06
OPTIONS & ACCESSORIES	07
DIRECT DRIVE DATA	08-10
BELT DRIVEN DATA	11-38
TYPICAL SPECIFICATION	39

UTILITY FAN

UF Series

OVERVIEW

Energy Twin City line of utility ventilating sets is one of the most comprehensive in the industry. Utility sets are an excellent choice for general exhaust and supply requirements of commercial and light industrial applications. They are suitable for indoor usage and outdoor usage, with the addition of a weather cover to enclose the motor and drives. The fan housings are lock seam steel construction.

TYPICAL APPLICATIONS INCLUDE

Data Center Exhaust, General HVAC, Elevator Shaft Exhaust/Pressurization, Restroom Exhaust, Stairwell Pressurization, Industrial Ovens, Vehicle Exhaust generator Room Ventilation, Swimming Pool Exhaust, Kitchen Exhaust, Dishwasher Exhaust, Elevator Shaft Exhaust/Pressurization, Emergency Smoke Exhaust, Stairwell Pressurization.

CONFIGURATIONS

The fan housings are rotatable to the seven standard discharge positions. Both clockwise and counter-clockwise rotations are available, Direct Drive and Belt Driven Configurations

➤ UFxxD (Direct Drive)

Available in 8 sizes, 12.0" to 24.0" wheel diameters

➤ UFxxB (Belt Driven)

Available in 10 sizes, 12.0" to 36.0" wheel diameters

OPTIONAL CONSTRUCTION

High Temperature, Special Materials, Special Coatings, IEC-ex Spark Resistant

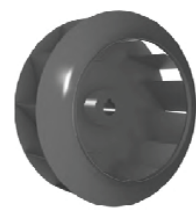
WHEEL TYPES

Backward Inclined/Curved Centrifugal, Spark resistant aluminum wheels, Steel wheel (Heat & Smoke removal)

Aluminum Wheel



Steel Wheel



EASY MAINTENANCE ACCESS

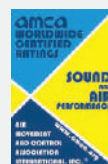
By removing the fasteners, the weather cover lifts off for complete access to all the drive components.

KITCHEN EXHAUST

UF packages include V-belt drives, motor, weather cover, bolted access door, drain connection, back plate fins,

CERTIFICATIONS

AMCA Sound and Air Performance, IEC, CE for Electrical and RoHS



Energy Industrial Company L.L.C certifies that the Models UF12B, UF16B, UF18B, UF20B, UF24B, UF30B & UF36B shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



CE Conformity with Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits



Restriction of Hazardous Substances in Electrical and Electronic Equipment

GENERAL INFORMATION

SWB SERIES CENTRIFUGAL FAN

SPARK-RESISTANT CONSTRUCTION

AMCA "C", AMCA "B" and AMCA "A" are available as an option

Type	Construction
A	All parts in contact with the airstream are constructed of non-ferrous material
B	The fan wheel is constructed of a non-ferrous material. A non-ferrous rub ring surrounds the fan shaft where it passes through the fan housing.
C	The Wheel or the inlet cone is constructed of non-ferrous material. A non-ferrous rub ring surrounds the fan shaft where it passes through the fan housing.

Notes:

- A) Bearings shall be placed outside the airstream.
- B) The user shall electrically ground all fan parts.
- C) The use of the above standard in no way implies a guarantee of safety for any level of spark resistance. "Spark resistant construction also does not protect against ignition of explosive gases caused by catastrophic failure or from any airstream material that may be present in the system."

HIGH TEMPERATURE CONSTRUCTION

Temp. Range	Construction
20°F – 200°F	Standard construction
200°F – 300°F	RPM limited to 95% of maximum
300°F – 500°F	Steel wheel construction with fins RPM limited to 90% of maximum.
500°F – 750°F (Two Hours)	Steel wheel construction with fins RPM limited to 90% of maximum. Shaft Cooler High Temp Grease Bearings Shaft Seal

PROTECTIVE COATINGS

Energy Twin City offers a wide variety of protective coatings suitable for corrosive applications. All coatings are electro statically applied baked powders that offer a durable, long lasting finish.

STD RALL – 9035, 9016, 9010

Two-Coat system is available as an option



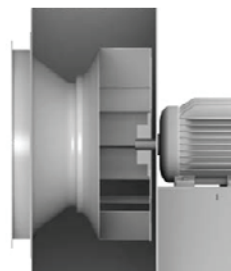
MOTOR SELECTION

Both direct drive and belt drive models are available with a wide range of voltages and enclosures. Standard belt drive TEFC selected using a conservative portion of the IEC/NEMA service factor. Standard direct drive TEFC motors have Class B/F insulation and internal thermal overload protection. Each size is carefully engineered to match the motor to the wheel capacity.

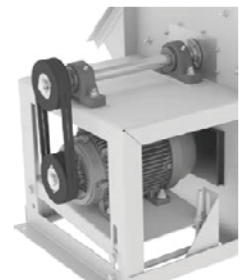
ARRANGEMENT 4 OR 10

Fans are constructed with the motor and bearings (if apply) out of the mainstream. For arrangement 10, motors are mounted inside of the pedestal on an adjustable motor plate. For arrangement 4, motors are mounted on top of a pedestal. Both arrangements allow for the use of a weather cover and can be used in ducted or non-ducted applications.

Arrangement 4



Arrangement 10



HOUSINGS

Utility blowers are manufactured to insure a long, corrosion resistant life. The Finishing resists rust and will help maintain the unit's integrity even in environments such as coastal regions.

The housings use a mechanically fastened seam. This airtight and watertight housing construction uses the same structural support as all welded housings.



Optional on larger fan sizes, centrifugal fans are manufactured with heavy gauge, welded housing construction.

THE HEAVY DUTY SUPPORT FRAME

The heavy duty support frame provides a strong structural foundation for the motor and drive assembly, as well as rigid reinforcement for housing members.

INLET CONE

Deep spun cone, aerodynamically designed for smooth air entry into the wheel.

MOTOR/BEARING PEDESTAL

Large open motor compartment allows complete access to motor and motor base for quick and easy servicing and belt tension adjustment.

DRIVE

Adjustable or fixed pitch, 1.5 service factor V-belt drives with cast iron sheaves, and V-belts designed to be oil and heat resistant, and to dissipate static electricity.

BEARINGS

Heavy duty grease lubricated pillow block bearings selected for minimum average life (AFBMA L-50) of at least 200,000 hours at maximum class speed.

SHAFT

AISI 1045, turned ground and polished for accuracy. Designed to provide first critical speed of at least 1.25 times the maximum class speed

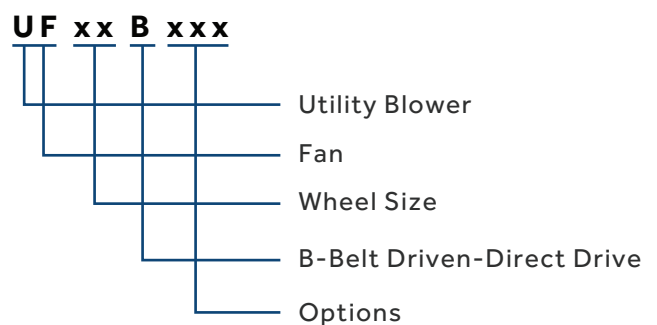
OUTLET FLANGE

Standard on all sizes

VIBRATION ISOLATION

Energy Twin City offers a complete package of vibration isolators, isolation bases and inertia bases to simplify field assembly and reduce transmitted vibrations..

ORDER CODE



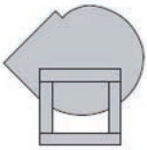
ROTATION & DISCHARGES

UF- UTILITY FAN SERIES

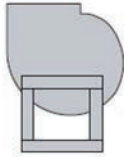
► DISCHARGE POSITIONS AND ROTATABLE HOUSINGS

Rotation and discharge is always determined from the drive side of the fan.

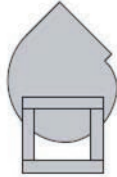
CW BAU



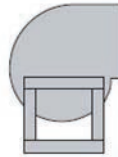
CW UB



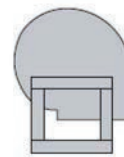
CW TAU



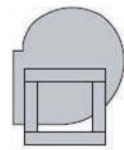
CW TH



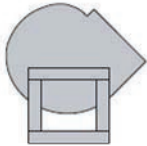
CW DB



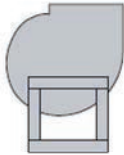
CW BH



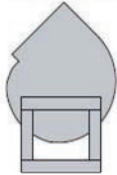
CCW BAU



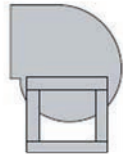
CCW UB



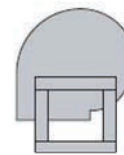
CCW TAU



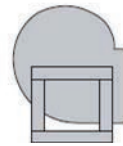
CCW TH



CCW DB



CCW BH



CWTH

Clockwise Top Horizontal Discharge



CWUB

Clockwise Top Up-Blast Discharge

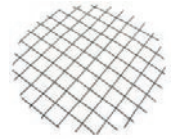


Gravity Damper

Flange mounted damper is available for exhaust or supply applications.

Inlet & Outlet Screen

Screens are available for mounting in the fan inlet or outlet.



Bolted Access Door

Bolted access door allows for inspection and maintenance of internal fan components

Drain

Drains are made of 1-2" pipe which is mechanically fastened and sealed to prevent leakage at the lowest point of the scroll



Extended Lube Line

Extended Lube Lines Allow for easy lubrication of bearings on belt driven units without disassembly

Vibration Isolation Spring

Spring type vibration isolation mounts are available to reduce the transmission of fan vibration in 1" or 2" deflection



Quick Open Access Doors

Access doors are specified where examination and cleaning of the fan interior is required.

Inlet Flange Inlet and outlet flanges

Inlet Flange Inlet and outlet flanges with prepunched mounting holes are available on all sizes to provide a bolted connection to ductwork.



Stainless Steel Hardware

Stainless steel hardware is available for selection.

Shaft Seal

A felt, ceramic fabric shaft seal with a rub rings available for operation at high temperatures or for exhausting contaminated air.



Heat Slinger

The heat slinger is an aluminum cooling disc mounted on the fan shaft between the inboard bearing and the blower housing to dissipate heat conducted along the fan shaft

NEMA 3R Disconnect Switch

NEMA 3R rain-tight disconnect switch, externally mounted and is shipped loose for field mounting and wiring or factory mounted and wired



NEMA 4 Disconnect Switch

NEMA 4 disconnect switch (optional) is mounted externally and is water- and dust-tight. Switch is available shipped loose for field mounting and wiring or factory mounted and wired.

NEMA 7/9 Disconnect Switch

NEMA 7/9 disconnect switches are provided on fan with explosion proof motors. NEMA 7/9 disconnects will be shipped loose for field mounting and wiring



DIRECT DRIVE FAN DATA


UF- UTILITY FAN SERIES

► DIRECT DRIVE


UF10D												
Hz	KW	RPM		0.000" Pst	0.250" Pst	0.375" Pst	0.500" Pst	0.625" Pst	0.750" Pst	1.000" Pst	1.250" Pst	
				CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	
				Sones	Sones	Sones	Sones	Sones	Sones	Sones	Sones	
50	0.25	1450	46	971	849	780	709	637	559	-	-	
				11.40	11.10	10.80	10.60	10.80	11.00	-	-	
60	0.37	1750	48	1171	1075	1020	963	904	845	724	646	
				14.90	14.80	1020	14.20	13.90	13.90	14.20	14.50	


UF12D												
Hz	KW	RPM		0.000" Pst	0.250" Pst	0.500" Pst	0.750" Pst	1.000" Pst	1.250" Pst	1.500" Pst	2.000" Pst	
				CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	
				Sones	Sones	Sones	Sones	Sones	Sones	Sones	Sones	
50	0.37	1450	53	1779	1666	1523	1373	1240	1077	862	-	
				13.56	13.18	12.83	12.52	12.27	12.03	12.19	-	
60	0.55	1750	55	2147	2053	1959	1827	1698	1589	1473	1181	
				18.18	17.85	17.56	17.26	16.96	16.76	16.60	16.50	

UF15D												
Hz	KW	RPM		0.000" Pst	0.500" Pst	0.750" Pst	1.000" Pst	1.500" Pst	2.000" Pst	2.500" Pst	3.000" Pst	
				CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	
				Sones	Sones	Sones	Sones	Sones	Sones	Sones	Sones	
50	1.1	1450	68	3362	3037	2847	2639	2210	1665	-	-	
				19.90	19.00	19.70	19.50	18.30	18.00	-	-	
60	1.5	1750	70	4058	3803	3652	3500	3155	2803	2423	1909	
				24.00	24.00	24.00	24.00	24.00	23.00	22.00	22.00	

UF16D												
Hz	KW	RPM		0.000" Pst	0.500" Pst	0.750" Pst	1.000" Pst	1.500" Pst	2.000" Pst	2.500" Pst	3.000" Pst	
				CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	
				Sones	Sones	Sones	Sones	Sones	Sones	Sones	Sones	
50	1.5	1450	76	3997	3704	3534	3347	2926	2267	-	-	
				19.18	17.77	17.53	17.43	17.40	17.44	-	-	
60	2.2	1750	81	4825	4581	4460	4322	4012	3667	3259	2489	
				25.38	23.92	23.22	22.90	22.84	23.16	23.58	23.96	

► DIRECT DRIVE

UF18D												
Hz	KW	A		0.000" Pst	0.500" Pst	1.000" Pst	1.500" Pst	2.000" Pst	2.500" Pst	3.000" Pst	4.000" Pst	
				CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	
				Sones	Sones	Sones	Sones	Sones	Sones	Sones	Sones	
50	2.2	1450	102	5526	5157	4755	4346	3948	3507	2816	-	
				27.75	26.04	24.42	22.91	21.35	19.97	20.25	-	
60	4.0	1750	115	6670	6363	6254	5709	5368	5038	4707	3966	
				36.39	34.75	33.23	31.79	30.41	29.07	27.81	25.82	

UF20D												
Hz	KW	A		0.000" Pst	0.500" Pst	1.000" Pst	1.500" Pst	2.000" Pst	3.000" Pst	4.000" Pst	4.500" Pst	
				CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	
				Sones	Sones	Sones	Sones	Sones	Sones	Sones	Sones	
50	3.0	1450	112	7315	6900	6472	6031	5400	3775	-	-	
				27.75	26.04	24.42	22.91	21.35	20.25	-	-	
60	5.5	1750	125	8629	8485	8141	7780	7416	6426	5338	4067	
				36.39	34.75	33.23	31.79	30.41	27.81	25.82	27.73	

UF22D												
Hz	KW	A		0.000" Pst	1.000" Pst	1.500" Pst	2.000" Pst	3.000" Pst	4.000" Pst	5.000" Pst	5.500" Pst	
				CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	
				Sones	Sones	Sones	Sones	Sones	Sones	Sones	Sones	
50	5.5	1450	130	10831	9664	9355	8808	7662	-	-	-	
				34.00	34.00	33.00	33.00	32.00	-	-	-	
60	11	1750	150	13072	12272	11870	11491	10552	9623	8531	7490	
				43.00	43.00	43.00	42.00	42.00	42.00	42.00	42.00	42.00

