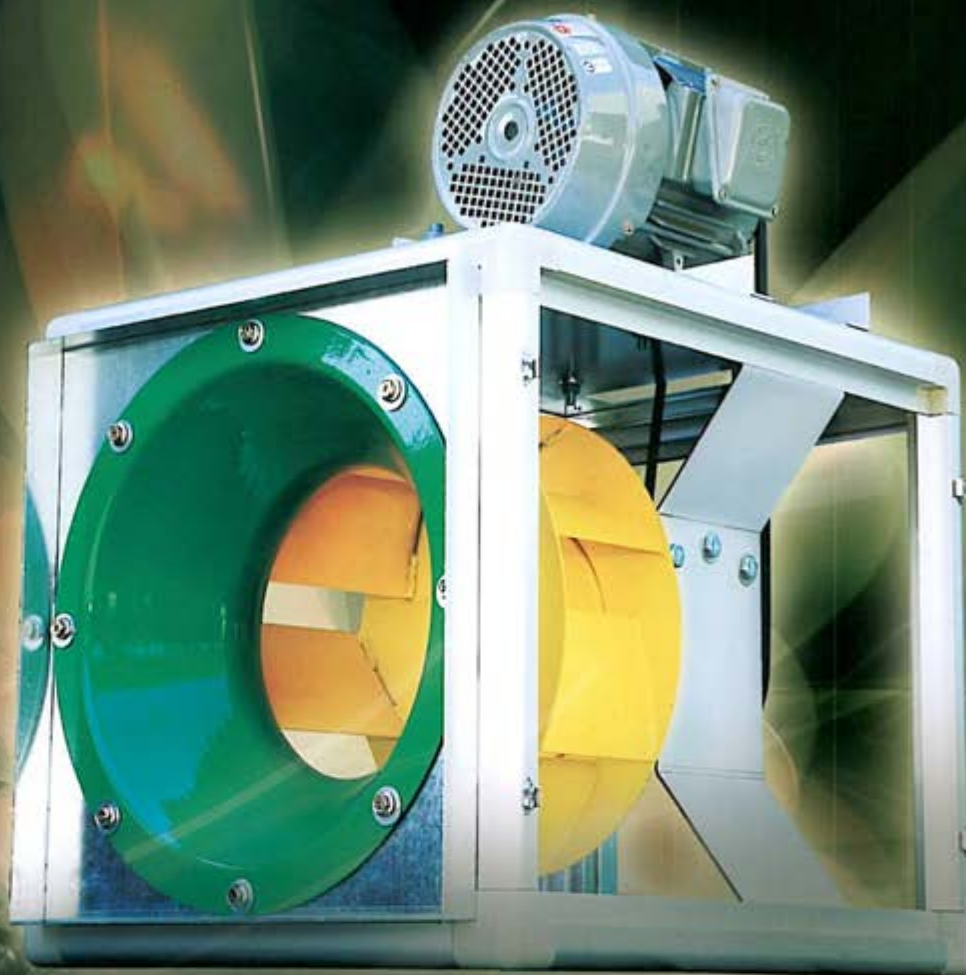




UL US LISTED
POWER VENTILATOR
45GD

ILF Series

InLine Centrifugal Fan

極致風動 · 超越巔峰

封面風機顏色僅供參考



FLOWTECH
鳴鼎實業股份有限公司



世·界·級·的·認·證

GLOBALLY RECOGNIZED
CERTIFICATIONS AND STANDARDS

通風設備性能與耐溫測試實驗室

Ventilation Performance and Smoke Management Laboratory

舉凡通風設備產品如風機、風門所需之性能及品質要求，皆可由本實驗室提供一系列完整的測試服務。並在財團法人全國認證TAF基金會的品質及技術要求監督下，獨立並公正執行每項測試。因此，國內公共工程及消防安全之相關通風設備產品，不必再千里迢迢將產品送到國外測試，也不需業主及顧問公司人員舟車勞頓至國外見證，節省更多的時間費用。

