

 **FLOWTECH CO., LTD.**

THE FLOWTECH GROUP

● **TAIPEI**
19F-5, No.1, Baosheng Rd., Yonghe dist. New Taipei City 234, Taiwan
Tel: +886 2-2232-8066 Fax: +886 2-2231-0285-6
E-mail: ydc28066@ms36.hinet.net , flow.tech@msa.hinet.net
<http://www.flowtech.com.tw>

● **Factory**
No.658, Meilin Rd., De-an Village, Dongshan Shiang,
Yilan County, Taiwan 269
Tel: +886 3-9612-449 Fax: +886 3-9614-413

● **Lab**
No.102, Neihu 1st Rd., Dongshan Township,
Yilan County, Taiwan 269
Tel: +886 3-9612-449 Fax: +886 3-9614-413

CNO.:CAT-ILF-September 2014

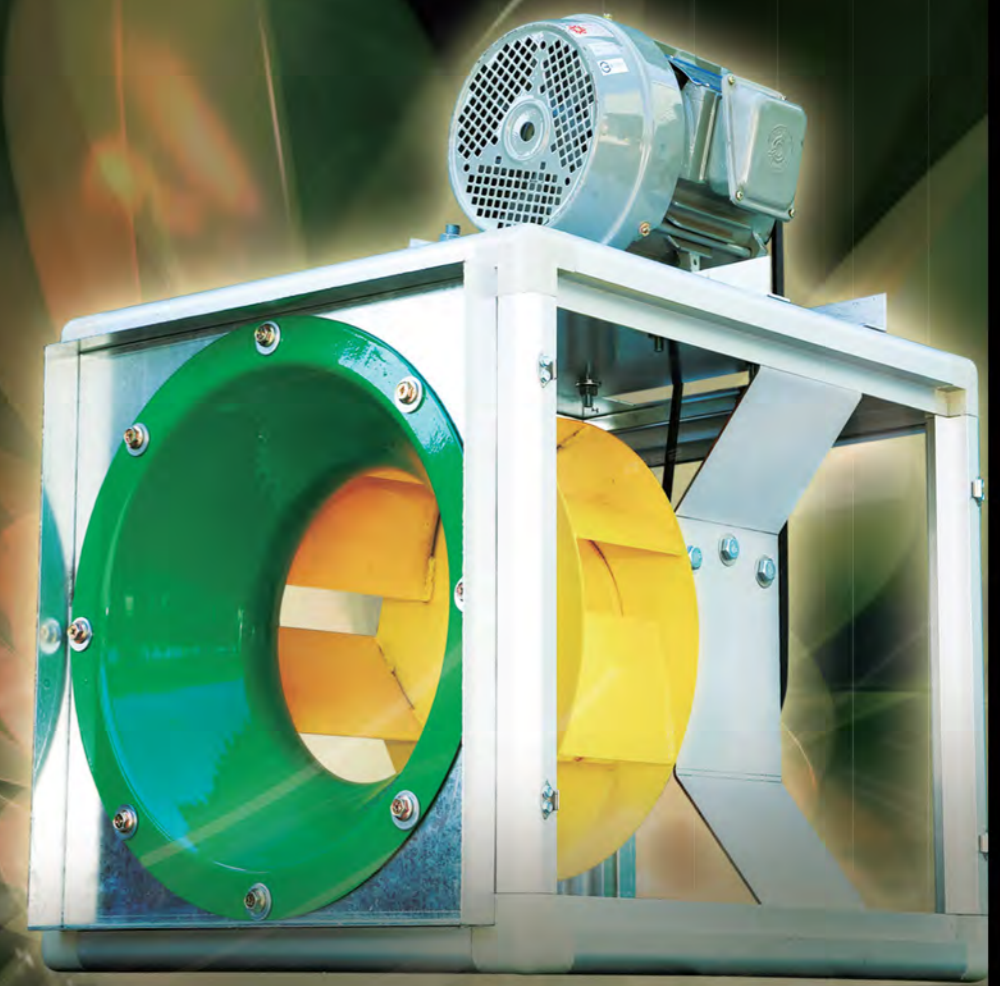
AGENT :



ILF Series
InLine Centrifugal Fan


POWER VENTILATOR
45GD

 **FLOWTECH**



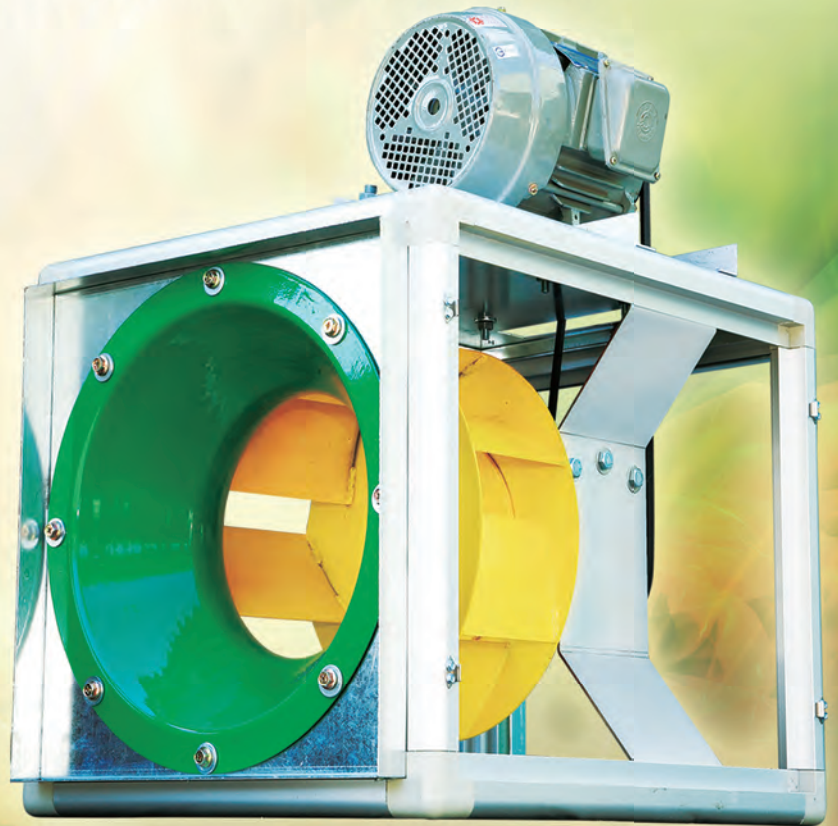


ILF

InLine Centrifugal Fan

Flowtech®
Series

Flowtech Co., Ltd. Certifies that Model ILF and ILF-D shown on pages 10-24 is 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.



POWER VENTILATOR
45GD

ILF Series are listed for electrical
(UL/cUL 705) File no. E323432



GLOBALY RECOGNIZED CERTIFICATIONS AND STANDARDS

Ventilation Performance and Smoke management Laboratory

Any series of ventilation products such as fans, dampers required performance and quality requirements, can be provided by the laboratory for a full range of testing services. Technical requirements with an independent and impartial implementation for each test was supervision under by TAF, hence, all the domestic public works and fire safety related with ventilation products, do not have to shift the products to oversea for testing, and those owners and consultants would not have the trouble for witnessed commuting to foreign countries any more, this even saving more time and costs.



The only UL certification LAB. in ASIA.



TUV certificates



TAF LAB certificates



Fan Performance Testing Facility

- | Standards | |
|-----------|-------------|
| AMCA 210 | BS 848-1 |
| ISO 5801 | DIN 24163-2 |

Smoke Damper Leakage Testing Facility

- | Standards | |
|-----------|-----------|
| AMCA 500 | ISO 10294 |
| UL 555S | GB 15930 |

Louver Pressure Drop Testing Facility

- | Standards |
|-----------|
| AMCA 500 |

Silencer / Acoustical Louver Testing Facility

- | Standards | |
|-----------|----------|
| ASTM-E477 | ISO 7235 |

Jet Fan Thrust Testing Facility

- | Standards | |
|-----------|-----------|
| ISO 13350 | BS 848-10 |

Fire Damper Testing Facility

- | Standards |
|-----------|
| UL 555 |

- | Standards | AMCA 210 | ASHRAE 149 | BS 848-10 | ISO 7235 |
|-----------|-----------|-------------|------------|-----------|
| | AMCA 300 | DIN 24163-2 | GA 211 | ISO 10294 |
| | AMCA 500 | BS 7346-2 | GB 15930 | ISO 13350 |
| | AS 4429 | BS 848-1 | EN 12101-3 | UL 555 |
| | ASTM-E477 | BS 848-2 | ISO 5801 | UL 555S |



Exhaust Duct exit of Reverberant



Multiple Nozzles for Flow Measurement



Silencer in Exhaust Duct

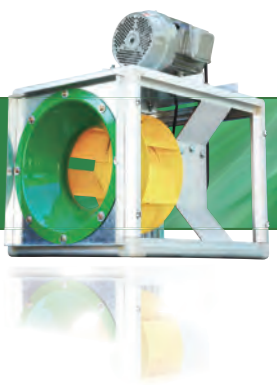


Reverberant Room
360°Routing Microphone in Reverberant



Flow Straightener





ILF Series

ILF Series Single Inlet Centrifugal Fans Backward wheels

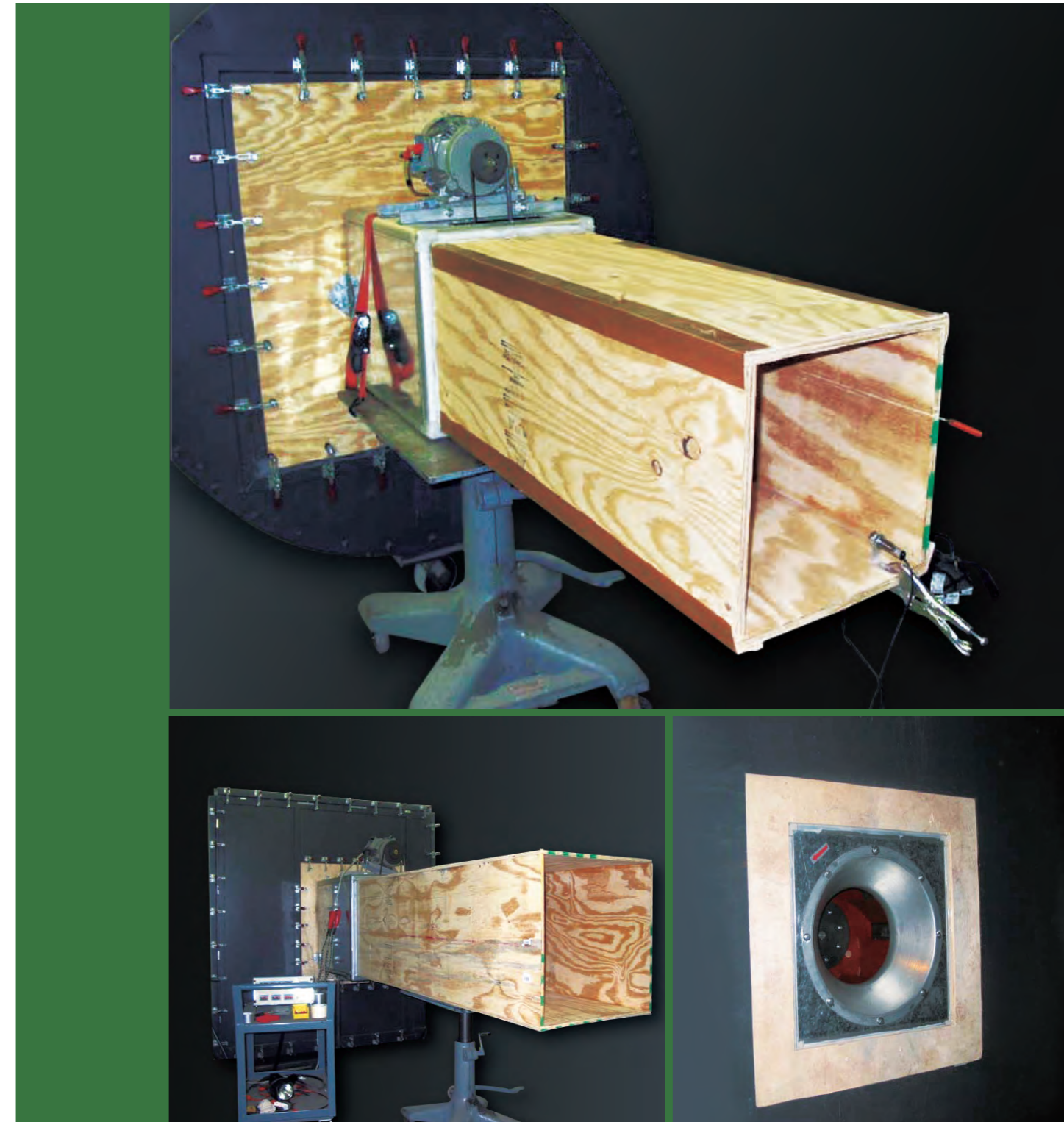
The ILF series is InLine centrifugal Fans with high efficiency through ducted air system. The backward centrifugal wheel assures efficient operation against the resistance of a ducted application. The square housing design adapts easily to square and rectangular ducts. The ILF series is SWSI centrifugal fans with high efficiency non-overloading backward impellers. Sizes of this series are in accordance with AMCA standard 99-0098 -00 R20