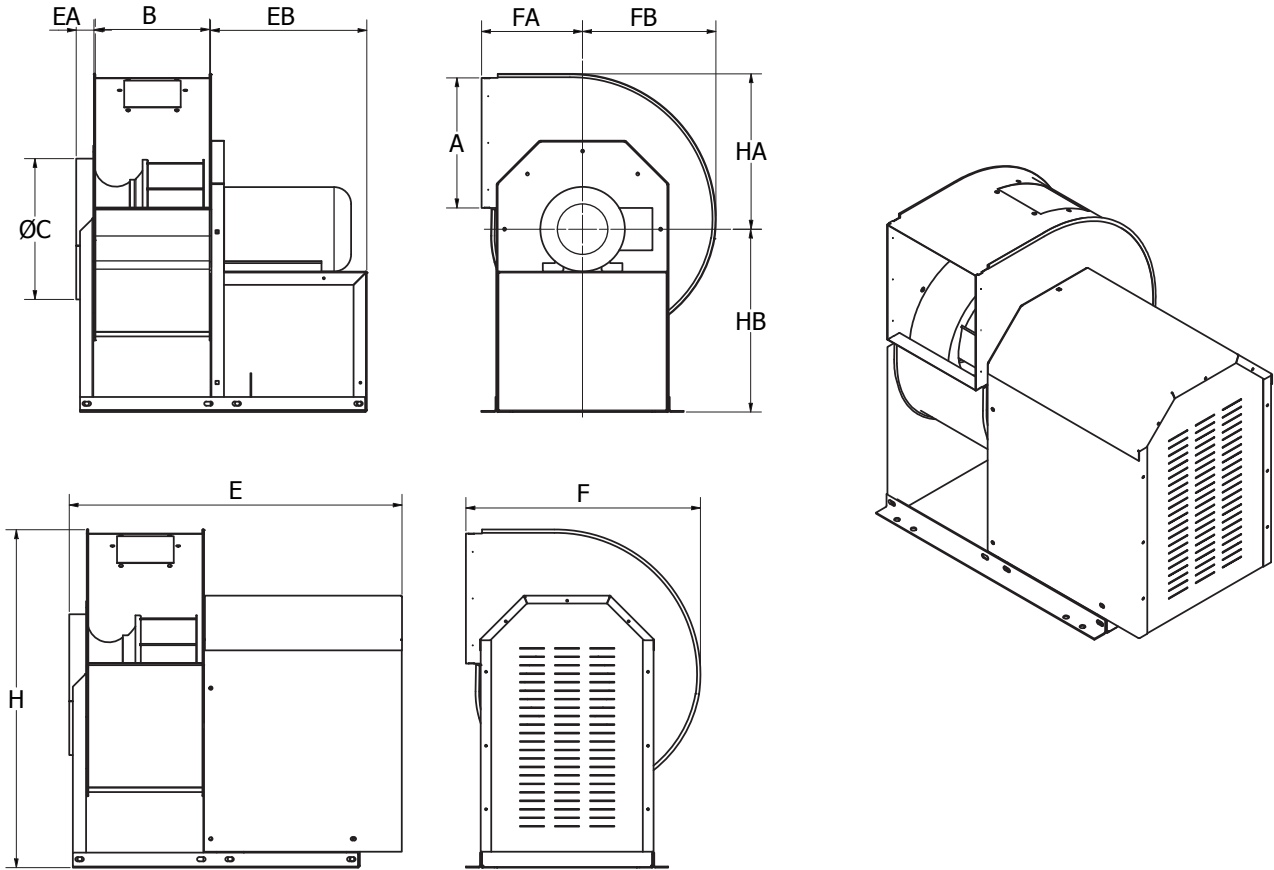
UF24D												
Hz	HP	A		0.000" Pst	0.250" Pst	0.500" Pst	1.000" Pst	1.500" Pst	2.000" Pst	2.500" Pst	3.000" Pst	
				CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	
				Sones	Sones	Sones	Sones	Sones	Sones	Sones	Sones	
50	3.0	950	180	9136	8795	8455	7671	5639	4899	-	-	
				21.57	20.42	19.68	18.13	16.95	18.48	-	-	
60	4.0	1150	185	11059	10778	10497	9895	9241	8389	7304	5557	
				28.85	27.90	26.96	25.17	23.77	22.68	21.69	25.45	

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include transmission losses. The sound ratings shown are for loudness values in fan sones at 5'0' (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type B: free inlet hemispherical sones levels. Performance ratings do not include the effects of appurtenances in the airstream.

DIRECT DRIVE FAN DATA

UF- UTILITY FAN SERIES

► DIMENSIONAL DATA

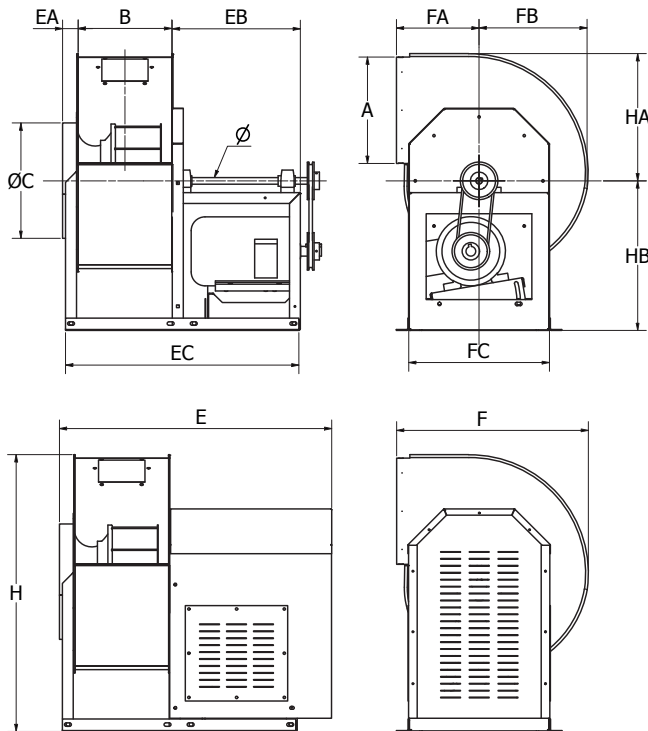
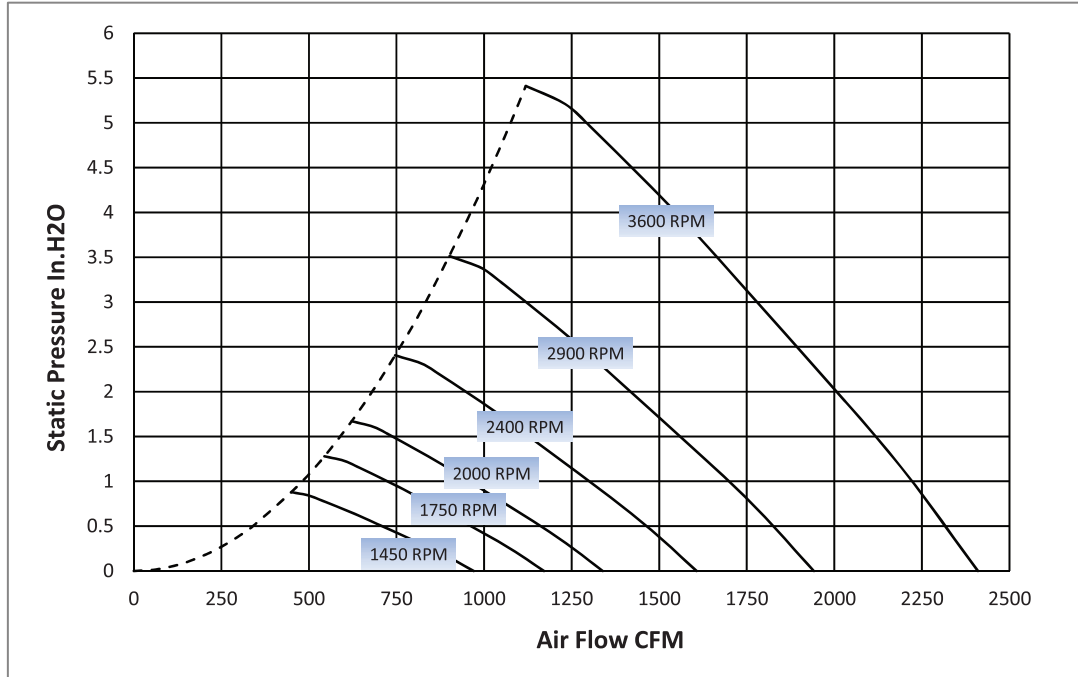


MODEL	A	B	C	E	EA	EB	EC	F	FA	FB	FC	H	HA	HB
UF10D	286	210	286	711	32	368	610	508	221	287	356	727	335	392
UF12D	305	264	330	765	32	368	664	552	238	314	406	800	368	432
UF15D	400	295	400	848	32	406	772	678	287	391	489	962	454	508
UF16D	445	324	438	876	32	406	768	740	313	427	527	1057	498	559
UF18D	502	359	483	994	38	454	851	822	352	470	572	1159	549	610
UF20D	552	375	521	1137	38	508	921	868	376	492	616	1240	592	648
UF22D	595	432	610	1194	38	508	978	963	408	555	711	1380	649	730
UF24D	660	483	635	1245	38	508	1029	1046	438	608	737	1513	713	800

Notes:

1. All dimensions are in mm unless otherwise noted.
2. Dimensions are not to be used for construction

➤ **UF10B**



A	286
B	210
C	286
E	711
EA	32
EB	368
EC	610
F	508
FA	221
FB	287
FC	356
H	727
HA	335
HB	392
Ø	19
KG	55

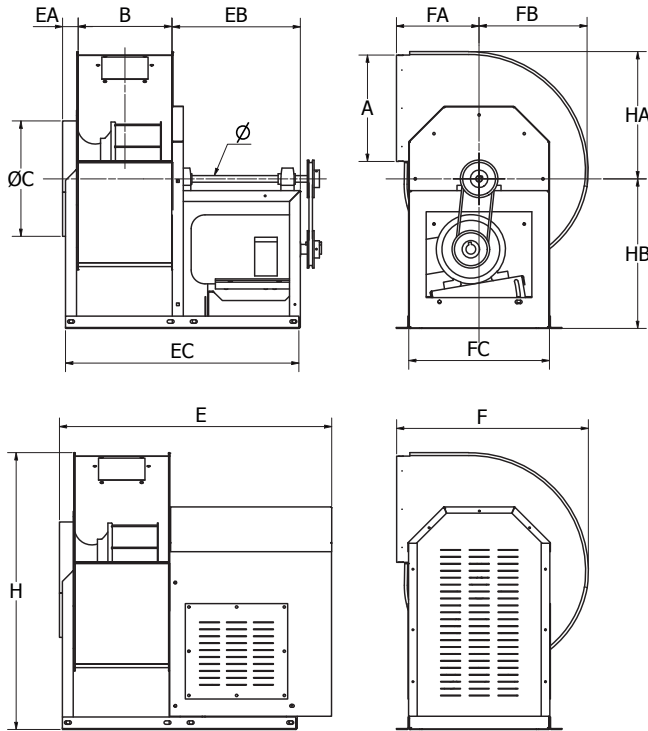
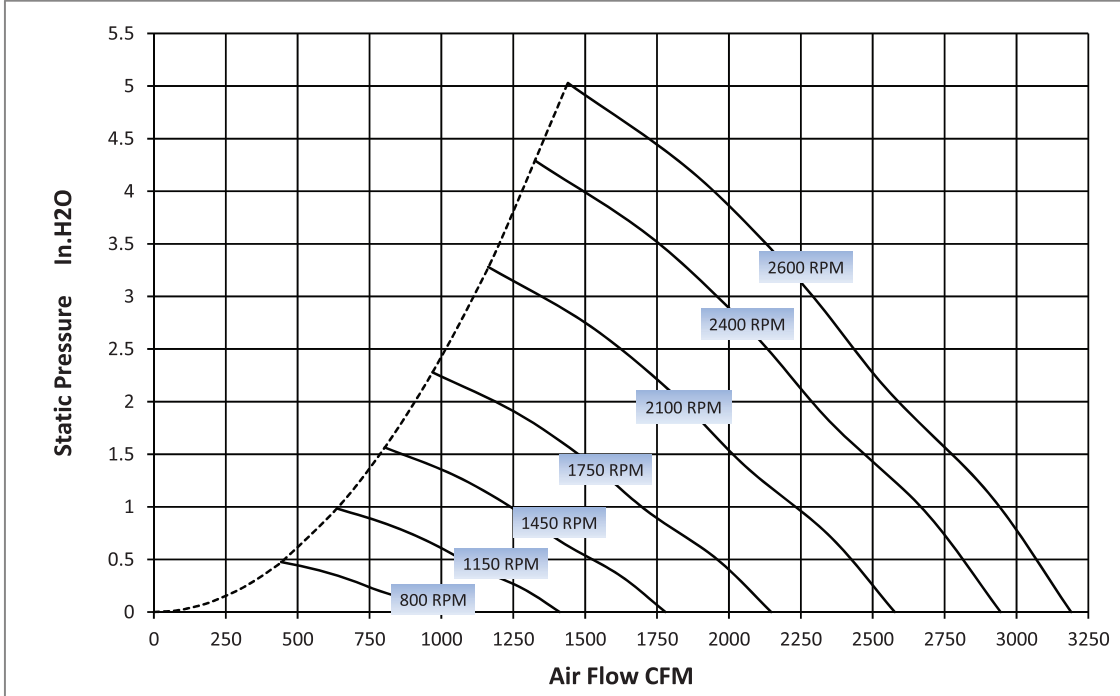
All dimensions are in mm.

HP	RPM	0.000" Pst		0.250" Pst		0.375" Pst		0.500" Pst		0.625" Pst		0.750" Pst		1.000" Pst		1.250" Pst		
		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM		
		BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	
1/2	800	536		283														
		0.03	2.80	0.03	3.50													
	900	602		387														
			0.04	4.20	0.04	4.50												
	950	636		433		299												
			0.05	5.00	0.05	5.10	0.04	5.00										
	1000	669		479		369												
			0.06	5.80	0.06	5.70	0.05	5.90										
	1100	736		566		472		352										
			0.07	6.90	0.07	6.70	0.07	6.80	0.06	6.80								
	1150	770		608		518		421										
			0.08	7.50	0.08	7.30	0.08	7.30	0.07	7.50								
	1200	803		650		564		473										
			0.09	8.10	0.09	7.90	0.09	7.80	0.09	8.10								
	1300	870		731		653		573		486								
			0.11	9.60	0.11	9.20	0.12	9.00	0.11	9.10	0.11	9.40						
	1400	937		810		738		664		589		507						
			0.14	10.80	0.14	10.40	0.14	10.10	0.15	10.10	0.14	10.30	0.13	10.50				
	1450	971		849		780		709		637		559						
			0.16	11.40	0.15	11.10	0.16	10.80	0.16	10.60	0.16	10.80	0.15	11.00				
1500	1004		888		821		753		684		611							
		0.17	12.20	0.17	11.80	0.17	11.50	0.18	11.30	0.18	11.30	0.17	11.50					
1600	1071		963		902		838		774		709		566					
		0.21	14.10	0.20	13.60	0.21	13.20	0.21	12.70	0.22	12.60	0.21	12.70	0.19	13.10			
1700	1138		1038		981		922		861		800		672					
		0.25	14.80	0.24	14.70	0.25	14.30	0.25	13.90	0.26	13.60	0.26	13.70	0.24	14.00			
1750	1171		1075		1020		963		904		845		724		577			
		0.27	14.90	0.27	14.80	0.27	14.50	0.27	14.20	0.28	13.90	0.28	13.90	0.27	14.20	0.24	14.50	
1800	1205		1111		1059		1003		946		890		773		646			
		0.30	15.10	0.29	15.10	0.29	14.80	0.30	14.50	0.30	14.20	0.31	14.20	0.29	14.40	0.27	14.70	
1900	1272		1183		1135		1083		1030		976		867		751			
		0.35	15.70	0.34	15.30	0.34	15.40	0.34	15.20	0.35	15.00	0.36	14.80	0.35	14.90	0.33	15.10	
2000	1339		1255		1210		1162		1112		1060		957		852			
		0.41	16.40	0.40	16.50	0.39	16.40	0.40	16.20	0.40	16.10	0.41	15.80	0.41	15.60	0.40	15.80	
3/4	2100	1406		1326		1284		1239		1192		1144		1046		947		
		0.47	17.10	0.46	17.40	0.46	17.40	0.45	17.30	0.46	17.20	0.47	17.00	0.48	16.70	0.47	16.70	
2200	1473		1396		1358		1315		1271		1225		1132		1038			
		0.54	17.70	0.53	18.10	0.52	18.30	0.52	18.20	0.53	18.20	0.54	18.10	0.55	17.80	0.55	17.70	
2300	1540		1466		1430		1390		1349		1305		1217		1127			
		0.61	18.40	0.60	18.70	0.60	19.00	0.60	19.00	0.60	19.00	0.61	18.90	0.62	18.80	0.63	18.60	
1	2400	1607		1536		1501		1464		1425		1384		1300		1215		
		0.70	19.20	0.68	19.30	0.68	19.60	0.68	19.70	0.68	19.70	0.68	19.70	0.70	19.60	0.72	19.50	
2500	1674		1606		1572		1538		1501		1462		1382		1300			
		0.79	20.00	0.77	19.90	0.77	20.00	0.77	20.00	0.76	20.00	0.76	20.00	0.79	21.00	0.80	20.00	
1 1/2	2600	1740		1676		1643		1611		1575		1539		1463		1384		
		0.88	21.00	0.87	20.00	0.87	21.00	0.86	21.00	0.86	21.00	0.86	21.00	0.88	21.00	0.89	21.00	
2700	1807		1745		1714		1683		1650		1615		1542		1467			
		0.99	22.00	0.97	22.00	0.97	22.00	0.97	22.00	0.96	22.00	0.96	23.00	0.97	23.00	0.99	23.00	
2800	1874		1814		1784		1754		1723		1690		1621		1549			
		1.10	23.00	1.09	23.00	1.08	23.00	1.08	24.00	1.08	24.00	1.07	24.00	1.08	24.00	1.10	24.00	
2900	1941		1883		1854		1825		1796		1764		1699		1630			
		1.23	24.00	1.21	24.00	1.20	24.00	1.20	24.00	1.20	25.00	1.19	25.00	1.19	25.00	1.21	25.00	
2	3000	2008		1952		1924		1896		1868		1838		1776		1709		
		1.36	25.00	1.34	25.00	1.33	25.00	1.33	25.00	1.32	26.00	1.32	26.00	1.31	26.00	1.33	26.00	
3100	2075		2021		1994		1966		1939		1912		1851		1788			
		1.50	27.00	1.48	26.00	1.47	26.00	1.46	26.00	1.46	27.00	1.46	27.00	1.45	27.00	1.46	27.00	
3200	2142		2089		2063		2037		2010		1984		1926		1867			
		1.64	28.00	1.62	27.00	1.61	27.00	1.61	28.00	1.61	28.00	1.61	28.00	1.60	28.00	1.60	28.00	
3	3300	2209		2158		2132		2107		2081		2056		2001		1944		
		1.80	29.00	1.78	29.00	1.77	29.00	1.77	29.00	1.76	29.00	1.76	29.00	1.75	29.00	1.75	29.00	
3400	2276		2226		2202		2177		2152		2127		2075		2020			
		1.97	30.00	1.95	30.00	1.94	30.00	1.93	30.00	1.93	30.00	1.93	30.00	1.92	30.00	1.91	30.00	
3500	2343		2295		2271		2247		2223		2199		2149		2095			
		2.15	32.00	2.13	32.00	2.12	32.00	2.11	32.00	2.10	32.00	2.10	32.00	2.10	32.00	2.09	32.00	
3600	2410		2363		2340		2316		2293		2269		2223		2170			
		2.34	33.00	2.32	33.00	2.30	33.00	2.29	33.00	2.29	33.00	2.29	33.00	2.28	33.00	2.27	33.00	