除此之外，本實驗室為求能邁入國際化，分別於西元2003年12月29日、2004年11月5日及2004年12月22日取得AMCA 210、UL555/555S和AMCA 300之實驗認證。AMCA及UL實驗室在風機及風門的產品測試要求，一直是大部分國家採用的規範，AMCA及UL在透過定期的能力對比之下，監督其認證過的實驗室測試能力即精確度。因此，本實驗室為國內第一家風機製造商通過AMCA及UL認證的實驗室，對於產業將會造成良性的競爭與提升。



AMCA 300



亞洲唯一UL認證實驗室



AMCA 210



實驗室TAF證書



常溫風機性能測試設備 Fan performance Testing Facility

測試標準(Standards)

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

風門、百葉壓損測試設備 Louver Pressure Drop Testing Facility

測試標準(Standards)

- AMCA 500

隧道通風機振動/推力測試設備 Jet Fan Thrust Testing Facility

測試標準(Standards)

- ISO 13350
- BS 848-10

排煙閘門洩漏測試設備 Smoke Damper Leakage Testing Facility

測試標準(Standards)

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

消音箱/消音百葉測試設備 Silencer / Acoustical Louver Testing Facility

測試標準(Standards)

- ASTM-E477
- ISO 7235

防火風門測試設備 Fire Damper Testing Facility

測試標準(Standards)

- UL 555

測試標準

- 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



全響室迴風道出口
Exhaust Duct exit of Revererant



流量噴嘴
Multiple Nozzles for Flow Measurement



全響室迴風道裝置
Silencer in Exhaust Duct



全響室
Revererant Room
360°旋轉噪音器
360°Routing Microphone in Revererant



整流裝置
Flow Straightener





ILF

InLine Centrifugal Fan

Flowtech®
Series

直線型後傾離心式風機

Flowtech Co., Ltd. Certifies that Model ILF 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 requirements of the AMCA Certified Ratings Program.

陽鼎實業股份有限公司保證下列ILF系列目錄中，第10-24頁通過並取得AMCA的認證。目錄上所顯示的風機性能參數是依據AMCA211與AMCA311認證測試規範所要求的實驗條件及測試程序下進行測試所獲得的。



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



風機顏色僅供參考



ILF全系列通過UL/cUL 705產品認證。
檔案號碼E323432

ILF Series 直線型後傾離心式風機

ILF Series Single Inlet Centrifugal Fans Backward wheels

ILF 系列 使用單向入口的後傾式離心葉輪

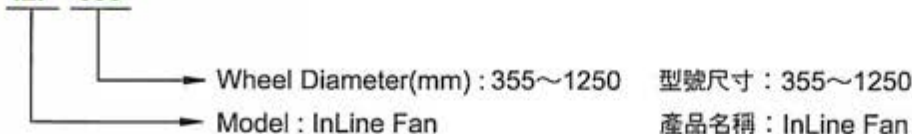
The ILF series is InLine centrifugal Fans with high efficiency through ducted air system. The backward centrifugal wheel assures efficient operation against the resistance of a ducted application. The square housing design adapts easily to square and rectangular ducts. The ILF series is SWSI centrifugal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

ILF系列指的是直線型後傾離心式風機，藉由箱體去提高效率，使用後傾式離心葉輪能輕易的克服摩擦力阻抗有效率的運作。而方形的箱體也容易跟兩方向的風管進行連接。ILF系列為單吸離心式風機（SWSI），其葉輪為高效率無超載的後傾式葉輪。該系列的規格是根據AMCA 99標準設計。

