MACCIMEX

La serie KC de los Aero Ventiladores Tubulares Centrífugos en línea, marca ATC con opción por transmisión de poleas y banda (KCB) y por transmisión directa (KCD), ha sido especialmente diseñada para los sistemas de inyección y extracción de aire en aplicaciones comerciales e industriales; disponibles en 9 tamaños con diámetros de turbina desde 10 1/4" hasta 24 5/8" en distintas clases constructivas, rotaciones y diferentes posiciones de montaje, ofreciendo la gama de ventiladores más versátil, eficiente e ideal para instalaciones de espacios más reducidos.

Aplicaciones

Campanas de extracción de humo y grasa en restaurantes, sistemas de ductos para aire acondicionado, ventilación y calefacción, hospitales, hotelería, estacionamientos públicos, centros comerciales, industrias de aviación, automotriz, imprenta, minería, pintura, petróleo, textil, acero, etc.

Características principales

- Conjunto carcasa, cono de succión, soporte del motor y bridas fabricado en acero al carbón de diferentes calibres según tipo de clase del ventilador (I-II).
- Turbina centrífuga de alta eficiencia y operación silenciosa con alabes atrasados estática y dinámicamente balanceado, fabricada en acero al carbón, acero inoxidable ó aluminio según aplicaciones.
- El proceso de prepintado con tratamientos químicos y posteriormente la aplicación electrostática de pintura poliéster en polvo horneada altamente resistente a la corrosión e intemperie en todos los componentes de los ventiladores tubulares centrífugos es estándar.
- Disponible en 2 diferentes posiciones de descarga y construcción (horizontal, vertical), 2 distintos tipos de montaje (piso con tacones antivibratorios ó resortes con base; techo con resortes colgantes), 3 posiciones del motor para el montaje en piso (posición 0°, 90°, 270°), 4 posiciones del motor para el montaje en techo (posición 0°, 90°, 180°, 270°) y 2 diferentes rotaciones del rotor (CW – CCW).
- Chumaceras o Rodamientos de alta eficiencia y mínimo mantenimiento, diseñados para aplicaciones de servicio pesado adquiridos de los fabricantes mundialmente reconocidos.
- Flechas o ejes impulsores seleccionados en diferentes diámetros y longitudes según tamaño y clase del ventilador, fabricados en acero AISI C-1045, perfectamente pulidos y rectificados en toda su longitud y protegidos con un recubrimiento anticorrosivo.
- Base ajustable de motor fabricada en acero al carbón y diseñada para ajuste, alineación y tensión de las bandas con una precisión y rapidez.
- Accionado por transmisión de poleas y bandas (KCB), y por transmisión directa (KCD) a los motores eléctricos de alta eficiencia diseñados bajo especificaciones NEMA, permitiendo lograr las distintas relaciones de caudal y presión.
- Construcción anti-chispa según clasificaciones de AMCA.
  - Tipo A - Todos los componentes del ventilador en contacto con aire o gas deben ser construidos de material no ferroso.
  - Tipo B - Turbina y cubierta para chumaceras colocado dentro de la carcasa del ventilador por donde pasa la flecha deben ser construidos de material no ferroso.
  - Tipo C - El ventilador debe ser construido de tal forma, evitando cualquier contacto o fricción entre 2 partes ferrosos por un desplazamiento del rotor o flecha.

Accesorios Disponibles

- Registro o Puerta de Inspección.
- Tubo de dren.
- Tacones o resortes antivibratorios.
- Malla de protección en succión o descarga.
- Construcción anti-chispa.
- Cubierta para motor.
- Base o Soporte del ventilador para montaje.
- Cubrebandas.
- Contrabridas para ducto en succión ó descarga.
- Sello de flecha.
- Conector flexible de lona.
- Graseras extendidas.
- Interruptor.
- Recubrimientos especiales para aplicaciones de alta resistencia a la corrosión o temperatura

Nomenclatura:

KC B - 15 - CW - I
1 2 3 4 5

1. Modelo del Ventilador.
2. Tipo de Trasmisión.
   I. Poleas y Bandas (B) II. Directo (D)
3. Tamaño de Ventilador
4. Rotación de la Turbina:
   CW - Sentido Reloj CCW - Sentido contra Reloj
5. Clase Constructiva del Ventilador
   I – Clase I II – Clase II

The KC series are heavy duty tubular centrifugal supply and exhaust fans designed for class 1 and II performance with reliable air movement in commercial and industrial applications. ATC centrifugal in line fans are available in 9 sizes with wheel diameters from 10 ¼" through 24 5/8", different performance classes, rotations, discharge and mounting positions, offering the line of most versatile, quiet, energy efficient and space saving fans which can handle a wide range of air volume and pressure in the global market.

Applications

Hood exhaust in restaurants, HVAC systems, hospitals, hotels, underground parking lots, commercial centers, aviation, automotive, printing, mining, painting, petroleum, textile, steel industries, etc.

Construction Features

- Housings, inlet cones, drive stands, flanges, weather proof motor and drive cover are made of air tight heavy gauge all welded steel construction.
- Backward inclined non-overloading wheels are constructed with welded steel, stainless steel or aluminum, statically and dynamically balanced at the factory and designed for optimum performance for most operating conditions.
- Electrostatically applied powder coating is Standard on all ATC fans. For special requirements, please contact the factory.
- The fans are available in 2 different discharge and construction arrangements (Horizontal, Vertical), 2 distint type of mounting positions (Floor mounted with rubber – in – shear or spring type isolators; ceiling mounted with spring type isolators), 3 motor positions for floor mounting (0°, 90°, 270°), 4 motor positions for ceiling mounting (0°, 90°, 180°, 270°) and clockwise (CW) or counter clockwise (CCW) wheel rotation.
- Self-aligning heavy duty, pillow block ball bearings are designed to operate under the most severe atmospheric conditions and are supplied by the most prestigious world wide manufacturers.
- Shafts are designed for long life in different diameters and lengths, turned, ground and polished of solid SAE 1045 steel for smooth operation, key-wayed on each end and are protected with a corrosion resistant coating.
- Adjustable steel motor plate pivoted at one end for ease of belt tensioning.
- The KC centrifugal series are the ideal choice for the general ventilation applications with the space saving advantages of an axial type fan in both belt drive (KCB) and direct drive (KCD) design.
- AMCA classifications for spark resistant construction where hazardous, explosive or flammable conditions exist.
  - Type A- All parts of the fan in contact with the air or gas being handled shall be made of non-ferrous material.
  - Type B- The fan shall have a non-ferrous bearing cover and wheel about the opening through which shaft passes. Ferrous hubs, shafts and hardware are permitted.
  - Type C- The fan shall be so constructed that a shift of the wheel or shaft will not permit two ferrous parts of the fan to rub or strike. Fans for this condition will be furnished with a nonferrous inlet cone and bearing cover around the shaft opening.

Optional Accessories

- Access or clean-out doors.
- Drains.
- Vibration Isolators.
- Inlet and outlet screens.
- Spark resistant construction.
- Motor cover
- Mounting or support legs.
- Belt guard.
- Companion flanges for duct connection.
- Shaft seal.
- Flexible joint.
- Copper lube lines for greasing.
- Disconnect switch.
- Special protective coating for corrosion and high temperature.

Nomenclature:

KC B - 15 - CW - I
1 2 3 4 5

1. Fan Model.
2. Drive Type.
   I. Belt Drive (B) II. Direct Drive (D)
3. Fan Size.
4. Impeller Rotation.
   CW – Clockwise CCW – Counter Clockwise
5. Fan Class.
   I. Class I II. Class II

KCB/KCD/KCBR

Factores de Corrección de Densidad del Aire por Altitud y Temperatura

Los Valores presentados en las Tablas de Selección se refieren a las Condiciones Estándar de Operación (0 Metros ó 0 pies sobre nivel del mar, 21°C ó 70ºF, 760 mm Hg. ó 29.92 In. Hg.). Para condiciones distintas de operación es necesario aplicar factores de corrección según las siguientes tablas:

Air Density Ratios at various Altitudes and Air Temperatures

The Values which are shown in the tables of performance Data refer to Standard Operation Conditions (0 meters or 0 feet above sea level, 21°C ó 70ºF, 760 mm Hg. or 29.92 In. Hg.). Apply the following correction factors for other operation conditions not standard.

AIR GAS TEMP °F	0 (29.92)	1000 (28.86)	2000 (27.82)	3000 (26.81)	4000 (25.84)	5000 (24.89)	6000 (23.98)	7000 (23.09)	8000 (22.22)	9000 (21.38)	10000 (20.58)
	Altitud en pies sobre el nivel del mar correspondiente a la Presión Barométrica en Pulgadas Hg. (Altitude in Feet Above Sea Level With Corresponding Barometric Pressure in Inches Hg.)										
-20	0.83	0.86	0.89	0.93	0.96	1	1.04	1.08	1.12	1.16	1.21
0	0.87	0.91	0.94	0.97	1.01	1.04	1.08	1.13	1.17	1.22	1.26
50	0.96	1	1.04	1.07	1.11	1.16	1.2	1.25	1.3	1.35	1.4
70	1	1.04	1.08	1.12	1.16	1.2	1.25	1.3	1.35	1.4	1.45
100	1.06	1.1	1.14	1.18	1.22	1.27	1.32	1.37	1.42	1.48	1.54
150	1.15	1.19	1.24	1.3	1.33	1.38	1.44	1.49	1.55	1.61	1.67
200	1.25	1.29	1.33	1.39	1.44	1.5	1.56	1.61	1.68	1.75	1.81
250	1.34	1.39	1.44	1.5	1.55	1.61	1.67	1.74	1.8	1.88	1.95
300	1.44	1.49	1.54	1.6	1.66	1.72	1.79	1.86	1.93	2.01	2.08
350	1.53	1.59	1.65	1.71	1.77	1.84	1.91	1.98	2.06	2.14	2.22
400	1.62	1.68	1.75	1.81	1.88	1.95	2.03	2.1	2.18	2.27	2.36
450	1.72	1.78	1.85	1.92	1.99	2.07	2.15	2.23	2.31	2.4	2.49
500	1.81	1.88	1.95	2.02	2.1	2.18	2.26	2.35	2.44	2.53	2.63
550	1.91	1.98	2.05	2.13	2.2	2.29	2.38	2.47	2.56	2.67	2.77
600	2	2.08	2.15	2.23	2.32	2.4	2.5	2.59	2.69	2.8	2.91
650	2.1	2.17	2.25	2.34	2.43	2.52	2.62	2.72	2.83	2.93	3.05
700	2.19	2.27	2.35	2.44	2.53	2.63	2.73	2.83	2.94	3.07	3.19
800	2.38	2.46	2.55	2.65	2.75	2.86	2.97	3.08	3.2	3.32	3.45