HP	RPM	1.500" Pst		2.000" Pst		2.500" Pst		3.000" Pst		3.500" Pst		4.000" Pst		4.500" Pst		5.000" Pst	
		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM	
		BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
1/2	1900	599															
		0.30	15.20														
1/2	2000	738															
		0.37	16.10														
3/4	2100	842															
		0.45	16.70														
	2200	943		703													
3/4		0.53	17.70	0.46	17.50												
	2300	1037		842													
1		0.62	18.60	0.56	18.60												
	2400	1128		946													
1		0.71	19.40	0.66	19.40												
	2500	1218		1048		861											
1 1/2		0.81	20.00	0.77	20.00	0.70	20.00										
	2600	1305		1145		971											
		0.91	21.00	0.88	21.00	0.82	21.00										
	2700	1391		1238		1075		872									
		1.01	23.00	1.00	22.00	0.95	23.00	0.85	22.00								
2	2800	1476		1329		1177		1013									
		1.12	24.00	1.13	24.00	1.08	24.00	1.01	24.00								
	2900	1559		1418		1274		1118		910							
		1.23	25.00	1.26	24.00	1.22	24.00	1.15	24.00	1.04	24.00						
	3000	1642		1505		1367		1221		1068							
2		1.36	26.00	1.40	25.00	1.37	25.00	1.31	25.00	1.23	25.00						
	3100	1724		1591		1458		1322		1174		972					
		1.49	27.00	1.53	26.00	1.52	25.00	1.48	25.00	1.39	25.00	1.27	25.00				
3	3200	1804		1676		1548		1417		1278		1133					
		1.63	28.00	1.67	26.00	1.69	26.00	1.65	26.00	1.57	26.00	1.48	26.00				
	3300	1883		1760		1636		1510		1379		1241		1055			
		1.77	29.00	1.82	28.00	1.86	27.00	1.82	27.00	1.76	26.00	1.67	26.00	1.55	26.00		
	3400	1962		1843		1723		1601		1478		1345		1209			
3		1.93	30.00	1.98	29.00	2.02	28.00	2.01	28.00	1.96	27.00	1.88	27.00	1.78	27.00		
	3500	2041		1925		1808		1691		1571		1447		1316		1155	
		2.09	32.00	2.15	31.00	2.19	29.00	2.21	28.00	2.16	28.00	2.09	28.00	2.00	28.00	1.87	28.00
	3600	2118		2007		1893		1779		1663		1547		1420		1292	
	2.26	33.00	2.33	33.00	2.37	30.00	2.42	30.00	2.37	29.00	2.32	29.00	2.22	28.00	2.12	28.00	

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include transmission losses. The sound ratings shown are for loudness values in fan sones at 5'0' (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type B: free inlet hemispherical sones levels. Performance ratings do not include the effects of appurtenances in the airstream.

➤ UF12B



A	305
B	264
C	330
E	765
EA	32
EB	368
EC	664
F	552
FA	238
FB	314
FC	406
H	800
HA	368
HB	431
Ø	19
KG	58

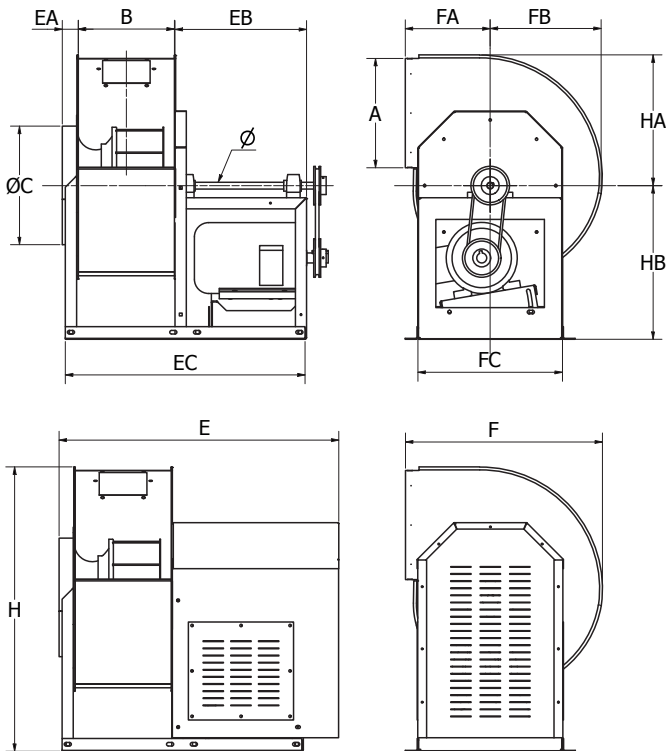
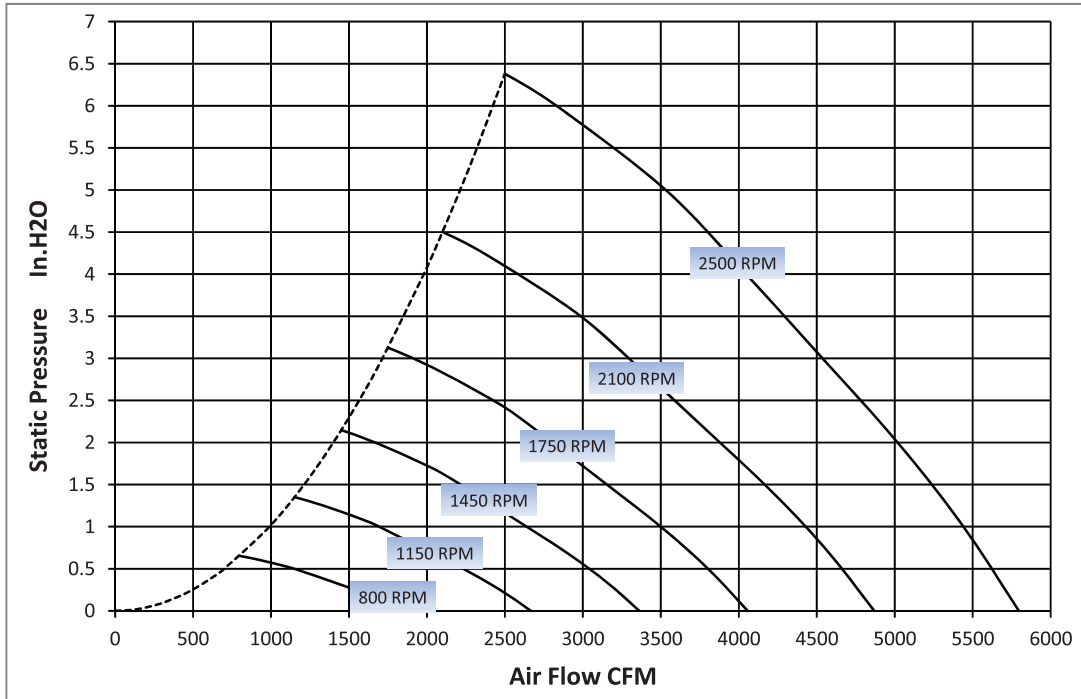
All dimensions are in mm.

HP	RPM	0.000" Pst		0.250" Pst		0.375" Pst		0.500" Pst		0.625" Pst		0.750" Pst		1.000" Pst		1.250" Pst	
		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM	
		BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
1/2	800	982		737		601											
		0.05	5.30	0.06	4.73	0.06	4.54										
	900	1104		886		779		649									
		0.07	6.44	0.08	5.89	0.08	5.71	0.08	5.59								
	950	1166		963		857		742		591							
		0.09	7.04	0.09	6.51	0.10	6.29	0.10	6.12	0.09	6.17						
	1000	1227		1039		933		832		712							
		0.10	7.64	0.11	7.13	0.11	6.92	0.11	6.73	0.11	6.62						
	1100	1350		1188		1082		994		898		791					
		0.13	8.90	0.14	8.39	0.14	8.16	0.15	7.98	0.15	7.82	0.14	7.72				
	1150	1411		1260		1159		1070		987		884					
		0.15	9.50	0.16	9.07	0.16	8.86	0.16	8.64	0.17	8.44	0.16	8.29				
	1200	1472		1332		1235		1145		1065		975		744			
		0.17	10.12	0.18	9.69	0.18	9.48	0.19	9.30	0.19	9.16	0.19	8.98	0.18	8.92		
	1300	1595		1468		1385		1296		1218		1145		969		727	
	0.21	11.51	0.23	11.07	0.23	10.87	0.23	10.68	0.24	10.51	0.24	10.34	0.23	10.04	0.22	10.23	
1400	1718		1600		1531		1448		1367		1298		1152		973		
	0.26	12.86	0.28	12.48	0.28	12.30	0.29	12.11	0.29	11.93	0.29	11.81	0.29	11.53	0.29	11.41	
1450	1779		1666		1604		1523		1443		1373		1240		1077		
	0.29	13.56	0.31	13.18	0.32	13.00	0.32	12.83	0.32	12.66	0.32	12.52	0.33	12.27	0.32	12.03	
1500	1840		1731		1675		1598		1520		1448		1320		1169		
	0.32	14.29	0.34	13.91	0.35	13.72	0.35	13.54	0.36	13.37	0.36	13.22	0.36	12.99	0.36	12.78	
3/4	1600	1963		1860		1809		1744		1672		1599		1474		1349	
		0.39	15.80	0.41	15.46	0.42	15.30	0.42	15.13	0.43	14.96	0.43	14.80	0.44	14.53	0.44	14.30
	1700	2086		1989		1941		1889		1820		1752		1624		1511	
		0.47	17.39	0.49	17.06	0.50	16.89	0.50	16.72	0.51	16.55	0.51	16.40	0.52	16.15	0.52	15.97
	1750	2147		2053		2006		1959		1893		1827		1698		1589	
	0.51	18.18	0.53	17.85	0.54	17.70	0.55	17.56	0.55	17.42	0.56	17.26	0.57	16.98	0.57	16.78	
1800	2209		2117		2071		2026		1966		1902		1772		1665		
	0.55	18.97	0.57	18.68	0.58	18.53	0.59	18.38	0.60	18.22	0.60	18.08	0.61	17.80	0.62	17.63	
1	1900	2331		2245		2201		2158		2111		2049		1927		1815	
		0.65	20.61	0.67	20.33	0.68	20.18	0.69	20.03	0.70	19.90	0.71	19.76	0.72	19.49	0.72	19.29
2000	2454		2372		2330		2289		2248		2195		2079		1962		
	0.76	22.24	0.78	22.00	0.79	21.89	0.80	21.76	0.81	21.64	0.82	21.52	0.83	21.27	0.84	21.03	
1 1/2	2100	2577		2498		2459		2420		2381		2339		2228		2117	
		0.87	24.08	0.90	23.81	0.91	23.66	0.92	23.50	0.93	23.34	0.95	23.21	0.96	23.01	0.97	22.80
2200	2699		2625		2587		2550		2512		2475		2375		2269		
	1.00	25.90	1.03	25.64	1.04	25.51	1.05	25.39	1.07	25.27	1.08	25.14	1.09	24.90	1.11	24.61	
2	2300	2822		2750		2715		2679		2643		2607		2521		2420	
		1.15	27.76	1.17	27.49	1.19	27.36	1.20	27.24	1.21	27.11	1.23	26.98	1.25	26.75	1.26	26.53
	2400	2945		2876		2842		2808		2773		2739		2665		2568	
	1.30	29.63	1.33	29.37	1.34	29.25	1.36	29.12	1.37	29.00	1.39	28.87	1.41	28.63	1.42	28.40	
3	2500	3067		3002		2969		2936		2903		2870		2804		2714	
		1.47	31.56	1.50	31.31	1.51	31.18	1.53	31.06	1.54	30.94	1.56	30.81	1.59	30.57	1.60	30.33
	2600	3190		3127		3095		3063		3032		3000		2937		2860	
	1.65	33.65	1.68	33.38	1.70	33.24	1.71	33.11	1.73	32.98	1.74	32.85	1.77	32.60	1.80	32.34	

HP	RPM	1,500" Pst		2,000" Pst		2,500" Pst		3,000" Pst		3,500" Pst		4,000" Pst		4,500" Pst		5,000" Pst	
		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM	
		BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
1/2	1450	862															
		0.31	12.19														
	1500	985															
		0.35	12.82														
3/4	1600	1201															
		0.43	14.11														
	1700	1384		1059													
		0.52	15.77	0.50	15.78												
1750	1473		1181														
	0.57	16.60	0.55	16.51													
1800	1558		1298														
	0.62	17.46	0.61	17.24													
1	1900	1714		1484		1182											
		0.73	19.13	0.73	18.87	0.69	19.16										
2000	1866		1664		1424												
	0.85	20.88	0.85	20.60	0.84	20.86											
1 1/2	2100	2016		1833		1615		1341									
		0.98	22.63	0.99	22.38	0.98	22.71	0.94	23.25								
2200	2164		1989		1796		1581		1279								
	1.12	24.32	1.13	24.11	1.13	24.57	1.12	25.17	1.05	25.98							
2	2300	2318		2141		1974		1768		1526							
		1.27	26.31	1.28	26.03	1.29	26.19	1.28	26.76	1.24	27.49						
2400	2471		2291		2131		1950		1753		1487						
	1.43	28.18	1.45	27.85	1.47	27.83	1.46	28.41	1.45	29.07	1.39	29.78					
3	2500	2621		2438		2285		2128		1939		1730		1464			
		1.61	30.08	1.64	29.66	1.65	29.59	1.66	30.13	1.65	30.72	1.62	31.39	1.54	32.12		
2600	2770		2591		2437		2289		2120		1938		1711		1455		
	1.81	32.11	1.84	31.66	1.85	31.53	1.86	31.89	1.86	32.43	1.84	33.05	1.79	33.75	1.71	34.49	

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include transmission losses. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type B: free inlet hemispherical sones levels. Performance ratings do not include the effects of appurtenances in the airstream.