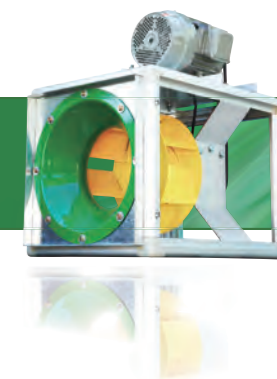
Designation, Formula signs

ILF - 630
 Wheel Diameter(mm) : 355~1250
 Model : InLine Fan

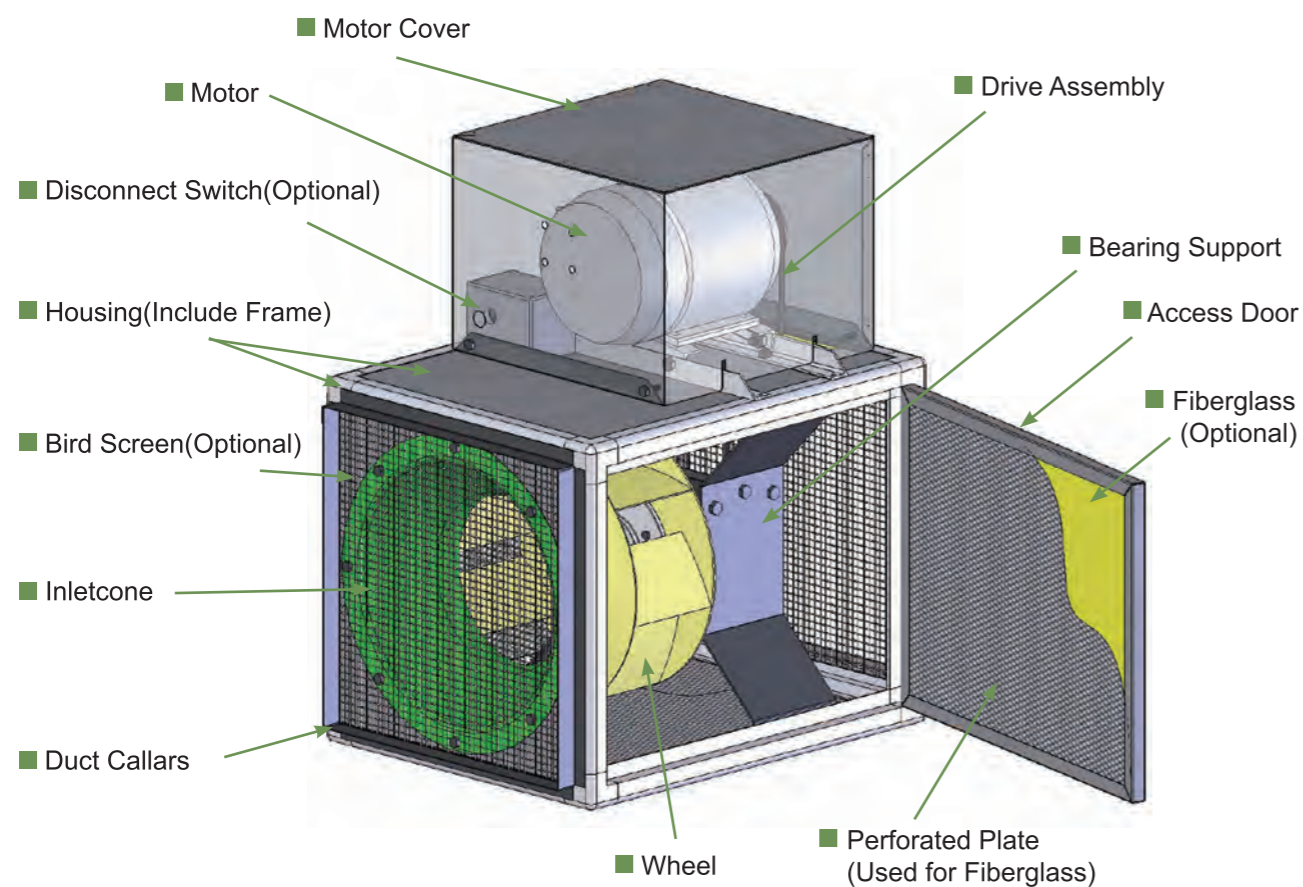
ILF - 25 D
 D:Direct Type
 Wheel Diameter(mm) : 250~500
 Model : InLine Fan

ILF Series Air and Sound Performance Test In Laboratory





Construction Features



Housing

■ The Fan Housing is constructed of Aluminum alloy or others structural members and formed galvanized steel \ stainless steel or other panels. Aluminum construction have several sizes, it can use in all series. The galvanized steel panels can use fiberglass to decrease noise.

Centrifugal Wheel

■ Wheel are non overloading, backward inclined centrifugal type. Wheel cones are carefully matched to the venture for maximum efficiency. Each wheel are statically and dynamically balanced to ISO 1940 and AMCA 204-G2.5 standards. Centrifugal Wheel is made of mild steel \ stainless steel \ aluminum alloy or others, and could be anodized film and painted.

Inletcone

■ The Inletcone is made of mild steel \ stainless steel \ aluminum alloy or others. The aerodynamically inletcones are bolted in and guarantee a perfect inlet stream onto the impeller. Inletcone also could be anodized film and painted to prevent corrosion.

Shaft

■ Shafts are manufactured from stainless steel or ISO C45(JIS S45C ; AISI C1045) carbon steel then coated with an anti-corrosion varnish after assembly. Shaft makes contact with bearings, close tolerances result in longer bearing life. Shaft is precisely sized, ground, and polished so the first critical speed is at least 25% over the maximum operating speed.

Bearings

■ Bearings basic rating level according to AFBMA. Designed for minimum L10 life in exceeds 45,000 hours , L50 life in exceeds 225,000 hours. Bearing are selected for continuous operation and ample size for best possible operating results.

Motor

■ Motor - Carefully matched to the fan load and is mounted out of air stream. Less transferring inertia, more accelerating torque, that can improve working efficiency for starting, stopping with frequent machine. Adopt IEC (International Electrotechnical Commission) NEMA (National Electrical Manufacturers Association) international standard size. Adopt heat-resistant, water tolerance, E/B/F grade insulating material able to bear chemistry, the safe durable life-span is the longest.

Belt Drives

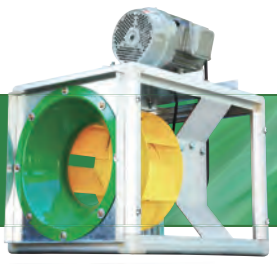
■ Belt and Drive(Belt units only). Belts shall be heat and oil resistant, non-static type. Drives shall be precision machined cast iron type, keyed and securely attached to the wheel and motor shafts. Drives shall be sized for 150% of the installed motor horsepower.

Birdscreen

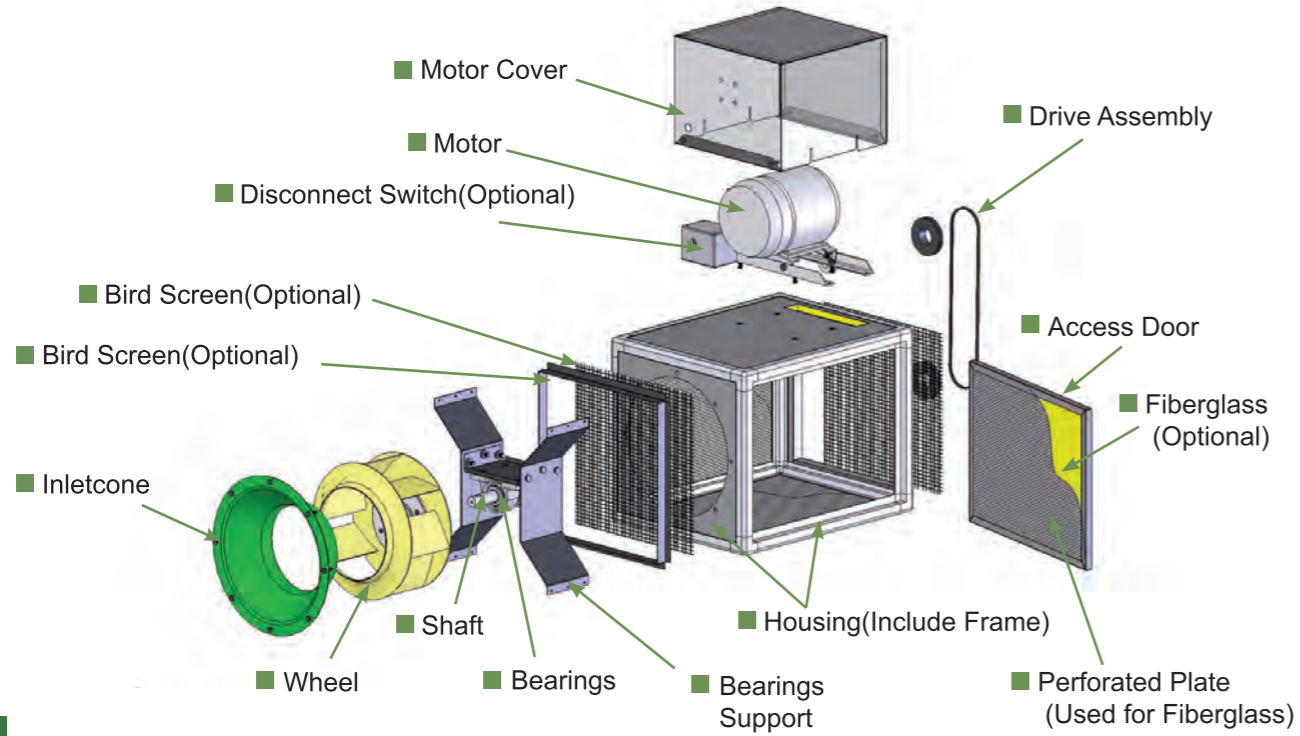
■ A birdscreen. The birdscreen produces minimal effect on air. And sound performance. The size may be 10~20 mm square mesh or another size . The birdscreen material could be galvanized sheet metal or stainless steel.