AIR GAS TEMP °C	0 (760)	250 (738)	500 (717)	750 (697)	1000 (677)	1250 (657)	1500 (639)	1750 (620)	2000 (603)	2500 (569)	3000 (536)
	Altitud en metros sobre el nivel del mar correspondiente a la Presion Barometrica en mm Hg. (Altitude In Meters Above Sea Level With Corresponding Barometric Pressure in Millimeters Hg.)										
0	0.93	0.96	0.98	1.01	1.04	1.08	1.11	1.14	1.18	1.25	1.32
21	1	1.03	1.05	1.09	1.12	1.15	1.19	1.22	1.27	1.33	1.41
50	1.1	1.12	1.16	1.19	1.23	1.27	1.3	1.33	1.39	1.47	1.56
75	1.18	1.22	1.25	1.28	1.33	1.37	1.41	1.45	1.49	1.59	1.67
100	1.27	1.3	1.33	1.37	1.41	1.47	1.52	1.56	1.59	1.69	1.79
125	1.35	1.39	1.43	1.47	1.52	1.56	1.61	1.65	1.69	1.79	1.92
150	1.43	1.47	1.52	1.56	1.61	1.67	1.69	1.75	1.82	1.92	2.04
175	1.52	1.56	1.61	1.67	1.69	1.75	1.82	1.85	1.92	2.04	2.17
200	1.61	1.64	1.69	1.75	1.79	1.82	1.92	1.96	2.04	2.13	2.27
225	1.69	1.72	1.79	1.85	1.89	1.96	2.04	2.08	2.13	2.27	2.38
250	1.79	1.82	1.89	1.92	2	2.04	2.13	2.17	2.22	2.38	2.5
275	1.85	1.92	1.96	2.04	2.08	2.13	2.17	2.27	2.33	2.5	2.63
300	1.96	2	2.04	2.13	2.17	2.22	2.27	2.38	2.44	2.56	2.7
325	2.04	2.08	2.13	2.22	2.27	2.33	2.38	2.44	2.5	2.7	2.86
350	2.13	2.17	2.22	2.33	2.38	2.44	2.5	2.56	2.63	2.78	2.94
375	2.17	2.27	2.33	2.38	2.44	2.5	2.56	2.63	2.7	2.86	3.03
400	2.27	2.33	2.44	2.5	2.56	2.63	2.7	2.78	2.86	3.03	3.13
425	2.38	2.44	2.5	2.56	2.63	2.7	2.78	2.86	2.94	3.13	3.33
450	2.44	2.5	2.56	2.63	2.7	2.78	2.86	2.94	3.03	3.23	3.45
475	2.56	2.63	2.7	2.78	2.86	2.94	3.03	3.13	3.23	3.45	3.57

KCB/KCD/KCBR

Factores de corrección de RPM por temperatura

Reduce la Máxima Velocidad Permitible del Ventilador (RPM) aplicando los Factores de Corrección según la siguiente tabla:

Temperature / RPM corrections

Reduce maximum allowable fan speed by applying RPM correction factors from the following table:

TEMP	-20°F - 150°F (-29°C- 66°C)	151°F - 300°F (66°C- 149°C)	301°F - 600°F (149°C-316°C)	601°F - 800°F (316°C-427°C)
FACTOR	1	0.957	0.88	0.79

Características Físicas / Physical data

MODELO / MODEL	DIAMETRO TURBINA (IN) / WHEEL DIAMETER (IN)	PESO TURBINA (LBS) CLASE I / WHEEL WEIGHT (LBS) CLASS I	PESO TURBINA (LBS) CLASE II / WHEEL WEIGHT (LBS) CLASS II	Max RPM TURBINA CLASE I / Max WHEEL RPM CLASS I	Max RPM TURBINA CLASE II / Max WHEEL RPM CLASS II	Max RPM TURBINA CLASE III / Max WHEEL RPM CLASS III	Max ARMAZON MOTOR CLASE I / Max MOTOR FRAME CLASS I	Max ARMAZON MOTOR CLASE II / Max MOTOR FRAME CLASS II	DIAMETRO FLECHA (IN) CLASE I / SHAFT DIAMETER (IN) CLASS I	DIAMETRO FLECHA (IN) CLASE II / SHAFT DIAMETER (IN) CLASS II	PESO APROX VENTILADOR *(LBS) CLASE I / ESTIMATED FAN WEIGHT *(LBS) CLASS I	PESO APROX VENTILADOR *(LBS) CLASE II / ESTIMATED FAN WEIGHT *(LBS) CLASS II
KC-10	10 1/4	8	12	4134	4678	–	145 T	145 T	1	1 1/8	64	69
KC-12	12 1/2	11	16	3241	4051	–	182 T	184 T	1	1 1/8	86	93
KC-13	14	12	18	2844	3604	–	182 T	184 T	1	1 1/8	108	115
KC-15	15 1/8	14	21	2391	3165	3616	184 T	184 T	1 1/8	1 3/8	115	125
KC-16	16 11/16	17	26	2360	3106	3413	184 T	184 T	1 1/8	1 3/8	176	192
KC-18	18 9/16	25	40	2058	2717	3204	184 T	215 T	1 3/8	1 5/8	180	195
KC-20	20 7/16	32	52	2007	2448	2709	213 T	215 T	1 3/8	1 5/8	225	245
KC-22	22 9/16	39	60	1682	2298	2444	213 T	254 T	1 5/8	1 5/8	337	356
KC-24	24 5/8	73	79	1540	2053	2240	215 T	256 T	1 5/8	1 5/8	403	467

* Peso ventilador sin motor y transmisión
* Fan weight without motor and drive

KCB-10

Especificaciones técnicas / Performance data

Diametro de Turbina = 10 1/4" Diametro de Descarga= 16" Area de Descarga = 1.396 Ft² RPM Max=Clase I 4134 Clase II 4678 Velocidad Tangencial (PPM)= 2.683 X RPM BHP Max =0.0356 (RPM/1000)³	Wheel Diameter = 10 1/4" Outlet Diameter= 16" Outlet Area= 1.396 Ft² RPM Max=Clase I 4134 Clase II 4678 Tip speed (FPM)= 2.683 X RPM Max. BHP = 0.0356 (RPM/1000)³

Caudal (Air Flow) CFM	M³/HR	Velocidad Descarga (Outlet Velocity) FPM	0.25" RPM	BHP	0.5" RPM	BHP	0.75" RPM	BHP	1" RPM	BHP	1.25" RPM	BHP	1.5" RPM	BHP	2" RPM	BHP	2.5" RPM	BHP	3" RPM	BHP	3.5" RPM	BHP
558	949	400	1131	0.05	**1394**	**0.10**	**1626**	**0.15**	**1839**	**0.22**	–	–	–	–	–	–	–	–	–	–	–	–
698	1186	500	1279	0.07	1512	0.12	**1718**	**0.18**	**1909**	**0.25**	**2088**	**0.32**	**2258**	**0.41**	–	–	–	–	–	–	–	–
838	1423	600	1436	0.11	1650	0.16	1836	0.22	**2009**	**0.29**	**2172**	**0.36**	**2328**	**0.45**	**2621**	**0.64**	2893	0.86	–	–	–	–
977	1660	700	1602	0.15	1799	0.21	1971	0.27	2129	0.34	2279	0.42	**2422**	**0.51**	**2693**	**0.70**	**2948**	**0.91**	**3190**	**1.16**	3419	1.42
1117	1897	800	1776	0.20	1955	0.27	2116	0.34	2264	0.41	2403	0.49	2536	0.58	**2788**	**0.77**	**3026**	**0.99**	**3253**	**1.23**	**3470**	**1.49**
1256	2135	900	1958	0.27	2116	0.34	2269	0.42	2408	0.50	2539	0.58	2663	0.67	2900	0.87	**3123**	**1.08**	**3337**	**1.32**	**3541**	**1.58**
1396	2372	1000	2143	0.35	2273	0.42	2426	0.51	2559	0.60	2683	0.69	2801	0.78	3024	0.98	3235	1.20	**3436**	**1.44**	**3630**	**1.70**
1536	2609	1100	2327	0.45	2457	0.53	2588	0.62	2715	0.71	2833	0.81	2946	0.91	3158	1.12	3358	1.35	3548	1.59	**3732**	**1.85**
1675	2846	1200	2510	0.56	2636	0.65	2755	0.74	2874	0.85	2988	0.95	3096	1.06	3299	1.28	3490	1.51	3672	1.76	3847	2.03
1815	3083	1300	2697	0.70	2819	0.80	2926	0.89	3037	1.00	3146	1.11	3250	1.22	3446	1.46	3629	1.70	3803	1.96	3971	2.23
1954	3321	1400	2892	0.86	3004	0.97	3102	1.06	3205	1.17	3308	1.29	3408	1.41	3597	1.66	3774	1.91	3942	2.18	4102	2.46
2094	3558	1500	3088	1.05	3188	1.15	3283	1.26	3377	1.37	3473	1.49	3569	1.62	3752	1.88	3923	2.15	4085	2.43	4240	2.71
2234	3795	1600	3266	1.24	3372	1.36	3467	1.48	3552	1.60	3642	1.72	3733	1.85	3909	2.13	4075	2.41	4233	2.70	4383	3.00
2373	4032	1700	3450	1.46	3555	1.60	3652	1.73	3733	1.85	3816	1.98	3900	2.11	4069	2.40	4231	2.70	4384	3.00	4530	3.31