➤ **UF15B**



A	400
B	295
C	400
E	848
EA	32
EB	406
EC	772
F	678
FA	287
FB	391
FC	489
H	962
HA	454
HB	508
Ø	25
KG	75

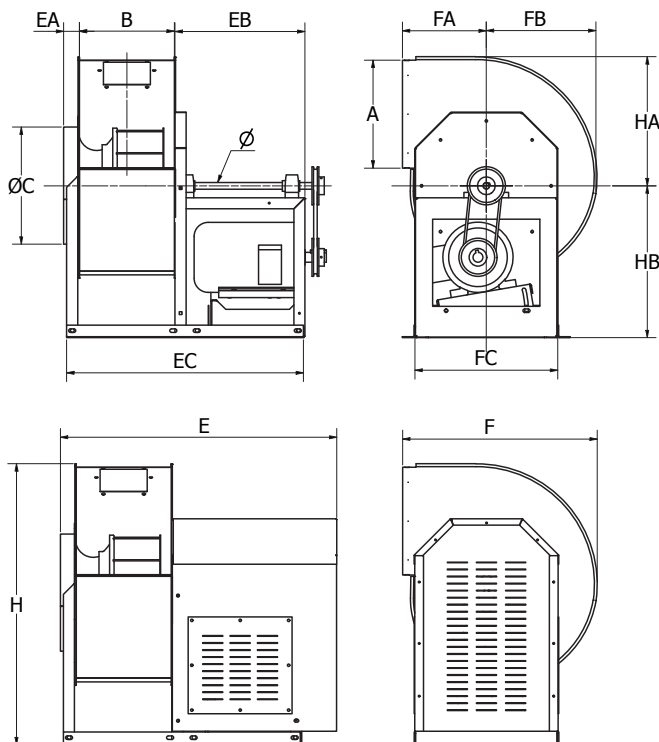
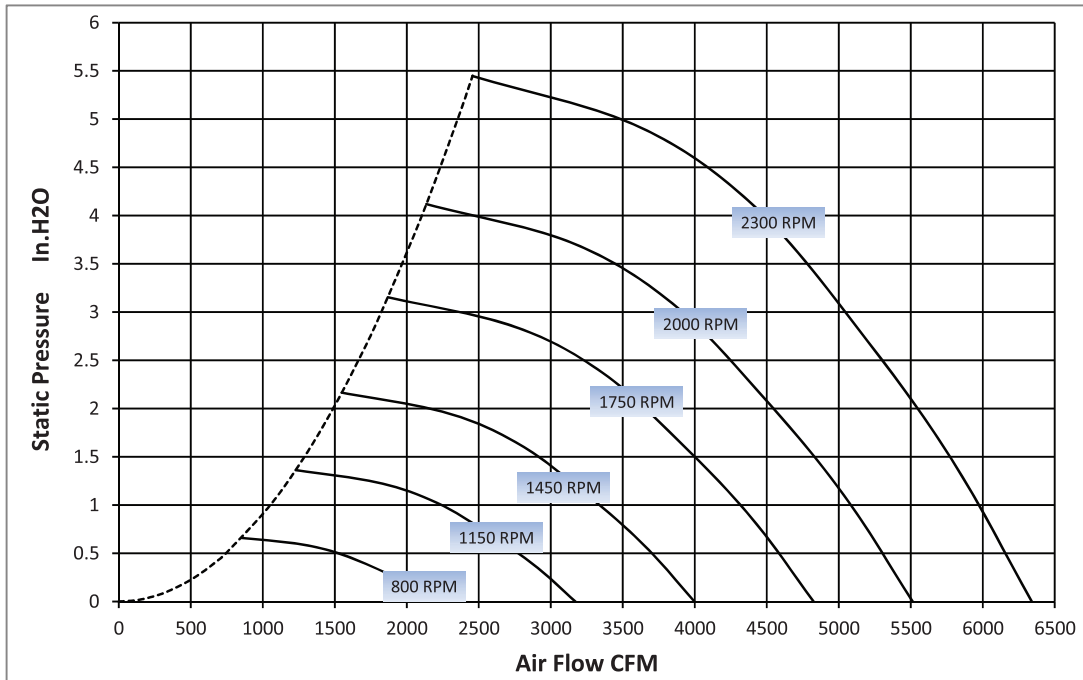
All dimensions are in mm.

HP	RPM	0.000" Pst		0.250" Pst		0.375" Pst		0.500" Pst		0.750" Pst		1.000" Pst		1.250" Pst		1.500" Pst	
		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM	
		BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
1/2	800	1855		1538		1348		1149									
		0.13	7.70	0.15	8.20	0.16	8.60	0.16	8.80								
	900	2087		1818		1652		1482		1073							
		0.19	9.20	0.21	9.20	0.22	10.30	0.22	10.50	0.22	10.70						
	950	2203		1950		1798		1638		1291							
		0.22	10.50	0.24	10.40	0.26	11.70	0.26	12.10	0.26	12.20						
3/4	1000	2319		2082		1941		1790		1477		1046					
		0.26	12.20	0.28	12.20	0.29	12.30	0.31	12.20	0.30	12.00	0.29	12.20				
	1100	2551		2340		2220		2085		1808		1504					
		0.34	13.20	0.37	13.20	0.38	13.20	0.39	13.50	0.40	12.90	0.40	12.80				
	1150	2666		2468		2353		2228		1964		1689		1332			
		0.39	14.30	0.42	14.40	0.43	14.30	0.44	14.70	0.46	14.20	0.45	13.80	0.45	14.10		
1	1200	2782		2595		2485		2370		2118		1858		1553			
		0.44	15.80	0.47	15.90	0.48	15.80	0.50	16.10	0.52	16.10	0.52	15.50	0.51	15.20		
	1300	3014		2844		2745		2643		2416		2181		1937		1638	
		0.56	19.10	0.59	19.10	0.61	19.10	0.62	19.10	0.66	17.70	0.66	16.80	0.65	16.20	0.65	16.20
	1400	3246		3088		3001		2907		2705		2489		2270		2040	
		0.69	19.50	0.73	19.50	0.75	19.50	0.76	19.50	0.80	19.00	0.83	18.40	0.82	17.80	0.81	17.30
1 1/2	1450	3362		3209		3128		3037		2847		2639		2428		2210	
		0.77	19.90	0.81	20.00	0.83	20.00	0.84	19.90	0.88	19.70	0.92	19.50	0.92	18.90	0.91	18.30
	1500	3478		3330		3254		3166		2987		2787		2583		2377	
		0.85	21.00	0.89	21.00	0.91	21.00	0.93	21.00	0.96	21.00	1.00	20.00	1.02	19.90	1.01	19.30
	1600	3710		3571		3502		3423		3258		3076		2888		2696	
		1.03	22.00	1.08	22.00	1.10	22.00	1.12	22.00	1.15	22.00	1.19	22.00	1.24	21.00	1.23	21.00
2	1700	3942		3811		3746		3677		3522		3360		3183		3004	
		1.24	23.00	1.28	23.00	1.31	23.00	1.33	23.00	1.36	23.00	1.40	23.00	1.45	23.00	1.48	23.00
	1750	4058		3931		3867		3803		3652		3500		3328		3155	
		1.35	24.00	1.40	24.00	1.42	24.00	1.44	24.00	1.48	24.00	1.52	24.00	1.57	24.00	1.62	24.00
	1800	4174		4050		3989		3927		3782		3635		3471		3304	
		1.47	24.00	1.52	24.00	1.54	24.00	1.56	25.00	1.60	24.00	1.64	24.00	1.69	25.00	1.75	25.00
3	1900	4405		4289		4230		4172		4040		3901		3754		3596	
		1.72	26.00	1.78	26.00	1.80	26.00	1.83	26.00	1.87	26.00	1.91	26.00	1.96	26.00	2.01	26.00
	2000	4637		4526		4471		4415		4295		4163		4031		3883	
		2.01	27.00	2.06	28.00	2.09	28.00	2.12	28.00	2.17	28.00	2.21	27.00	2.25	27.00	2.31	27.00
	2100	4869		4763		4711		4658		4549		4423		4297		4165	
		2.33	28.00	2.38	28.00	2.41	28.00	2.44	28.00	2.50	28.00	2.54	28.00	2.58	28.00	2.63	28.00
4	2200	5101		5000		4950		4899		4798		4680		4560		4440	
		2.67	30.00	2.73	30.00	2.76	30.00	2.79	30.00	2.85	30.00	2.90	30.00	2.95	30.00	2.99	30.00
	2300	5333		5236		5188		5140		5043		4936		4821		4706	
		3.05	32.00	3.12	32.00	3.15	32.00	3.18	32.00	3.24	32.00	3.30	32.00	3.34	32.00	3.39	32.00
	2400	5565		5472		5426		5380		5287		5189		5079		4969	
		3.47	34.00	3.53	34.00	3.57	34.00	3.60	34.00	3.67	35.00	3.73	34.00	3.78	35.00	3.83	34.00
7 1/2	2500	5797		5708		5663		5619		5530		5441		5336		5230	
		3.92	36.00	3.99	36.00	4.02	37.00	4.06	37.00	4.13	37.00	4.19	37.00	4.25	37.00	4.30	36.00

HP	RPM	2.000" Pst		2.500" Pst		3.000" Pst		3.500" Pst		4.000" Pst		4.500" Pst		5.000" Pst		5.500" Pst	
		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM	
		BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
1	1400	1402															
		0.76	17.80														
1 1/2	1450	1665															
		0.90	18.00														
	1500	1886															
		0.99	18.30														
1600	2299		1756														
	1.21	20.00	1.19	19.70													
2	1700	2638		2209													
		1.46	22.00	1.45	21.00												
	1750	2803		2423		1909											
		1.60	23.00	1.58	22.00	1.55	22.00										
1800	2964		2608		2146												
	1.75	24.00	1.72	23.00	1.72	22.00											
3	1900	3276		2947		2582		2114									
		2.06	26.00	2.04	25.00	2.02	24.00	2.00	23.00								
	2000	3581		3274		2954		2564		2092							
2.41		27.00	2.39	26.00	2.36	25.00	2.35	24.00	2.25	25.00							
4	2100	3878		3588		3290		2983		2574		2103					
		2.76	29.00	2.78	28.00	2.76	27.00	2.72	26.00	2.72	26.00	2.55	27.00				
	2200	4170		3894		3616		3326		3007		2609					
3.12		31.00	3.20	30.00	3.19	29.00	3.16	28.00	3.13	28.00	3.13	28.00					
5	2300	4457		4195		3929		3659		3379		3046		2665			
		3.51	33.00	3.65	33.00	3.65	32.00	3.63	31.00	3.59	30.00	3.57	29.00	3.57	29.00		
	2400	4740		4489		4236		3980		3717		3448		3105		2740	
3.94		35.00	4.08	36.00	4.15	35.00	4.14	33.00	4.11	32.00	4.07	31.00	4.06	31.00	4.06	31.00	
7 1/2	2500	5019		4778		4537		4292		4047		3789		3531		3182	
		4.40	37.00	4.55	38.00	4.70	37.00	4.68	36.00	4.67	34.00	4.63	33.00	4.59	32.00	4.59	32.00

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include transmission losses. The sound ratings shown are for loudness values in fan sones at 5'0' (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type B: free inlet hemispherical sones levels. Performance ratings do not include the effects of appurtenances in the airstream.

➤ UF16B



A	445
B	324
C	438
E	876
EA	32
EB	406
EC	768
F	740
FA	313
FB	427
FC	527
H	1057
HA	499
HB	559
Ø	30
KG	86

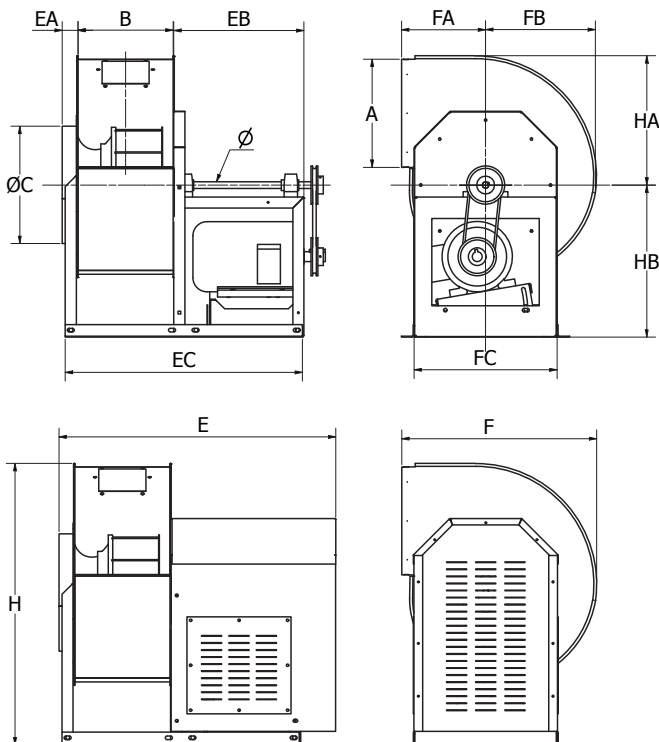
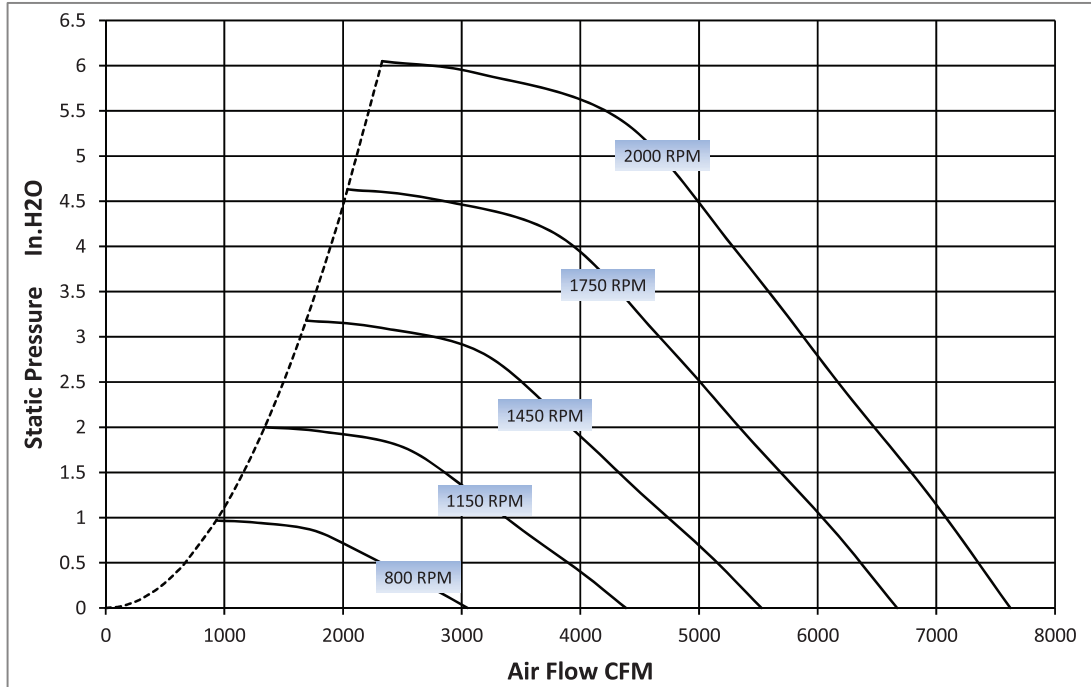
All dimensions are in mm.

