

軸流直結式風機

*Tube Axial Fan Driven Directly
with Cast Aluminum Airfoil Propellers*

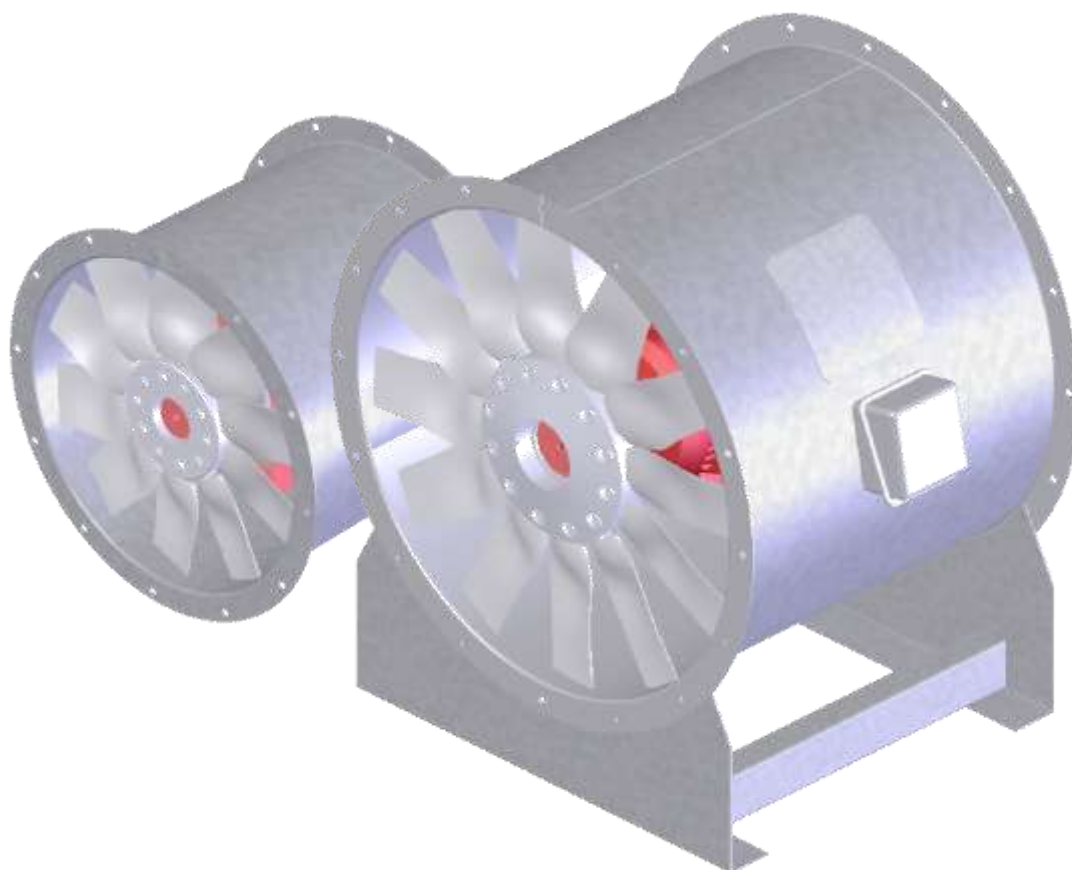


Low Pressure Axial Smoke-exhaust Fan Driven Directly with Cast Aluminum Airfoil Propellers

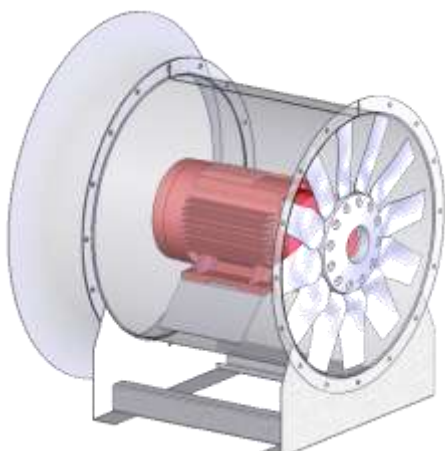


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陽鼎實業股份有限公司特此證明，此處所示 TAD 系列目錄中，第 **20~78** 頁獲得了加蓋 AMCA 印章的授權。所示額定值系根據 AMCA 出版物 211 和 AMCA 出版物 311 所進行測試和程序確定，並符合 AMCA 認證額定值計畫的要求。



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Technical description 技術說明

Fan code 風機型號命名方法

FOR EXAMPLE TAD-560-5/10-3.7-2

TAD - 560 - 5 / 10° - 3.7 - 2

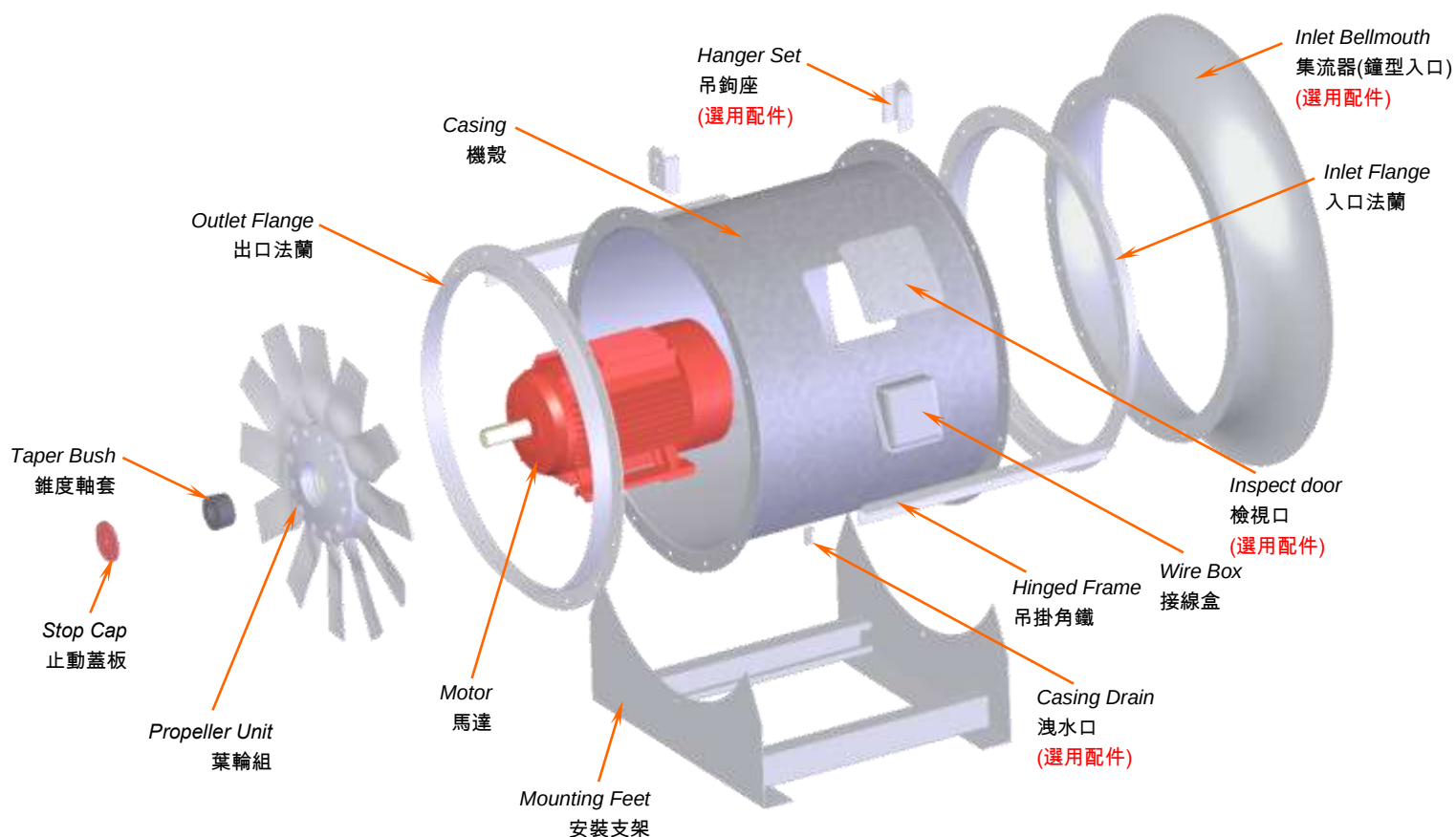
Number of poles of motor
馬達極數

Power of motor, Unit : kW
馬達功率，單位：kW

Number of Blades / Blade Pitch Angle[°]
葉輪葉片數 / 葉片角度

Normal Fan Diameter, Unit : mm
風機公稱直徑，單位：mm

Tube Axial Fan Driven Directly
直結式軸流風機



Fan layout drawing

風機設計爆炸圖

Types and Duties 規格和功率範圍

Flowtech-Axial flow Smoke-Exhaust fans are specially manufactured for all applications and mounting positions in case sizes 560 up to 1400 mm diameter. The performance range is from 500 up to 2,500 m³/min on air volume, at total pressure up to 1,200 Pa. Higher pressures are possible on multi-stage versions, contra-rotating. Air performance according to AMCA 210 standard, shown is for test installation type B, free inlet, ducted outlet.

陽鼎軸流排煙風機，依其適用範圍及安裝操作環境，以直徑 $\varnothing 560\text{mm}$ 至 $\varnothing 1400\text{mm}$ 不同規格來做製造。最大全壓可達到 1,200Pa 的情況下，風機流量可從 500 至 2,500 m³/min。若需要更大的壓力，可以串聯多級風機，利用反向葉片原理方向來達成。空氣性能依 AMCA 210 標準，安裝方式 Type B，入口加裝配件鐘型入口測試及出口加裝出口風管，其性能都是於 1.2 kg/m³ 空氣密度的標準條件下定義的。

Casing 機殼



Version: L (light version)

Casings are spun of sheet galvanized steel with integral inlet flanges on both ends, mounting hole drilled in accordance to DIN 24154, R2. The strengthen structure is order to pad-mounted motors, foot-motors or flange-motors. It is suitable for duct or plenum type installation. This version is for all applications including smoke-extract and normal conditions in the HVAC-market.

結構形式 1: L (輕型結構)

機殼用鍍鋅鋼板製成通過精密旋壓成形，在機殼兩端旋壓製成法蘭，按 DIN 24154 標準的系列 2 的規定鑽孔，此強化結構以便安裝 Pad-mounting, foot mounting 及 flange mounting 之馬達。配合於管道或平面形式的安裝。這種結構形式可適應排煙與通風空調行業的全方位需求。

Version 2: H (heavy version)

Fan case and motor mounting made of hot-rolled steel, after welding that all steel parts are hot dip galvanized manufacturing. This version is for higher demands, for heavy industry or for high performances. Flanges on both ends, drilled in accordance to DIN 24154, R2 are integrated. On this type external terminal boxes are fitted as standard. If motors are with lubrication, tubes and grease-nipples are fitted outside fan case.

結構形式 2 : H (重型結構)

機殼和馬達底座以碳鋼製成，經焊接後進行熱浸鍍鋅處理。這種製造方式適合較高要求，使用於重工業領域或高功率情況。機殼兩端的法蘭，並按 DIN 24154 標準系列 2 鑽孔。對於此一筒形機殼，在機殼上可安裝適合之接線盒。若馬達需要潤滑保養，則將潤滑口移到機殼之外。

Propeller 葉輪



The **Flowtech**-propellers, hubs and blades are made of cast aluminum alloy, the aero-dynamical profile guarantees high efficiency and low noise. The blades are with adjustable pitch angle to optimum the duty point. The solidity varies for a wider range of performance. All rotating aluminum components are X-ray examined to ensure quality and power reliability. All propellers are statically and dynamically balanced to ISO 1940 and AMCA 204 balance quality grade level-G2.5.