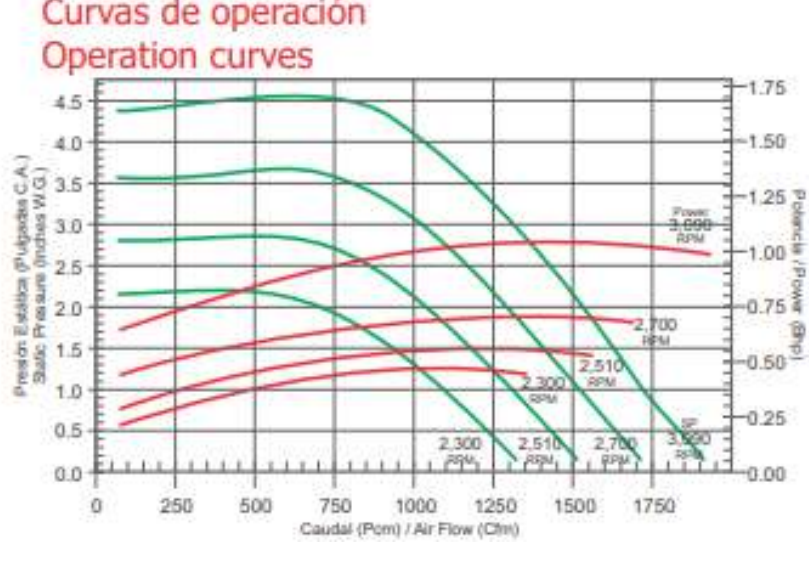
Los números en negrita representan la eficiencia Máxima / Bold figures indicate maximun efficiency

Caudal (Air Flow) CFM	M³/HR	Velocidad Descarga (Outlet Velocity) FPM	4" RPM	BHP	4.5" RPM	BHP	5" RPM	BHP	5.5" RPM	BHP	6" RPM	BHP	6.5" RPM	BHP	7" RPM	BHP	7.5" RPM	BHP	8" RPM	BHP	8.5" RPM	BHP
1117	1897	800	**3679**	**1.77**	3879	2.08	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1256	2135	900	**3739**	**1.86**	**3930**	**2.16**	**4116**	**2.48**	4285	2.82	4470	3.18	–	–	–	–	–	–	–	–	–	–
1396	2372	1000	**3818**	**1.98**	**3999**	**2.28**	**4176**	**2.59**	**4348**	**2.93**	**4516**	**3.28**	–	–	–	–	–	–	–	–	–	–
1536	2609	1100	**3911**	**2.13**	**4084**	**2.42**	**4253**	**2.74**	**4418**	**3.07**	**4578**	**3.41**	–	–	–	–	–	–	–	–	–	–
1675	2846	1200	**4017**	**2.31**	**4182**	**2.60**	**4343**	**2.92**	**4501**	**3.25**	**4655**	**3.59**	–	–	–	–	–	–	–	–	–	–
1815	3083	1300	4134	2.51	4291	2.81	**4445**	**3.13**	**4596**	**3.46**	–	–	–	–	–	–	–	–	–	–	–	–
1954	3321	1400	4258	2.75	4410	3.05	4558	3.37	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2094	3556	1500	4390	3.01	4536	3.32	4678	3.64	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2234	3795	1600	4528	3.30	4668	3.62	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2373	4032	1700	4670	3.63	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Los números en negrita representan la eficiencia Máxima / Bold figures indicate maximun efficiency

Ventiladores Clase I / Class I Fans — Ventiladores Clase II / Class II Fans

Curvas de operación / Operation curves



Espectros de potencia sonora / Sound Power level ratings

Revoluciones por minuto (RPM)	Freq.	63	125	250	500	1000	2000	4000	8000	Total	Hz
2300	LwA	90	79	78	80	77	77	76	69	91	dB(A)
2510	LwA	93	81	79	81	78	78	77	71	94	dB(A)
2700	LwA	97	83	79	82	80	78	78	72	98	dB(A)
3090	LwA	107	86	81	83	83	80	80	74	107	dB(A)

Datos obtenidos de acuerdo a la norma AMCA estándar 301 (Information obtained according to the AMCA Standard 301)

KCB-12

Especificaciones técnicas / Performance data

Diametro de Turbina = 12 1/2" Diametro de Descarga= 18" Area de Descarga = 1.767 Ft² RPM Max=Clase I 3241 Clase II 4051 Velocidad Tangencial (PPM)= 3.2738 X RPM BHP Max =0.0638 (RPM/1000)³	Wheel Diameter = 12 1/2" Outlet Diameter= 18" Outlet Area= 1.767 Ft² RPM Max=Clase I 3241 Clase II 4051 Tip speed (FPM)= 3.2738 X RPM Max. BHP = 0.0638 (RPM/1000)³

Caudal (Air Flow) CFM	M³/HR	Velocidad Descarga (Outlet Velocity) FPM	0.25" RPM	BHP	0.5" RPM	BHP	0.75" RPM	BHP	1" RPM	BHP	1.25" RPM	BHP	1.5" RPM	BHP	2" RPM	BHP	2.5" RPM	BHP	3" RPM	BHP	3.5" RPM	BHP
707	1201	400	789	0.03	**1031**	**0.07**	1242	0.12	–	–	–	–	–	–	–	–	–	–	–	–	–	–
884	1501	500	871	0.04	**1075**	**0.08**	**1266**	**0.13**	1441	0.19	1601	0.26	–	–	–	–	–	–	–	–	–	–
1060	1801	600	970	0.06	1141	0.09	**1309**	**0.14**	**1470**	**0.20**	1621	0.27	1762	0.36	–	–	–	–	–	–	–	–
1237	2101	700	1081	0.08	1225	0.12	1372	0.16	**1516**	**0.22**	**1655**	**0.29**	**1788**	**0.36**	2036	0.54	2263	0.74	–	–	–	–
1414	2402	800	1195	0.11	1322	0.15	1450	0.19	1579	0.25	**1705**	**0.32**	**1828**	**0.39**	**2062**	**0.56**	2281	0.76	2484	0.98	–	–
1590	2702	900	1311	0.14	1428	0.19	1540	0.23	1655	0.29	1769	0.35	**1882**	**0.42**	**2099**	**0.59**	**2307**	**0.78**	2503	1.00	2688	1.24
1767	3002	1000	1432	0.19	1539	0.23	1640	0.28	1742	0.34	1845	0.40	1948	0.47	**2150**	**0.63**	**2345**	**0.82**	**2532**	**1.04**	2710	1.27
1944	3302	1100	1555	0.24	1614	0.27	1746	0.34	1838	0.40	1931	0.46	2025	0.53	2211	0.69	**2394**	**0.88**	**2571**	**1.08**	**2741**	**1.31**
2120	3803	1200	1684	0.30	1769	0.35	1857	0.41	1941	0.47	2026	0.53	2110	0.60	2283	0.76	2453	0.94	**2620**	**1.15**	**2782**	**1.37**
2297	3903	1300	1815	0.38	1888	0.43	1970	0.49	2049	0.56	2126	0.61	2205	0.68	2363	0.84	2521	1.02	2678	1.22	**2832**	**1.45**
2474	4203	1400	1944	0.47	2007	0.52	2086	0.58	2160	0.64	2233	0.71	2304	0.78	2451	0.94	2598	1.12	2744	1.32	2889	1.54
2651	4503	1500	2072	0.57	2130	0.62	2203	0.68	2274	0.75	2342	0.82	2409	0.89	2544	1.05	2682	1.23	2819	1.43	2956	1.65
2827	4803	1600	2200	0.68	2256	0.73	2321	0.80	2389	0.87	2455	0.94	2517	1.02	2644	1.18	2772	1.36	2900	1.56	3029	1.77
3004	5104	1700	2337	0.81	2385	0.87	2441	0.93	2505	1.00	2569	1.08	2629	1.16	2748	1.32	2866	1.50	2988	1.70	3109	1.92
3181	5404	1800	2461	0.95	2515	1.02	2563	1.07	2624	1.15	2685	1.23	2742	1.32	2856	1.49	2967	1.67	3081	1.87	3195	2.08

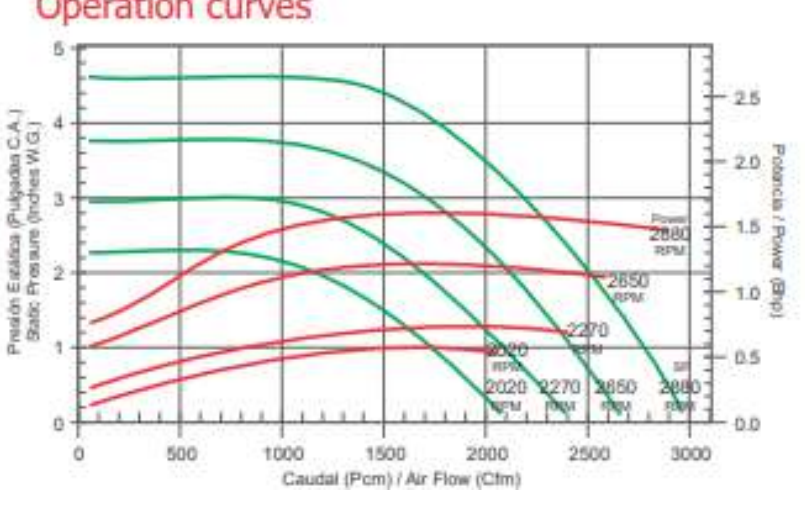
Los números en negrito representan la eficiencia Máxima / Bold figures indicate maximun efficiency

Caudal (Air Flow) CFM	M³/HR	Velocidad Descarga (Outlet Velocity) FPM	4" RPM	BHP	4.5" RPM	BHP	5" RPM	BHP	5.5" RPM	BHP	6" RPM	BHP	6.5" RPM	BHP	7" RPM	BHP	7.5" RPM	BHP	8" RPM	BHP	8.5" RPM	BHP
1767	3002	1000	2882	1.53	3045	1.80	3202	2.09	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1944	3302	1100	2906	1.57	3066	1.84	3218	2.13	3365	2.43	3507	2.75	–	–	–	–	–	–	–	–	–	–
2120	3803	1200	**2940**	**1.62**	**3092**	**1.89**	3241	2.17	3385	2.47	3524	2.79	3660	3.13	3790	3.47	3917	3.84	–	–	–	–
2297	3903	1300	**2982**	**1.69**	**3128**	**1.95**	**3272**	**2.23**	3411	2.53	3546	2.85	3679	3.18	3807	3.52	3932	3.88	–	–	–	–
2474	4203	1400	**3033**	**1.78**	**3173**	**2.04**	**3310**	**2.31**	**3445**	**2.61**	**3576**	**2.92**	3704	3.24	3830	3.58	3952	3.94	–	–	–	–
2651	4503	1500	3091	1.89	**3225**	**2.14**	**3358**	**2.41**	**3485**	**2.70**	**3612**	**3.01**	**3736**	**3.33**	**3859**	**3.67**	3978	4.02	–	–	–	–
2827	4803	1600	3157	2.01	3284	2.26	**3410**	**2.53**	**3534**	**2.82**	**3656**	**3.12**	**3776**	**3.43**	**3893**	**3.77**	**4010**	**4.11**	–	–	–	–
3004	5104	1700	3231	2.15	3351	2.40	3471	2.67	**3589**	**2.95**	**3706**	**3.25**	**3822**	**3.56**	**3935**	**3.89**	**4048**	**4.23**	–	–	–	–
3181	5404	1800	3309	2.31	3424	2.56	3538	2.83	3651	3.10	**3763**	**3.40**	**3875**	**3.71**	**3984**	**4.03**	–	–	–	–	–	–
3357	5704	1900	3394	2.49	3502	2.74	3611	3.00	3719	3.28	3827	3.58	3933	3.88	**4039**	**4.20**	–	–	–	–	–	–
3534	6004	2000	3483	2.70	3587	2.94	3688	3.20	3793	3.48	3895	3.77	3998	4.08	–	–	–	–	–	–	–	–
3887	6605	2200	3676	3.17	3769	3.42	3862	3.57	3956	3.95	4050	4.24	–	–	–	–	–	–	–	–	–	–
4241	7205	2400	3881	3.73	3966	3.98	4051	4.24	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Los números en negrito representan la eficiencia Máxima / Bold figures indicate maximun efficiency