HP	RPM	0.000" Pst		0.250" Pst		0.375" Pst		0.500" Pst		0.750" Pst		1.000" Pst		1.250" Pst		1.500" Pst																	
		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM																	
		BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones																
1/2	800	2205		1920		1745		1545																									
		0.17	7.78	0.19	7.28	0.19	7.16	0.20	7.02																								
	900	2481		2240		2090		1927		1460																							
		0.23	9.31	0.26	8.77	0.27	8.67	0.28	8.57	0.27	8.17																						
		2619		2395		2255		2111		1739																							
950	0.27		10.05		0.31		9.48		0.32		9.37		0.32		9.02																		
	2757		2544		2417		2282		1971		1321																						
1000	0.32		10.86		0.36		10.29		0.37		10.16		0.37		10.07		0.38		9.94		0.33		9.37										
	3033		2839		2736		2613		2352		2024		1273																				
3/4	1100	0.42		12.49		0.46		11.93		0.48		11.71		0.49		11.63		0.50		11.48		0.50		11.22		0.41		10.76					
		3170		2985		2893		2776		2536		2258		1817																			
1150	0.48		13.38		0.52		12.80		0.54		12.55		0.55		12.45		0.57		12.30		0.57		12.20		0.55		11.72						
	3308		3131		3042		2937		2711		2451		2099		1337																		
1	1200	0.55		14.28		0.59		13.68		0.61		13.41		0.62		13.30		0.64		13.16		0.65		13.01		0.64		12.71		0.52		12.41	
		3584		3420		3339		3254		3045		2826		2580		2218																	
1300	0.70		16.13		0.74		15.42		0.77		15.13		0.79		14.95		0.80		14.83		0.82		14.71		0.82		14.59		0.80		14.53		
	3860		3708		3632		3556		3372		3179		2961		2733																		
1 1/2	1400	0.87		18.15		0.92		17.32		0.94		17.07		0.97		16.82		0.99		16.65		1.01		16.49		1.02		16.38		1.03		16.54	
		3997		3851		3777		3704		3534		3347		3147		2926																	
1450	0.96		19.18		1.02		18.33		1.04		18.02		1.07		17.77		1.10		17.53		1.12		17.43		1.13		17.33		1.14		17.40		
	4135		3994		3923		3852		3693		3513		3331		3117																		
2	1500	1.07		20.20		1.12		19.40		1.15		19.01		1.17		18.75		1.21		18.43		1.23		18.30		1.25		18.20		1.26		18.33	
		4411		4278		4212		4145		4010		3840		3671		3490																	
1600	1.29		22.25		1.35		21.44		1.38		21.08		1.41		20.73		1.46		20.30		1.48		20.15		1.51		20.01		1.52		20.06		
	4687		4562		4499		4436		4311		4163		4003		3844																		
3	1700	1.55		24.29		1.61		23.56		1.64		23.19		1.67		22.82		1.73		22.14		1.77		21.97		1.79		21.87		1.81		21.93	
		4825		4703		4642		4581		4460		4322		4167		4012																	
	1750	1.69		25.38		1.75		24.63		1.78		24.28		1.82		23.92		1.88		23.22		1.92		22.90		1.94		22.81		1.97		22.84	
		4962		4844		4785		4726		4608		4480		4330		4179																	
	1800	1.84		26.43		1.90		25.65		1.94		25.29		1.97		24.95		2.03		24.26		2.08		23.86		2.11		23.78		2.13		23.69	
5238		5126		5070		5014		4902		4790		4652		4509																			
1900	2.16		28.48		2.23		27.78		2.26		27.42		2.30		27.07		2.37		26.38		2.43		25.78		2.46		25.70		2.49		25.64		
	5514		5407		5354		5301		5195		5088		4970		4834																		
4	2000	2.52		30.62		2.59		29.93		2.63		29.59		2.66		29.26		2.73		28.60		2.81		27.96		2.86		27.74		2.89		27.69	
		5789		5688		5637		5587		5486		5384		5283		5155																	
2100	2.92		32.84		2.99		32.12		3.03		31.79		3.07		31.47		3.14		30.83		3.22		30.22		3.29		29.78		3.32		29.74		
	6065		5968		5920		5872		5775		5678		5582		5473																		
5	2200	3.36		35.38		3.43		34.57		3.47		34.19		3.51		33.81		3.59		33.10		3.67		32.51		3.74		31.99		3.80		31.82	
		6341		6248		6202		6156		6063		5971		5878		5786																	
2300	3.83		38.09		3.91		37.31		3.96		36.93		4.00		36.55		4.08		35.78		4.16		35.04		4.24		34.48		4.32		34.09		

HP	RPM	2.000" Pst		2.500" Pst		3.000" Pst		3.500" Pst		4.000" Pst		4.500" Pst		5.000" Pst		5.500" Pst	
		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM	
		BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
1 1/2	1400	1708															
		0.85	16.45														
2	1450	2267															
		1.09	17.44														
2	1500	2555															
		1.23	18.38														
3	1600	3090		2300													
		1.53	20.34	1.39	20.59												
3	1700	3478		2984		1925											
		1.83	22.24	1.80	22.54	1.47	22.93										
	1750	3667		3259		2489											
		1.99	23.16	1.99	23.58	1.81	23.96										
4	1800	3854		3499		2920											
		2.17	23.88	2.17	24.32	2.10	24.69										
4	1900	4223		3886		3477		2798									
		2.54	25.54	2.55	25.74	2.53	26.12	2.36	26.50								
4	2000	4563		4263		3943		3467		2643							
		2.94	27.62	2.97	27.62	2.98	27.62	2.92	27.94	2.59	28.37						
5	2100	4897		4632		4327		4015		3493		2562					
		3.38	29.70	3.43	29.67	3.44	29.73	3.45	29.72	3.35	29.86	2.87	30.32				
5	2200	5227		4980		4704		4413		4048		3550		2546			
		3.86	31.82	3.92	31.88	3.95	31.96	3.96	32.06	3.93	32.02	3.82	31.96	3.21	32.35		
5	2300	5552		5316		5073		4795		4516		4110		3634		2586	
		4.39	34.03	4.45	34.12	4.51	34.27	4.52	34.42	4.53	34.60	4.46	34.56	4.35	34.53	3.61	34.53

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include transmission losses. The sound ratings shown are for loudness values in fan sones at 5'0' (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type B: free inlet hemispherical sones levels. Performance ratings do not include the effects of appurtenances in the airstream.

➤ **UF18B**



A	502
B	359
C	483
E	994
EA	38
EB	454
EC	851
F	822
FA	352
FB	470
FC	572
H	1159
HA	549
HB	610
Ø	30
KG	118

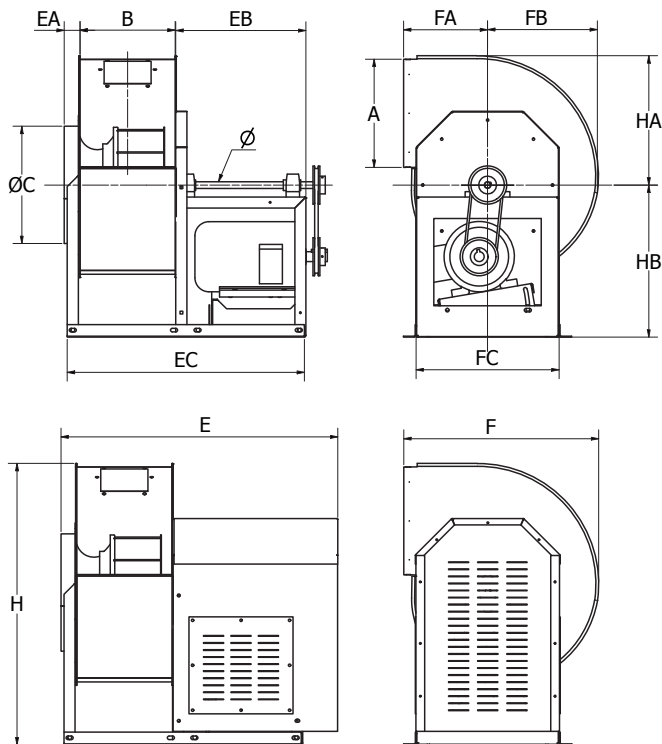
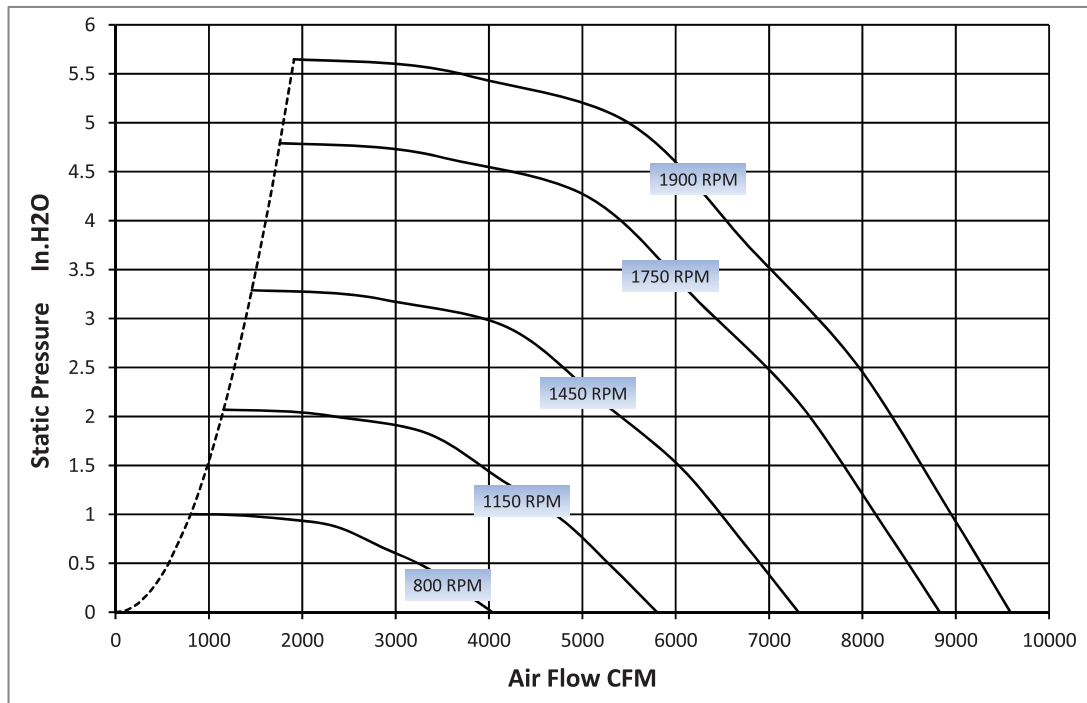
All dimensions are in mm.

HP	RPM	0.000" Pst		0.250" Pst		0.375" Pst		0.500" Pst		0.750" Pst		1.000" Pst		1.250" Pst		1.500" Pst	
		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM	
		BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
3/4	800	3049		2706		2517		2335		1953		451					
		0.34	11.92	0.35	10.58	0.36	9.98	0.37	9.36	0.38	8.17	0.21	8.49				
1	900	3430		3132		2965		2798		2477		2124		1052			
		0.48	14.06	0.49	12.90	0.50	12.36	0.51	11.81	0.53	10.56	0.54	9.52	0.40	10.11		
1	950	3621		3339		3184		3026		2719		2398		2025			
		0.56	15.31	0.58	14.08	0.59	13.54	0.60	13.00	0.61	11.87	0.63	10.78	0.63	10.32		
1	1000	3811		3543		3401		3250		2955		2665		2339		1610	
		0.65	16.52	0.67	15.25	0.68	14.75	0.69	14.24	0.71	13.14	0.73	12.10	0.74	11.12	0.65	11.65
1 1/2	1100	4192		3949		3827		3690		3416		3154		2884		2588	
		0.86	18.89	0.89	17.85	0.90	17.36	0.91	16.86	0.93	15.79	0.95	14.73	0.97	13.83	0.98	12.91
1 1/2	1150	4383		4150		4033		3907		3644		3390		3139		2864	
		0.99	20.09	1.01	19.05	1.02	18.57	1.03	18.12	1.05	17.22	1.08	16.13	1.10	15.12	1.11	14.33
2	1200	4574		4350		4239		4121		3870		3623		3383		3133	
		1.12	21.35	1.14	20.31	1.16	19.81	1.17	19.34	1.19	18.49	1.21	17.59	1.24	16.63	1.26	15.62
2	1300	1.42 23.85		1.45 22.95		1.46 22.50		1.48 22.05		1.50 21.15		1.52 20.27		1.55 19.39		1.58 18.58	
		5336	5144	5049	4953	4748	4533	4319	4113								
3	1400	1.77 26.43		1.80 25.52		1.82 25.08		1.83 24.63		1.86 23.85		1.89 23.09		1.91 22.30		1.94 21.46	
		5526	5342	5249	5157	4963	4755	4547	4346								
3	1450	1.97 27.75		2.00 26.89		2.02 26.46		2.03 26.04		2.06 25.21		2.09 24.42		2.11 23.69		2.14 22.91	
		5717	5538	5449	5360	5176	4975	4774	4577								
3	1500	2.18 29.09		2.21 28.23		2.23 27.83		2.24 27.42		2.27 26.63		2.30 25.86		2.33 25.11		2.36 24.31	
		6098	5931	5847	5763	5595	5411	5223	5034								
4	1600	2.65 31.83		2.68 31.01		2.70 30.61		2.71 30.22		2.74 29.43		2.78 28.69		2.81 27.98		2.84 27.28	
		6479	6322	6243	6164	6006	5841	5663	5486								
4	1700	3.17 34.81		3.21 33.98		3.23 33.57		3.24 33.18		3.28 32.41		3.31 31.66		3.34 30.94		3.37 30.24	
		6670	6517	6440	6363	6210	6054	5881	5709								
5	1750	3.46 36.39		3.50 35.55		3.52 35.15		3.53 34.75		3.57 33.96		3.60 33.23		3.64 32.51		3.67 31.79	
		6860	6711	6637	6563	6414	6265	6098	5930								
5	1800	3.77 37.99		3.80 37.15		3.82 36.75		3.84 36.35		3.88 35.59		3.91 34.83		3.95 34.11		3.98 33.40	
		7242	7100	7030	6959	6818	6677	6527	6369								
7 1/2	1900	4.43 41.24		4.47 40.45		4.49 40.05		4.51 39.66		4.55 38.89		4.58 38.14		4.62 37.41		4.66 36.71	
		7623	7489	7422	7355	7221	7087	6952	6801								
7 1/2	2000	5.17 44.68		5.21 43.87		5.23 43.48		5.25 43.08		5.29 42.31		5.33 41.56		5.37 40.84		5.41 40.13	

HP	RPM	2.000" Pst		2.500" Pst		3.000" Pst		3.500" Pst		4.000" Pst		4.500" Pst		5.000" Pst		5.500" Pst	
		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM	
		BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
1 1/2	1150	1758															
		0.96	14.55														
2	1200	2537															
		1.26	14.78														
2	1300	3154		2215													
		1.61	17.00	1.45	17.46												
3	1400	3694		3229		1842											
		1.99	19.90	2.02	18.48	1.59	20.06										
3	1450	3948		3507		2816											
		2.20	21.35	2.23	19.97	2.13	20.25										
3	1500	4192		3781		3346											
		2.42	22.85	2.46	21.44	2.49	20.50										
4	1600	4671		4310		3906		3499									
		2.90	25.79	2.96	24.42	2.99	23.14	3.02	23.01								
4	1700	5138		4798		4447		4063		3631							
		3.44	28.83	3.51	27.48	3.57	26.17	3.60	25.18	3.59	25.47						
5	1750	5368		5038		4707		4338		3966		3061					
		3.74	30.41	3.81	29.07	3.88	27.81	3.91	26.60	3.94	25.82	3.58	27.73				
5	1800	5595		5274		4954		4609		4247		3806		2104			
		4.05	32.03	4.12	30.66	4.19	29.43	4.24	28.24	4.27	27.28	4.24	27.80	3.18	29.97		
7 1/2	1900	6051		5741		5437		5133		4797		4453		4050		2656	
		4.73	35.37	4.80	34.00	4.88	32.70	4.96	31.51	5.00	30.44	5.03	29.52	5.01	30.05	4.10	32.13
7 1/2	2000	6500		6199		5910		5622		5331		5005		4679		4353	
		5.48	38.78	5.56	37.48	5.64	36.19	5.72	34.94	5.80	33.81	5.83	32.74	5.86	31.82	5.90	32.28

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include transmission losses. The sound ratings shown are for loudness values in fan sones at 5'0' (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type B: free inlet hemispherical sones levels. Performance ratings do not include the effects of appurtenances in the airstream.