陽鼎風機葉輪，中心轆和葉片是由鑄鋁合金製的。葉片組外型的空氣力特性可以保證高效率和低噪音。中心轆結構允許在靜止時對葉片的角度進行調整，以達到最佳操作狀況。風機有不同的葉片數，因此可擴大了風機的適用範圍。所有旋轉的鋁合金部件在安裝前都經過 X-射線探傷檢驗，以保證品質及操作安全性。且全葉片組為確保振動之良好其動平衡和靜平衡校正皆達到 ISO1940 / AMCA 204 (G2.5)級別。

Motors 馬達

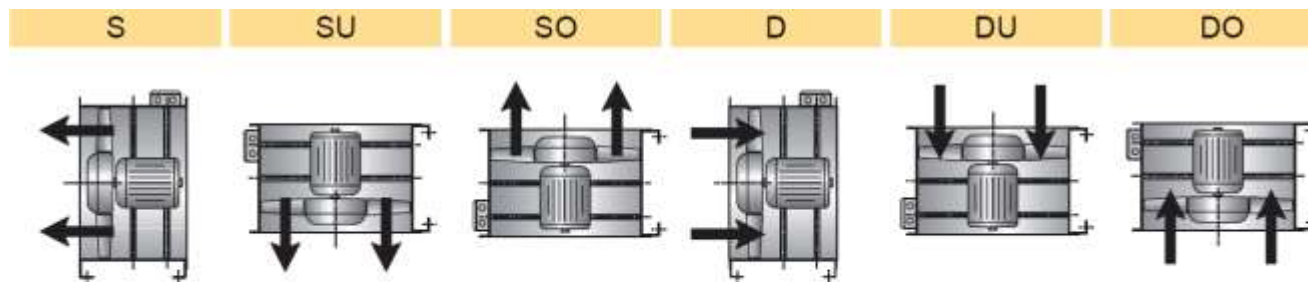


Flowtech uses as standard closed squirrel cage motors with pad-mounting and airstream rated to IEC 34, if required also in accordance to EPACT. The standard motors have Class H and enclosure IP 54. Continuous operating ranges from -40 °C to +40 °C, other operating conditions on demand. Multi speed versions with 2 or 3 speeds, TAB- or DUAL-wounded are also available. The motor bearings have L 10 (or L50) life design. All motors are can be manufactured to correspond to F200, F300 or requirements for smoke-extract application. 陽鼎風機安裝符合 EN60034-1(IEC 34-1)標準的交流馬達，也可以應客戶要求按 EPACT 製造，作標準的四點固定。馬達全密閉、帶短路轉子。保護等級為 IP54，絕緣等級為 H 級。按用戶需求還可以選擇用於常溫環境操作馬達，或通過變級開關，實現兩級或三級調速的帶特殊繞組的馬達。馬達軸承的壽命按 L10 或 L50 設計。所有馬達亦可依排煙應用場合之需求符合 F200(耐溫達 200□ /120min)、F300(耐溫達 300□ /60min)或。

Forms of running 安裝位置和氣流方向

Flowtech-Axial flow fans are available for all forms of running. The chart information shows all standard forms of running, please indicate when ordering. Standard form of running "S". Form of running is especially relevant when weather proof motors are required. Performance for D, DU and DO airflow is not licensed by AMCA International.

陽鼎軸流風機可以適用於各種氣流方向。下圖中所示的安裝運行方式和氣流方向都是標準設計的。在訂貨時應加以說明。基本的氣流方向為"S"形式。當需要安裝特殊的馬達時，一定要說明氣流的方向。D、DU 及 DO 氣流形式之性能未經 AMCA International 認證。



Arrows indicating correct rotating and direction of airflow are mounted on the outside of the fan case.

表示正確旋轉及氣流方向的箭頭以貼在風機機殼外面。

Ancillaries 附件

Flowtech offers a wide range of ancillaries, e.g.:陽鼎公司提供多種附件，如：

- Propeller or motor side guard 葉輪側或馬達側的護網
- Mounting feet for both horizontal or vertical operation 用於水平或垂直安裝的支架
- Matching flanges 配套的法蘭配件
- Complete flex. connectors 柔性法蘭連接件
- Bellmouth inlets 集流器(鐘型進風噴口)
- Air operated dampers 空氣驅動的氣流調節器
- Anti-vibration mounts 防振阻尼器
- Silencers with or without pod 帶內芯或不帶內芯的管狀消音器

•Anti-spark-track for flame proof 用於防火的火花保護帶

•Inverters 變頻器

Specify the fan 風機說明

Having chosen the fan most suitable for your individual application: please specify as follows:

在選擇了最適合您的實際用途的風機後，請特別留意以下說明：

(1)Manufacturer **Flowtech**, light or heavy version.製造商:陽鼎，輕型結構或重型結構。

(2)Exact details on motor data like power supply and cycles and specifications on temperature, flame proof, multi-speeds, extra enclosure and overheat protection.對馬達參數的其它特殊要求:如電壓、頻率、溫度、防爆要求、轉速、特殊防護措施和過熱保護等。

(3)The impeller manufactured in cast aluminum alloy with high efficiency blade profile and adjustable pitch angle.用鑄鋁合金製造的葉片外型，葉片安裝前經過X-射線探傷檢驗。性能符合空氣動力學要求，葉片可在靜止時調節。

(4)The case in light version made of galvanized sheet steel or heavy version with hot dip galvanized finish.用鍍鋅鋼板製成的輕型機殼，或者用鋼板製成的熱浸鍍鋅的重型機殼。

(5)All necessary ancillaries are to be specified.所有必要的附件應當列出。

Ordering the fan 訂貨說明

After selection of the fan best for your needs please order as follows:

在選擇最適合您的風機後，訂購陽鼎風機時還需說明：

(1) Fan type, casing version and power running form 風機機殼形式、氣流方向和安裝位置。

(2) Fan code and type: see below 正確的風機名稱和型號:按隨後提供的風機型號命名方法。

(3)Quantity required 訂購數量。

(4)Duty required at standard air and temperature, air volume in m^3/s at static pressure in Pa. 按單位 m^3/s (或 m^3/min)的流量，在空氣密度為 $1.2 \text{ kg}/\text{m}^3$ 下的風機靜壓;按單位Pa(或 mmAq)。

(5)Motor power rating in kW 需求的馬達功率。

(6)Electrical supply 需求馬達電壓、頻率和馬達輸入相數。

(7)Ancillaries required 必需的附件。

Useful information 其它有用的指示和信息

Fan selection 風機選用

Please select fans within the curve. Do not select above curve end, fan will work in stall and will be damaged.

For a non-overloading selection you can select motor on the peak-kW from each pitch angle which marks and covers the maximum on absorbed power.

在配置風機時，在性能曲線中要注意，運行點應低於相應的性能曲線。當超過這一區域時，就存在失速的危險，風機發生共振。其結果是，作用在葉輪上的機械負荷會增大到足以損壞葉輪。為了能最大可能的保證運行安全，可以按照葉片傾角對應的吸收功率性能曲線的最大值來選擇馬達，這樣可排除馬達過載的可能。

Fan installation 風機安裝

Installation recommendations are as follows:

- Fans with free inlet and outlet should be installed with $1.5 \times$ fan diameter distance on extract and supply side

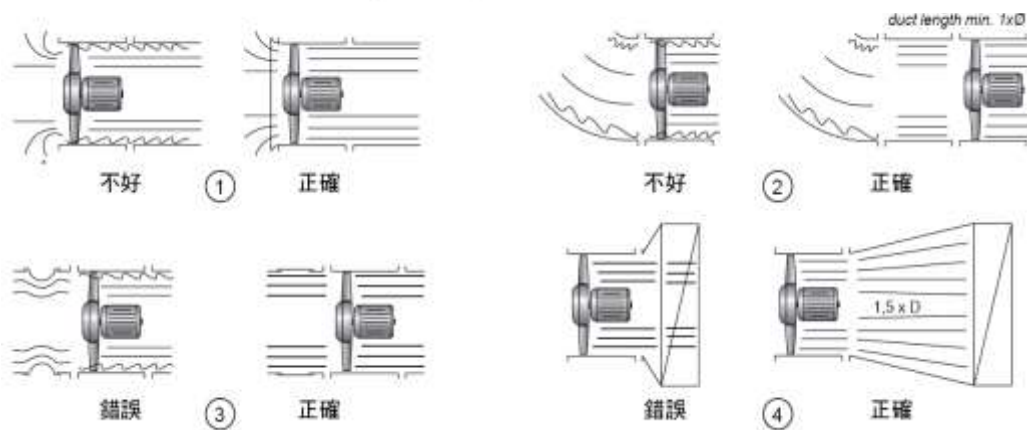
to next equipment. Fans should have a bellmouth on the air entry to get a smooth airstream. High performance fans will work at higher efficiencies and save energy if diffusers are mounted on the outlet.

- When installing fans into systems and to other equipments (bends by 90 degree., filters, silencers etc) correct bend power radius and distance are to be considered to avoid losses. Flexible connectors are to be installed smooth. By not following advices you will lose performance. (see pictures below)

風機安裝時，應注意以下幾點：

- 自由地吸風和排風的風機的吸入氣流和排出氣流應當這樣配置，風機的進氣側和出氣側與其它結構件至少有1.5x 風機直徑的自由空間。氣流吸入側應當用集流器，保證氣流均勻流向葉輪。對於大功率的風機，建議在風機出風口使用出口擴張管，這樣可以使風機工作在效率較高的狀況，產生節省能源效果。

- 對於安裝在系統或風道中的風機，需要注意的是，在風機出口和進口處的連接件(如直角彎管，過濾器，消音器等)應當有足夠大的直徑和風機之間足夠的距離，以避免損失。柔性連接件的安裝要光滑。如果不注意安裝的要求，就可能會降低風機的性能。(參考下圖)



Example fan selection 風機選型舉例

Required duty point by customer 客戶要求的狀況

- * Volume flow 流量 : $6 \text{ m}^3/\text{s}$ * static pressure 靜壓 : 400 Pa

- * Fan speed 風機轉速 : 1760 [RPM] (4 Pole 4 極)

How to use: 用法:

After having chosen right fan performance curve please draw volume flow and pressure.

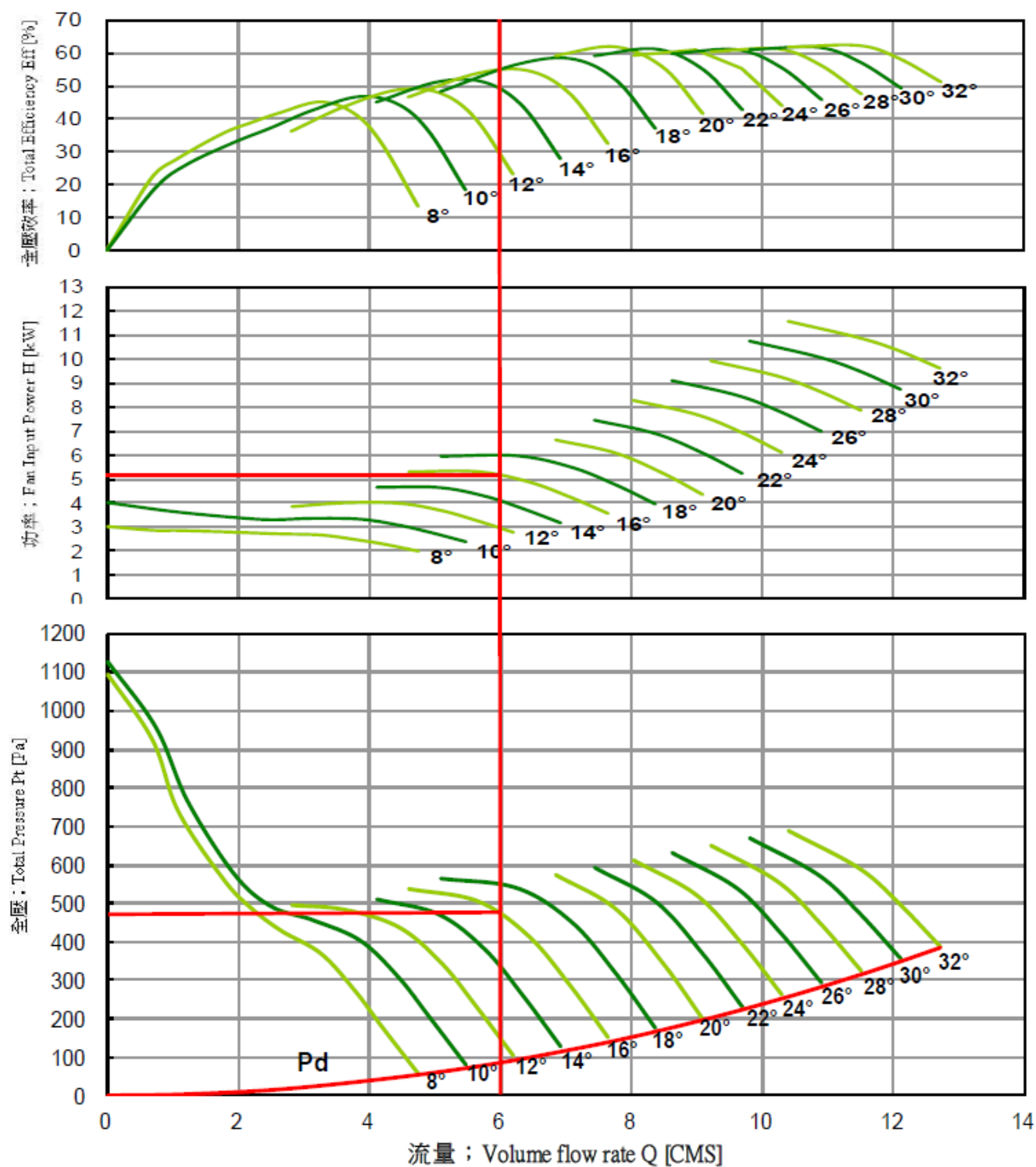
在選定正確的風機性能曲線後，畫出流量和壓力圖。

In the cross you will find the following fan data:在曲線焦點處，可找到下風機數據:

- motor speed or number of poles 1760 [RPM] - 4-pole 馬達轉速或極數:1760 [RPM]-4 極

- pitch angle : 16 degrees 葉片傾角:16 度

風機性能曲線



Choose motor power 確定馬達功率

After peak-absorbed power see table chart: 6.62 kW 按查表確定最大吸收功率6.62kW

Motor power: 7.5kW 馬達功率:7.5kW

Peak power is the max power over the whole pitch angle in the worst case.最大吸收功率是對應葉片傾角的整條性能曲線上，預計最壞情況下的最大值。

How to get the required noise level, see page 28.噪音級的計算，詳見第28頁。

Acoustic and noise control 噪音聲功率的決定

General 概述

Noise produced by axial flow fans is basically in a high frequency level. The sound power depends on careful selection of the fan regarding duty, efficiency, characteristics and above all quality of installation. There is a strong correlation between sound power and aerodynamic loss of the fan. Generally speaking, sound power of fans is a function of air volume and total pressure. This will be confirmed by the following rough calculation formula:

軸流風機產生的噪音主要是高頻噪音。影響噪音聲級的因素視風機的狀況、風機的效率、風機特性的是否合理選擇及整體安裝品質等決定的。為了獲得最接近且合適的人類耳朵聽覺效果，噪音位準根據 AMCA 300 量測。聲功率等級的確定根據“AMCA 300 全響室量測方法”測得。在聲功率和動壓損失之間有著嚴格的相互關係。一般來講，聲功率是流量和全壓的函數。可以通過下面的近似公式來粗略計算聲功率級：

$$L_{WG} [dB] = L_{WS} + 10 \log(V \text{ m}^3/\text{s}) + 20 \log(\Delta p_{tot} [Pa]) \pm 5$$

式中：

where by:

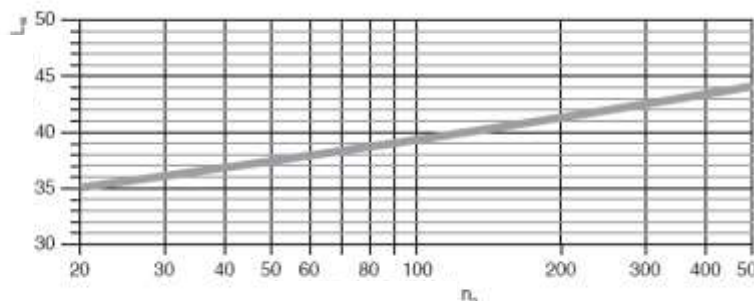
L_{WG} = 總的聲功率級

L_{WG} = total sound power

L_{WS} = 按圖 1. 與轉速相關的聲功率級

L_{WS} = specific sound power by the speed (see fig.1)

Fig 1. 圖 1



$$n_q = n [\text{min}^{-1}] \cdot \frac{\sqrt{V [\text{m}^3/\text{s}]}}{\left(\frac{\Delta p_t [\text{Pa}]}{\rho_m [\text{kg}/\text{m}^3] \cdot 9.81} \right)^{3/4}}$$

Sound power levels 聲功率級

This is the amount of power which a source gives off as sound. Sound power levels are expressed in decibels with a reference level of 1 pico Watt. The sound power level of a source remains the same regardless the environment and the distance to the listener.

聲功率是聲源產生的噪音功率。聲功率的單位是以皮瓦(Pico watt)為基準的分貝(dB)。聲源的聲功率只決定於聲源本身，與聲源周圍環境和測試點的距離無關。

Sound pressure levels 聲壓級

These are pressure fluctuations radiated by a source expressed in decibels with a reference level of 20 μ Pa.

The sound pressure level varies according to the distance of source to the listener and its environment.

聲壓是以聲源傳出的壓力振動。聲壓的單位是以20微帕(μ P)基準的分貝(dB)。聲壓與測試點據聲源的距離以聲源周圍環境有關。

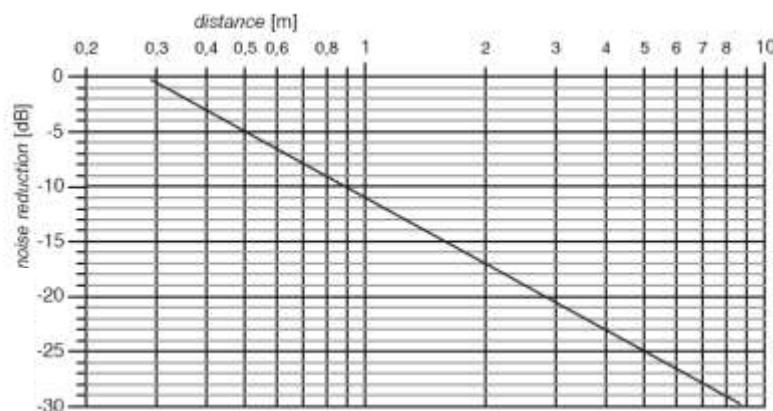
$$Nr = 10\log(4 \pi \times r^2)$$

Sound distance

聲源距離; r [m]

Noise reduction

噪音衰減; Nr [dB]



Frequencies 頻率

Sound is split into different frequencies. Frequencies of human hearing ranges from about 20 cycles per second (Hz) to 20000 cycles per second (Hz). For practical purposes FLOWTECH publishes noise data in eight octave bands with the centre frequencies of 63, 125, 250, 500, 1000, 2000, 4000 and 8000 Hz.

噪音一般是由不同頻率的聲音組合成的。人耳能夠感覺到的聲音頻率範圍為 20Hz 至 20,000 Hz。在工程實際中，陽鼎一般只給出以下各頻率為中心的頻率倍頻及噪聲值: 63、125、250、500、1000、2000、4000 和 8000Hz

每個風機都是有自己特有的噪音頻率分佈

„A“ weighted sound pressure levels (dB A) A 計權聲壓級 dB(A)

The ear is more sensitive to sound in some frequencies than in others. The „A“-weighting is an attempt to reflect this natural attention of sound. The „A“-weighting is a set of figures which are applied to the sound pressure levels. The levels in each of the octave band are added logarithmically to give a single figure. „A“-weighting will be over octave band as follows:

人耳對不同頻率範圍的聲音的敏感程度不同。通過 A 計權來模仿人耳對聲音的自然感覺。按照 A 計權，各個頻帶的聲壓級都要分別扣除一定的分貝值。對各頻帶的 A 計權聲壓級按對數求和，可得到 A 計權的總 X 聲壓級。

Chart (3) 表(3)	頻率[Hz]	63	125	250	500	1000	2000	4000	8000
	A-計權[dB]	-26	-16	-9	-3	0	+1	+1	-1

Example 舉例

Customer requires the dB(A) level at 3 m distance from a 800 diameter. fan, 1760 1/min, 12 blades, 20 degree. pitch angle, duty 6 m³/s at 500 Pa (static).

The sound data for the operating points inside these boundaries may be determined using interpolation.

Example to Ps comparison with 63Hz; $\frac{500 - 346}{517 - 346} = \frac{L_{W_{63Hz}} - 92}{94 - 92} \Rightarrow L_{W_{63Hz}} = 92 + \frac{2 \times 154}{171} = 93.8 \approx 94 \text{ [dB]}$

The same method to calculate and fill in each octave band decibel data as following:

一位用戶選擇一台風機，直徑 800mm，轉速 1760 1/min，葉片共 12 葉且傾角 20°，在靜壓為 500Pa 下的狀況為 6m³/s，想知道風機 3mm 位置處的 A 計權聲壓級 dB(A)。

噪音數值資料在操作點要求查找聲功率一覽表，因數據落在其中需使用內插法決定聲功率值。

舉例靜壓為 500Pa 對照表格 63Hz;

Model No.	RPM	Ps	Sound Power re 10 ⁻¹² Watts Octave Band [Hz]								L _{WA}
			63	125	250	500	1000	2000	4000	8000	
TAD-800-12/20°-7.5-4	1760	346	92	97	97	98	94	91	87	83	100
TAD-800-12/20°-7.5-4	1760	517	94	99	99	102	101	97	92	85	105

TAD-800-12/20°-7.5-4	1760	500	94	99	99	102	100	96	92	85	104.2
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$$\frac{500 - 346}{517 - 346} = \frac{L_{W_{63Hz}} - 92}{94 - 92} \Rightarrow L_{W_{63Hz}} = 92 + \frac{2 \times 154}{171} = 93.8 \approx 94 \text{ [dB]}$$

同理計算填入如上表完成之計算列結果。

Frequency 頻率[Hz]	63	125	250	500	1000	2000	4000	8000
sound power level 聲功率級	94	99	99	102	100	96	92	85
Reduction for 3 m distance (fig. 2) 按圖2扣除3m距離的聲壓級衰減	-20	-20	-20	-20	-20	-20	-20	-20
Apply [A] as chart 3 按表3按A計權	-26	-16	-9	-3	0	1	1	-1

Add noise levels as given in chart 4 below
以表4進行對數求和

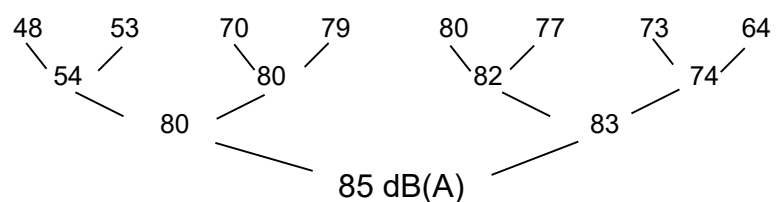


Chart (4) 表(4)	Addition of sound level 聲級求和	
	Difference between two sound levels 兩個聲級值差值 [dB]	Add to the higher level 相加後得較高的聲級值 [dB]
	0-1	3
	2-3	2
	4-9	1
	≥ 10	0

$$L_{\Sigma} = 10 \cdot \log(10^{0.1L_1} + 10^{0.1L_2} + \dots + 10^{0.1L_n})$$

whereby: 式中：

L₁= sound level of a source 1 聲源1的聲級

L_Σ= resulted level 總聲級

Noise of several sources, equivalent in characteristic and level

多個種類相同，強弱一樣的聲源產生的聲級

$$L_{\Sigma} = L_1 + 10 \cdot \log(Z)$$

whereby: 式中:

Z= number of sources 聲源個數

L1= sound level of a single source 單個聲源的聲級

L_Σ= resulted level 總聲級

Please note: **請注意:**

Here are some usefully information and fan laws:陽鼎公司提供多種多樣的，不同消音效果的消音器。

Fan Laws 風機定律

(for geometrically similar fans only)

• Volume flow $\approx$ rotational speed **Speed change - constant size**

在一定風機尺寸和一定的密度下
，轉速變化時:

* Pressure (all) $\approx$ (rotational speed)²

流量與轉速成正比:

$$\frac{\dot{Q}_2}{\dot{Q}_1} = \frac{N_2}{N_1}$$

*Pressure (all) $\approx$ (rotational speed)²

壓力變化與轉速的平方成正比:

$$\frac{\Delta P_a}{\Delta P_b} = \left(\frac{N_1}{N_2}\right)^2 = \left(\frac{\dot{Q}_1}{\dot{Q}_2}\right)^2$$

* Power absorbed $\approx$ (rotational speed)³

吸收功率與轉速的三次方成正比:

$$\frac{P_1}{P_2} = \left(\frac{N_1}{N_2}\right)^3 = \left(\frac{\dot{Q}_1}{\dot{Q}_2}\right)^3$$

在轉速不變的條件下，葉輪尺寸變化時
(對幾何形狀相似的風機)

* Volume flow $\approx$ (impeller Diameter)³

流量與葉輪直徑的三次方成正比:

$$\frac{\dot{Q}_2}{\dot{Q}_1} = \left(\frac{D_2}{D_1}\right)^3$$

* Pressure $\approx$ (impeller Diameter)²

壓力差與葉輪直徑的平方成正比:

$$\frac{\Delta P_1}{\Delta P_2} = \left(\frac{D_1}{D_2}\right)^2$$

* Power absorbed $\approx$ (impeller Diameter)⁵

吸收功率與葉輪直徑的五次方成正比:

$$\frac{P_1}{P_2} = \left(\frac{D_1}{D_2}\right)^5$$

Density change - constant speed- constant size

轉速,尺寸一定,而密度變化時 :

* Volume flow no change 流量不受影響:

$$\dot{V} = \text{constant}$$

* Pressure $\approx$ Density 壓力差與密度成正比:

$$\frac{\Delta P_1}{\Delta P_2} = \frac{\rho_1}{\rho_2} = \frac{T_2}{T_1}$$

whereby: 式中:

T = Kelvin Temperature [K] 絕對溫度 [K]

* Power absorbed $\approx$ Density

風機軸功率計算公式 :

$$P_L [kW] = \frac{\dot{V} [m^3/s] \times \Delta P_t [Pa]}{\eta [\%] \times 10}$$

Pressure 壓力 :

* Dynamic Pressure [Pa] 動壓

$$P_d = \frac{\rho}{2} \cdot V^2$$

whereby: 式中:

ρ = air density in [kg/m³] 空氣密度 [kg/m³]

V = air velocity in [m/s] 風機中的空氣風速 [m/s]

* Total pressure 全壓

$$P_t = P_s + P_d$$

* Absorbed power - calculation in duty point

吸收功率與密度成正比:

$$\frac{P_1}{P_2} = \frac{\rho_1}{\rho_2} = \frac{T_2}{T_1}$$

Fan Performance 風機性能

Statement of Fan Performance 說明

Air and Sound performance of TAD series are based on test conducts in according with AMCA Standard 210. and performance changes with two factors as following :

TAD 系列的風機性能，經過 AMCA 210 標準測試後所得到的性能曲線，會由於以下兩個主要因素而改變:

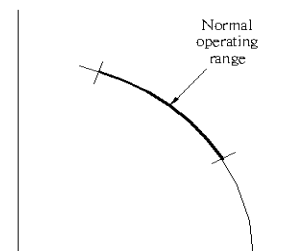
a) The air duct near to the fan were blocked or suddenly change the outline of ductwork.