Ventiladores Clase I / Class I Fans — Ventiladores Clase II / Class II Fans

Curvas de operación / Operation curves



Espectros de potencia sonora / Sound Power level ratings

Revoluciones por minuto (RPM)	Freq.	63	125	250	500	1000	2000	4000	8000	Total	Hz
2020	LwA	86	76	77	78	74	76	74	66	88	dB(A)
2270	LwA	89	79	78	80	77	77	75	69	91	dB(A)
2650	LwA	96	82	79	82	79	78	77	72	96	dB(A)
2880	LwA	103	84	80	83	81	79	78	73	103	dB(A)

Datos obtenidos de acuerdo a la norma AMCA estándar 301 (Information obtained according to the AMCA Standard 301)

KCB-13

Especificaciones técnicas / Performance data

Diametro de Turbina = 14" Diametro de Descarga= 21" Area de Descarga = 2.405 Ft² RPM Max=Clase I 2844 Clase II 3604 Velocidad Tangencial (PPM)= 3.665 X RPM BHP Max =0.1209 (RPM/1000)³	Wheel Diameter = 14" Outlet Diameter= 21" Outlet Area= 2.405 Ft² RPM Max=Clase I 2844 Clase II 3604 Tip speed (FPM)= 3.665 X RPM Max. BHP = 0.1209 (RPM/1000)³

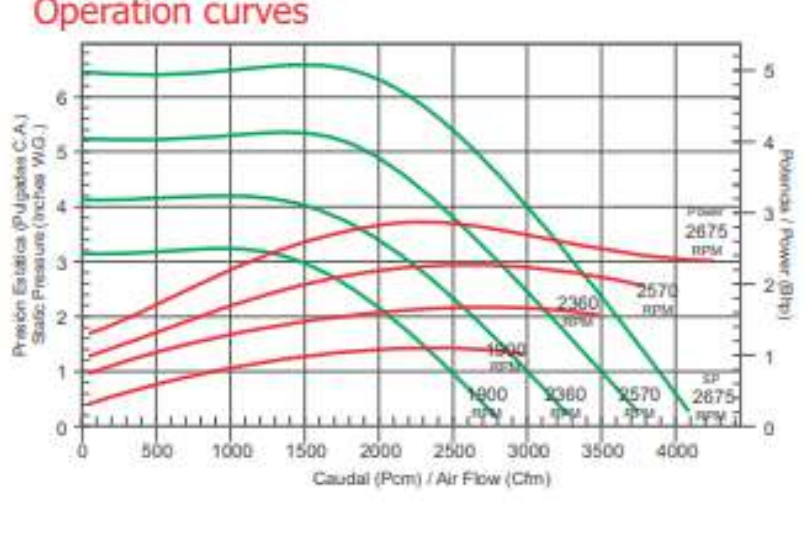
Caudal (Air Flow) CFM	M³/HR	Velocidad Descarga (Outlet Velocity) FPM	0.25" RPM	BHP	0.5" RPM	BHP	0.75" RPM	BHP	1" RPM	BHP	1.25" RPM	BHP	1.5" RPM	BHP	2" RPM	BHP	2.5" RPM	BHP	3" RPM	BHP	3.5" RPM	BHP
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Los números en negrita representan la eficiencia Máxima / Bold figures indicate maximun efficiency

Caudal (Air Flow) CFM	M³/HR	Velocidad Descarga (Outlet Velocity) FPM	4" RPM	BHP	4.5" RPM	BHP	5" RPM	BHP	5.5" RPM	BHP	6" RPM	BHP	6.5" RPM	BHP	7" RPM	BHP	7.5" RPM	BHP	8" RPM	BHP	8.5" RPM	BHP
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Ventiladores Clase I / Class I Fans — Ventiladores Clase II / Class II Fans

Curvas de operación / Operation curves



Espectros de potencia sonora / Sound Power level ratings

Revoluciones por minuto (RPM)	Freq.	63	125	250	500	1000	2000	4000	8000	Total	Hz
1900	LwA	91	81	83	83	79	82	79	71	93	dB(A)
2080	LwA	97	86	85	87	83	84	82	76	98	dB(A)
2570	LwA	100	88	86	88	85	85	83	80	101	dB(A)
2675	LwA	102	89	86	88	86	85	83	78	103	dB(A)

Datos obtenidos de acuerdo a la norma AMCA estándar 301 (Information obtained according to the AMCA Standard 301)

KCB-15

Especificaciones técnicas / Performance data

Diametro de Turbina = 15 1/8" Diametro de Descarga= 24" Area de Descarga = 3.142 Ft² RPM Max=Clase I 2391 Clase II 3165 Clase III 3616 Velocidad Tangencial (PPM)= 3.96 X RPM BHP Max =0.174 (RPM/1000)³	Wheel Diameter = 15 1/8" Outlet Diameter= 24" Outlet Area= 3.142 Ft² RPM Max=Clase I 2391 Clase II 3165 Clase III 3616 Tip speed (FPM)= 3.96 X RPM Max. BHP = 0.174 (RPM/1000)³

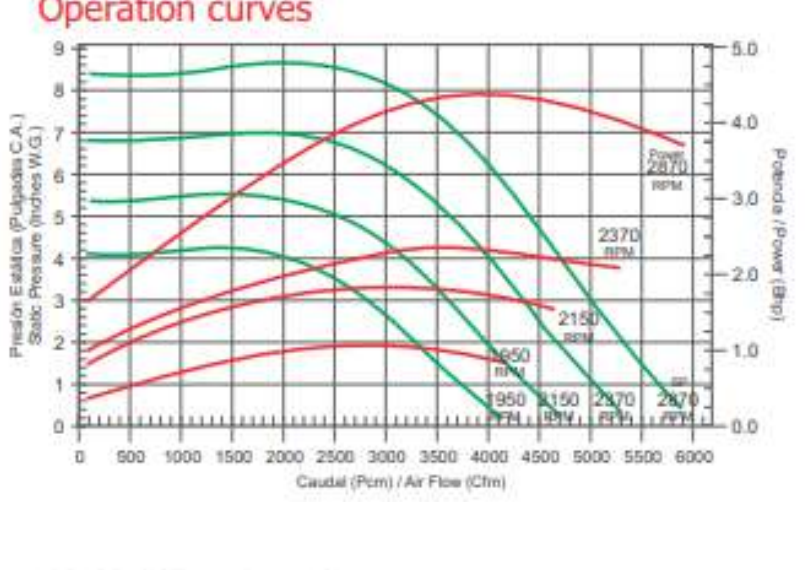
Caudal (Air Flow) CFM	M³/HR	Velocidad Descarga (Outlet Velocity) FPM	0.25" RPM	BHP	0.5" RPM	BHP	0.75" RPM	BHP	1" RPM	BHP	1.25" RPM	BHP	1.5" RPM	BHP	2" RPM	BHP	2.5" RPM	BHP	3" RPM	BHP	3.5" RPM	BHP
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Los números en negrita representan la eficiencia Máxima / Bold figures indicate maximun efficiency

Caudal (Air Flow) CFM	M³/HR	Velocidad Descarga (Outlet Velocity) FPM	4" RPM	BHP	4.5" RPM	BHP	5" RPM	BHP	5.5" RPM	BHP	6" RPM	BHP	6.5" RPM	BHP	7" RPM	BHP	7.5" RPM	BHP	8" RPM	BHP	8.5" RPM	BHP
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Ventiladores Clase I / Class I Fans — Ventiladores Clase II / Class II Fans — Ventiladores Clase III / Class III Fans

Curvas de operación / Operation curves



Espectros de potencia sonora / Sound Power level ratings

Revoluciones por minuto (RPM)	Freq.	63	125	250	500	1000	2000	4000	8000	Total	Hz
1950	LwA	92	82	83	84	80	82	79	72	94	dB(A)
2150	LwA	94	84	84	86	82	83	81	75	96	dB(A)
2370	LwA	97	86	85	87	83	84	82	76	98	dB(A)
2870	LwA	109	90	86	89	87	86	85	79	109	dB(A)

Datos obtenidos de acuerdo a la norma AMCA estándar 301 (Information obtained according to the AMCA Standard 301)

KCB-16

Especificaciones técnicas / Performance data

Diametro de Turbina = 16 11/16" Diametro de Descarga= 26" Area de Descarga = 3.687 Ft² RPM Max=Clase I 2360 Clase II 3106 Clase III 3413 Velocidad Tangencial (PPM)= 4.369 X RPM BHP Max =0.3371 (RPM/1000)³	Wheel Diameter = 16 11/16" Outlet Diameter= 26" Outlet Area= 3.687 Ft² RPM Max=Clase I 2360 Clase II 3106 Clase III 3413 Tip speed (FPM)= 4.369 X RPM Max. BHP = 0.3371 (RPM/1000)³