➤ **UF20B**



A	553
B	375
C	521
E	1137
EA	38
EB	508
EC	921
F	868
FA	376
FB	492
FC	616
H	1239
HA	592
HB	648
Ø	30
KG	135

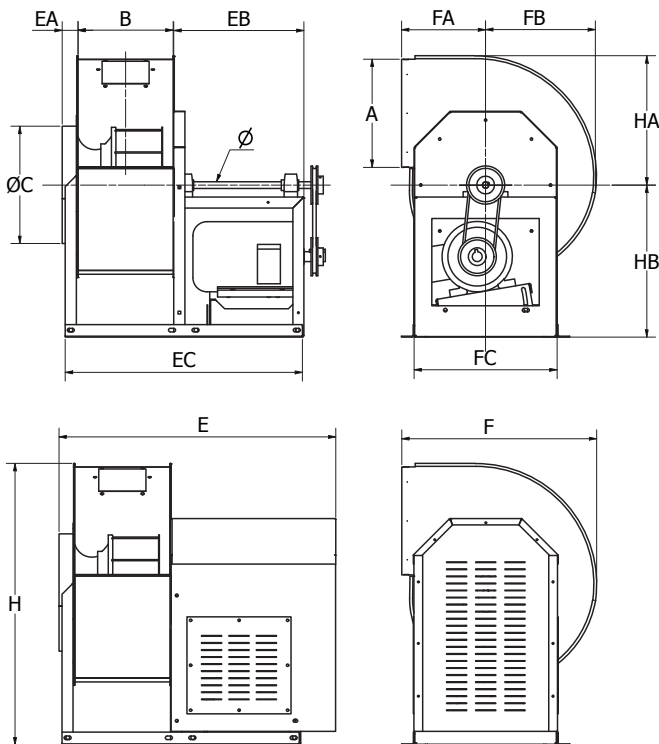
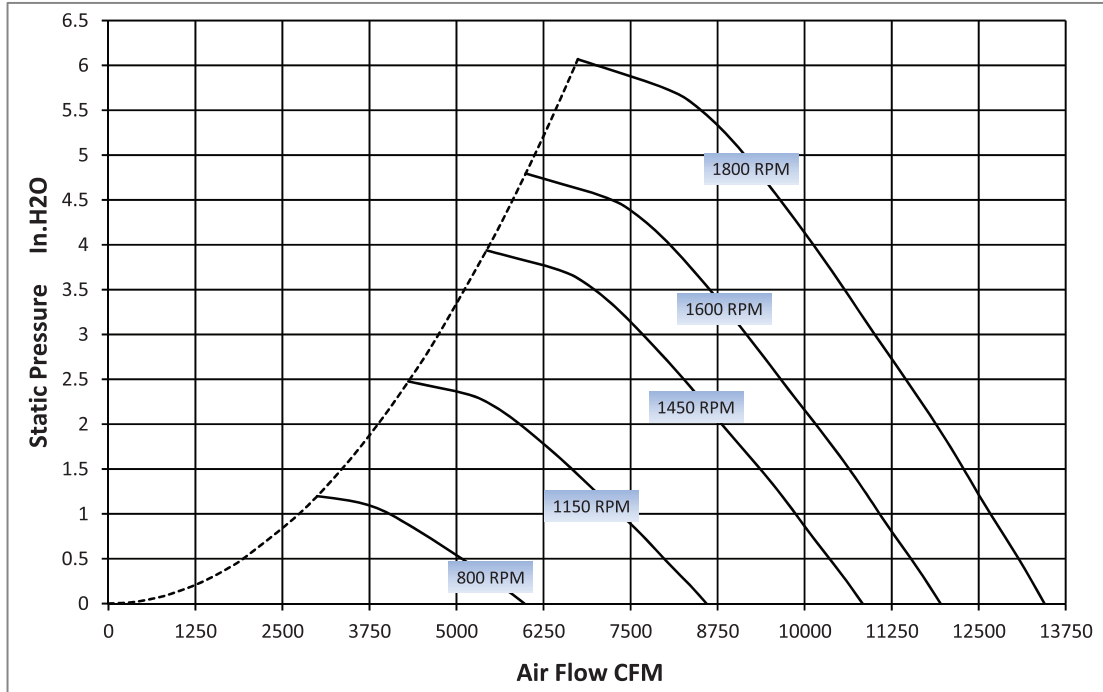
All dimensions are in mm.

HP	RPM	0.000" Pst		0.250" Pst		0.375" Pst		0.500" Pst		0.625" Pst		0.750" Pst		1.000" Pst		1.250" Pst	
		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM	
		BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
1	800	4036		3658		3458		3228		2942		2646		802			
	900	0.42	11.92	0.46	10.58	0.47	9.98	0.48	9.36	0.49	8.73	0.49	8.17	0.31	8.49		
		4541		4206		4032		3855		3647		3393		2869		875	
1 1/2	1000	0.59	14.06	0.64	12.90	0.66	12.36	0.67	11.81	0.69	11.19	0.69	10.56	0.69	9.52	0.43	10.11
		4793		4476		4313		4146		3978		3747		3258		2734	
	950	0.69	15.31	0.74	14.08	0.76	13.54	0.78	13.00	0.80	12.45	0.81	11.87	0.82	10.78	0.80	10.32
2	1100	5045		4744		4592		4433		4273		4092		3635		3158	
		0.81	16.52	0.86	15.25	0.88	14.75	0.90	14.24	0.92	13.70	0.94	13.14	0.95	12.10	0.95	11.12
	1150	1.07	18.89	1.13	17.85	1.16	17.36	1.18	16.86	1.20	16.30	1.23	15.79	1.26	14.73	1.27	13.83
3	1200	5802		5540		5409		5276		5138		4999		4693		4295	
		1.22	20.09	1.28	19.05	1.31	18.57	1.34	18.12	1.36	17.67	1.39	17.22	1.43	16.13	1.44	15.12
	1300	1.39	21.35	1.45	20.31	1.48	19.81	1.51	19.34	1.54	18.90	1.56	18.49	1.61	17.59	1.63	16.63
4	1400	6054		5803		5678		5552		5420		5287		5022		4651	
		1.77	23.85	1.83	22.95	1.86	22.50	1.90	22.05	1.93	21.60	1.96	21.15	2.01	20.27	2.06	19.39
	1450	2.20	26.43	2.27	25.52	2.31	25.08	2.35	24.63	2.38	24.23	2.42	23.85	2.47	23.09	2.53	22.30
5	1500	7315		7108		7004		6900		6796		6692		6472		6253	
		2.45	27.75	2.52	26.89	2.56	26.46	2.60	26.04	2.63	25.63	2.67	25.21	2.73	24.42	2.79	23.69
	1600	2.71	29.09	2.79	28.23	2.82	27.83	2.86	27.42	2.90	27.02	2.94	26.63	3.01	25.86	3.07	25.11
7 1/2	1700	8072		7884		7790		7696		7602		7508		7315		7116	
		3.29	31.83	3.37	31.01	3.41	30.61	3.45	30.22	3.49	29.82	3.53	29.43	3.61	28.69	3.68	27.98
	1800	3.94	34.81	4.03	33.98	4.07	33.57	4.11	33.18	4.16	32.79	4.20	32.41	4.29	31.66	4.36	30.94
10	1900	8829		8657		8571		8485		8399		8313		8141		7962	
		4.30	36.39	4.39	35.55	4.43	35.15	4.48	34.75	4.52	34.35	4.57	33.96	4.66	33.23	4.74	32.51
	2000	4.68	37.99	4.77	37.15	4.82	36.75	4.86	36.35	4.91	35.96	4.95	35.59	5.05	34.83	5.13	34.11

HP	RPM	1.500" Pst		2.000" Pst		2.500" Pst		3.000" Pst		3.500" Pst		4.000" Pst		4.500" Pst		5.000" Pst	
		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM	
		BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
1 1/2	1000	2123															
	1100	0.83	11.65														
2	1150	3495															
		1.26	12.91														
	1200	3887		2333													
3	1300	1.44	14.33	1.23	14.55												
		4269		3424													
	1400	1.64	15.62	1.61	14.78												
4	1450	4992		4271		2936											
		2.08	18.58	2.08	17.00	1.86	17.46										
	1500	2.58	21.46	2.61	19.90	2.59	18.48	1.44	20.06								
5	1600	6031		5400		4748		3775									
		2.85	22.91	2.89	21.35	2.88	19.97	2.73	20.25								
	1700	3.13	24.31	3.19	22.85	3.20	21.44	3.17	20.50	1.95	22.72						
7 1/2	1750	6917		6456		5884		5292		4693		1603					
		3.74	27.28	3.84	25.79	3.88	24.42	3.87	23.14	3.84	23.01	2.46	25.34				
	1800	4.43	30.24	4.58	28.83	4.63	27.48	4.66	26.17	4.64	25.18	4.59	25.47	2.86	27.79		
10	1900	7780		7416		6949		6426		5886		5338		4067			
		4.81	31.79	4.96	30.41	5.04	29.07	5.08	27.81	5.07	26.60	5.04	25.82	4.57	27.73		
	2000	5.21	33.40	5.36	32.03	5.47	30.66	5.51	29.43	5.53	28.24	5.50	27.28	5.42	27.80	3.39	29.97

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include transmission losses. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type B: free inlet hemispherical sones levels. Performance ratings do not include the effects of appurtenances in the airstream.

➤ **UF22B**



A	595
B	432
C	610
E	1194
EA	38
EB	508
EC	978
F	963
FA	408
FB	555
FC	711
H	1380
HA	649
HB	730
Ø	30
KG	151

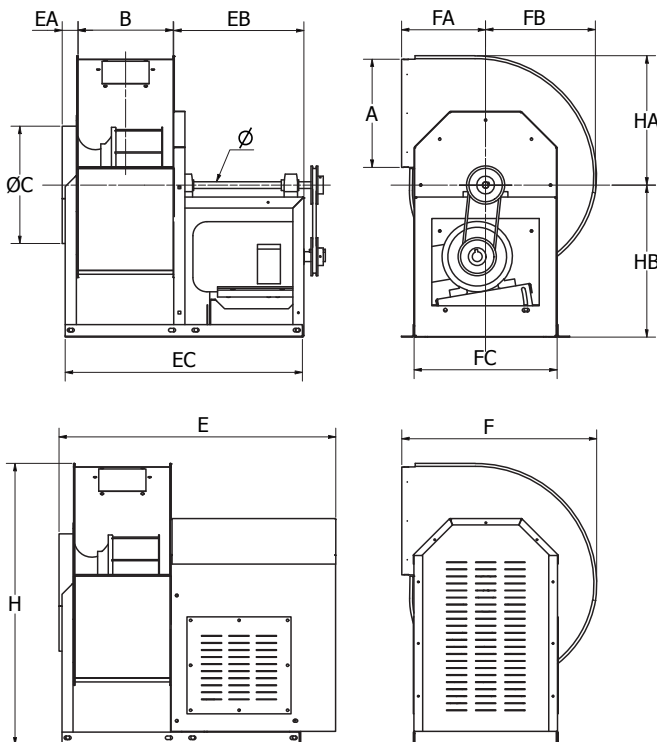
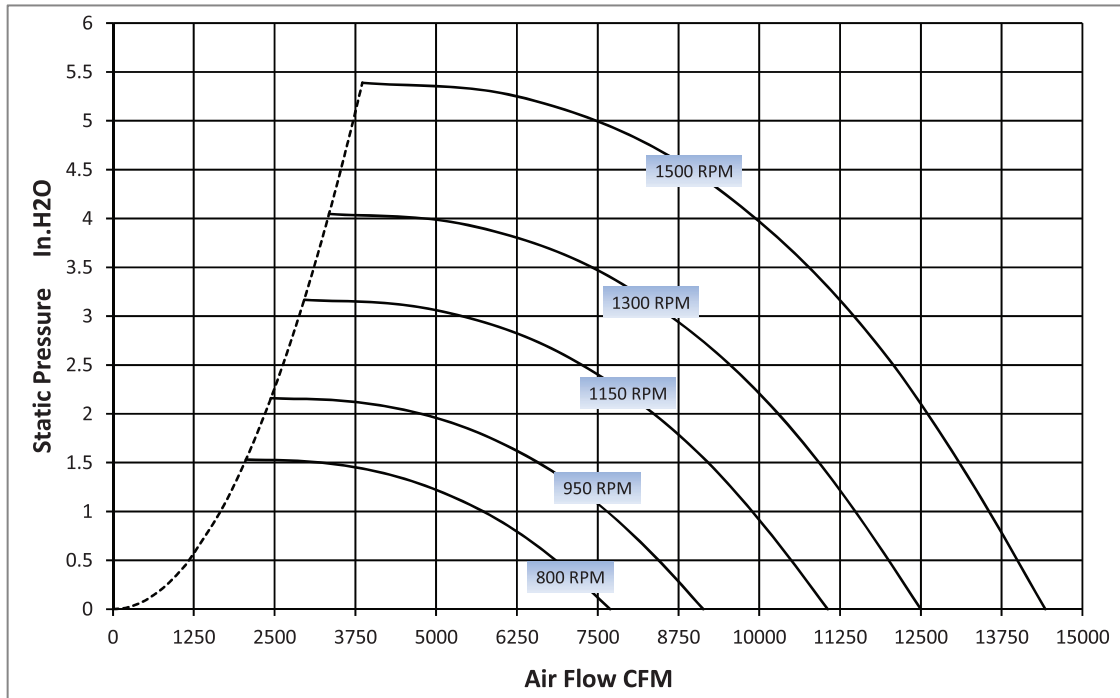
All dimensions are in mm.