In general, the air flow smoothly through the fan in a perfect design condition, and performance will appear like the result that expect.

在靠近風機的風道系統有不正常的阻礙或突然的變化。一般而言，若依循合理的常規設計，空氣流場會均勻的進入及被送出風機，接近一個理想狀況，性能會如預期的結果出現。

b) Change of the component within the fan, such as the change of the model of the fan, or even there is sizable most tip clearance.

風機內部元件的改變，如風機型式的改變，或甚至是有相當大的尖端間隙。

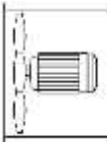
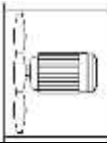


The influence of the following general effect that the choice of the fan must also be considered, in order to reach the working order on the proper choice blade pitch angle.

風機的選擇還必須考慮以下一般效應的影響，在適當的選擇葉片角度以達到正常運轉狀態。

Fan Type 風機型式

TAD 系列主要風管安裝方式有 A 型式風機及相對應的 B 型式。其性能上的差異主要由於風機出口及入口，在實際使用安裝有風管或喇叭進風口。

Type 型式	Installation mode 安裝方式	Performance Change 性能變化	Noise Change 噪音變化
A	 B&D	Refer to Performance Curve 參照性能曲線表上數據	Refer to Noise Tables 參照噪音表上數據
A	 A&C	qv 1.02 PsF 1.04 Compare to mode D Performance Curve 比較 D 式的性能曲線	Refer to Noise Tables 參照噪音表上數據
B	 B&D	Refer to Performance Curve 如性能曲線顯示	+2 ~ 3 dB
B	 A&C	Refer to Performance Curve 如性能曲線顯示	+2 ~ 3 dB

Fan performance with Type A and Installation mode B are licensed by AMCA International only.

Propeller Material 葉輪材質

Propeller Hubs and blades are made with cast aluminum and airfoil blades ensure efficient performance. Fan have several blades mode and blade pitch angle can be adjusted statically to ensure best operating condition.

中心轆(Hub)及葉片以鋁合金壓鑄而成，具良好的空氣動力性能。風機有不同葉片數並允許在靜止時進行葉片角度調整，以達到最佳操作狀態。

Tip clearance 尖端間隙

Fan performance curve and noise data are based on tip clearance /Impeller diameter in 0.25%. If the tip clearance get bigger then performance curve must be adjusted as following.

風機性能曲線及噪音值都是以尖端間隙/葉輪直徑在 0.25%為標準。若尖端間隙加大，則運轉點必須以下方式，在性能曲線上做些調整。

Tip clearance/Impeller dia 尖端間隙/葉輪直徑：0.5% $q_v \times 1.01$, $P_s F \times 1.02$

Tip clearance/Impeller dia 尖端間隙/葉輪直徑：0.75% $q_v \times 1.04$, $P_s F \times 1.08$

Tip clearance/Impeller dia 尖端間隙/葉輪直徑：1.0% $q_v \times 1.06$, $P_s F \times 1.12$

Fan performance calculates with this correction factors for tip clearance are not licensed by AMCA International.

Pressure Drop of Compound Fan 複合風機壓損

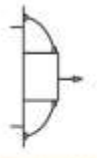
For special conditions , for example : using two fan, one fan operating and other standby. pressure drop of compound fan are in relation to blade pitch angle.

為了某些情況需要，如一台運轉使用，一台停機備用，必須共同使用兩台風機。這種狀況，複合風機(非加壓型風機)的壓損和葉片角度是有關係的。

Blade Pitch Angle 葉片角度	K factor 係數	Pressure Drop 壓損 = $K \times P_{df}$
8° ~20°	6.0	
20° ~30°	3.0	
30° ~20°	2.0	

Fan performance calculates with this correction factors are not licensed by AMCA International.

Pressure Drop of standard Accessories 標準附件的壓損

bellmouth inlets 喇叭進風口		K factor 係數 0.20- A-mode A-型式 0.38- B-mode B-型式
guard 安裝護網		0.75
Motor guard 馬達圓錐保護蓋		0.4
Damper 單向風門		0.3~0.4

Fan performance calculates with this correction factors "K" are not licensed by AMCA International.

Other Devices 其他裝置

Another installation mode does not mention here also can be apply to TAD series fan. General guideline are as following.在型錄上未詳細提到的風機其他安裝方式，也能應用於 TAD 系列風機。一般通則如下：

Fan Installation mode風機安裝方式	Pressure effect 壓力影響效應	Noise effect 噪音影響效應
Single fan with guide vane單一風機內裝有靜葉	1.25	+1 dB
Twin fans with guide vane雙台風機組內裝有導流裝置	2.00	+3 dB
Reversible Twin fans可正逆轉的雙台風機組	2.4	+8到 10 dB
Separable flow fan分流的風機	0.7	+2 dB

Fan performance calculates with this correction factors are not licensed by AMCA International.

When select the operation pint must consider the pressure drop effect as described and adjust the performance curve.

風機的操作點的選擇，必須考慮以上所提的壓力增加/損失因素，並在性能曲線上做調整。

Note : About others installation type of TAD series fan, Consult Flowtech for detail information.

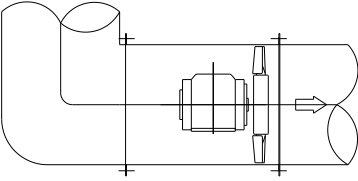
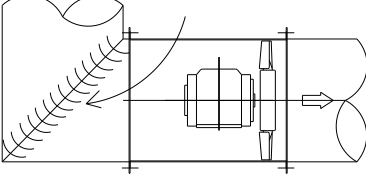
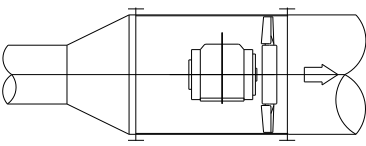
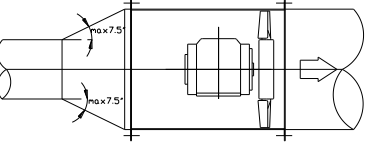
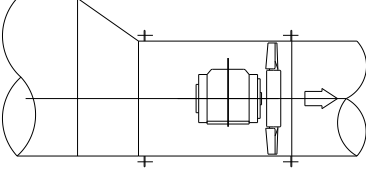
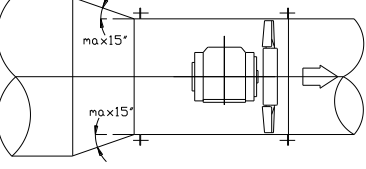
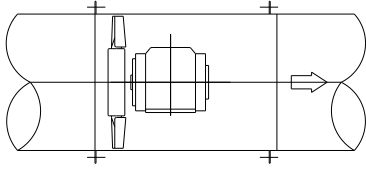
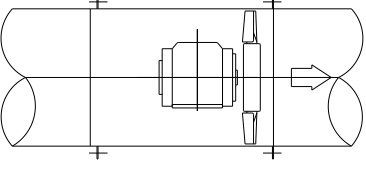
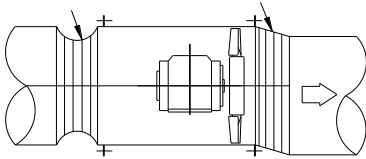
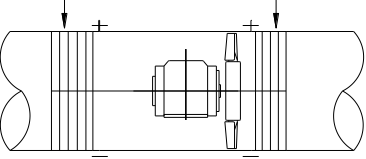
※注意：有關 TAD 系列風機各項安裝，請由陽鼎公司專業技術人員為您提出建議參考。

軸流風機風管安裝導引守則

Installation Guidelines for Ductwork of Axial Fan

請遵守下列安裝導引,以增加通風系統的風量

Please follow Installation Guidelines with Ductwork to maximize the air delivery to your ventilation system.

 上游彎肱管形成入口 氣流不平衡 Upstream radius elbow creates Imbalance at inlet	 內部裝有導流板的方形 入口肘管產生較低程度 的紊流至風機入口 Square inlet elbow with extended trailing edge Vaness delivers less airflow to fan turbulent inlet.
 入口接突擴管易造成 紊流 Abrupt inlet transition Causes turbulence	 入口接漸擴管(1:7)可避免 紊流發生 Gradual(1:7)expansion of Inlet duct avoids impeller turbulence
 不對稱接管造成風機 負載不平衡且產生額 外的紊流和噪音 Asymmetrical transition creates imbalanced with Minimizes turbulence and noise	 對稱接管可平衡風機負載 並減小紊流噪音 Symmetrical transition balances load on fan, minimizes turbulence and noise.
 馬達在葉輪下游增加 紊流和影響 Motor upstream of impeller increase turbulence and noise	 馬達在葉輪上游減小紊流 和影響 Motor downstream from impeller.
 鬆弛或偏置的連接管 形成空氣紊流 Slack or offset flexible connection causes turbulent air flow.	 拉緊的撓性連接管可避免 紊流的產生並提供合適的 避震效果 Taut in-line flexible connections provide optional vibration isolation without creating turbulence.



AMCA - FEG Rating



Certified FEGs are determined in accordance with AMCA 205 Energy Efficiency Classification for fans. In conjunction with AMCA 211 Certified power ratings Program, Product Rating Manual for Fan Air Performance. This classification is based on total peak, or optimum, fan efficiency for a given fan speed, impeller diameter and test application category (test configuration). For the purpose of energy classification, the peak efficiency shall be determined at a speed that is lower than the fan's maximum design speed. The AMCA Certified power ratings Seal applies to the Fan Efficiency Grade (FEG) for Low Pressure Axial Smoke-exhaust Fan Driven Directly model TAD-560 to TAD-1400 as shown in the table below.