Additional Component

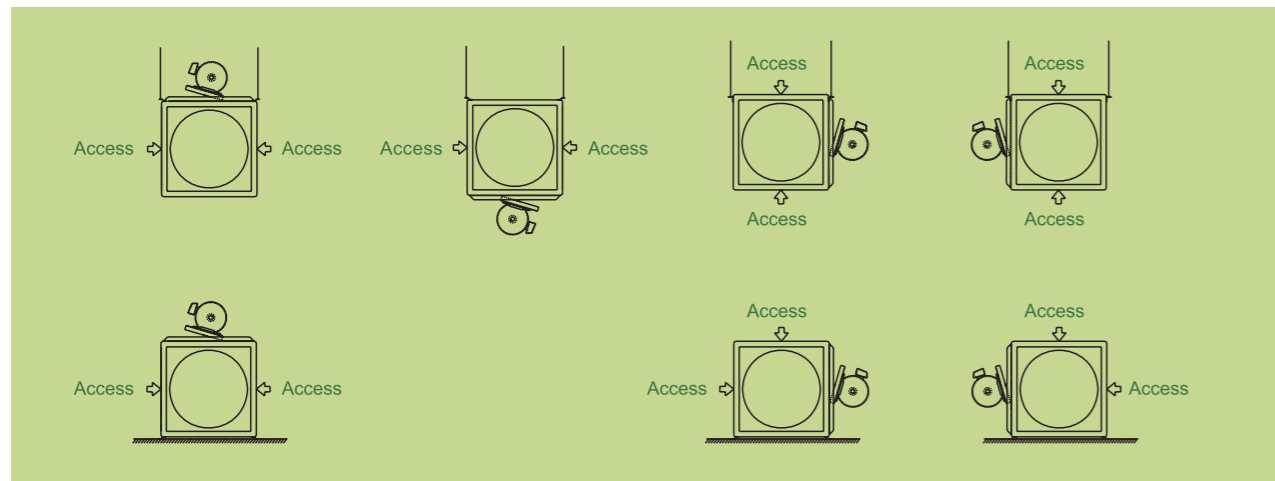
■ Disconnect Switch-It has two kinds of model, one is no fuse switch, another is cut out switch.



Fan Layout Drawing



Horizontal and Vertical Mounting

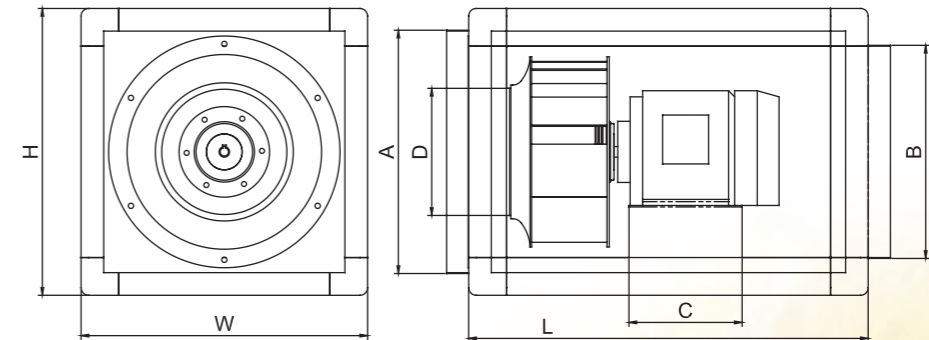


Vibration Isolators
Hanging Isolators
Base Isolators

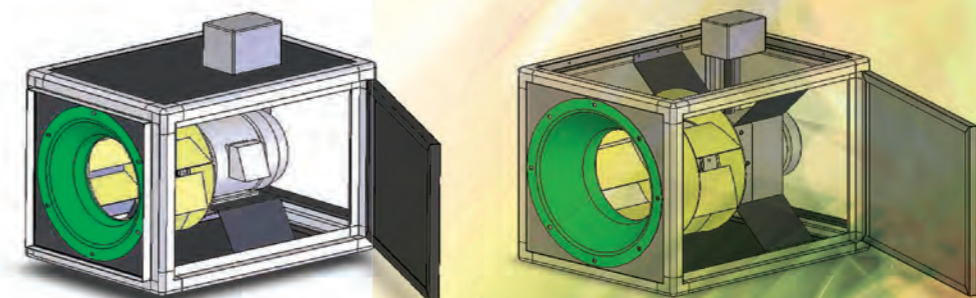
Explanation of symbols

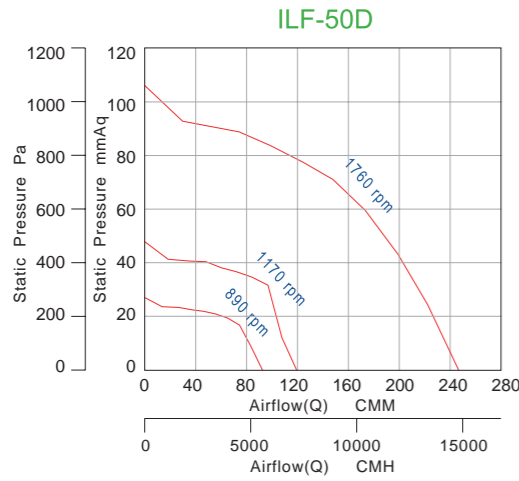
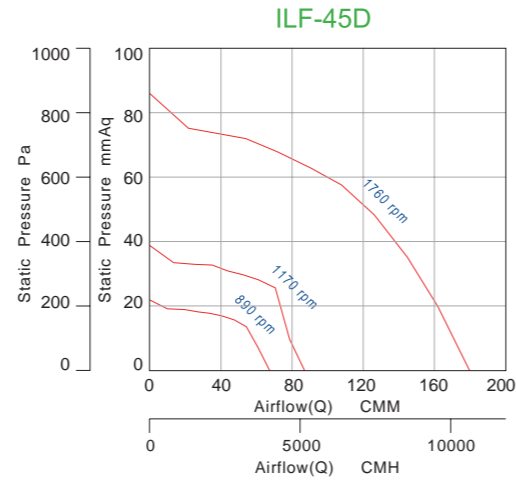
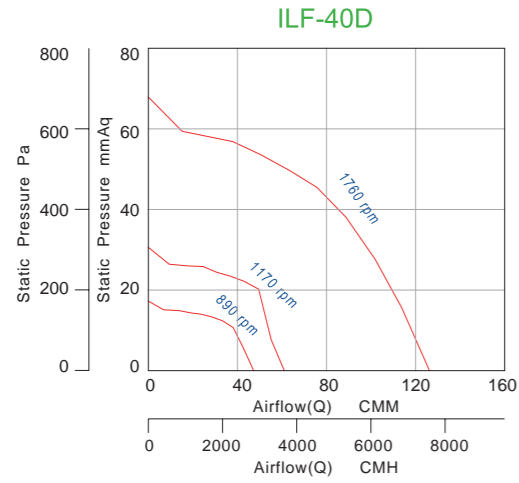
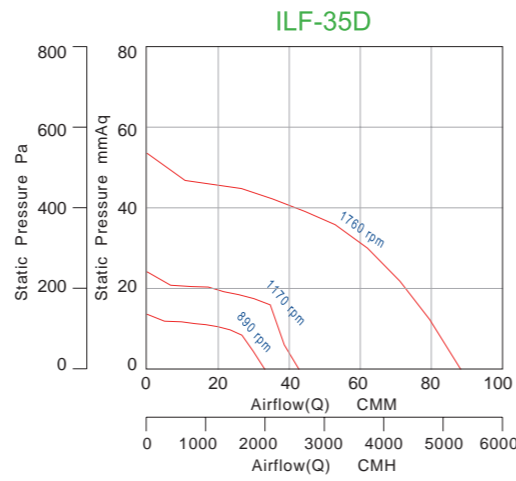
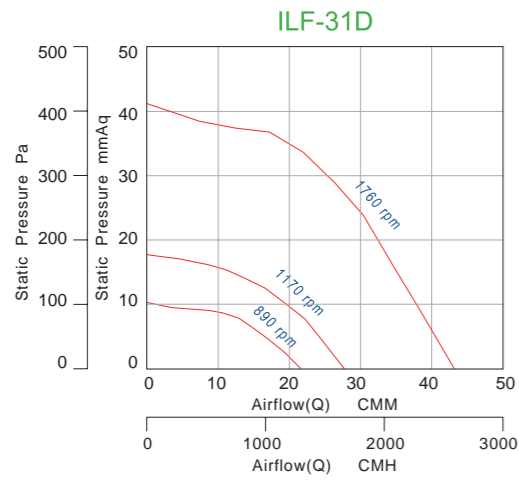
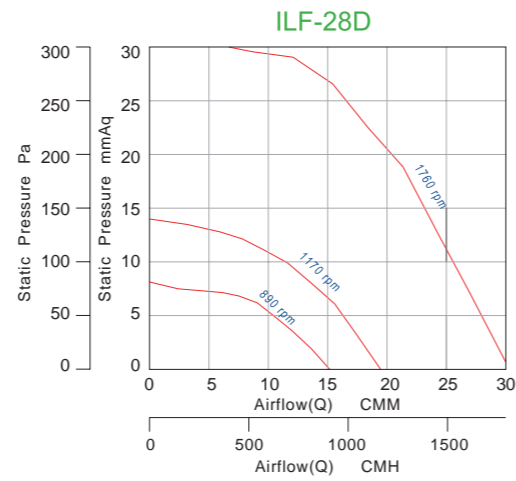
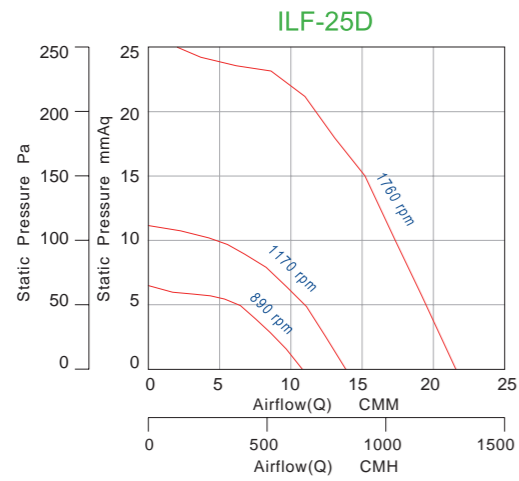
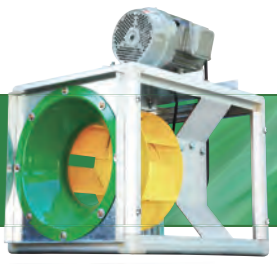
Symbol	Appellation	Unit
Q	Air flow	m ³ /min
Ps	Static pressure	mmAq
H	Fan power requirement	KW
r	Density of the medium	Kg/m ³
Lwo	Sound power level at outlet	dB
LwoA	Sound power level at outlet , A-weighted	dB

ILF Series Performance and sound Date



Model Size	Dimensions in millimeter (mm)							Outlet Area (m ²)
	A	B	C	D	W	H	L	
ILF-25D	320	280	150	166	380	380	530	0.08
ILF-28D	365	325	168	186	425	425	560	0.11
ILF-31D	440	380	189	209	480	480	610	0.14
ILF-35D	430	390	150	226.5	490	490	620	0.15
ILF-40D	495	455	169	256	555	555	700	0.21
ILF-45D	560	520	190	287	620	620	786	0.27
ILF-50D	630	550	211	318	690	690	873	0.30