HP	RPM	0.000" Pst		0.250" Pst		0.375" Pst		0.500" Pst		0.750" Pst		1.000" Pst		1.250" Pst		1.500" Pst	
		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM	
		BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
1 1/2	800	5976		5538		5318		5076		4580		4030					
		0.83	13.70	0.91	13.70	0.94	13.70	0.97	13.60	1.01	13.20	1.02	12.50				
2	900	6723		6334		6139		5943		5503		5063		4569		3503	
		1.19	17.10	1.27	17.00	1.31	17.10	1.35	17.00	1.39	16.70	1.44	16.00	1.45	15.50	1.36	14.20
3	950	7096		6730		6543		6358		5952		5535		5090		4567	
		1.39	18.90	1.48	18.90	1.52	18.90	1.56	18.90	1.62	18.60	1.67	18.10	1.70	17.40	1.70	16.80
4	1000	7469		7124		6945		6769		6394		5997		5598		5154	
		1.63	21.00	1.72	20.00	1.76	20.00	1.80	20.00	1.87	20.00	1.93	19.70	1.98	19.10	1.99	18.50
5	1100	8216		7906		7740		7580		7260		6900		6539		6178	
		2.16	24.00	2.27	24.00	2.31	24.00	2.36	24.00	2.46	23.00	2.51	23.00	2.57	22.00	2.63	21.00
6	1150	8590		8295		8136		7981		7675		7342		6997		6652	
		2.47	26.00	2.59	26.00	2.63	25.00	2.67	25.00	2.78	25.00	2.85	25.00	2.91	24.00	2.97	23.00
7	1200	8963		8683		8530		8380		8087		7779		7448		7117	
		2.81	27.00	2.93	27.00	2.97	27.00	3.02	27.00	3.13	27.00	3.22	27.00	3.28	26.00	3.34	26.00
8	1300	9710		9454		9315		9174		8902		8632		8334		8028	
		3.57	30.00	3.71	30.00	3.75	30.00	3.80	30.00	3.91	30.00	4.03	29.00	4.11	29.00	4.17	28.00
9	1400	10457		10219		10094		9963		9707		9456		9201		8918	
		4.45	33.00	4.60	33.00	4.67	32.00	4.71	32.00	4.82	32.00	4.95	32.00	5.07	32.00	5.14	32.00
10	1450	10831		10601		10482		10356		10107		9864		9622		9355	
		4.95	34.00	5.10	34.00	5.17	34.00	5.22	34.00	5.33	34.00	5.46	34.00	5.59	34.00	5.68	33.00
11	1500	11204		10982		10869		10747		10505		10270		10036		9789	
		5.47	35.00	5.64	35.00	5.71	35.00	5.76	35.00	5.87	35.00	6.01	35.00	6.14	35.00	6.26	44.00
12	1600	11951		11743		11639		11527		11298		11076		10856		10637	
		6.64	38.00	6.82	38.00	6.90	38.00	6.97	38.00	7.07	38.00	7.21	38.00	7.36	38.00	7.50	38.00
13	1700	12698		12502		12404		12302		12087		11875		11668		11461	
		7.97	41.00	8.15	41.00	8.24	41.00	8.32	41.00	8.44	41.00	8.57	41.00	8.72	41.00	8.88	41.00
14	1750	13072		12881		12786		12689		12480		12272		12071		11870	
		8.69	43.00	8.88	43.00	8.98	43.00	9.07	43.00	9.18	43.00	9.31	43.00	9.47	43.00	9.63	43.00
15	1800	13445		13260		13167		13075		12872		12668		12473		12278	
		9.46	45.00	9.65	45.00	9.75	45.00	9.85	45.00	9.97	45.00	10.09	45.00	10.26	45.00	10.42	45.00

HP	RPM	2.000" Pst		2.500" Pst		3.000" Pst		3.500" Pst		4.000" Pst		4.500" Pst		5.000" Pst		5.500" Pst	
		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM	
		Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
3	1100	5311															
		2.63	20.00														
4	1150	5902															
		3.03	22.00														
5	1200	6422		5501													
		3.43	25.00	3.38	24.00												
6	1300	7418		6748		5752											
		4.32	27.00	4.37	27.00	4.27	26.00										
7	1400	8351		7774		7139		6091									
		5.29	31.00	5.43	30.00	5.46	29.00	5.30	29.00								
8	1450	8808		8261		7662		6961									
		5.83	33.00	5.99	32.00	6.05	32.00	6.02	31.00								
9	1500	9260		8732		8175		7580		6609							
		6.41	34.00	6.57	34.00	6.69	34.00	6.72	33.00	6.54	33.00						
10	1600	10151		9655		9159		8624		8060		7201					
		7.69	37.00	7.86	37.00	8.03	36.00	8.12	36.00	8.15	36.00	7.98	35.00				
11	1700	11026		10559		10093		9626		9112		8585		7833			
		9.13	41.00	9.30	40.00	9.49	40.00	9.68	40.00	9.74	40.00	9.77	40.00	9.62	39.00		
12	1750	11459		11005		10552		10099		9623		9115		8531		7490	
		9.92	43.00	10.10	43.00	10.28	42.00	10.48	42.00	10.61	42.00	10.65	42.00	10.60	42.00	10.28	42.00
13	1800	11887		11448		11007		10566		10125		9633		9139		8505	
		10.74	45.00	10.93	45.00	11.12	45.00	11.32	45.00	11.52	45.00	11.56	45.00	11.60	45.00	11.47	45.00

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include transmission losses. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type B: free inlet hemispherical sones levels. Performance ratings do not include the effects of appurtenances in the airstream.

➤ **UF24B**



A	660
B	483
C	635
E	1244
EA	35
EB	508
EC	1028
F	1046
FA	438
FB	608
FC	737
H	1513
HA	713
HB	800
Ø	36.5
KG	205

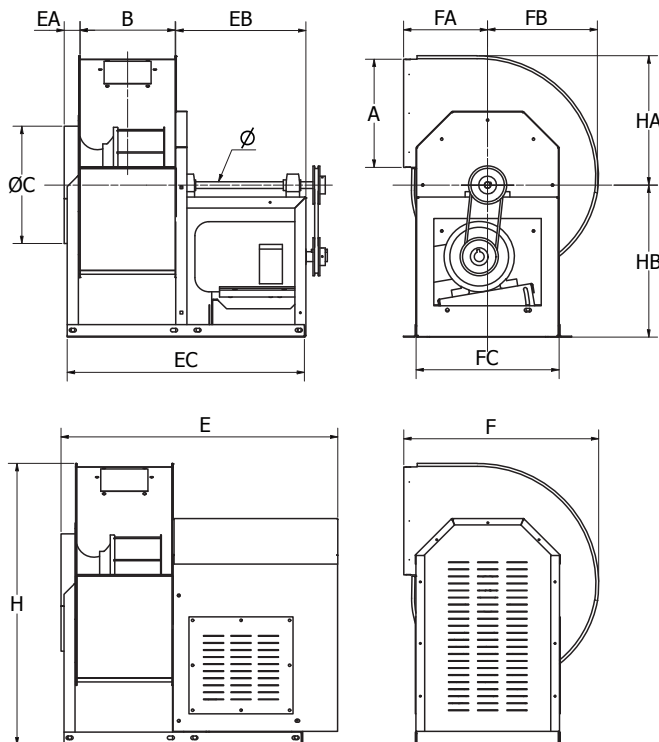
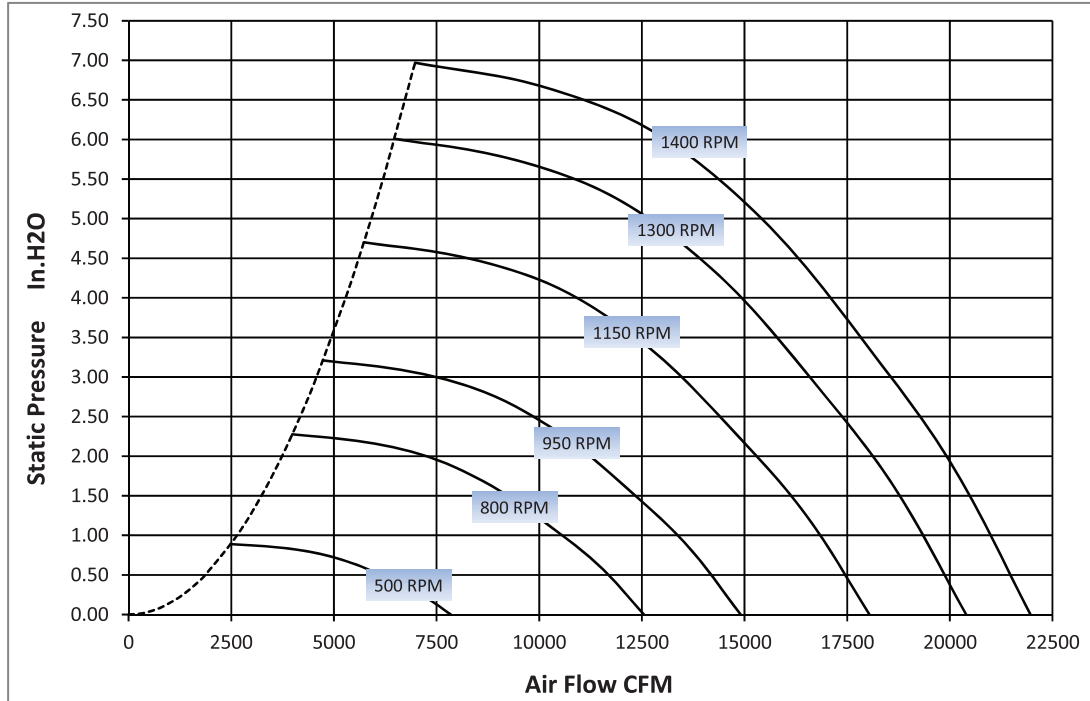
All dimensions are in mm.

HP	RPM	0.000" Pst		0.250" Pst		0.375" Pst		0.500" Pst		0.750" Pst		1.000" Pst		1.250" Pst		1.500" Pst	
		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM	
		BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
2	800	7693		7289		7087		6853		6383		5754		4928		3493	
		1.16	16.71	1.25	15.70	1.30	15.26	1.33	14.81	1.40	13.95	1.43	13.35	1.38	12.78	1.21	16.08
3	850	8174		7794		7604		7396		6953		6424		5815		4917	
		1.39	18.25	1.49	17.32	1.54	16.87	1.58	16.42	1.65	15.58	1.70	14.90	1.72	14.28	1.62	14.07
4	900	8655		8296		8116		7932		7514		7077		6508		5822	
		1.65	19.87	1.75	18.92	1.81	18.48	1.86	18.06	1.93	17.24	2.00	16.49	2.03	15.91	2.00	15.35
5	950	9136		8795		8625		8455		8067		7671		7178		6639	
		1.94	21.57	2.05	20.42	2.11	20.05	2.16	19.68	2.24	18.90	2.32	18.13	2.37	17.54	2.40	16.95
6	1000	9616		9293		9132		8970		8614		8238		7832		7320	
		2.26	23.33	2.38	22.29	2.44	21.81	2.49	21.39	2.59	20.51	2.67	19.77	2.74	19.13	2.78	18.53
7	1050	10097		9789		9635		9482		9155		8796		8438		7986	
		2.61	25.10	2.74	24.08	2.80	23.61	2.86	23.13	2.97	22.35	3.06	21.58	3.14	20.82	3.19	20.28
8	1100	10578		10284		10137		9990		9691		9349		9007		8639	
		3.00	26.98	3.13	25.96	3.20	25.46	3.26	24.98	3.39	24.10	3.48	23.37	3.57	22.66	3.64	22.02
9	1150	11059		10778		10637		10497		10216		9895		9568		9241	
		3.43	28.85	3.57	27.90	3.63	27.43	3.70	26.96	3.84	26.03	3.94	25.17	4.03	24.44	4.12	23.77
10	1200	11540		11270		11136		11001		10732		10437		10123		9810	
		3.90	30.78	4.04	29.83	4.11	29.36	4.18	28.92	4.32	28.04	4.44	27.18	4.54	26.35	4.63	25.64
11	1250	12021		11762		11633		11503		11245		10974		10673		10372	
		4.40	32.88	4.55	31.87	4.63	31.38	4.70	30.92	4.85	30.04	4.98	29.19	5.09	28.39	5.19	27.59
12	1300	12501		12253		12128		12004		11755		11507		11218		10929	
		4.95	35.12	5.11	34.10	5.18	33.61	5.26	33.11	5.42	32.18	5.57	31.28	5.68	30.45	5.78	29.65
13	1350	12982		12743		12623		12503		12264		12024		11759		11480	
		5.54	37.39	5.70	36.41	5.79	35.93	5.87	35.45	6.03	34.50	6.19	33.57	6.31	32.68	6.42	31.84
14	1400	13463		13232		13117		13001		12770		12539		12296		12027	
		6.18	39.65	6.35	38.73	6.43	38.27	6.52	37.80	6.68	36.89	6.85	35.98	7.00	35.09	7.11	34.22
15	1450	13944		13721		13609		13498		13275		13052		12829		12570	
		6.87	42.10	7.04	41.12	7.13	40.63	7.21	40.15	7.39	39.26	7.56	38.40	7.73	37.55	7.85	36.70
16	1500	14425		14209		14101		13994		13778		13563		13347		13109	
		7.60	44.52	7.78	43.50	7.87	43.03	7.96	42.56	8.14	41.64	8.32	40.73	8.50	39.86	8.64	39.06

HP	RPM	2.000" Pst		2.500" Pst		3.000" Pst		3.500" Pst		4.000" Pst		4.500" Pst		5.000" Pst		5.500" Pst	
		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM	
		BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
3	950	4899															
		2.16	18.48														
4	1000	6017															
		2.67	17.56														
5	1050	6914		5080													
		3.20	19.24	2.84	22.33												
6	1100	7707		6397													
		3.72	20.94	3.51	20.19												
7	1150	8389		7304		5557											
		4.22	22.68	4.14	21.69	3.73	25.45										
8	1200	9057		8187		6915		2571									
		4.77	24.48	4.83	23.47	4.55	23.20	2.94	31.21								
9	1250	9713		8894		7827		6261									
		5.36	26.34	5.44	25.29	5.29	24.30	4.86	27.93								
10	1300	10350		9571		8714		7541		5490							
		5.99	28.24	6.09	27.17	6.10	26.16	5.79	25.68	5.11	33.16						
11	1350	10923		10237		9478		8451		7140							
		6.64	30.27	6.78	29.07	6.87	28.06	6.66	27.09	6.26	30.00						
12	1400	11490		10892		10160		9339		8250		6527					
		7.34	32.56	7.52	31.14	7.62	29.98	7.61	29.01	7.27	28.07	6.63	34.72				
13	1450	12051		11532		10831		10125		9156		8104		6022			
		8.08	35.03	8.32	33.46	8.42	32.13	8.52	30.98	8.28	29.99	7.93	31.75	7.04	39.51		
14	1500	12607		12106		11492		10809		10043		9026		7678		3460	
		8.88	37.47	9.12	35.90	9.28	34.50	9.38	33.19	9.37	32.08	9.01	31.12	8.46	36.00	5.94	44.60

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include transmission losses. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type B: free inlet hemispherical sones levels. Performance ratings do not include the effects of appurtenances in the airstream.

➤ **UF30B**



A	805
B	587
C	800
E	1524
EA	45
EB	635
EC	1289
F	1308
FA	554
FB	754
FC	938
H	1849
HA	884
HB	965
Ø	42.8
KG	390

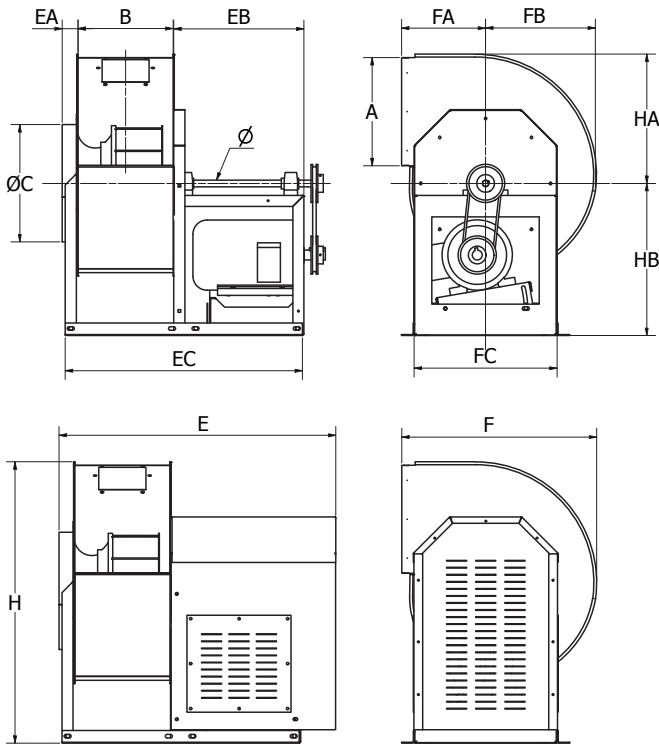
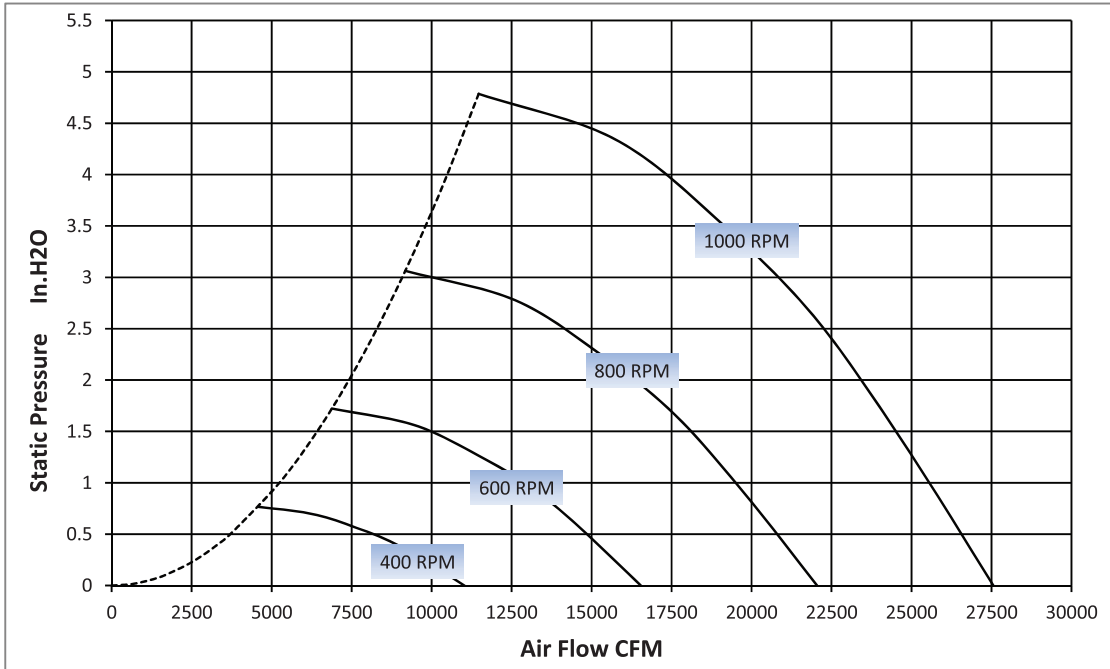
All dimensions are in mm.