Fan Model No.	Fan Speed (rpm)	Fan Efficiency Grades
TAD-560-200-5	3520/1760/1170	FEG 67
TAD-560-200-10	3520/1760/1170	FEG 67
TAD-630-200-5	3520/1760/1170	FEG 60
TAD-630-200-10	3520/1760/1170	FEG 63
TAD-710-200-5	3520/1760/1170	FEG 60
TAD-710-200-10	3520/1760/1170	FEG 63
TAD-800-300-6	1760/1170	FEG 67
TAD-800-300-12	1760/1170	FEG 67
TAD-900-300-6	1760/1170	FEG 71
TAD-900-300-12	1760/1170	FEG 71
TAD-1000-300-6	1760/1170	FEG 71
TAD-1000-300-12	1760/1170	FEG 75
TAD-1120-388-5	1760/1170	FEG 71
TAD-1120-388-10	1760/1170	FEG 63
TAD-1250-388-5	1760/1170	FEG 67
TAD-1250-388-10	1760/1170	FEG 67
TAD-1400-388-5	1170/880	FEG 71
TAD-1400-388-10	1170/880	FEG 67

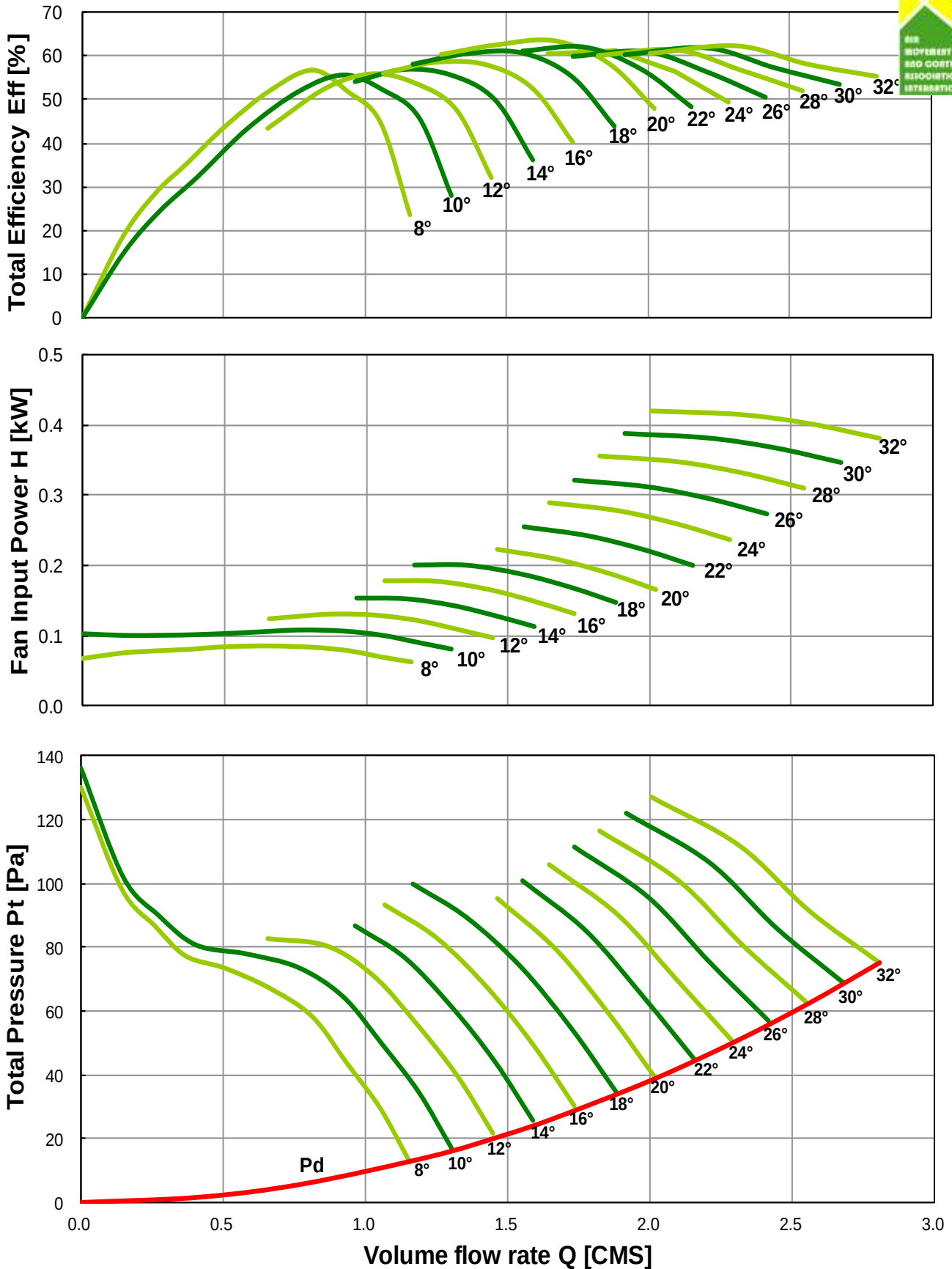


Axial Fan Driven Directly

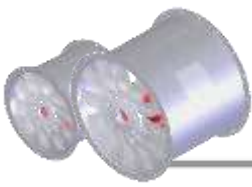
TAD-560-200-5 (60 Hz) Performance Curves

FEG 67

Fan Speed $N = 1170$ [rpm] Outlet Area $A = 0.2463$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



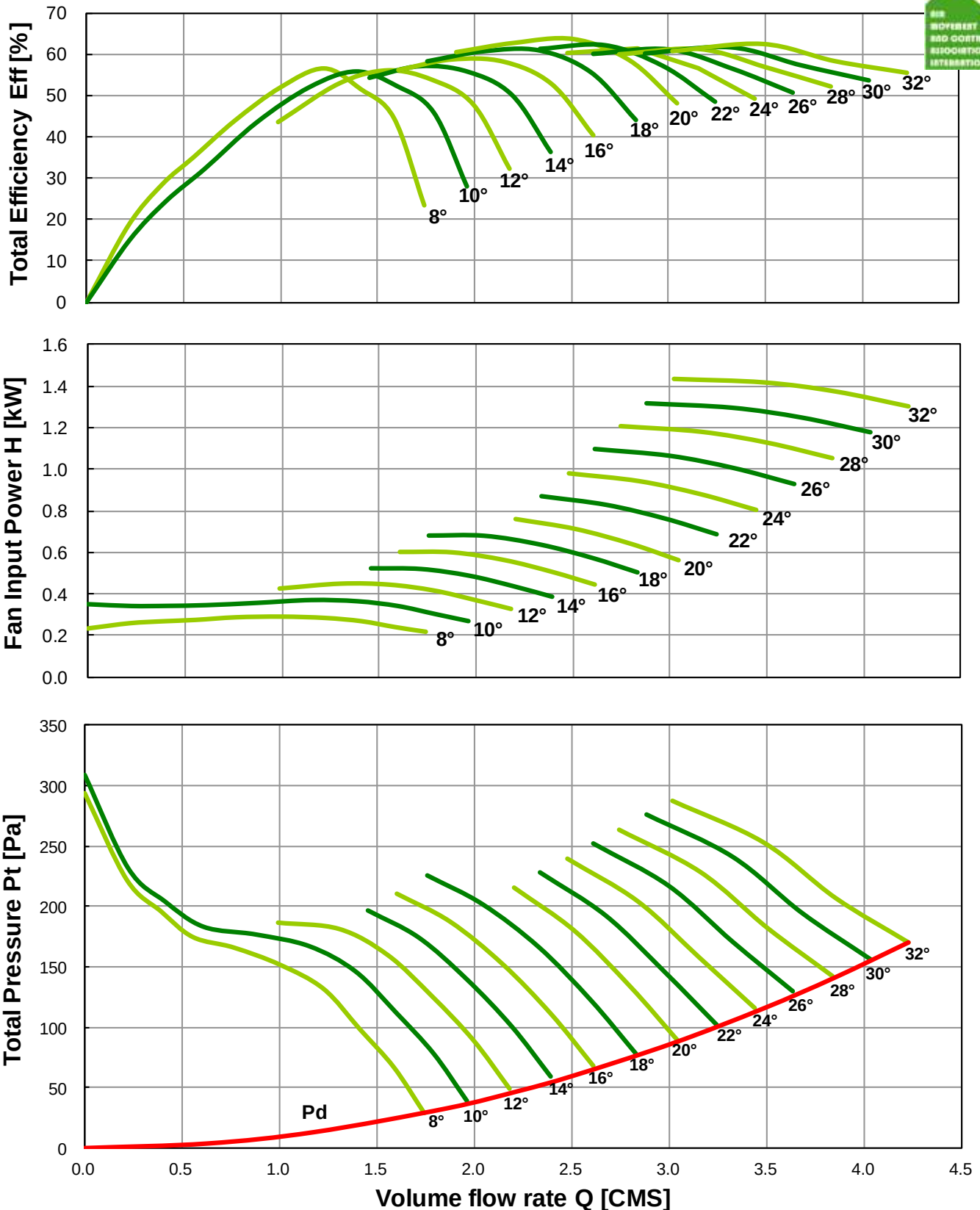
Axial Fan Driven Directly



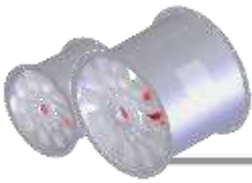
TAD-560-200-5 (60 Hz) Performance Curves

FEG 67

Fan Speed $N = 1760$ [rpm] Outlet Area $A = 0.2463$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



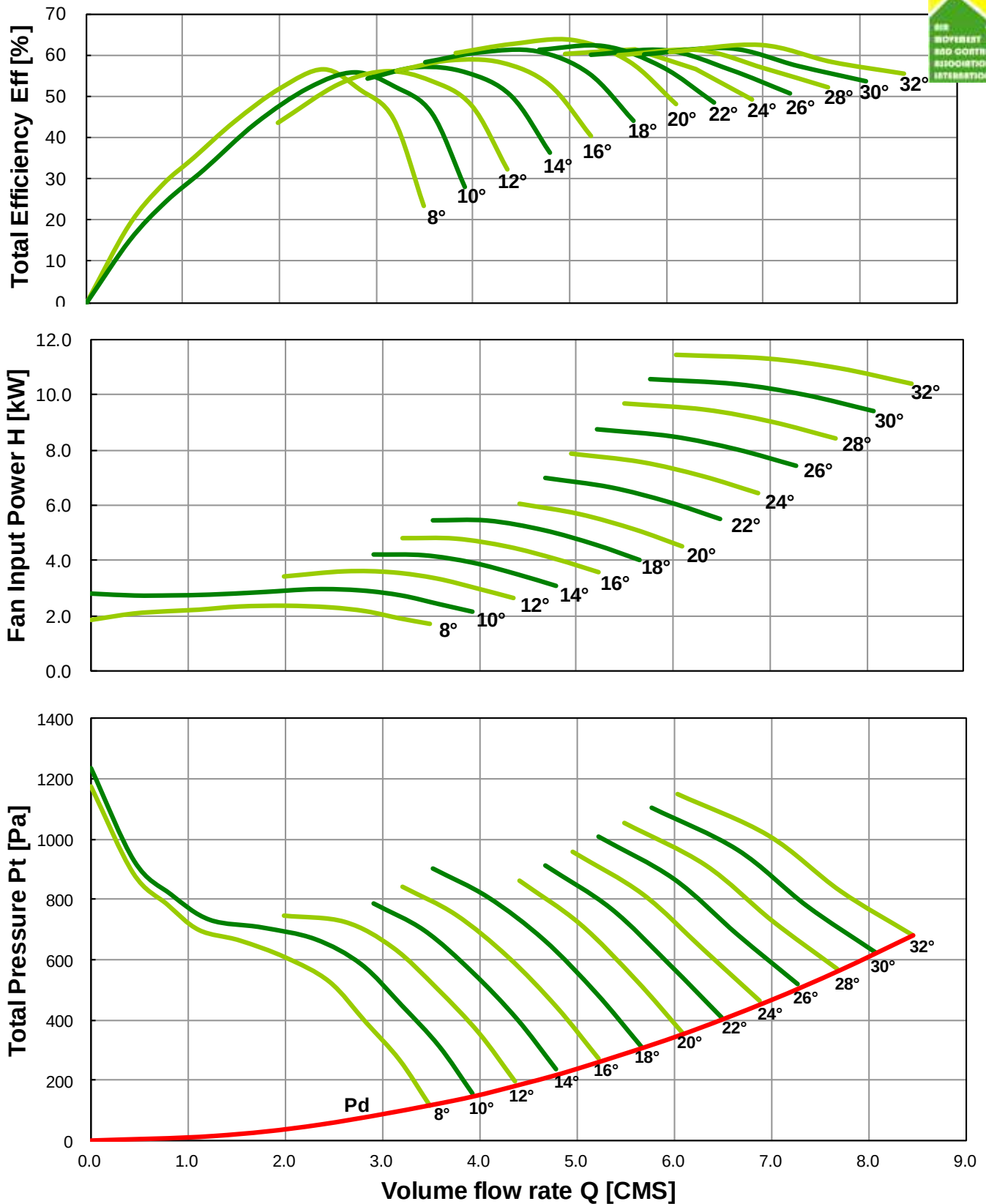
Axial Fan Driven Directly



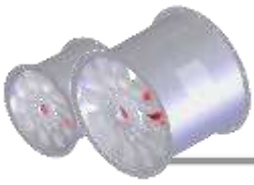
TAD-560-200-5 (60 Hz) Performance Curves