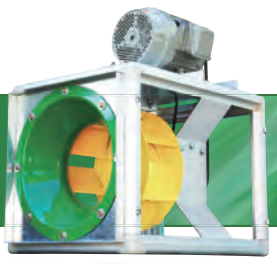




Performance certified is for installation type B - Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Model Size	RPM		STATIC PRESSURE (Ps) mmAq								
			5	10	20	30	40	50	60	70	
ILF-25D	1760	Q , CMM	19.48	17.32	11.75						
		H , KW	0.14	0.15	0.15						
		Lwo , dB	98	98	99						
		LwoA , dB	80	80	81						
ILF-25D	1170	Q , CMM	10.96	4.72							
		H , KW	0.03	0.03							
		Lwo , dB	87	86							
		LwoA , dB	67	66							
ILF-28D	1760	Q , CMM	27.96	25.57	20.42						
		H , KW	0.25	0.26	0.26						
		Lwo , dB	103	103	102						
		LwoA , dB	83	83	83						
ILF-28D	1170	Q , CMM	16.29	11.46							
		H , KW	0.06	0.06							
		Lwo , dB	90	89							
		LwoA , dB	70	69							
ILF-31D	1760	Q , CMM	40.52	37.86	32.46	24.95					
		H , KW	0.45	0.46	0.47	0.48					
		Lwo , dB	106	106	105	105					
		LwoA , dB	86	86	86	86					
ILF-31D	1170	Q , CMM	24.16	19.57							
		H , KW	0.11	0.11							
		Lwo , dB	94	93							
		LwoA , dB	74	72							
ILF-31D	890	Q , CMM	16.51								
		H , KW	0.06								
		Lwo , dB	88								
		LwoA , dB	70								
ILF-35D	1760	Q , CMM	84.72	81.18	72.76	62.03	41.78				
		H , KW	0.91	0.96	1.02	1.06	0.95				
		Lwo , dB	88	87	86	88	91				
		LwoA , dB	83	81	80	77	76				
ILF-35D	1170	Q , CMM	39.29	37.01	18.52						
		H , KW	0.19	0.23	0.20						
		Lwo , dB	87	86	91						
		LwoA , dB	71	70	70						
ILF-35D	890	Q , CMM	29.40	22.16							
		H , KW	0.08	0.10							
		Lwo , dB	83	83							
		LwoA , dB	66	66							

- Performance certified is for Installation type B-Free inlet , ducted outlet. Performance ratings do not include the effects of appurtenances(accessories) .
 - The A-weighted sound ratings shown have been calculated per AMCA InternationalStandard 301. Values shown are for outlet Lwo and LwoA sound power levels for installation type B-Free inlet, ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.
 Lwo : Sound power level transmitted to the outlet duct from fan
 LwoA : Sound power level at outlet , A-weighted

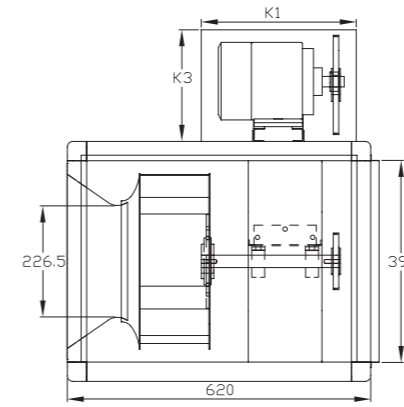


Model Size	RPM		STATIC PRESSURE (Ps) mmAq							
			5	10	20	30	40	50	60	70
ILF-40D	1760	Q , CMM	122.26	118.28	109.44	98.89	85.37	62.36		
		H , KW	1.64	1.71	1.81	1.88	1.91	1.76		
		Lwo , dB	91	91	90	89	91	95		
		LwoA , dB	86	85	84	82	81	79		
ILF-40D	1170	Q , CMM	57.23	54.15	49.67					
		H , KW	0.34	0.39	0.49					
		Lwo , dB	91	90	90					
		LwoA , dB	75	74	71					
ILF-40D	890	Q , CMM	43.22	38.76						
		H , KW	0.13	0.18						
		Lwo , dB	86	82						
		LwoA , dB	69	68						
ILF-45D	1760	Q , CMM	175.27	170.79	161.77	150.59	137.94	122.79	99.78	62.48
		H , KW	2.94	3.03	3.20	3.32	3.41	3.45	3.31	2.75
		Lwo , dB	95	95	94	93	96	96	98	98
		LwoA , dB	90	89	88	87	86	84	83	83
ILF-45D	1170	Q , CMM	82.64	78.44	73.40	50.05				
		H , KW	0.59	0.66	0.81	0.77				
		Lwo , dB	95	94	93	98				
		LwoA , dB	79	78	76	76				
ILF-45D	890	Q , CMM	62.75	57.88						
		H , KW	0.21	0.29						
		Lwo , dB	90	87						
		LwoA , dB	73	72						
ILF-50D	1170	Q , CMM	114.49	109.69	103.31	97.72	50.02			
		H , KW	0.98	1.08	1.28	1.48	1.10			
		Lwo , dB	98	97	96	96	101			
		LwoA , dB	82	81	80	78	80			
ILF-50D	890	Q , CMM	87.28	82.04	60.93					
		H , KW	0.32	0.44	0.54					
		Lwo , dB	93	93	92					
		LwoA , dB	76	75	74					

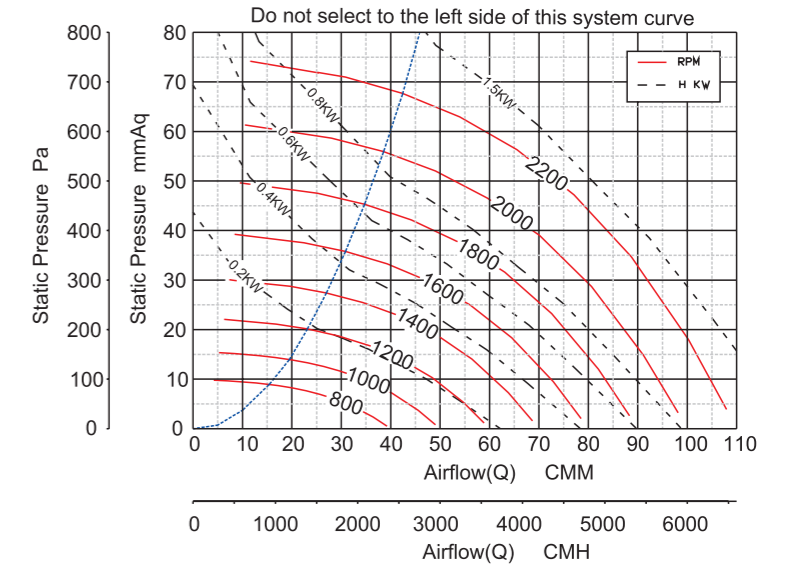
- Performance certified is for Installation type B-Free inlet , ducted outlet. Performance ratings do not include the effects of appurtenances(accessories) .
 - The A-weighted sound ratings shown have been calculated per AMCA InternationalStandard 301. Values shown are for outlet Lwo and LwoA sound power levels for installation type B-Free inlet, ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.
 Lwo : Sound power level transmitted to the outlet duct from fan
 LwoA : Sound power level at outlet , A-weighted

ILF-355

WHEEL : 360 mm
 OUTLET : 390 x 390 mm (W x H, outside) :
 0.1521 m² : (outside area)



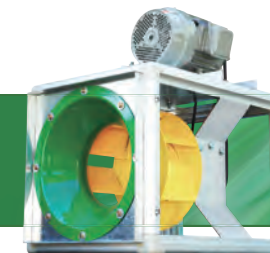
■ Dimensions shown in millimeters. Motor cover is optional. Dimensions may vary with motor size.



Q : cmm Ps : mmAq H : KW r : 1.2kg/m³

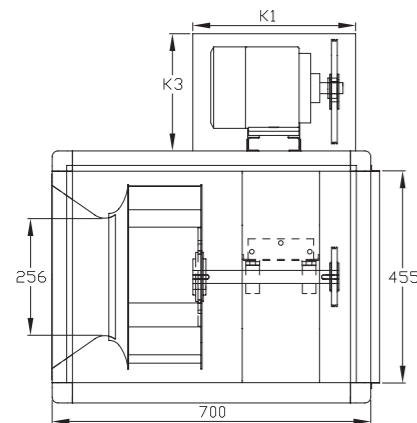
RPM		STATIC PRESSURE (Ps)					
		5	10	20	30	40	50
900	Q , CMM	38					
	H , KW	0.09					
	Lwo , dB	75					
	LwoA , dB	65					
1100	Q , CMM	50	43				
	H , KW	0.16	0.17				
	Lwo , dB	81	80				
	LwoA , dB	71	69				
1300	Q , CMM	61	56	39			
	H , KW	0.26	0.27	0.28			
	Lwo , dB	86	86	84			
	LwoA , dB	75	74	71			
1500	Q , CMM	72	68	56			
	H , KW	0.39	0.41	0.43			
	Lwo , dB	90	90	87			
	LwoA , dB	78	78	76			
1700	Q , CMM	83	79	70	58		
	H , KW	0.55	0.58	0.61	0.62		
	Lwo , dB	93	92	91	91		
	LwoA , dB	82	81	80	78		
1900	Q , CMM	93	90	83	73	61	
	H , KW	0.76	0.80	0.84	0.86	0.86	
	Lwo , dB	95	95	95	93	93	
	LwoA , dB	84	85	83	82	81	
2100	Q , CMM	103	101	94	87	78	66
	H , KW	1.02	1.06	1.12	1.15	1.17	1.16
	Lwo , dB	98	97	97	96	95	95
	LwoA , dB	88	87	87	85	84	84

- Performance certified is for Installation type B-Free inlet , ducted outlet. Performance ratings do not include the effects of appurtenances(accessories) . Power rating H(KW) includes transmission losses.
 - The A-weighted sound ratings shown have been calculated per AMCA InternationalStandard 301. Values shown are for outlet Lwo and LwoA sound power levels for installation type B-Free inlet, ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.
 Lwo : Sound power level transmitted to the outlet duct from fan
 LwoA : Sound power level at outlet , A-weighted

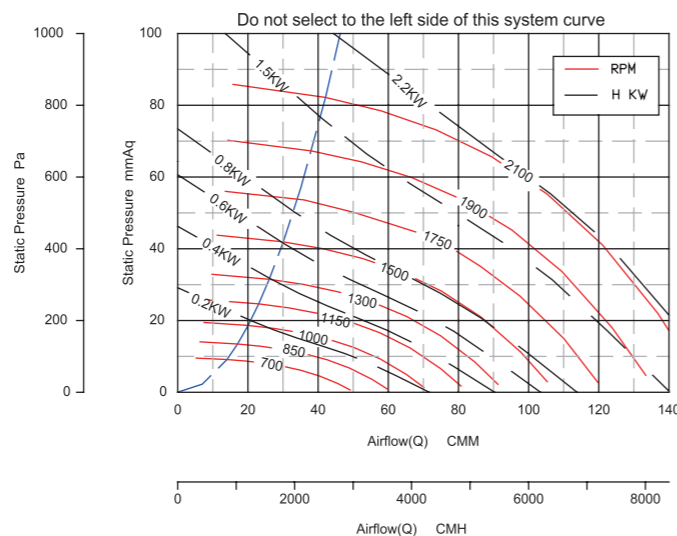


ILF-400

WHEEL : 405 mm
 OUTLET : 455 × 455 mm (W × H ,outside) :
 0.207 m² : (outside area)



■ Dimensions shown in millimeters. Motor cover is optional. Dimensions may vary with motor size.