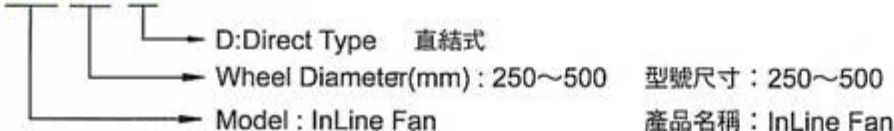
Designation ,Formula signs

型號定義

ILF - 630



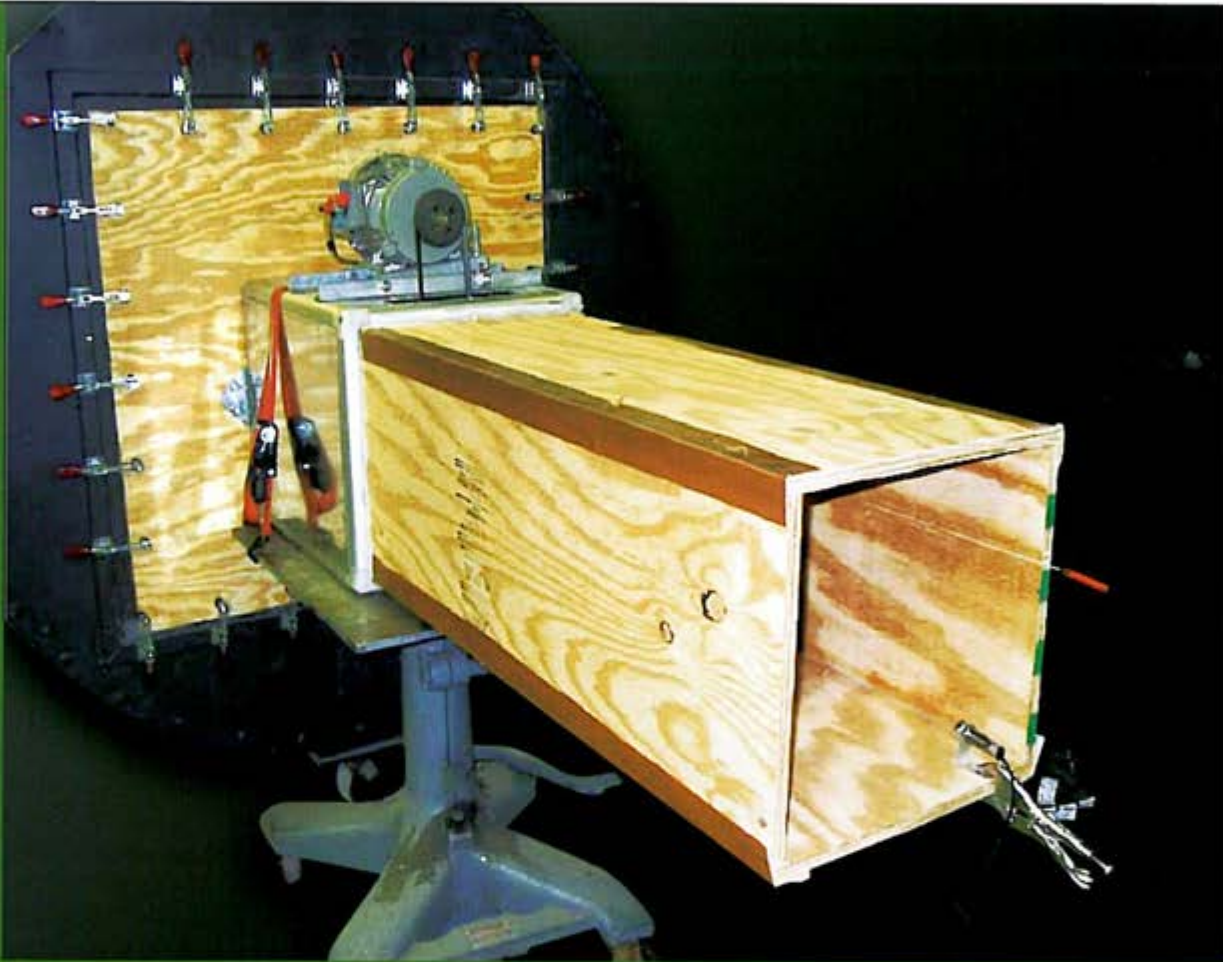
ILF - 25 D





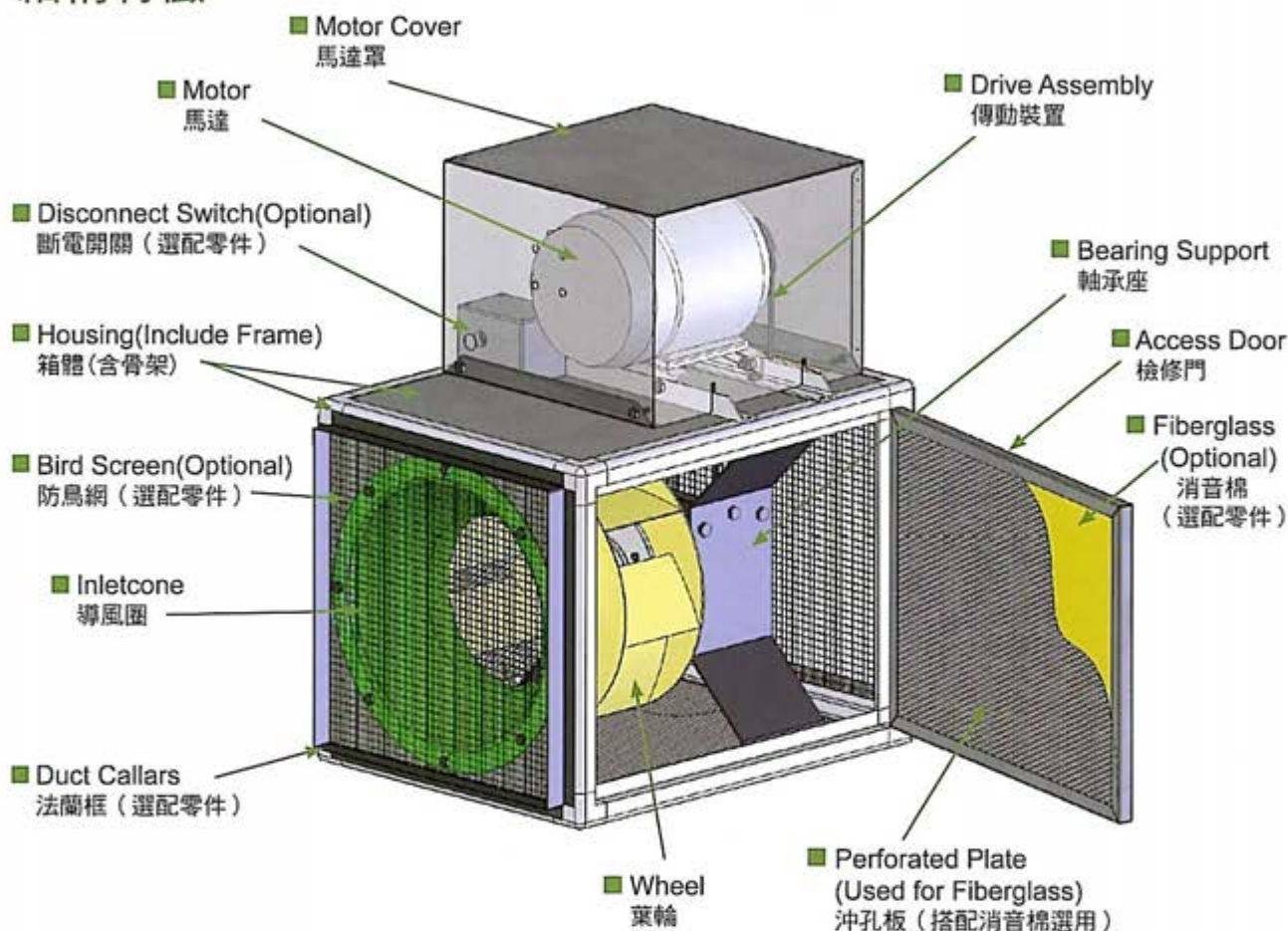
ILF Series Air and Sound Performance Test In Laboratory

直線型後傾離心式風機性能及噪音在實驗室測試照片



Construction Features

結構特徵



Housing 箱體

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.