FEG 67

Fan Speed $N = 3520$ [rpm] Outlet Area $A = 0.2463$ [m²] $\rho = 1.2$ k



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

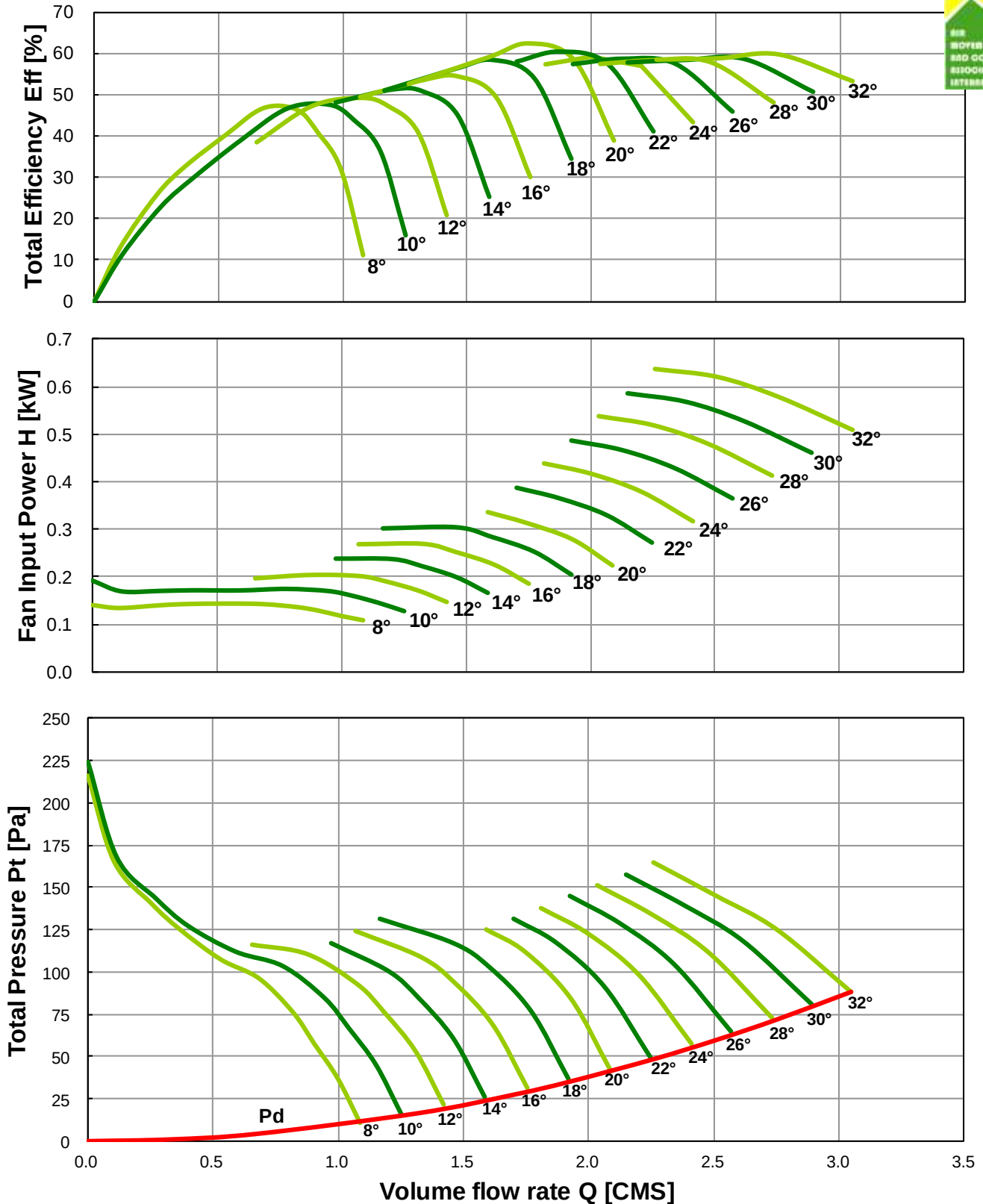


Axial Fan Driven Directly

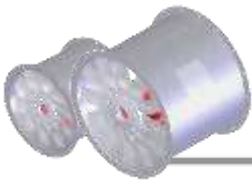
TAD-560-200-10 (60 Hz) Performance Curves

FEG 67

Fan Speed $N = 1170$ [rpm] Outlet Area $A = 0.2463$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



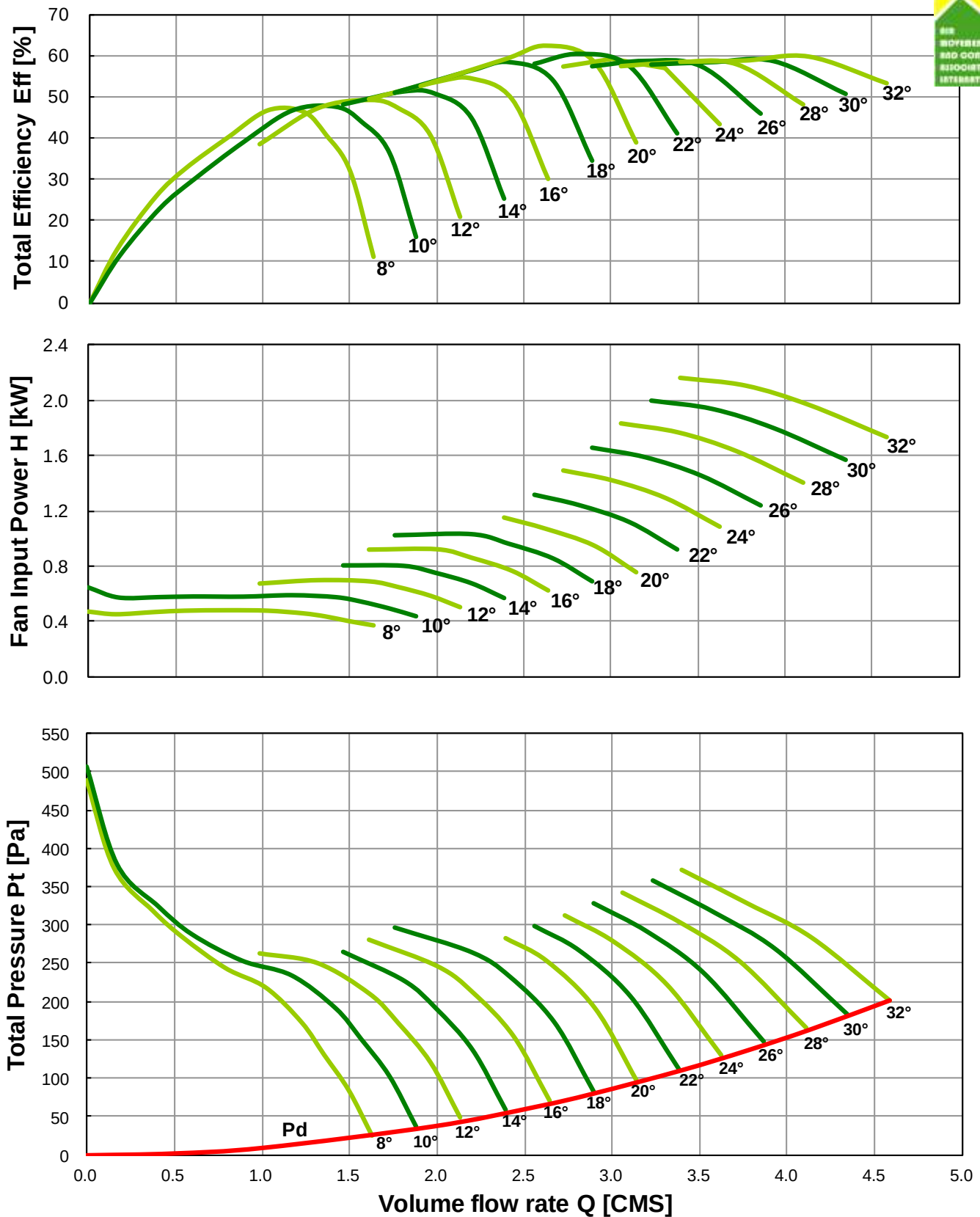
Axial Fan Driven Directly



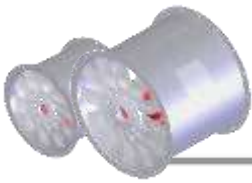
TAD-560-200-10 (60 Hz) Performance Curves

FEG 67

Fan Speed $N = 1760$ [rpm] Outlet Area $A = 0.2463$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



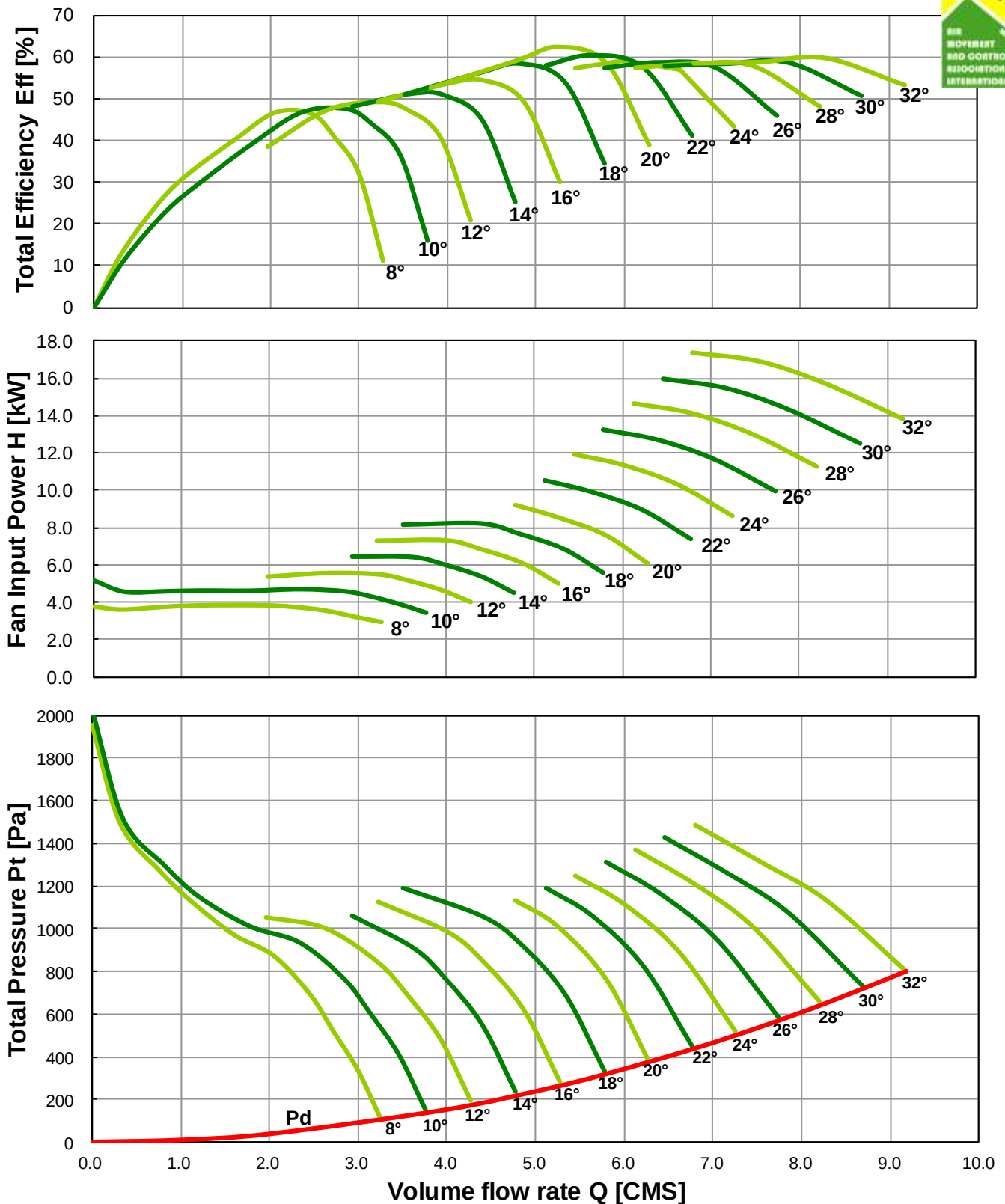
Axial Fan Driven Directly



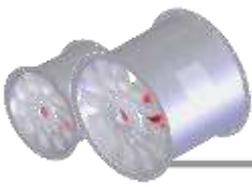
TAD-560-200-10 (60 Hz) Performance Curves

FEG 67

Fan Speed $N = 3520$ [rpm] Outlet Area $A = 0.2463$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