Q : cmm Ps : mmAq H : KW r : 1.2kg/m³

RPM		STATIC PRESSURE (Ps)					
		5	10	20	30	40	50
800	Q , CMM	48	32				
	H , KW	0.12	0.12				
	Lwo , dB	74	72				
1000	Q , CMM	65	56				
	H , KW	0.22	0.23				
	Lwo , dB	82	80				
1200	Q , CMM	81	74	56			
	H , KW	0.36	0.38	0.39			
	Lwo , dB	88	87	86			
1400	Q , CMM	96	91	78			
	H , KW	0.56	0.60	0.62			
	Lwo , dB	92	92	90			
1600	Q , CMM	111	107	97	83		
	H , KW	0.82	0.86	0.91	0.94		
	Lwo , dB	95	94	94	93		
1800	Q , CMM	126	122	114	104	91	
	H , KW	1.16	1.21	1.28	1.31	1.34	
	Lwo , dB	98	98	97	96	96	
2000	Q , CMM	141	137	130	122	112	100
	H , KW	1.58	1.63	1.73	1.77	1.81	1.83
	Lwo , dB	100	100	99	99	98	98
	LwoA , dB	90	90	89	88	87	86

- Performance certified is for Installation type B-Free inlet , ducted outlet. Performance ratings do not include the effects of appurtenances(accessories) . Power rating H(KW) includes transmission losses.

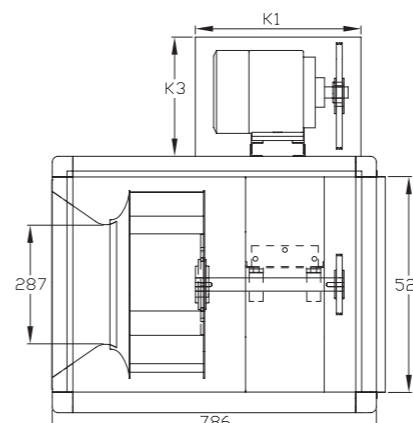
- The A-weighted sound ratings shown have been calculated per AMCA InternationalStandard 301. Values shown are for outlet Lwo and LwoA sound power levels for installation type B-Free inlet, ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.

Lwo : Sound power level transmitted to the outlet duct from fan

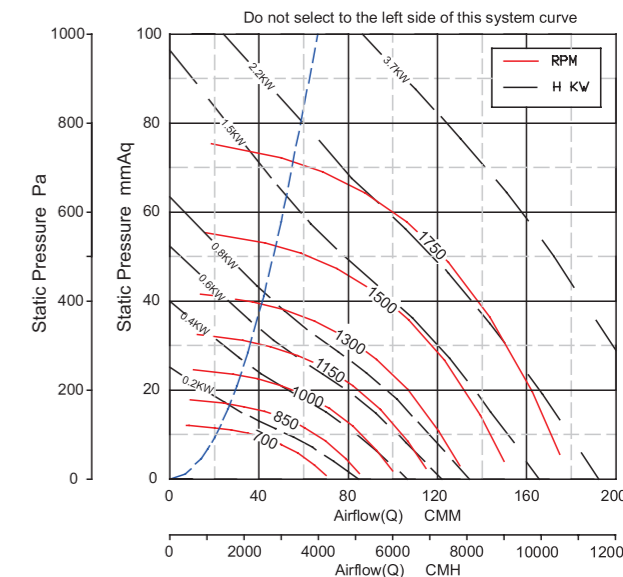
LwoA : Sound power level at outlet , A-weighted

ILF-450

WHEEL : 455 mm
 OUTLET : 520 × 520 mm (W × H ,outside) :
 0.2704 m² : (outside area)



■ Dimensions shown in millimeters. Motor cover is optional. Dimensions may vary with motor size.



Q : cmm Ps : mmAq H : KW r : 1.2kg/m³

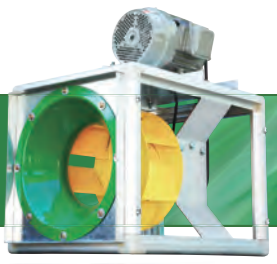
RPM		STATIC PRESSURE (Ps)							
		5	10	20	30	40	50	60	
800	Q , CMM	72	57						
	H , KW	0.20	0.21						
	Lwo , dB	79	76						
1000	Q , CMM	95	85						
	H , KW	0.38	0.40						
	Lwo , dB	86	85						
1200	Q , CMM	116	110	91					
	H , KW	0.63	0.67	0.70					
	Lwo , dB	91	91	89					
1400	Q , CMM	137	132	119	101				
	H , KW	0.99	1.04	1.09	1.13				
	Lwo , dB	96	95	94	93				
1600	Q , CMM	158	154	143	131	114			
	H , KW	1.46	1.52	1.61	1.65	1.68			
	Lwo , dB	99	98	98	97	97			
1800	Q , CMM	179	175	167	156	144	129	112	
	H , KW	2.06	2.13	2.26	2.31	2.36	2.40	2.36	
	Lwo , dB	102	101	101	100	99	99	99	
	LwoA , dB	91	90	90	89	88	88	87	

- Performance certified is for Installation type B-Free inlet , ducted outlet. Performance ratings do not include the effects of appurtenances(accessories) . Power rating H(KW) includes transmission losses.

- The A-weighted sound ratings shown have been calculated per AMCA InternationalStandard 301. Values shown are for outlet Lwo and LwoA sound power levels for installation type B-Free inlet, ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.

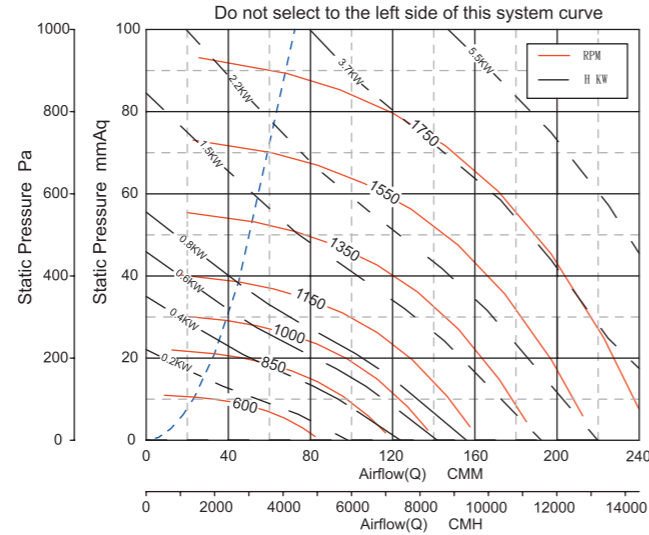
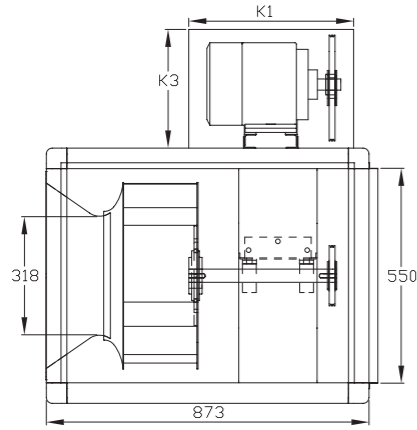
Lwo : Sound power level transmitted to the outlet duct from fan

LwoA : Sound power level at outlet , A-weighted



ILF-500

WHEEL : 505 mm
 OUTLET : 550 × 550 mm (W × H ,outside) :
 0.3025m² : (outside area)



■ Dimensions shown in millimeters. Motor cover is optional. Dimensions may vary with motor size.

Q : cmm Ps : mmAq H : KW r : 1.2kg/m³

RPM		STATIC PRESSURE (Ps)						
		5	10	20	30	40	50	60
700	Q , CMM	85	66					
	H , KW	0.23	0.24					
	Lwo , dB	77	74					
	LwoA , dB	69	67					
900	Q , CMM	116	105					
	H , KW	0.46	0.49					
	Lwo , dB	87	85					
	LwoA , dB	76	75					
1100	Q , CMM	146	138	116				
	H , KW	0.82	0.87	0.91				
	Lwo , dB	93	92	90				
	LwoA , dB	81	81	79				
1300	Q , CMM	175	168	153	133			
	H , KW	1.33	1.39	1.47	1.51			
	Lwo , dB	97	96	96	94			
	LwoA , dB	86	85	84	83			
1500	Q , CMM	203	198	186	171	153	131	
	H , KW	2.02	2.09	2.22	2.28	2.32	2.31	
	Lwo , dB	100	100	99	98	98	98	
	LwoA , dB	90	89	89	87	87	85	
1700	Q , CMM	232	227	217	205	192	176	157
	H , KW	2.91	3.00	3.17	3.26	3.32	3.38	3.38
	Lwo , dB	104	103	103	103	101	101	101
	LwoA , dB	93	93	92	91	90	90	89

- Performance certified is for Installation type B-Free inlet , ducted outlet. Performance ratings do not include the effects of appurtenances(accessories) . Power rating H(KW) includes transmission losses.

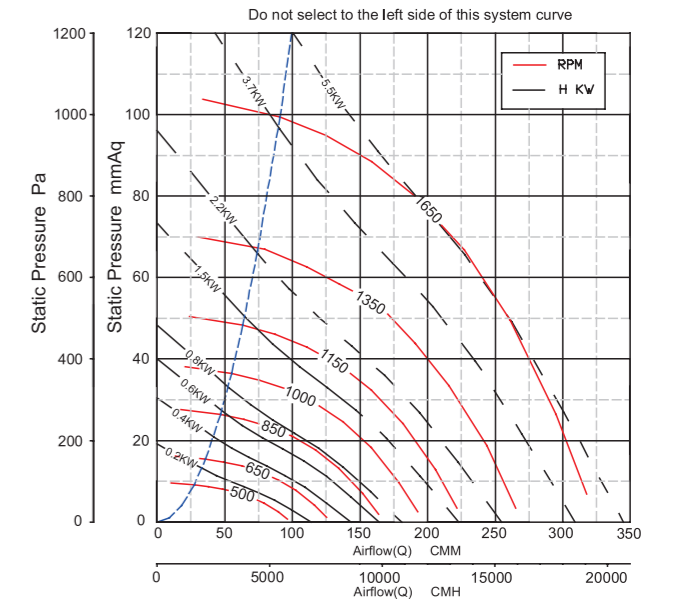
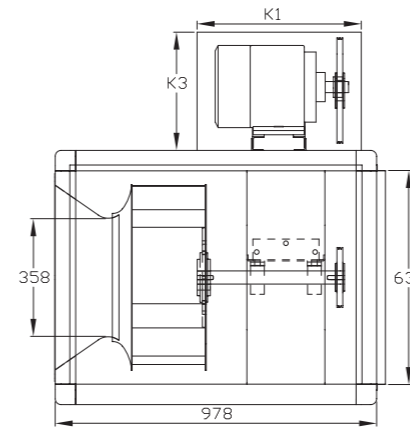
- The A-weighted sound ratings shown have been calculated per AMCA InternationalStandard 301. Values shown are for outlet Lwo and LwoA sound power levels for installation type B-Free inlet, ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.

Lwo : Sound power level transmitted to the outlet duct from fan

LwoA : Sound power level at outlet , A-weighted

ILF-560

WHEEL : 570 mm
 OUTLET : 635 × 635 mm (W × H ,outside) :
 0.403m² : (outside area)



■ Dimensions shown in millimeters. Motor cover is optional. Dimensions may vary with motor size.