箱體由鋁合金或其他材質骨架及鍍鋅鋼、不銹鋼或其他材質板件來建構。亦可由不銹鋼或其他材質來製作整組箱體。鋁合金骨架有多種尺寸，可使用在全系列風機型號上。鍍鋅側板加消音棉，藉此降低風機運轉的噪音。箱體另有多種材質可供選擇。

Centrifugal Wheel 葉輪

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.

葉輪不會過載設計，葉片為後傾式。每個葉輪都需要經過ISO1940或AMCA 204-G2.5標準的動態及靜態平衡校正。葉輪的材質可用一般鋼材、不銹鋼、鋁合金或其他材質製作，並施以陽極或烤漆處理。



Inletcone 導風圈

- 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.

導風圈的材質可使用一般鋼材、不銹鋼、鋁合金或其他材質製作。使用喇叭口型(鐘型)導風圈的用意是使氣流能快速進入葉輪並且流暢的將氣流往後送出去。入風口並施以陽極或烤漆處理可防止腐蝕。

Shaft 軸心

- 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.

軸心是以不銹鋼或ISO C45碳鋼(JIS S45C ; AISI C1045)加工製作而成，且在組裝前後要塗上防止生鏽或腐蝕的塗料。軸心經車削研磨和拋光處理而成能緊密與軸承結合，延長軸承壽命。軸心長短依風機型號大小裁切，且能承受指定轉速的125%而不斷裂。

Bearings 軸承

- 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.

軸承等級符合AFBMA(抗磨軸承生產協會)；軸承壽命可達L10=45,000小時，L50=225,000小時。軸承的功用是針對需要持續不斷運轉的機構所使用，使其達到最好的效率。

Motor 馬達

- 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.

馬達配合風機選用，其轉部慣性小、加速轉矩大，對於起動、停止頻繁之機器可提高其工作效率且馬達設計採IEC(International Electrotechnical Commission)及NEMA制定之國際標準尺寸，具國際互換性，並採用耐熱、耐濕、耐化學之E/B/F級絕緣材料，安全耐用壽命最長。馬達底座為可調整節距設計，快速調整皮帶鬆緊。

Belt Drives 皮帶輪組

- 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.

皮帶型號適用-皮帶為防靜電型式且抗熱、抗油性，皮帶鬆緊可由葉輪或馬達端調整。皮帶設計負載至少為制動馬力的1.5倍。皮帶輪採推拔式固定(Tape Lock)，安裝快速。

Birdscreen 防鳥網

- 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.

防鳥網(不銹鋼防護網)可防止鳥類不小心進入風機內部而造成風機損壞。防鳥網安裝與否對於風機性能及噪音影響並不大。防鳥網尺寸為10~20mm正方形網格， $\phi 1.2\text{mm}$ 鍍鋅鐵/鋼或不銹鋼材質，另有多种孔目尺寸及材質可選擇。

Additional Component 選購配備

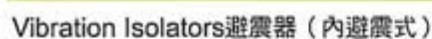
- Disconnect Switch-It has two kinds of model, one is no fuse switch, another is cut out switch.

斷電開關有兩種型式，一種為無熔絲開關，另外一種為一般斷電開關。

風機爆炸示意圖



水平與垂直支撐座



Hanging Isolators懸掛式避震器

Base Isolators落地式避震器

避震器型式可採彈簧式、橡膠式或其他指定型式

FLOWTECH



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CNo. : CAT-ILF0409.1 April 2009

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