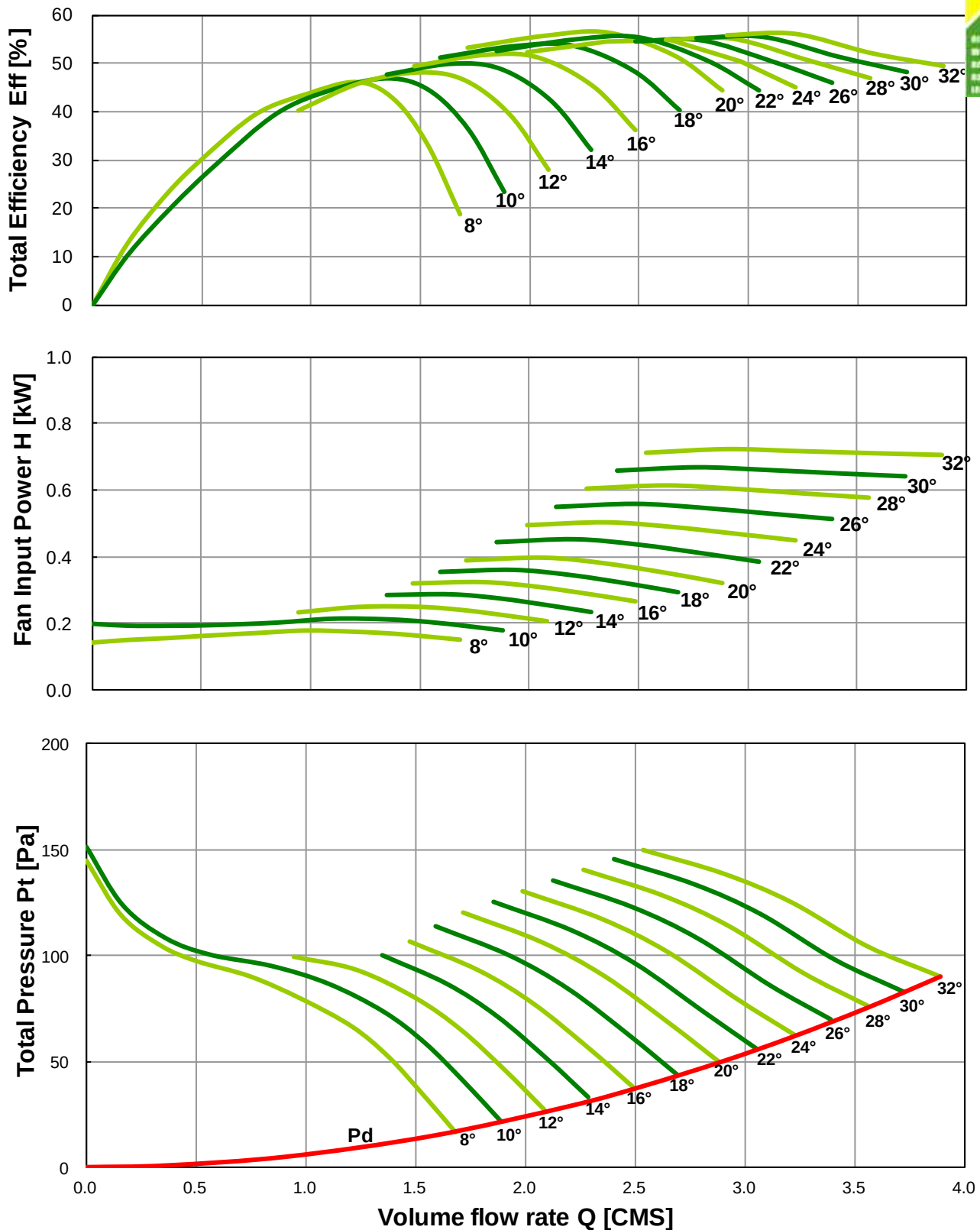
Axial Fan Driven Directly



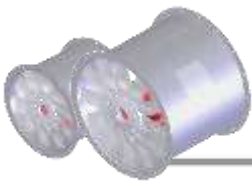
TAD-630-200-5 (60 Hz) Performance Curves

FEG 60

Fan Speed $N = 1170$ [rpm] Outlet Area $A = 0.3167$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



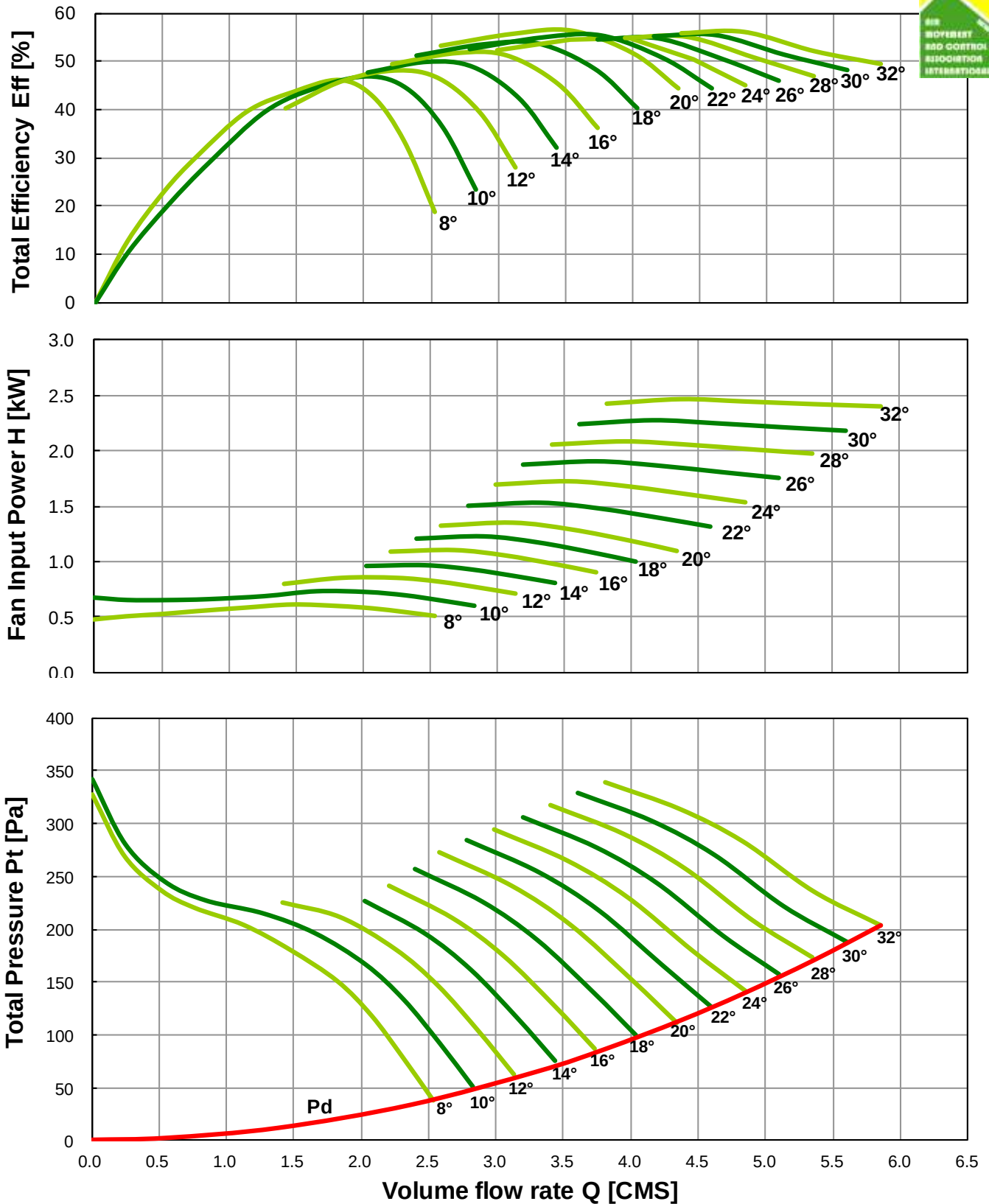
Axial Fan Driven Directly



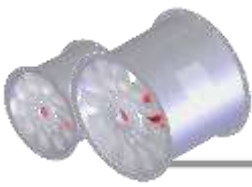
TAD-630-200-5 (60 Hz) Performance Curves

FEG 60

Fan Speed $N = 1760$ [rpm] Outlet Area $A = 0.3167$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



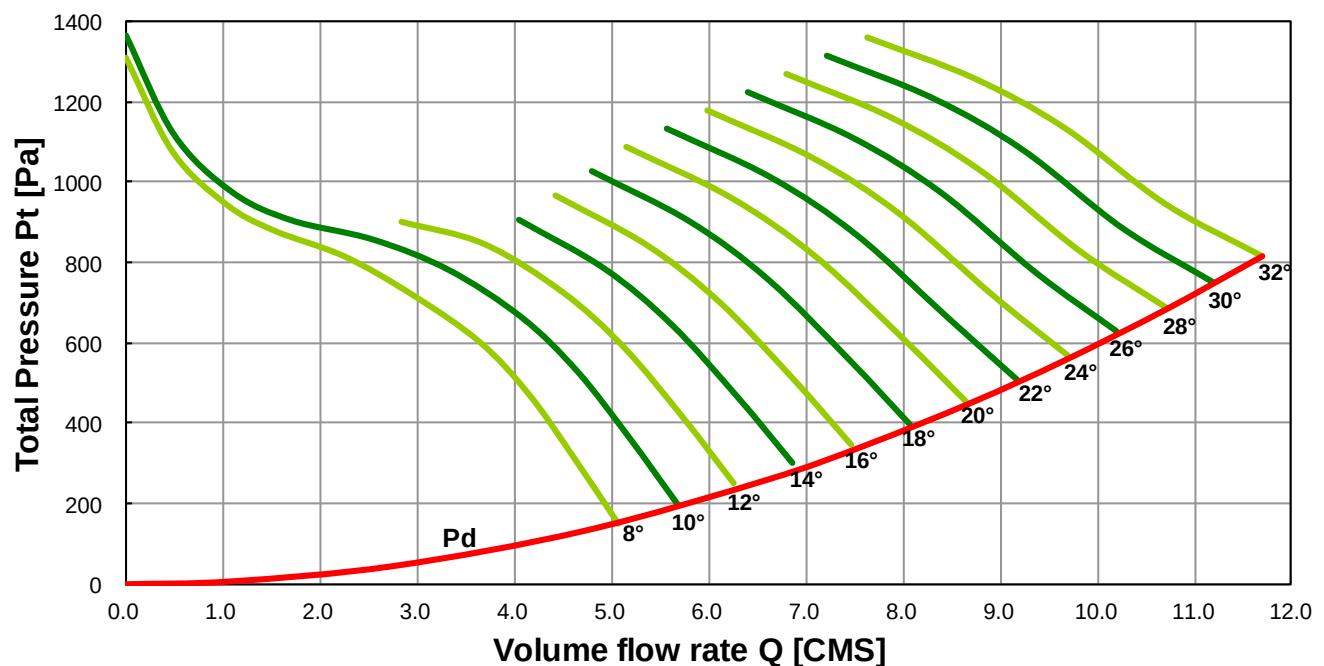
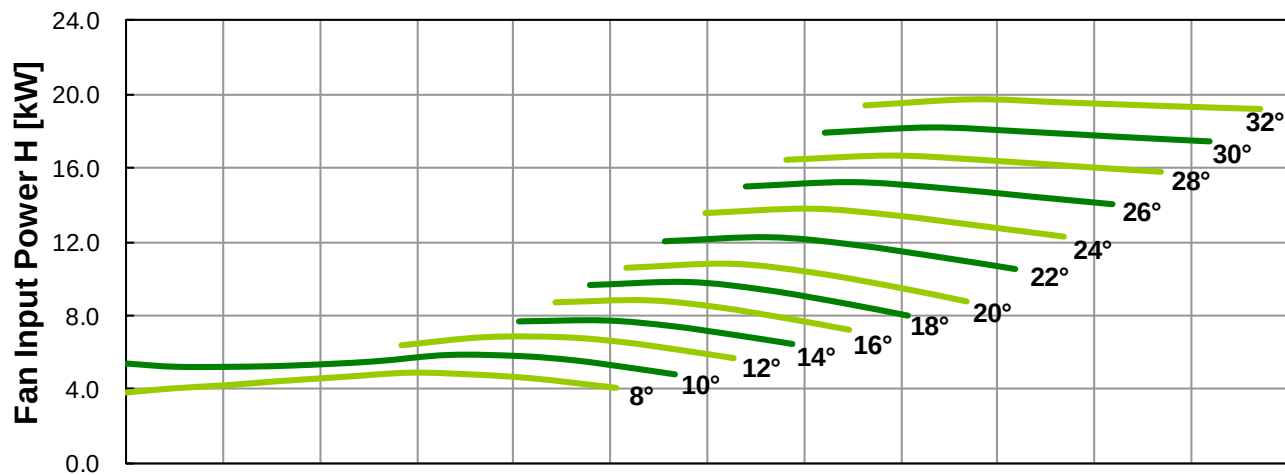
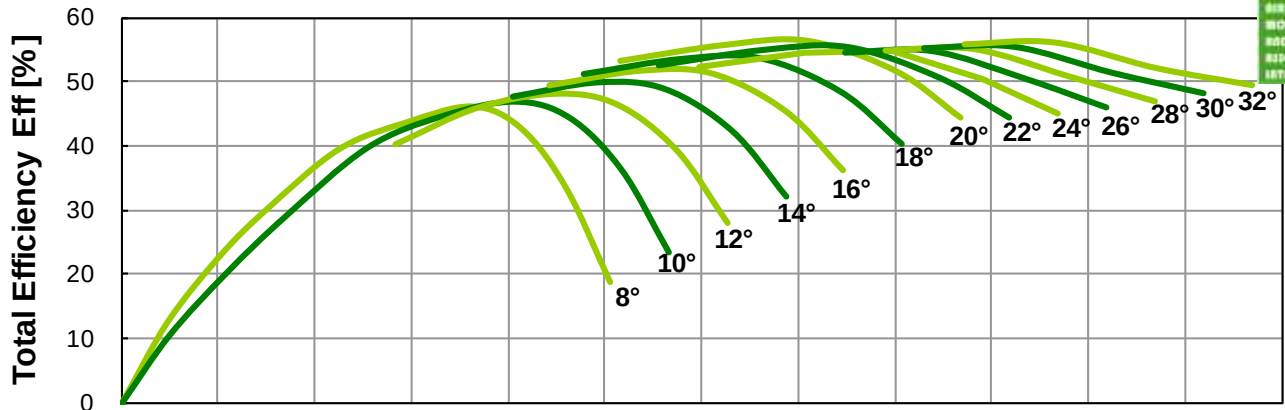
Axial Fan Driven Directly