Q : cmm Ps : mmAq H : KW r : 1.2kg/m³

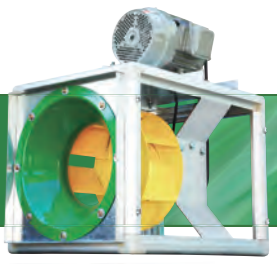
RPM		STATIC PRESSURE (Ps)						
		5	10	20	30	40	50	60
600	Q , CMM	103	77					
	H , KW	0.27	0.27					
	Lwo , dB	75	73					
	LwoA , dB	69	65					
750	Q , CMM	138	122					
	H , KW	0.50	0.52					
	Lwo , dB	83	81					
	LwoA , dB	75	73					
900	Q , CMM	170	158	126				
	H , KW	0.83	0.88	0.92				
	Lwo , dB	90	89	87				
	LwoA , dB	80	80	77				
1050	Q , CMM	201	192	169	136			
	H , KW	1.30	1.37	1.44	1.45			
	Lwo , dB	95	94	92	92			
	LwoA , dB	84	83	81	79			
1200	Q , CMM	233	225	206	183	153		
	H , KW	1.91	1.99	2.11	2.17	2.17		
	Lwo , dB	98	98	97	96	96		
	LwoA , dB	88	87	86	84	83		
1350	Q , CMM	263	256	242	223	201	174	
	H , KW	2.69	2.79	2.96	3.03	3.10	3.09	
	Lwo , dB	101	101	100	99	99	99	
	LwoA , dB	91	90	90	88	87	86	
1500	Q , CMM	294	288	275	260	243	222	198
	H , KW	3.67	3.77	3.99	4.11	4.18	4.25	4.25
	Lwo , dB	104	104	104	103	101	101	101
	LwoA , dB	93	93	92	91	90	90	89

- Performance certified is for Installation type B-Free inlet , ducted outlet. Performance ratings do not include the effects of appurtenances(accessories) . Power rating H(KW) includes transmission losses.

- The A-weighted sound ratings shown have been calculated per AMCA InternationalStandard 301. Values shown are for outlet Lwo and LwoA sound power levels for installation type B-Free inlet, ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.

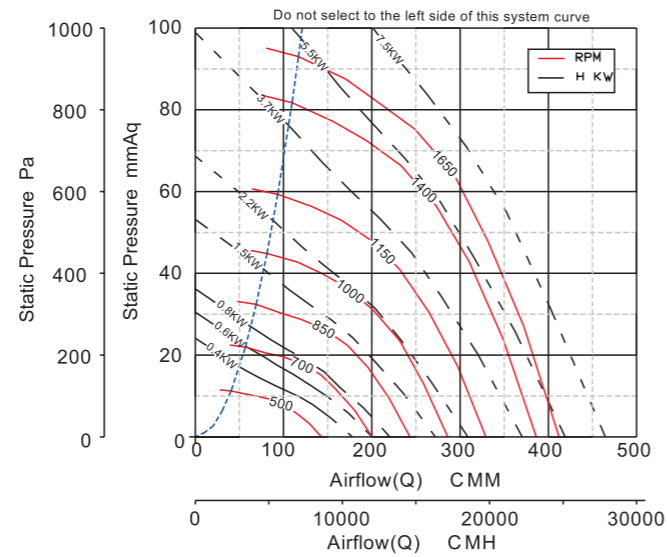
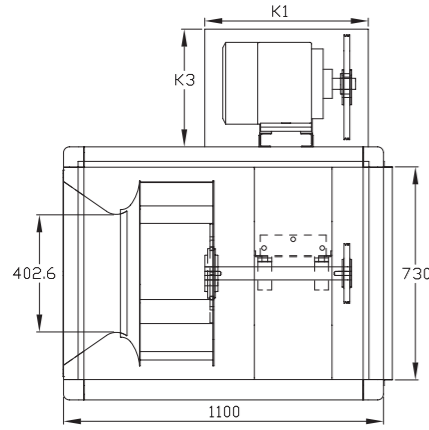
Lwo : Sound power level transmitted to the outlet duct from fan

LwoA : Sound power level at outlet , A-weighted



ILF-630

WHEEL : 640 mm
 OUTLET : 730 × 730 mm (W × H ,outside) :
 0.5329m² : (outside area)



■ Dimensions shown in millimeters. Motor cover is optional. Dimensions may vary with motor size.

Q : cmm Ps : mmAq H : KW r : 1.2kg/m³

RPM		STATIC PRESSURE (Ps)						
		5	10	20	30	40	50	60
550	Q , CMM	136	106					
	H , KW	0.34	0.36					
	Lwo , dB	76	75					
	LwoA , dB	67	64					
650	Q , CMM	170	146					
	H , KW	0.54	0.58					
	Lwo , dB	82	80					
	LwoA , dB	71	70					
800	Q , CMM	216	200	162				
	H , KW	0.97	1.03	1.11				
	Lwo , dB	91	89	87				
	LwoA , dB	78	77	75				
950	Q , CMM	261	250	217	182			
	H , KW	1.59	1.68	1.78	1.85			
	Lwo , dB	98	97	95	94			
	LwoA , dB	83	82	80	79			
1050	Q , CMM	291	281	254	225			
	H , KW	2.13	2.22	2.36	2.47			
	Lwo , dB	101	100	99	98			
	LwoA , dB	85	85	83	82			
1200	Q , CMM	335	326	307	280	255	219	
	H , KW	3.14	3.25	3.46	3.57	3.69	3.70	
	Lwo , dB	105	104	104	103	101	102	
	LwoA , dB	89	88	88	86	86	85	
1350	Q , CMM	379	371	355	334	310	288	261
	H , KW	4.44	4.56	4.81	4.98	5.11	5.24	5.30
	Lwo , dB	108	108	107	107	106	105	105
	LwoA , dB	92	92	91	90	89	89	88

- Performance certified is for Installation type B-Free inlet , ducted outlet. Performance ratings do not include the effects of appurtenances(accessories) . Power rating H(KW) includes transmission losses.

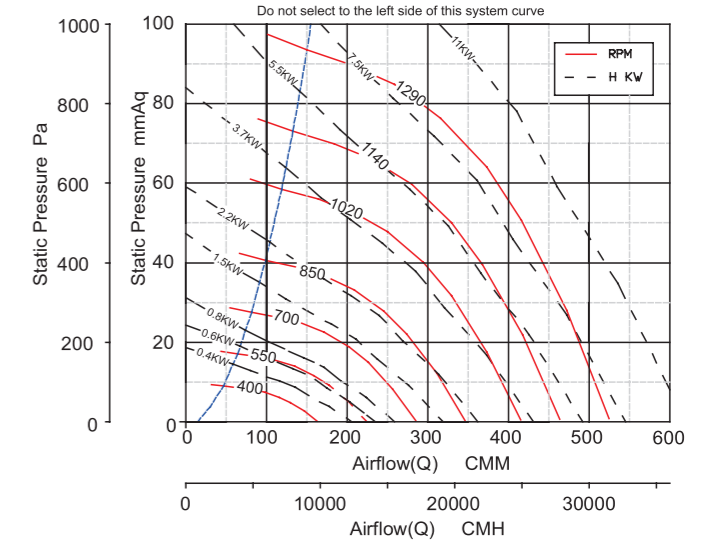
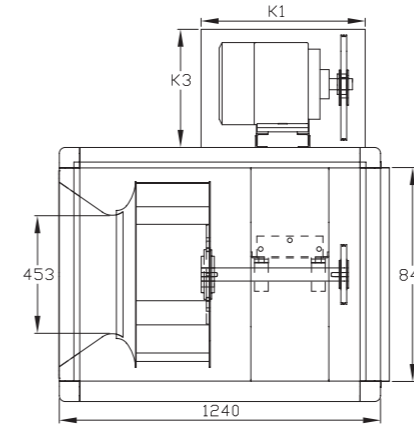
- The A-weighted sound ratings shown have been calculated per AMCA InternationalStandard 301. Values shown are for outlet Lwo and LwoA sound power levels for installation type B-Free inlet, ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.

Lwo : Sound power level transmitted to the outlet duct from fan

LwoA : Sound power level at outlet , A-weighted

ILF-710

WHEEL : 720 mm
 OUTLET : 840 × 840 mm (W × H ,outside) :
 0.7056m² : (outside area)



■ Dimensions shown in millimeters. Motor cover is optional. Dimensions may vary with motor size.

Q : cmm Ps : mmAq H : KW r : 1.2kg/m³

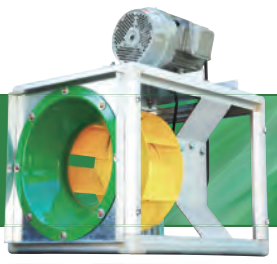
RPM		STATIC PRESSURE (Ps)						
		5	10	20	30	40	50	60
450	Q , CMM	152						
	H , KW	0.34						
	Lwo , dB	74						
	LwoA , dB	65						
600	Q , CMM	225	196					
	H , KW	0.76	0.81					
	Lwo , dB	83	81					
	LwoA , dB	73	72					
750	Q , CMM	290	273	226				
	H , KW	1.43	1.52	1.63				
	Lwo , dB	92	90	88				
	LwoA , dB	79	79	77				
900	Q , CMM	354	341	304	267			
	H , KW	2.42	2.54	2.70	2.82			
	Lwo , dB	99	98	97	96			
	LwoA , dB	85	84	83	82			
990	Q , CMM	392	380	351	314	277		
	H , KW	3.19	3.32	3.54	3.67	3.77		
	Lwo , dB	101	100	98	97	97		
	LwoA , dB	87	87	86	85	84		
1110	Q , CMM	442	431	410	377	345	313	
	H , KW	4.47	4.61	4.90	5.06	5.21	5.32	
	Lwo , dB	107	106	105	104	102	102	
	LwoA , dB	90	89	89	88	88	87	
1260	Q , CMM	505	495	476	453	423	396	371
	H , KW	6.48	6.65	6.98	7.25	7.42	7.59	7.77
	Lwo , dB	110	109	109	108	108	107	107
	LwoA , dB	94	94	93	93	92	91	90

- Performance certified is for Installation type B-Free inlet , ducted outlet. Performance ratings do not include the effects of appurtenances(accessories) . Power rating H(KW) includes transmission losses.

- The A-weighted sound ratings shown have been calculated per AMCA InternationalStandard 301. Values shown are for outlet Lwo and LwoA sound power levels for installation type B-Free inlet, ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.