HP	RPM	0.000" Pst		0.250" Pst		0.500" Pst		0.750" Pst		1.000" Pst		1.250" Pst		1.500" Pst		2.000" Pst	
		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM	
		BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
2	500	7845		7146		6174		4856									
		0.65	9.86	0.75	8.49	0.82	7.64	0.83	7.73								
	550	8629		8000		7183		6216		4545							
		0.86	11.50	0.98	10.10	1.06	9.21	1.11	8.48	1.04	9.48						
	600	9414		8837		8135		7299		6258		4309					
		1.11	13.27	1.24	11.86	1.35	10.93	1.41	10.12	1.43	10.15	1.28	11.26				
3	650	10198		9666		9065		8339		7506		6400		3974			
		1.41	15.13	1.55	13.78	1.68	12.77	1.77	11.94	1.81	11.24	1.81	11.92	1.49	13.11		
	700	10983		10488		9977		9304		8581		7802		6660			
		1.76	16.96	1.92	15.64	2.06	14.70	2.16	13.93	2.23	13.16	2.28	12.75	2.25	13.77		
4	750	11767		11306		10844		10247		9619		8897		8092		4529	
		2.17	18.78	2.33	17.68	2.50	16.69	2.61	15.86	2.71	15.13	2.77	14.48	2.80	14.56	2.28	16.81
	800	12552		12119		11686		11174		10585		9960		9278		7446	
		2.63	20.88	2.80	19.81	2.98	18.82	3.12	17.94	3.23	17.23	3.32	16.52	3.37	15.83	3.35	17.46
5	850	13336		12929		12521		12087		11532		10978		10354		8892	
		3.15	22.92	3.34	21.76	3.52	20.84	3.70	20.03	3.81	19.35	3.93	18.62	4.00	17.87	4.06	18.04
7 1/2	900	14121		13736		13351		12966		12464		11940		11403		10191	
		3.74	25.00	3.94	23.88	4.14	22.92	4.33	22.02	4.47	21.32	4.59	20.68	4.70	20.05	4.83	18.92
	950	14905		14541		14176		13812		13383		12887		12391		11282	
		4.40	27.15	4.61	26.04	4.81	25.11	5.02	24.21	5.19	23.45	5.32	22.77	5.45	22.11	5.62	20.91
10	1000	15690		15343		14997		14651		14291		13820		13349		12347	
		5.13	29.37	5.35	28.31	5.57	27.34	5.79	26.42	6.00	25.60	6.14	24.97	6.27	24.33	6.49	23.09
	1050	16474		16144		15815		15485		15155		14741		14292		13391	
		5.93	31.63	6.16	30.59	6.40	29.64	6.63	28.75	6.86	27.88	7.03	27.20	7.17	26.54	7.45	25.33
15	1100	17259		16944		16629		16314		15999		15652		15223		14366	
		6.82	34.03	7.06	32.99	7.31	32.01	7.55	31.08	7.79	30.22	8.01	29.48	8.16	28.87	8.46	27.65
	1150	18043		17742		17441		17140		16839		16538		16144		15324	
		7.79	36.66	8.05	35.59	8.30	34.55	8.55	33.61	8.81	32.69	9.06	31.83	9.23	31.19	9.54	30.01
	1200	18828		18539		18251		17962		17673		17385		17055		16270	
		8.85	39.41	9.12	38.38	9.38	37.36	9.65	36.37	9.91	35.40	10.18	34.49	10.40	33.75	10.73	32.50
20	1250	19612		19335		19058		18781		18504		18227		17950		17204	
		10.01	42.15	10.28	41.17	10.56	40.22	10.83	39.27	11.11	38.34	11.39	37.42	11.66	36.56	12.01	35.21
	1300	20397		20130		19864		19598		19331		19065		18798		18129	
		11.26	45.07	11.54	44.03	11.83	43.04	12.12	42.11	12.40	41.23	12.69	40.37	12.98	39.50	13.39	38.15
	1350	21181		20925		20668		20412		20155		19899		19642		19045	
		12.60	48.10	12.90	47.05	13.20	46.10	13.50	45.16	13.80	44.24	14.09	43.33	14.39	42.45	14.88	41.05
25	1400	21966		21718		21471		21224		20976		20729		20482		19954	
		14.06	51.25	14.37	50.17	14.67	49.21	14.98	48.29	15.29	47.40	15.60	46.50	15.91	45.64	16.48	44.11

HP	RPM	2.500" Pst		3.000" Pst		3.500" Pst		4.000" Pst		4.500" Pst		5.000" Pst		5.500" Pst		6.000" Pst	
		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM	
		BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
5	850	6171															
		3.65	20.26														
7 1/2	900	8489															
		4.78	20.84														
	950	9932		7737													
		5.67	21.47	5.33	23.62												
10	1000	11257		9712		6834											
		6.63	22.19	6.57	24.14	5.76	26.44										
	1050	12352		11144		9571		5249									
		7.60	24.18	7.66	24.82	7.55	26.87	5.68	29.46								
15	1100	13423		12432		11065		9089									
		8.66	26.44	8.81	25.55	8.77	27.44	8.32	29.59								
	1150	14474		13526		12483		11077		8779							
		9.82	28.87	9.98	27.75	10.08	28.15	9.98	30.11	9.20	32.44						
	1200	15484		14599		13690		12516		11170		8618					
		11.05	31.32	11.25	30.23	11.41	29.17	11.41	30.73	11.31	32.74	10.21	35.62				
20	1250	16450		15652		14780		13907		12625		11188		8185			
		12.35	33.96	12.63	32.79	12.80	31.70	12.97	31.55	12.87	33.33	12.63	35.53	10.98	38.80		
	1300	17404		16679		15850		15011		14043		12800		11176		7948	
		13.75	36.87	14.10	35.63	14.29	34.44	14.47	33.32	14.56	34.26	14.44	36.20	13.96	38.61	11.91	41.94
	1350	18347		17649		16903		16095		15287		14231		13033		11275	
		15.25	39.83	15.62	38.62	15.91	37.43	16.09	36.27	16.27	35.31	16.27	37.13	16.15	39.16	15.44	41.64
25	1400	19281		18607		17934		17162		16382		15603		14474		13320	
		16.86	42.81	17.24	41.58	17.62	40.44	17.83	39.31	18.02	38.20	18.21	38.20	18.11	40.06	17.99	42.08

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include transmission losses. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type B: free inlet hemispherical sones levels. Performance ratings do not include the effects of appurtenances in the airstream.

➤ **UF36B**



A	976
B	718
C	1045
E	1654
EA	45
EB	635
EC	1410
F	1510
FA	657
FB	853
FC	1137
H	2097
HA	980
HB	1118
Ø	50.8
KG	550

All dimensions are in mm.

HP	RPM	0.000" Pst		0.125" Pst		0.250" Pst		0.375" Pst		0.500" Pst		0.625" Pst		0.750" Pst		1.000" Pst	
		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM	
		BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
3	400	11024		10406		9768		9077		8213		7132		5332			
		0.81	14.76	0.88	13.32	0.95	12.10	1.00	11.22	1.04	10.41	1.05	10.06	0.96	9.97		
4	450	12402		11853		11304		10701		10087		9294		8385		1240	
		1.15	17.66	1.23	16.30	1.31	15.09	1.37	14.19	1.44	13.32	1.48	12.50	1.50	12.06	0.70	11.99
5	500	13780		13286		12792		12279		11726		11173		10460		8729	
		1.57	20.43	1.66	19.23	1.75	18.09	1.83	17.07	1.90	16.26	1.97	15.50	2.02	14.77	2.04	14.16
7 1/2	550	15158		14709		14259		13810		13321		12818		12316		10984	
		2.09	23.24	2.19	22.05	2.28	20.97	2.38	19.92	2.47	19.16	2.54	18.40	2.62	17.69	2.71	16.31
10	600	16536		16124		15712		15300		14882		14422		13961		12966	
		2.71	26.17	2.82	25.06	2.92	24.02	3.03	23.04	3.14	22.11	3.22	21.31	3.31	20.60	3.46	19.35
15	650	17914		17534		17154		16773		16393		15993		15567		14716	
		3.44	29.37	3.56	28.23	3.68	27.14	3.79	26.10	3.91	25.17	4.01	24.43	4.11	23.78	4.29	22.50
20	700	19292		18939		18586		18233		17880		17527		17143		16353	
		4.30	32.59	4.42	31.57	4.55	30.56	4.68	29.56	4.80	28.56	4.93	27.62	5.03	26.92	5.23	25.61
30	750	20670		20341		20011		19682		19352		19023		18693		17958	
		5.28	36.01	5.42	34.96	5.55	33.92	5.69	32.99	5.82	32.08	5.96	31.19	6.09	30.37	6.31	29.05
40	800	22048		21739		21430		21121		20812		20503		20195		19536	
		6.41	39.51	6.56	38.50	6.70	37.55	6.84	36.60	6.99	35.68	7.13	34.77	7.28	33.89	7.53	32.54
50	850	23426		23135		22845		22554		22263		21972		21682		21092	
		7.69	43.35	7.84	42.33	8.00	41.31	8.15	40.36	8.30	39.43	8.45	38.52	8.61	37.67	8.91	36.14
60	900	24804		24529		24255		23980		23706		23431		23157		22607	
		9.13	47.34	9.29	46.36	9.45	45.38	9.61	44.42	9.78	43.49	9.94	42.58	10.10	41.67	10.42	39.95
70	950	26182		25922		25662		25402		25141		24881		24621		24101	
		10.73	51.57	10.91	50.55	11.08	49.57	11.25	48.59	11.42	47.66	11.59	46.78	11.76	45.91	12.10	44.19
80	1000	27560		27313		27066		26819		26572		26324		26077		25583	
		12.52	56.19	12.70	55.20	12.88	54.23	13.06	53.27	13.24	52.32	13.42	51.37	13.60	50.47	13.96	48.69

HP	RPM	1.250" Pst		1.500" Pst		2.000" Pst		2.500" Pst		3.000" Pst		3.500" Pst		4.000" Pst		4.500" Pst	
		CFM		CFM		CFM		CFM		CFM		CFM		CFM		CFM	
		BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones
4	500	2161															
		1.09	14.17														
5	550	9314		1801													
		2.70	16.27	1.33	16.47												
7 1/2	600	11673		10078													
		3.54	18.25	3.50	18.41												
10	650	13682		12489		8381											
		4.42	21.18	4.51	20.35	4.05	21.00										
15	700	15563		14511		11994		9									
		5.43	24.44	5.54	23.32	5.57	22.97	1.97	23.79								
20	750	17221		16466		14398		11715									
		6.52	27.78	6.72	26.57	6.93	24.93	6.76	25.67								
30	800	18845		18154		16426		14264		10663							
		7.75	31.33	7.98	30.16	8.29	27.92	8.35	27.59	7.65	28.52						
40	850	20442		19791		18394		16569		14326		10074					
		9.15	34.91	9.39	33.75	9.82	31.58	10.06	29.78	9.95	30.49	8.75	31.56				
50	900	22016		21402		20173		18587		16771		14567					
		10.70	38.66	10.96	37.50	11.46	35.29	11.79	33.25	11.95	32.64	11.76	33.52				
60	950	23572		22990		21826		20552		18919		17045		14949			
		12.43	42.69	12.70	41.48	13.24	39.17	13.71	37.10	13.98	35.13	13.99	35.52	13.78	36.55		
70	1000	25089		24558		23452		22346		20920		19369		17459		15096	
		14.32	47.07	14.63	45.84	15.19	43.53	15.76	41.33	16.12	39.28	16.40	37.94	16.26	38.73	15.77	39.94

Performance shown is for installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include transmission losses. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type B: free inlet hemispherical sones levels. Performance ratings do not include the effects of appurtenances in the airstream.

TYPICAL SPECIFICATION

Model UF Backward Inclined, as manufactured by Energy Twin City.

PERFORMANCE

Fans shall be tested in accordance with AMCA 211 and AMCA 311 test codes for air moving devices and shall be guaranteed by the manufacturer to deliver rated published performance levels. UF fans shall be licensed to bear the AMCA certified ratings seal for both sound and air.

HOUSING

Fan housings shall be heavy gauge with fastened seam and partially welded construction. Housings shall be suitably braced to prevent vibration or pulsation. Housings shall have tapered spun, aerodynamically designed inlet cones or shrouds providing stable flow and high rigidity. Housings shall be of the rotatable design, convertible to seven standard discharge configurations.

WHEELS

UF backward inclined wheels shall be single thickness plate type designed for maximum efficiency and quiet operation and shall be of the nonoverloading type. Sizes 10 through 36 shall be constructed of aluminum, with blades welded to the spun wheel cone and back plate.

SHAFT

Shafts shall be AISI 1045 hot rolled steel, accurately turned, ground, polished, and ring gauged for accuracy. Shafts shall be sized for the first critical speed of at least 1.25 times the maximum speed.

BEARINGS

Bearings shall be heavy duty, grease lubricated, anti-friction ball, self-aligning, pillow block type and selected for a minimum average bearing life (AFBMA L-50) in excess of 200,000 hours at the maximum fan RPM.

DRIVE

Motor sheaves shall be cast iron, and supplied as either variable pitch or fixed pitch. Drives and belts shall be rated for a minimum of 150% of the required motor HP.

ACCESSORIES

when specified, accessories such as access doors, variable inlet vanes, outlet shutters, inlet screens, etc., shall be provided by Energy Twin City maintain one source responsibility.

FACTORY RUN TEST

All fans prior to shipment shall be completely assembled and test run as a unit at operating speed or maximum RPM allowed for the particular construction type. Each wheel shall be statically and dynamically balanced in accordance with ISO1940 "Balance Quality and Vibration Levels for Fans" to Fan Application, Balance Quality Grade G2.5. Balance readings shall be taken by electronic type equipment in the axial, vertical, and horizontal directions on each of the bearings. Records shall be maintained and a written copy shall be available upon request.

WARANTEE

The manufacturer shall guarantee the workmanship and materials for its UF Utility Sets for at least one (1) year from startup or eighteen (18) months from shipment, whichever occurs first.

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