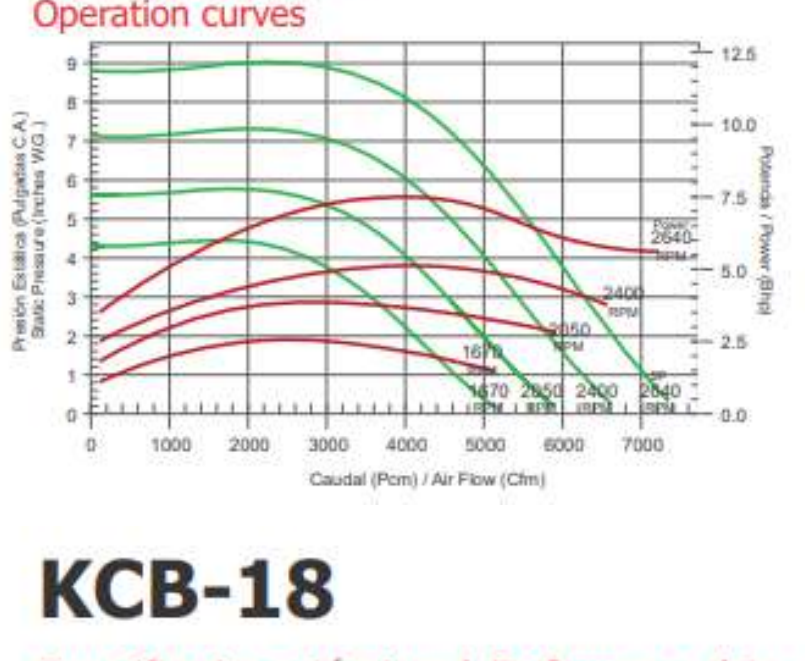
Caudal (Air Flow) CFM	M³/HR	Velocidad Descarga (Outlet Velocity) FPM	0.25" RPM	BHP	0.5" RPM	BHP	0.75" RPM	BHP	1" RPM	BHP	1.25" RPM	BHP	1.5" RPM	BHP	2" RPM	BHP	2.5" RPM	BHP	3" RPM	BHP	3.5" RPM	BHP
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Los números en negrita representan la eficiencia Máxima / Bold figures indicate maximun efficiency

Caudal (Air Flow) CFM	M³/HR	Velocidad Descarga (Outlet Velocity) FPM	4" RPM	BHP	4.5" RPM	BHP	5" RPM	BHP	5.5" RPM	BHP	6" RPM	BHP	6.5" RPM	BHP	7" RPM	BHP	7.5" RPM	BHP	8" RPM	BHP	8.5" RPM	BHP
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Ventiladores Clase I / Class I Fans — Ventiladores Clase II / Class II Fans — Ventiladores Clase III / Class III Fans

Curvas de operación / Operation curves



Espectros de potencia sonora / Sound Power level ratings

Revoluciones por minuto (RPM)	Freq.	63	125	250	500	1000	2000	4000	8000	Total	Hz
1670	LwA	85	86	85	80	77	76	71	63	91	dB(A)
2050	LwA	89	87	88	85	81	80	76	68	94	dB(A)
2400	LwA	91	88	89	89	83	83	79	72	96	dB(A)
2640	LwA	92	90	89	91	84	84	81	75	97	dB(A)

Datos obtenidos de acuerdo a la norma AMCA estándar 301 (Information obtained according to the AMCA Standard 301)

KCB-18

Especificaciones técnicas / Performance data

Diametro de Turbina = 18 9/16" Diametro de Descarga= 28" Area de Descarga = 4.276 Ft² RPM Max=Clase I 2058 Clase II 2717 Clase III 3204 Velocidad Tangencial (PPM)= 4.86 X RPM BHP Max =0.8806 (RPM/1000)³	Wheel Diameter = 18 9/16" Outlet Diameter= 28" Outlet Area= 4.276 Ft² RPM Max=Clase I 2058 Clase II 2717 Clase III 3204 Tip speed (FPM)= 4.86 X RPM Max. BHP = 0.8806 (RPM/1000)³

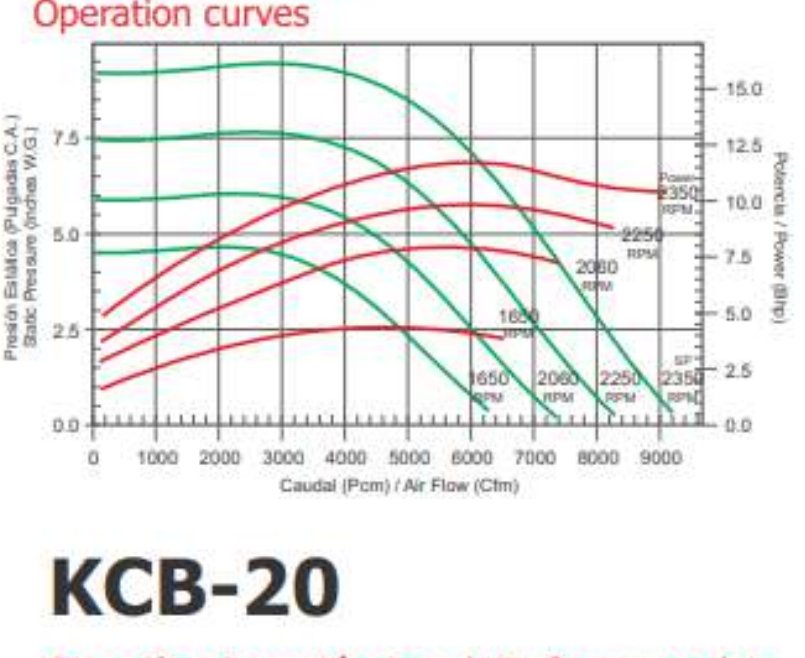
Caudal (Air Flow) CFM	M³/HR	Velocidad Descarga (Outlet Velocity) FPM	0.25" RPM	BHP	0.5" RPM	BHP	0.75" RPM	BHP	1" RPM	BHP	1.25" RPM	BHP	1.5" RPM	BHP	2" RPM	BHP	2.5" RPM	BHP	3" RPM	BHP	3.5" RPM	BHP
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Los números en negrita representan la eficiencia Máxima / Bold figures indicate maximun efficiency

Caudal (Air Flow) CFM	M³/HR	Velocidad Descarga (Outlet Velocity) FPM	4" RPM	BHP	4.5" RPM	BHP	5" RPM	BHP	5.5" RPM	BHP	6" RPM	BHP	6.5" RPM	BHP	7" RPM	BHP	7.5" RPM	BHP	8" RPM	BHP	8.5" RPM	BHP
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Ventiladores Clase I / Class I Fans — Ventiladores Clase II / Class II Fans — Ventiladores Clase III / Class III Fans

Curvas de operación / Operation curves



Espectros de potencia sonora / Sound Power level ratings

Revoluciones por minuto (RPM)	Freq.	63	125	250	500	1000	2000	4000	8000	Total	Hz
1650	LwA	85	86	84	79	76	75	70	62	90	dB(A)
2060	LwA	89	87	88	85	81	80	76	68	94	dB(A)
2250	LwA	90	87	88	87	82	81	78	71	95	dB(A)
2350	LwA	91	88	88	88	83	81	79	72	96	dB(A)

Datos obtenidos de acuerdo a la norma AMCA estándar 301 (Information obtained according to the AMCA Standard 301)

KCB-20

Especificaciones técnicas / Performance data

Diametro de Turbina = 20 7/16" Diametro de Descarga= 31" Area de Descarga = 5.241 Ft² RPM Max=Clase I 2007 Clase II 2448 Clase III 2709 Velocidad Tangencial (PPM)= 5.35 X RPM BHP Max =1.3471 (RPM/1000)³	Wheel Diameter = 20 7/16" Outlet Diameter= 31" Outlet Area= 5.241 Ft² RPM Max=Clase I 2007 Clase II 2448 Clase III 2709 Tip speed (FPM)= 5.35 X RPM Max. BHP = 1.3471 (RPM/1000)³

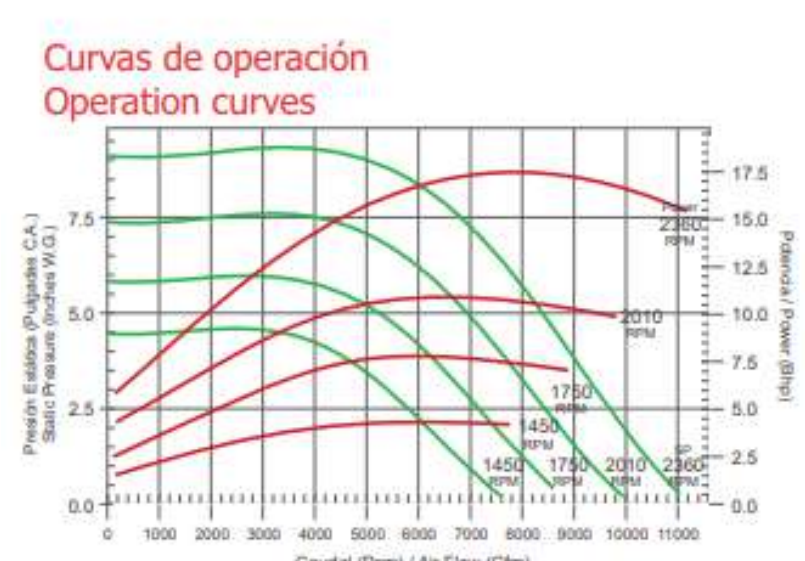
Caudal (Air Flow) CFM	M³/HR	Velocidad Descarga (Outlet Velocity) FPM	0.25" RPM	BHP	0.5" RPM	BHP	0.75" RPM	BHP	1" RPM	BHP	1.25" RPM	BHP	1.5" RPM	BHP	2" RPM	BHP	2.5" RPM	BHP	3" RPM	BHP	3.5" RPM	BHP
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Los números en negrita representan la eficiencia Máxima / Bold figures indicate maximun efficiency

Caudal (Air Flow) CFM	M³/HR	Velocidad Descarga (Outlet Velocity) FPM	4" RPM	BHP	4.5" RPM	BHP	5" RPM	BHP	5.5" RPM	BHP	6" RPM	BHP	6.5" RPM	BHP	7" RPM	BHP	7.5" RPM	BHP	8" RPM	BHP	8.5" RPM	BHP
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Ventiladores Clase I / Class I Fans — Ventiladores Clase II / Class II Fans — Ventiladores Clase III / Class III Fans

Curvas de operación / Operation curves



Espectros de potencia sonora / Sound Power level ratings

Revoluciones por minuto (RPM)	Freq.	63	125	250	500	1000	2000	4000	8000	Total	Hz
1450	LwA	83	82	86	80	79	77	73	67	90	dB(A)
1750	LwA	84	84	92	85	83	82	78	73	95	dB(A)
2010	LwA	89	87	94	87	90	85	83	76	97	dB(A)
2360	LwA	92	91	96	96	91	89	87	82	101	dB(A)