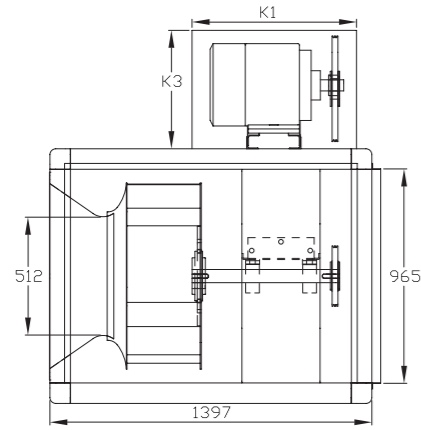
Lwo : Sound power level transmitted to the outlet duct from fan

LwoA : Sound power level at outlet , A-weighted

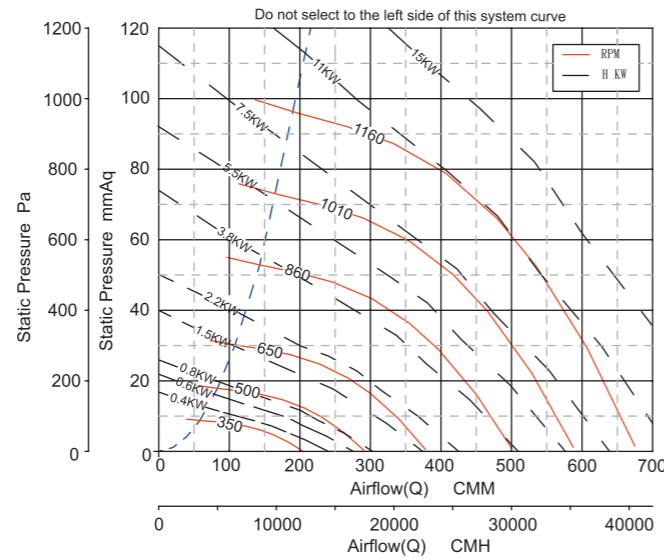


ILF-800

WHEEL : 810 mm
 OUTLET : 965 × 965 mm (W × H ,outside) :
 0.9312m² : (outside area)



■ Dimensions shown in millimeters. Motor cover is optional. Dimensions may vary with motor size.



Q : cmm Ps : mmAq H : KW r : 1.2kg/m³

RPM		STATIC PRESSURE (Ps)							
		5	10	20	30	40	50	60	
400	Q , CMM	193							
	H , KW	0.43							
	Lwo , dB	75							
	LwoA , dB	65							
550	Q , CMM	295	261						
	H , KW	1.05	1.12						
	Lwo , dB	84	83						
	LwoA , dB	74	73						
700	Q , CMM	387	368	311					
	H , KW	2.08	2.21	2.35					
	Lwo , dB	93	91	90					
	LwoA , dB	81	81	79					
830	Q , CMM	466	450	407	360				
	H , KW	3.41	3.56	3.79	3.95				
	Lwo , dB	100	99	98	96				
	LwoA , dB	86	86	85	84				
950	Q , CMM	538	523	493	449	410	353		
	H , KW	5.06	5.23	5.57	5.75	5.94	5.97		
	Lwo , dB	105	104	104	103	102	102		
	LwoA , dB	90	89	89	88	87	86		
1070	Q , CMM	609	596	571	537	498	464	421	
	H , KW	7.17	7.37	7.77	8.05	8.26	8.47	8.58	
	Lwo , dB	109	109	108	108	106	105	105	
	LwoA , dB	94	93	92	92	91	90	89	
1190	Q , CMM	680	668	646	623	587	552	522	
	H , KW	9.81	10.04	10.48	10.91	11.14	11.38	11.61	
	Lwo , dB	112	112	111	111	110	109	108	
	LwoA , dB	96	96	95	95	94	93	93	

- Performance certified is for Installation type B-Free inlet , ducted outlet. Performance ratings do not include the effects of appurtenances(accessories) . Power rating H(KW) includes transmission losses.

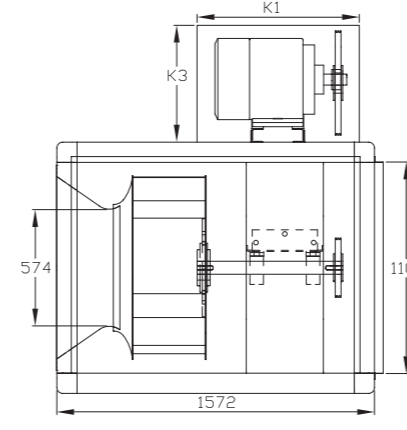
- The A-weighted sound ratings shown have been calculated per AMCA InternationalStandard 301. Values shown are for outlet Lwo and LwoA sound power levels for installation type B-Free inlet , ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.

Lwo : Sound power level transmitted to the outlet duct from fan

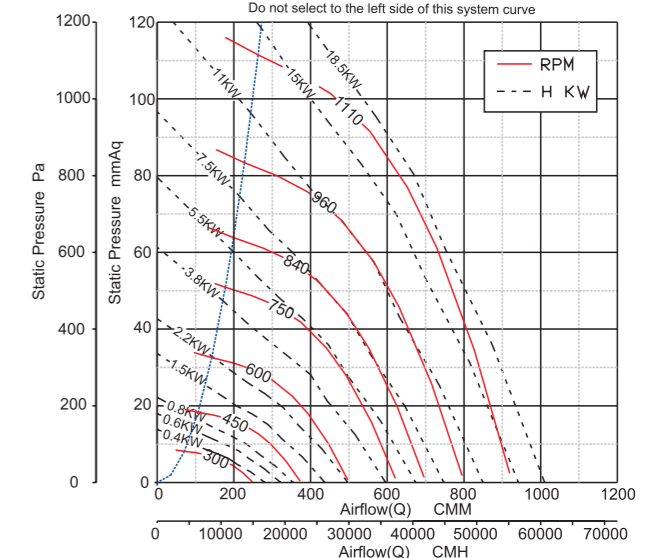
LwoA : Sound power level at outlet , A-weighted

ILF-900

WHEEL : 915 mm
 OUTLET : 1103 × 1103 mm (W × H ,outside) :
 1.2166m² : (outside area)



■ Dimensions shown in millimeters. Motor cover is optional. Dimensions may vary with motor size.



Q : cmm Ps : mmAq H : KW r : 1.2kg/m³

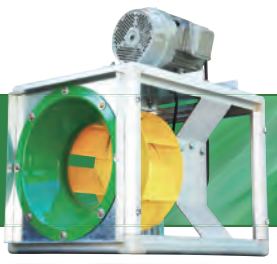
RPM		STATIC PRESSURE (Ps)							
		5	10	20	30	40	50	60	
350	Q , CMM	241							
	H , KW	0.53							
	Lwo , dB	74							
	LwoA , dB	65							
450	Q , CMM	343	293						
	H , KW	1.07	1.14						
	Lwo , dB	82	80						
	LwoA , dB	74	71						
550	Q , CMM	433	399	315					
	H , KW	1.89	2.01	2.14					
	Lwo , dB	88	87	85					
	LwoA , dB	78	77	75					
690	Q , CMM	556	534	472	412				
	H , KW	3.62	3.81	4.05	4.25				
	Lwo , dB	96	95	93	92				
	LwoA , dB	75	84	83	82				
810	Q , CMM	659	641	598	539	490			
	H , KW	5.78	6.00	6.38	6.61	6.84			
	Lwo , dB	103	102	100	99	98			
	LwoA , dB	89	89	88	87	86			
930	Q , CMM	762	746	713	668	617	574	508	
	H , KW	8.67	8.92	9.42	9.75	10.02	10.28	10.32	
	Lwo , dB	108	107	107	106	104	104	104	
	LwoA , dB	93	93	92	92	91	90	89	
1050	Q , CMM	864	850	821	791	746	701	662	
	H , KW	12.40	12.68	13.24	13.79	14.09	14.39	14.68	
	Lwo , dB	113	112	111	111	110	109	108	
	LwoA , dB	97	96	95	95	95	94	93	

- Performance certified is for Installation type B-Free inlet , ducted outlet. Performance ratings do not include the effects of appurtenances(accessories) . Power rating H(KW) includes transmission losses.

- The A-weighted sound ratings shown have been calculated per AMCA InternationalStandard 301. Values shown are for outlet Lwo and LwoA sound power levels for installation type B-Free inlet , ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.

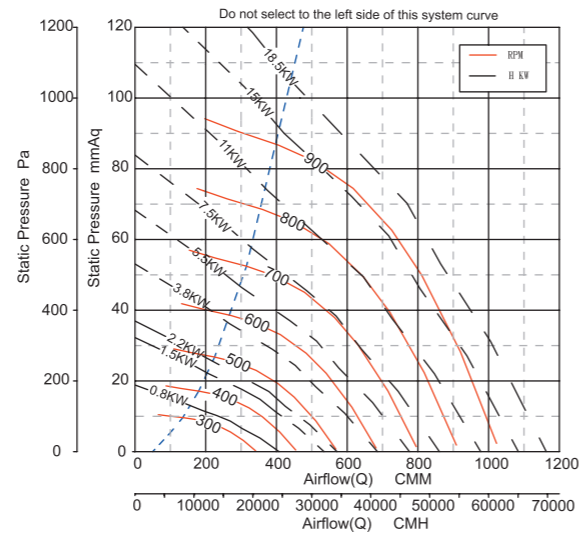
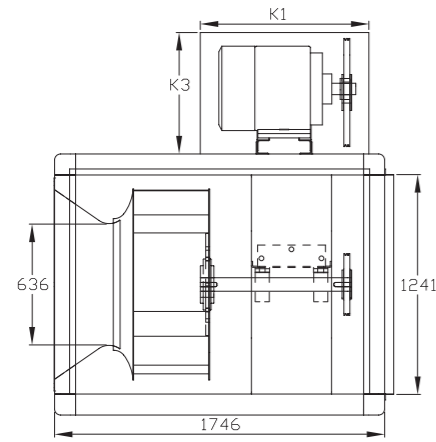
Lwo : Sound power level transmitted to the outlet duct from fan

LwoA : Sound power level at outlet , A-weighted



ILF-1000

WHEEL : 1015 mm
 OUTLET : 1241 × 1241 mm (W × H, outside) :
 1.5401 m² : (outside area)



■ Dimensions shown in millimeters. Motor cover is optional. Dimensions may vary with motor size.

Q : cmm Ps : mmAq H : KW r : 1.2kg/m³

RPM		STATIC PRESSURE (Ps)						
		5	10	20	30	40	50	60
350	Q , CMM	347	273					
	H , KW	0.87	0.93					
	Lwo , dB	77	75					
	LwoA , dB	69	67					
450	Q , CMM	477	425					
	H , KW	1.77	1.88					
	Lwo , dB	86	84					
	LwoA , dB	76	75					
550	Q , CMM	598	567	475				
	H , KW	3.13	3.33	3.54				
	Lwo , dB	92	91	89				
	LwoA , dB	81	81	80				
625	Q , CMM	687	660	585	511			
	H , KW	4.52	4.75	5.05	5.29			
	Lwo , dB	96	95	93	92			
	LwoA , dB	85	84	83	82			
725	Q , CMM	805	782	728	656	595		
	H , KW	6.97	7.23	7.69	7.97	8.25		
	Lwo , dB	102	101	99	98	97		
	LwoA , dB	89	89	88	87	86		
775	Q , CMM	864	842	798	730	668	593	
	H , KW	8.47	8.75	9.31	9.61	9.91	10.18	
	Lwo , dB	105	104	103	101	100	100	
	LwoA , dB	91	91	90	89	89	87	
850	Q , CMM	951	931	892	838	776	723	652
	H , KW	11.11	11.42	12.04	12.48	12.81	13.14	13.27
	Lwo , dB	108	108	107	106	104	103	104
	LwoA , dB	94	94	93	92	91	91	90

- Performance certified is for Installation type B-Free inlet , ducted outlet. Performance ratings do not include the effects of appurtenances(accessories) . Power rating H(KW) includes transmission losses.

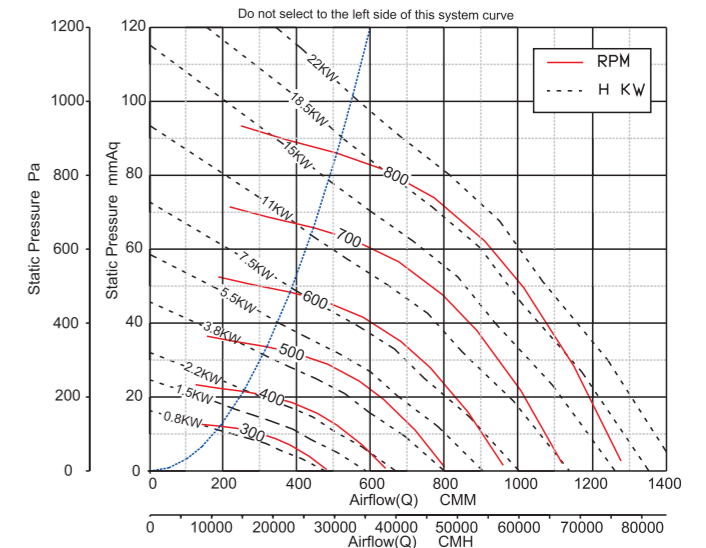
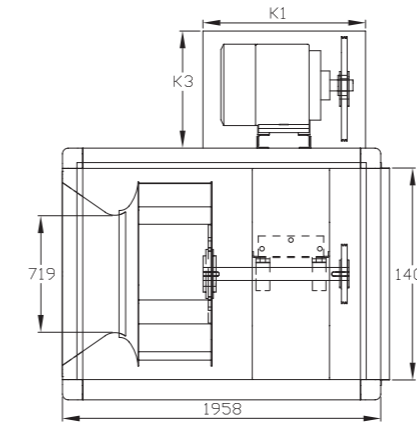
- The A-weighted sound ratings shown have been calculated per AMCA InternationalStandard 301. Values shown are for outlet Lwo and LwoA sound power levels for installation type B-Free inlet , ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.

Lwo : Sound power level transmitted to the outlet duct from fan

LwoA : Sound power level at outlet , A-weighted

ILF-1120

WHEEL : 1140 mm
 OUTLET : 1407 × 1407 mm (W × H, outside) :
 1.9697 m² : (outside area)



■ Dimensions shown in millimeters. Motor cover is optional. Dimensions may vary with motor size.

Q : cmm Ps : mmAq H : KW r : 1.2kg/m³

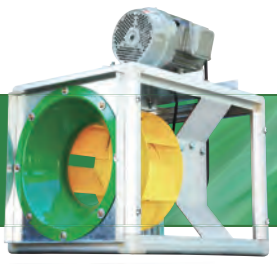
RPM		STATIC PRESSURE (Ps)						
		5	10	20	30	40	50	60
275	Q , CMM	362						
	H , KW	0.77						
	Lwo , dB	74						
	LwoA , dB	65						
350	Q , CMM	513	432					
	H , KW	1.53	1.63					
	Lwo , dB	81	79					
	LwoA , dB	73	71					
425	Q , CMM	643	586	436				
	H , KW	2.63	2.80	2.95				
	Lwo , dB	88	87	85				
	LwoA , dB	78	78	75				
500	Q , CMM	772	734	620				
	H , KW	4.19	4.45	4.73				
	Lwo , dB	93	91	90				
	LwoA , dB	83	82	81				
575	Q , CMM	898	864	776	683			
	H , KW	6.27	6.57	6.99	7.30			
	Lwo , dB	97	96	94	93			
	LwoA , dB	87	86	85	83			
675	Q , CMM	1064	1036	977	889	812	699	
	H , KW	10.02	10.37	11.03	11.40	11.77	11.82	
	Lwo , dB	103	102	100	99	98	98	
	LwoA , dB	91	90	90	89	88	87	
775	Q , CMM	1230	1205	1157	1094	1017	949	880
	H , KW	15.03	15.43	16.23	16.84	17.27	17.70	18.06
	Lwo , dB	107	106	105	104	103	102	102
	LwoA , dB	95	94	94	93	93	92	91

- Performance certified is for Installation type B-Free inlet , ducted outlet. Performance ratings do not include the effects of appurtenances(accessories) . Power rating H(KW) includes transmission losses.

- The A-weighted sound ratings shown have been calculated per AMCA InternationalStandard 301. Values shown are for outlet Lwo and LwoA sound power levels for installation type B-Free inlet , ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.

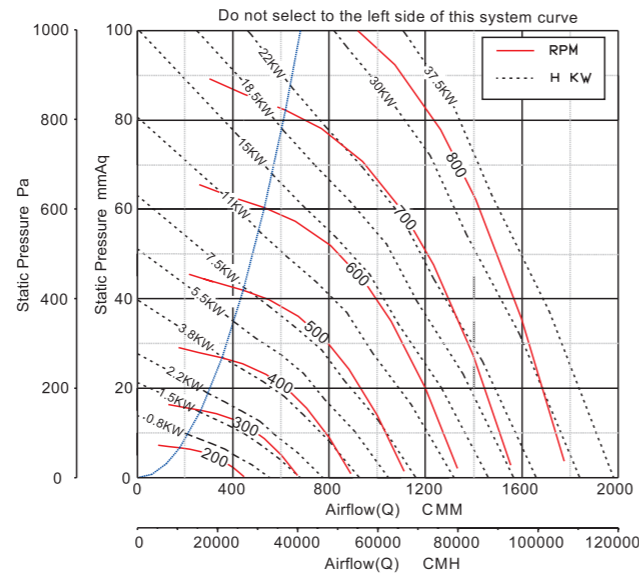
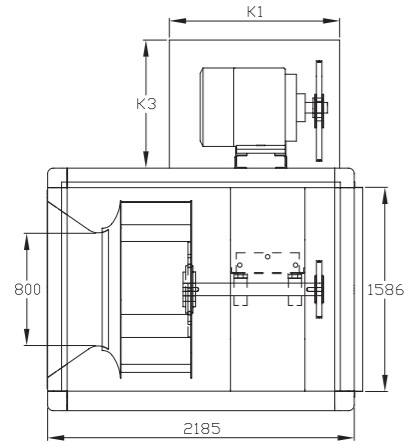
Lwo : Sound power level transmitted to the outlet duct from fan

LwoA : Sound power level at outlet , A-weighted



ILF-1250

WHEEL : 1270 mm
 OUTLET : 1586 × 1586 mm (W × H ,outside) :
 2.5153m² : (outside area)



■ Dimensions shown in millimeters. Motor cover is optional. Dimensions may vary with motor size.

Q : cmm Ps : mmAq H : KW r : 1.2kg/m³

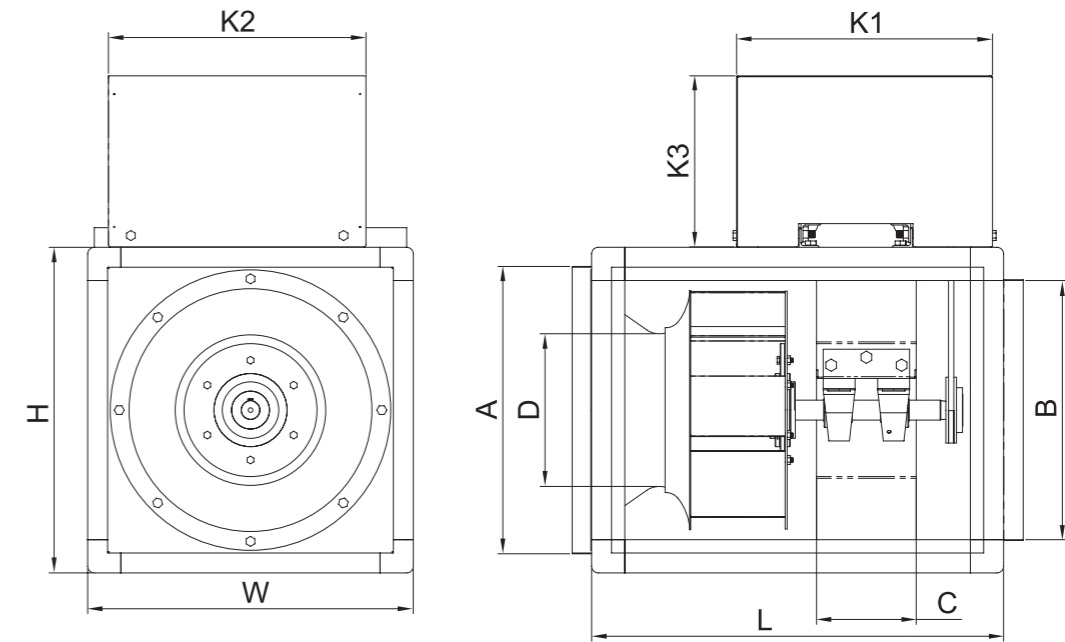
RPM		STATIC PRESSURE (Ps)						
		5	10	20	30	40	50	60
250	Q , CMM	458						
	H , KW	0.99						
	Lwo , dB	75						
	LwoA , dB	66						
325	Q , CMM	663	566					
	H , KW	2.08	2.22					
	Lwo , dB	83	81					
	LwoA , dB	74	73					
425	Q , CMM	901	848	702				
	H , KW	4.44	4.73	5.05				
	Lwo , dB	92	90	89				
	LwoA , dB	82	81	79				
550	Q , CMM	1192	1154	1058	944	812		
	H , KW	9.37	9.76	10.38	10.80	11.01		
	Lwo , dB	99	98	97	95	95		
	LwoA , dB	89	88	87	86	85		
625	Q , CMM	1365	1331	1263	1158	1061	953	
	H , KW	13.62	14.06	14.95	15.43	15.91	16.20	
	Lwo , dB	103	102	101	100	99	99	
	LwoA , dB	93	92	91	90	90	89	
675	Q , CMM	1479	1448	1385	1300	1202	1119	1001
	H , KW	17.07	17.55	18.52	19.19	19.70	20.21	20.35
	Lwo , dB	106	105	104	104	102	102	101
	LwoA , dB	95	94	93	93	92	91	90
750	Q , CMM	1650	1622	1566	1506	1418	1330	1256
	H , KW	23.29	23.83	24.90	25.91	26.49	27.06	27.62
	Lwo , dB	110	109	109	108	107	106	105
	LwoA , dB	98	97	96	96	96	95	95

- Performance certified is for Installation type B-Free inlet , ducted outlet. Performance ratings do not include the effects of appurtenances(accessories) . Power rating H(KW) includes transmission losses.

- The A-weighted sound ratings shown have been calculated per AMCA InternationalStandard 301. Values shown are for outlet Lwo and LwoA sound power levels for installation type B-Free inlet , ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.

Lwo : Sound power level transmitted to the outlet duct from fan
 LwoA : Sound power level at outlet , A-weighted

Drawings / Dimensions



K1~K3 may vary with motor size

Model Size	Dimensions in millimeter (mm)							Shaft Dia. (mm)	Outlet Area (m ²)
	A	B	C	D	W	H	L		
ILF-355	430	390	150	226.5	490	490	620	30	0.15
ILF-400	495	455	169	256	555	555	700	35	0.21
ILF-450	560	520	190	287	620	620	786	35	0.27
ILF-500	630	550	211	318	690	690	873	40	0.30
ILF-560	675	635	237	358	775	775	978	40	0.40
ILF-630	770	730	267	402.6	870	870	1100	45	0.53
ILF-710	880	840	301	453	980	980	1240	45	0.71
ILF-800	1005	965	339	512	1105	1105	1397	50	0.93
ILF-900	1143	1103	382	574	1243	1243	1572	50	1.22
ILF-1000	1281	1241	424	636	1381	1381	1746	55	1.54
ILF-1120	1447	1407	475	719	1547	1547	1958	55	1.98
ILF-1250	1626	1586	530	800	1726	1726	2185	60	2.52