Datos obtenidos de acuerdo a la norma AMCA estándar 301 (Information obtained according to the AMCA Standard 301)

KCB-22

Especificaciones técnicas / Performance data

Diametro de Turbina = 22 9/16" Diametro de Descarga= 34" Area de Descarga = 6.305 Ft² RPM Max=Clase I 1682 Clase II 2298 Clase III 2444 Velocidad Tangencial (PPM)=5.907 X RPM BHP Max =1.495 (RPM/1000)³	Wheel Diameter = 22 9/16" Outlet Diameter= 34" Outlet Area= 6.305 Ft² RPM Max=Clase I 1682 Clase II 2298 Clase III 2444 Tip speed (FPM)= 5.907 X RPM Max. BHP = 1.495 (RPM/1000)³

Caudal (Air Flow)		Velocidad Descarga (Outlet Velocity)	Presión Estatica en Pulgadas C.A. (Static Pressure in Inches W. G.) 0.25"		0.5"		0.75"		1"		1.25"		1.5"		2"		2.5"		3"		3.5"	
CFM	M³/HR	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3783	6427	600	523	0.21	618	0.35	716	0.55	808	0.79	897	1.08	–	–	–	–	–	–	–	–	–	–
4414	7499	700	582	0.29	661	0.43	745	0.62	828	0.85	909	1.12	986	1.43	–	–	–	–	–	–	–	–
5044	8570	800	645	0.40	712	0.54	785	0.72	857	0.94	930	1.20	1001	1.50	1137	2.20	–	–	–	–	–	–
5675	9641	900	710	0.53	769	0.68	831	0.86	895	1.07	960	1.32	1025	1.61	1151	2.28	1273	3.08	–	–	–	–
6305	10712	1000	778	0.70	829	0.85	883	1.03	941	1.24	998	1.49	1057	1.77	1173	2.41	1287	3.18	1396	4.07	–	–
6936	11783	1100	845	0.90	892	1.06	941	1.24	990	1.45	1043	1.70	1096	1.97	1202	2.60	1308	3.34	1410	4.19	1509	5.14
7566	12855	1200	914	1.14	957	1.31	1000	1.50	1045	1.71	1092	1.95	1139	2.21	1237	2.83	1334	3.55	1431	4.38	1525	5.30
8197	13926	1300	983	1.42	1023	1.60	1063	1.80	1104	2.01	1145	2.25	1189	2.51	1278	3.12	1368	3.83	1458	4.63	1546	5.53
8827	14997	1400	1052	1.74	1090	1.93	1127	2.14	1164	2.36	1202	2.60	1242	2.86	1322	3.46	1406	4.15	1489	4.94	1573	5.82
9458	16068	1500	1122	2.11	1157	2.32	1192	2.53	1227	2.76	1262	3.00	1298	3.27	1372	3.86	1449	4.55	1528	5.32	1605	6.18
10088	17140	1600	1190	2.52	1225	2.75	1258	2.97	1291	3.21	1323	3.47	1356	3.73	1425	4.32	1495	5.00	1568	5.76	1642	6.61
10719	18211	1700	1260	2.99	1295	3.24	1324	3.47	1355	3.72	1386	3.98	1417	4.25	1481	4.85	1546	5.53	1613	6.27	1681	7.11
11349	19282	1800	1328	3.50	1363	3.79	1392	4.03	1421	4.29	1450	4.55	1479	4.83	1538	5.44	1599	6.11	1661	6.86	1728	7.69
11980	20353	1900	1399	4.09	1433	4.40	1460	4.65	1487	4.92	1514	5.19	1542	5.48	1598	6.10	1655	6.77	1712	7.52	1773	8.35
12610	21424	2000	1470	4.74	1502	5.07	1528	5.34	1554	5.61	1580	5.90	1607	6.20	1649	6.70	1712	7.50	1767	8.25	1823	9.05
13871	23567	2200	1612	6.26	1641	6.60	1666	6.92	1690	7.22	1719	7.52	1737	7.84	1785	8.50	1832	9.20	1881	9.95	1931	10.76

Los números en negrito representan la eficiencia Máxima

Bold figures Indicate maximun efficiency

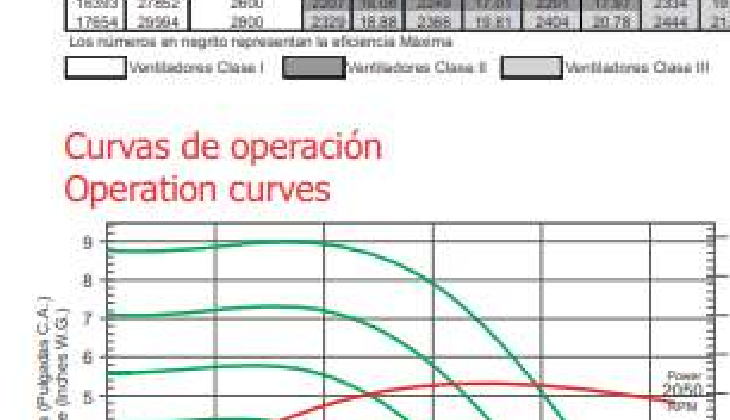
Caudal (Air Flow)		Velocidad Descarga (Outlet Velocity)	Presión Estatica en Pulgadas C.A. (Static Pressure in Inches W. G.) 4"		4.5"		5"		5.5"		6"		6.5"		7"		7.5"		8"		8.5"	
CFM	M³/HR	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7566	12855	1200	1617	6.32	1706	7.43	1794	8.63	–	–	–	–	–	–	–	–	–	–	–	–	–	–
8197	13926	1300	1634	6.52	1719	7.60	1803	8.79	1884	10.00	–	–	–	–	–	–	–	–	–	–	–	–
8827	14997	1400	1656	6.78	1737	7.84	1817	8.96	1895	10.18	1972	11.46	2047	12.83	–	–	–	–	–	–	–	–
9458	16068	1500	1682	7.12	1760	8.15	1836	9.26	1911	10.43	1985	11.69	2057	13.02	2129	14.42	2199	15.91	–	–	–	–
10088	17140	1600	1714	7.53	1788	8.54	1860	9.63	1932	10.78	2003	12.01	2072	13.30	2141	14.67	2208	16.10	2276	17.63	2342	19.19
10719	18211	1700	1751	8.03	1820	9.01	1888	10.06	1957	11.20	2024	12.40	2091	13.67	2156	15.02	2223	16.43	2287	17.88	2353	19.44
11349	19282	1800	1791	8.58	1855	9.55	1921	10.60	1986	11.70	2050	12.88	2114	14.12	2178	15.44	2241	16.83	2303	18.28	2364	19.78
11980	20353	1900	1833	9.21	1885	10.18	1957	11.20	2018	12.29	2080	13.45	2142	14.69	2202	15.97	2263	17.33	2323	18.73	2382	20.21
12610	21424	2000	1880	9.94	1938	10.89	1997	11.90	2055	12.98	2114	14.12	2173	15.33	2231	16.61	2289	17.93	2347	19.32	2404	20.78
13871	23567	2200	1982	11.63	2032	12.55	2085	13.55	2138	14.61	2190	15.71	2244	16.90	2298	18.14	2351	19.41	2404	20.78	–	–
15132	25709	2400	2091	13.67	2137	14.58	2183	15.56	2231	16.61	2279	17.69	2328	18.85	2376	20.06	2425	21.32	–	–	–	–
16393	27852	2600	2207	16.06	2249	17.01	2291	17.97	2334	19.00	2377	20.09	2421	21.22	–	–	–	–	–	–	–	–
17654	29994	2800	2329	18.88	2368	19.81	2404	20.78	2444	21.82	–	–	–	–	–	–	–	–	–	–	–	–

Los números en negrito representan la eficiencia Máxima

Bold figures Indicate maximun efficiency

Ventiladores Clase I / Class I Fans — Ventiladores Clase II / Class II Fans — Ventiladores Clase III / Class III Fans

Curvas de operación
Operation curves



Espectros de potencia sonora
Sound Power level ratings

Revoluciones por minuto (RPM)	Freq.	63	125	250	500	1000	2000	4000	8000	Total	Hz
1430	LwA	82	82	86	80	78	77	73	67	90	dB(A)
1600	LwA	84	83	90	83	81	80	76	70	93	dB(A)
1810	LwA	87	85	93	86	84	83	79	74	95	dB(A)
2050	LwA	90	88	95	91	88	86	83	78	98	dB(A)

Datos obtenidos de acuerdo a la norma AMCA estándar 301
(Information obtained according to the AMCA Standard 301)

KCB-24

Especificaciones técnicas / Performance data

Diametro de Turbina = 24 5/8" Diametro de Descarga= 37" Area de Descarga = 7.467 Ft² RPM Max=Clase I 1540 Clase II 2053 Clase III 2240 Velocidad Tangencial (PPM)=6.447 X RPM BHP Max = 2.55 (RPM/1000)³	Wheel Diameter = 24 5/8" Outlet Diameter= 37" Outlet Area= 7.467 Ft² RPM Max=Clase I 1540 Clase II 2053 Clase III 2240 Tip speed (FPM)= 6.447 X RPM Max. BHP = 2.55 (RPM/1000)³

Caudal (Air Flow)		Velocidad Descarga (Outlet Velocity)	Presión Estatica en Pulgadas C.A. (Static Pressure in Inches W. G.) 0.25"		0.5"		0.75"		1"		1.25"		1.5"		2"		2.5"		3"		3.5"	
CFM	M³/HR	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4480	7612	600	471	0.27	558	0.44	645	0.68	730	0.99	809	1.35	–	–	–	–	–	–	–	–	–	–
5227	8881	700	526	0.37	597	0.54	672	0.77	747	1.06	820	1.41	890	1.80	–	–	–	–	–	–	–	–
5974	10149	800	582	0.50	643	0.68	707	0.90	773	1.18	839	1.50	903	1.88	1026	2.76	–	–	–	–	–	–
6720	11418	900	641	0.67	693	0.85	750	1.07	808	1.35	866	1.66	925	2.02	1039	2.86	1148	3.86	–	–	–	–
7467	12686	1000	701	0.88	749	1.07	797	1.29	848	1.56	901	1.86	953	2.21	1059	3.03	1161	3.99	1259	5.09	1354	6.33
8214	13955	1100	763	1.13	805	1.33	848	1.56	894	1.82	940	2.12	989	2.47	1085	3.25	1179	4.18	1272	5.25	1362	6.45
8960	15224	1200	825	1.43	863	1.64	903	1.88	943	2.14	985	2.44	1028	2.77	1116	3.55	1204	4.45	1291	5.49	1376	6.64
9707	16492	1300	887	1.78	923	2.00	959	2.25	996	2.52	1033	2.81	1073	3.15	1153	3.91	1234	4.79	1315	5.80	1395	6.92
10454	17761	1400	949	2.18	983	2.42	1016	2.68	1050	2.95	1085	3.25	1120	3.58	1193	4.33	1268	5.20	1344	6.20	1419	7.29
11201	19030	1500	1012	2.64	1044	2.90	1076	3.17	1108	3.45	1138	3.76	1171	4.09	1238	4.84	1307	5.69	1377	6.66	1448	7.74
11947	20298	1600	1074	3.16	1105	3.44	1135	3.73	1165	4.03	1193	4.33	1221	4.64	1285	5.41	1349	6.26	1415	7.22	1481	8.28
12694	21567	1700	1136	3.74	1168	4.06	1195	4.35	1223	4.66	1251	4.99	1278	5.33	1336	6.07	1395	6.92	1456	7.86	1517	8.91
13441	22836	1800	1199	4.40	1230	4.74	1255	5.05	1282	5.37	1308	5.70	1335	6.06	1388	6.82	1442	7.65	1499	8.60	1557	9.62
14187	24104	1900	1261	5.12	1293	5.51	1317	5.82	1341	6.16	1366	6.50	1392	6.88	1441	7.63	1493	8.48	1546	9.42	1599	10.43
14934	25373	2000	1326	5.94	1355	6.35	1379	6.69	1403	7.04	1425	7.38	1449	7.76	1497	8.55	1545	9.40	1594	10.33	1645	11.34
16427	27910	2200	1454	7.84	1480	8.26	1503	8.67	1524	9.03	1546	9.42	1568	9.82	1610	10.64	1654	11.53	1697	12.46	1741	13.47

Los números en negrito representan la eficiencia Máxima

Bold figures Indicate maximun efficiency

Caudal (Air Flow)		Velocidad Descarga (Outlet Velocity)	Presión Estatica en Pulgadas C.A. (Static Pressure in Inches W. G.) 4"		4.5"		5"		5.5"		6"		6.5"		7"		7.5"		8"		8.5"	
CFM	M³/HR	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8960	15224	1200	1459	7.02	1540	8.31	1618	10.80	–	–	–	–	–	–	–	–	–	–	–	–	–	–
9707	16492	1300	1474	8.16	1551	9.31	1627	10.59	1700	12.53	1772	14.19	–	–	–	–	–	–	–	–	–	–
10454	17761	1400	1494	8.50	1567	9.81	1639	11.22	1710	12.75	1779	14.38	1847	16.07	1913	17.88	–	–	–	–	–	–
11201	19030	1500	1518	8.92	1587	10.20	1657	11.59	1724	13.06	1791	14.65	1856	16.31	1920	18.08	1984	19.93	2046	21.83	–	–
11947	20298	1600	1547	9.44	1613	10.70	1678	12.05	1742	13.49	1807	15.04	1870	16.67	1932	18.39	1992	20.17	2053	22.05	2112	24.02
12694	21567	1700	1579	10.05	1642	11.28	1704	12.62	1762	13.96	1826	15.54	1887	17.13	1946	18.79	2005	20.56	2064	22.41	2121	24.32
13441	22836	1800	1615	10.74	1674	11.97	1733	13.25	1792	14.67	1850	16.15	1907	17.70	1965	19.34	2022	21.08	2078	22.89	2134	24.77
14187	24104	1900	1655	11.56	1710	12.75	1765	14.03	1822	15.41	1877	16.88	1932	18.39	1987	20.02	2042	21.71	2096	23.48	2149	25.32
14934	25373	2000	1698	12.44	1748	13.63	1802	14.91	1854	16.25	1907	17.70	1960	19.19	2012	20.77	2065	22.44	2117	24.19	2168	25.99
16427	27910	2200	1788	14.57	1834	15.74	1881	16.96	1929	18.31	1977	19.69	2025	21.17	2072	22.70	2121	24.32	2169	26.03	2217	27.77
17921	30447	2400	1887	17.13	1928	18.28	1971	19.52	2013	20.80	2057	22.18	2100	23.62	2145	25.15	2188	26.71	2232	28.37	–	–
19414	32985	2600	1991	20.14	2028	21.30	2066	22.50	2106	23.82	2145	25.15	2185	26.60	2225	28.07	–	–	–	–	–	–
20908	35522	2800	2101	23.85	2135	24.80	2169	26.03	2205	27.33	2240	28.67	–	–	–	–	–	–	–	–	–	–

Los números en negrito representan la eficiencia Máxima

Bold figures Indicate maximun efficiency

Ventiladores Clase I / Class I Fans — Ventiladores Clase II / Class II Fans — Ventiladores Clase III / Class III Fans

Curvas de operación
Operation curves

Espectros de potencia sonora
Sound Power level ratings

Revoluciones por minuto (RPM)	Freq.	63	125	250	500	1000	2000	4000	8000	Total	Hz
1350	LwA	85	85	86	82	80	78	74	68	91	dB(A)
1460	LwA	86	85	89	83	81	80	76	70	93	dB(A)
1640	LwA	87	86	93	86	84	83	79	74	96	dB(A)
1800	LwA	90	87	96	89	87	86	82	77	98	dB(A)

Datos obtenidos de acuerdo a la norma AMCA estándar 301
(Information obtained according to the AMCA Standard 301)

KCB/KCBR

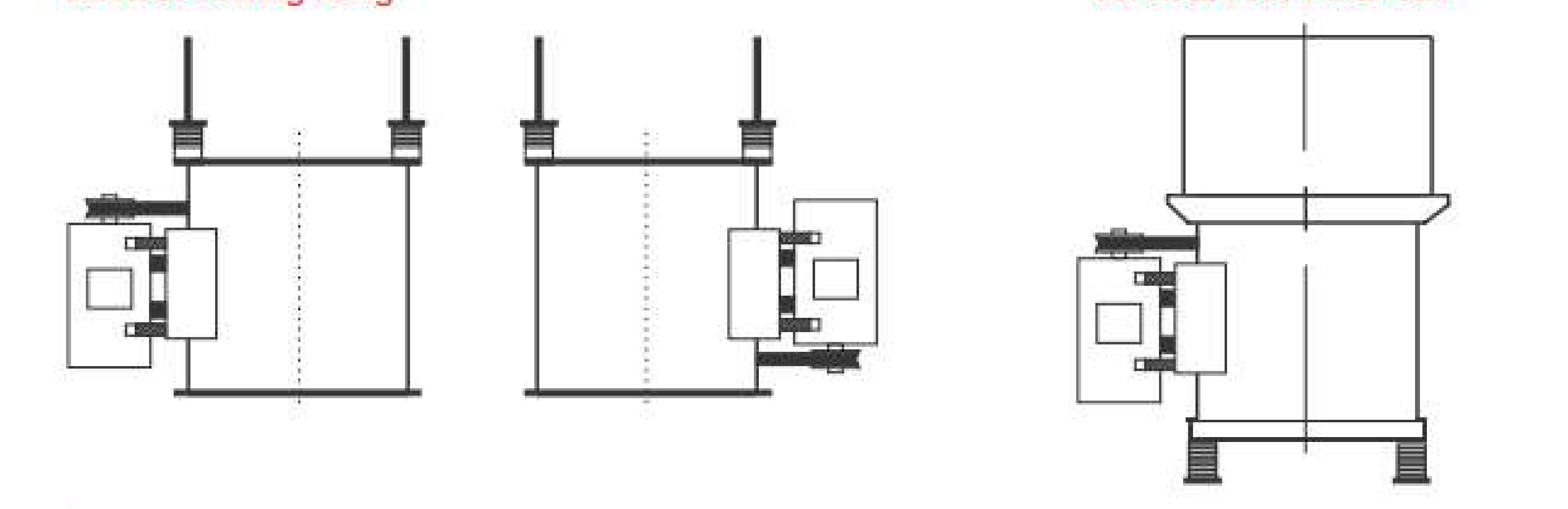
Tipos de montaje y posiciones del motor / Mounting configurations

Montaje horizontal en piso / Horizontal floor mounted

Montaje horizontal en techo tipo colgante / Horizontal ceiling hung

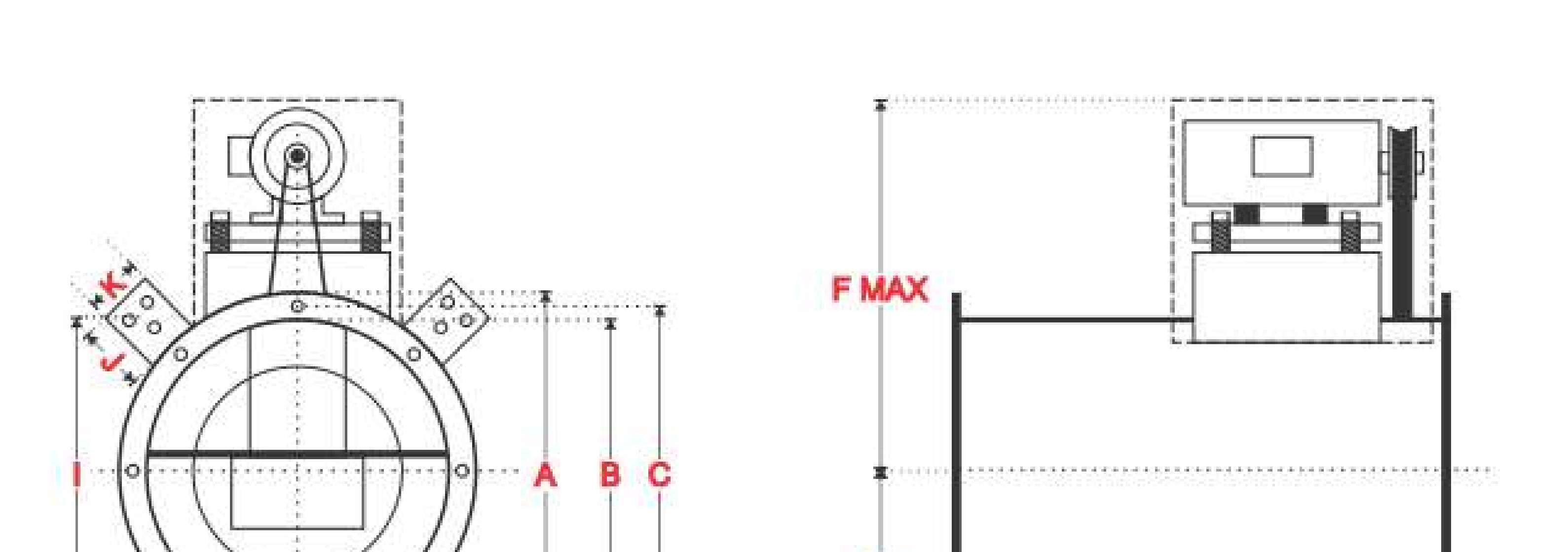
Montaje vertical en techo tipo colgante / Vertical ceiling hung

Montaje vertical en azotea / Vertical roof mounted



KCB

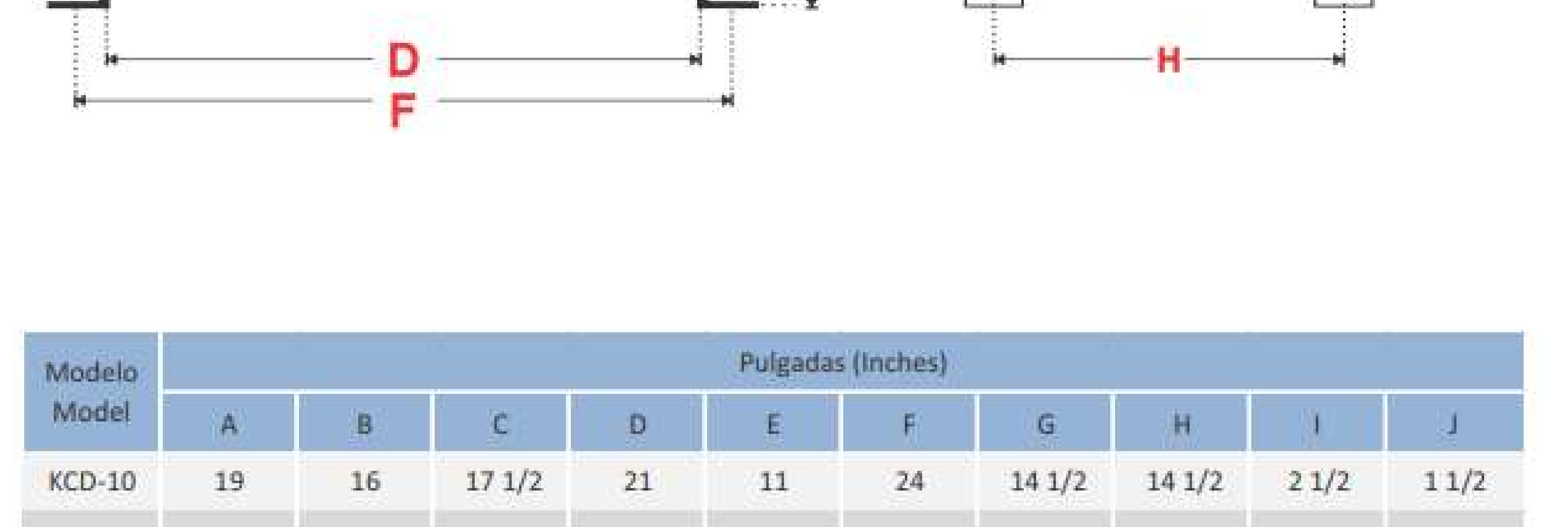
Dimensiones generales / Dimensions



Modelo Model	Pulgadas (Inches) A	B	C	D	E	F MAX	G	H	I	J	K
KCB-10	19	16	17 1/2	21	11	21	24	14 1/2	14 1/2	1 1/2	2 1/2
KCB-12	21	18	19 1/2	23	12	22	26	15 7/8	15 7/8	1 1/2	2 1/2
KCB-13	24	21	22 1/2	26	13 1/2	25 1/2	29	18	18	1 1/2	2 1/2
KCB-15	27	24	25 1/2	28	15 1/4	28 1/4	31	20 1/8	20 1/8	1 1/2	2 1/2
KCB-16	29	26	27 1/2	30	16 1/4	30 1/4	33	21 5/8	21 5/8	1 1/2	2 1/2
KCB-18	31	28	29 1/2	32	17 1/4	31 1/4	35	24 1/4	24 1/4	2	3
KCB-20	35	31	33	34	19 1/2	33 1/2	37	27 1/4	27 1/4	2	3
KCB-22	38	34	36	37	21	36	40	28 1/4	28 1/4	2	3
KCB-24	41	37	39	41	22 1/2	37 1/2	44	30 3/8	30 3/8	2	3

KCD

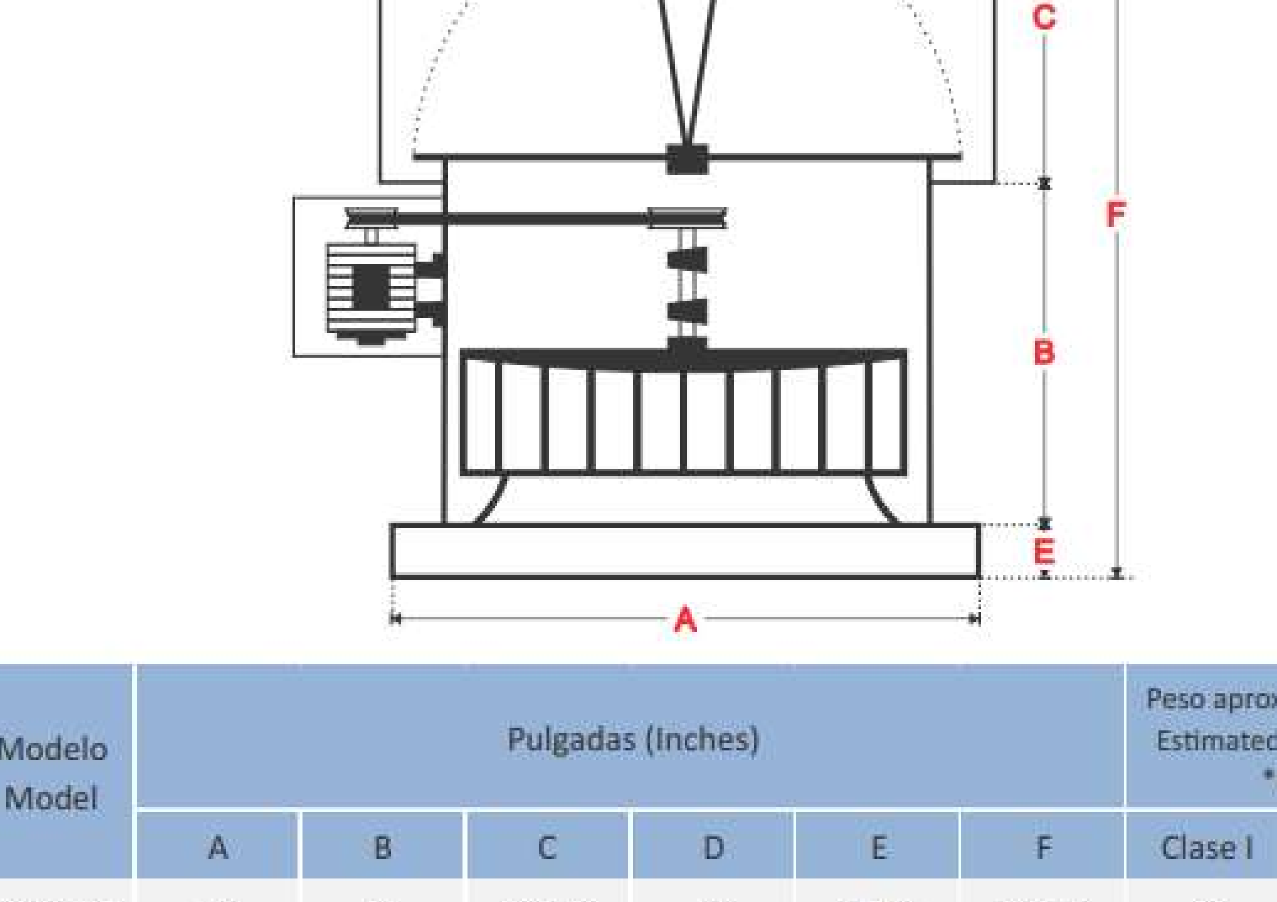
Dimensiones generales / Dimensions



Modelo Model	Pulgadas (Inches) A	B	C	D	E	F	G	H	I	J
KCD-10	19	16	17 1/2	21	11	24	14 1/2	14 1/2	2 1/2	1 1/2
KCD-12	21	18	19 1/2	23	12	26	15 7/8	15 7/8	2 1/2	1 1/2
KCD-13	24	21	22 1/2	26	13 1/2	29	18	18	2 1/2	1 1/2
KCD-15	27	24	25 1/2	28	15 1/4	31	20 1/8	20 1/8	2 1/2	1 1/2
KCD-16	29	26	27 1/2	30	16 1/4	33	21 5/8	21 5/8	2 1/2	1 1/2
KCD-18	31	28	29 1/2	32	17 1/4	35	24 1/4	24 1/4	3	2
KCD-20	35	31	33	34	19 1/2	37	27 1/4	27 1/4	3	2
KCD-22	38	34	36	37	21	40	28 1/4	28 1/4	3	2
KCD-24	41	37	39	41	22 1/2	44	30 3/8	30 3/8	3	2

KCBR

Dimensiones generales / Dimensions



Modelo Model	Pulgadas (Inches) A	B	C	D	E	F	Peso aprox ventilador Estimated fan weight *(lbs) Clase I	Clase II
KCBR-10	22	19	14 1/2	23	2 3/4	36 1/4	83	90
KCBR-12	24	21	15 1/2	25	2 3/4	39 1/4	112	121
KCBR-13	27	24	17	28	2 3/4	43 3/4	140	149
KCBR-15	30	26	18 1/2	31	2 3/4	47 1/4	150	163
KCBR-16	32	28	19 1/2	33	2 3/4	50 1/4	229	250
KCBR-18	34	30	20 1/2	35	2 3/4	53 1/4	234	253
KCBR-20	38	32	22 1/2	39	2 3/4	57 1/4	293	319
KCBR-22	41	35	24	42	2 3/4	61 3/4	438	463
KCBR-24	44	39	25 1/2	45	2 3/4	67 1/4	524	607

* Peso ventilador sin motor y transmisión
* Fan Weight without motor and drive