TAD-630-200-5 (60 Hz) Performance Curves

FEG 60

Fan Speed $N = 3520$ [rpm] Outlet Area $A = 0.3167$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



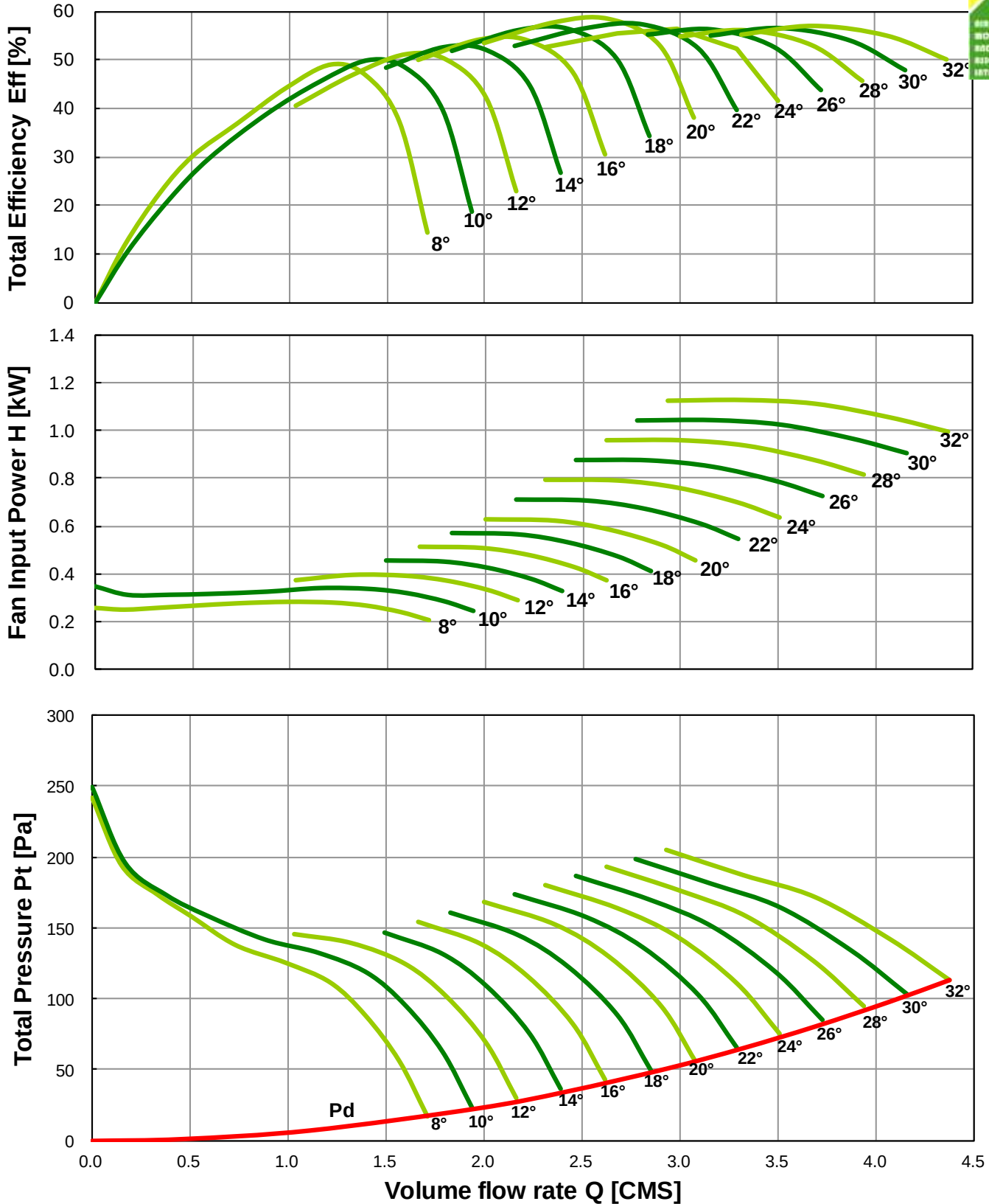
Axial Fan Driven Directly



TAD-630-200-10 (60 Hz) Performance Curves

FEG 63

Fan Speed $N = 1170$ [rpm] Outlet Area $A = 0.3167$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

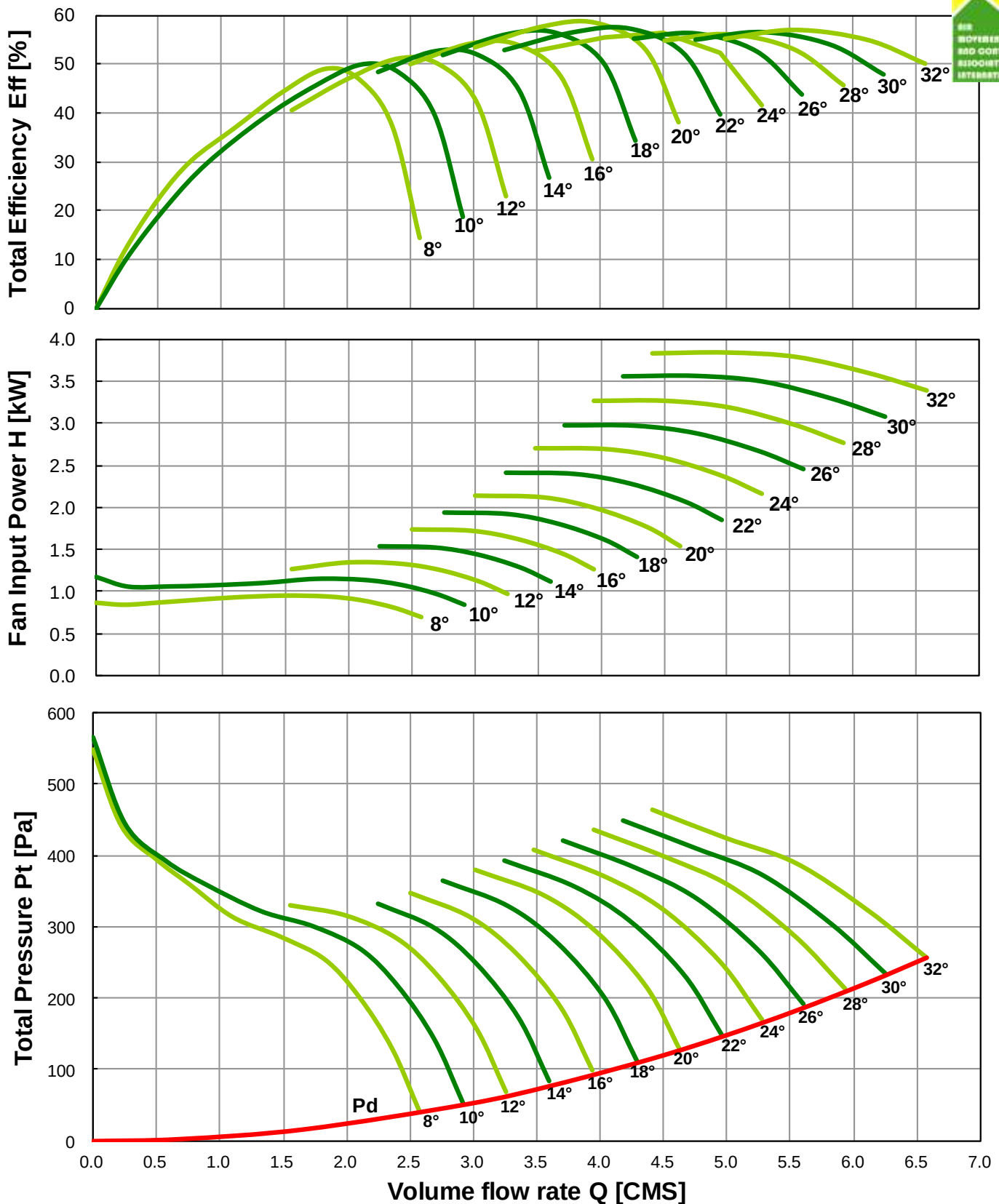


Axial Fan Driven Directly

TAD-630-200-10 (60 Hz) Performance Curves

FEG 63

Fan Speed $N = 1760$ [rpm] Outlet Area $A = 0.3167$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



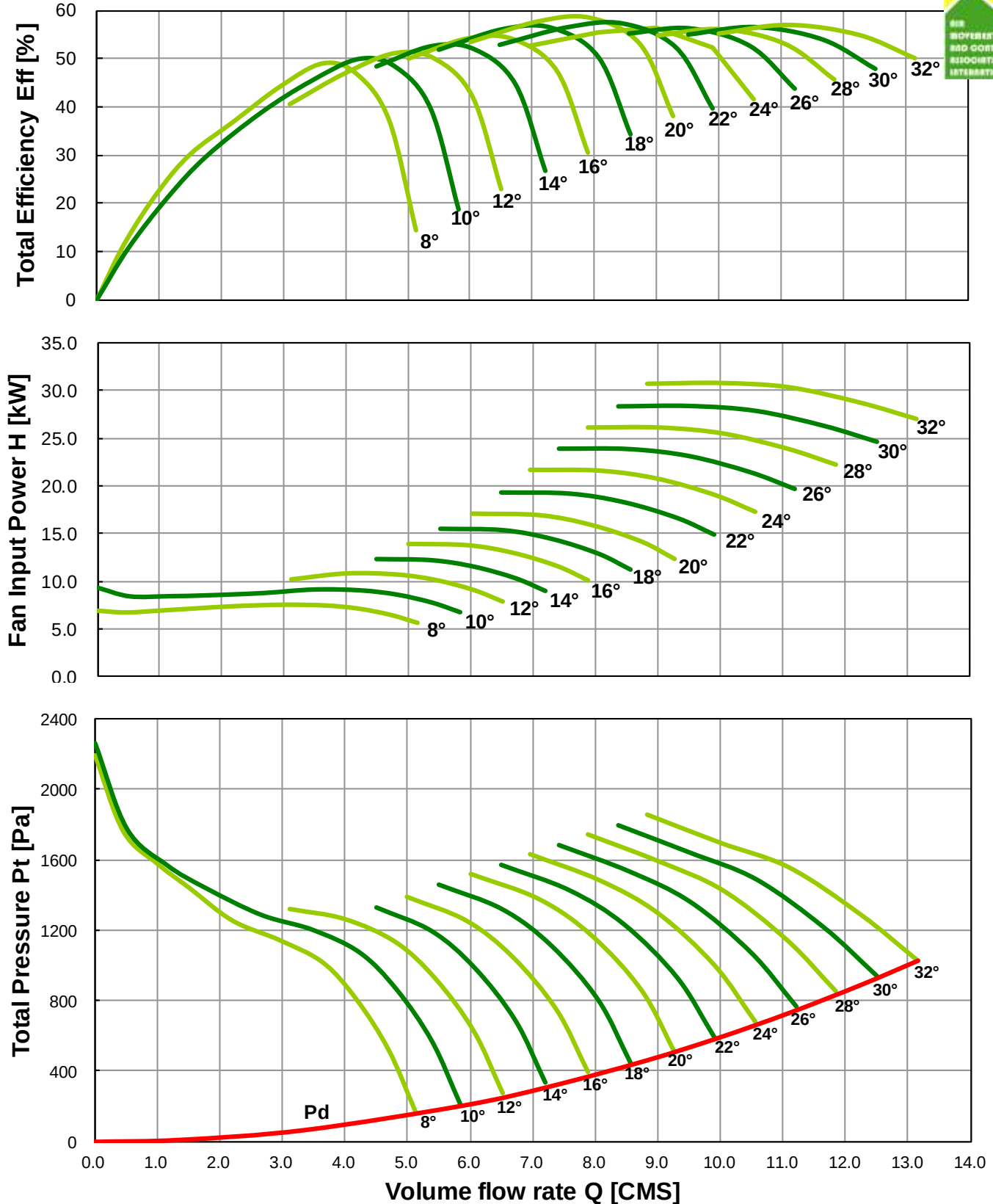
Axial Fan Driven Directly



TAD-630-200-10 (60 Hz) Performance Curves

FEG 63

Fan Speed $N = 3520$ [rpm] Outlet Area $A = 0.3167$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



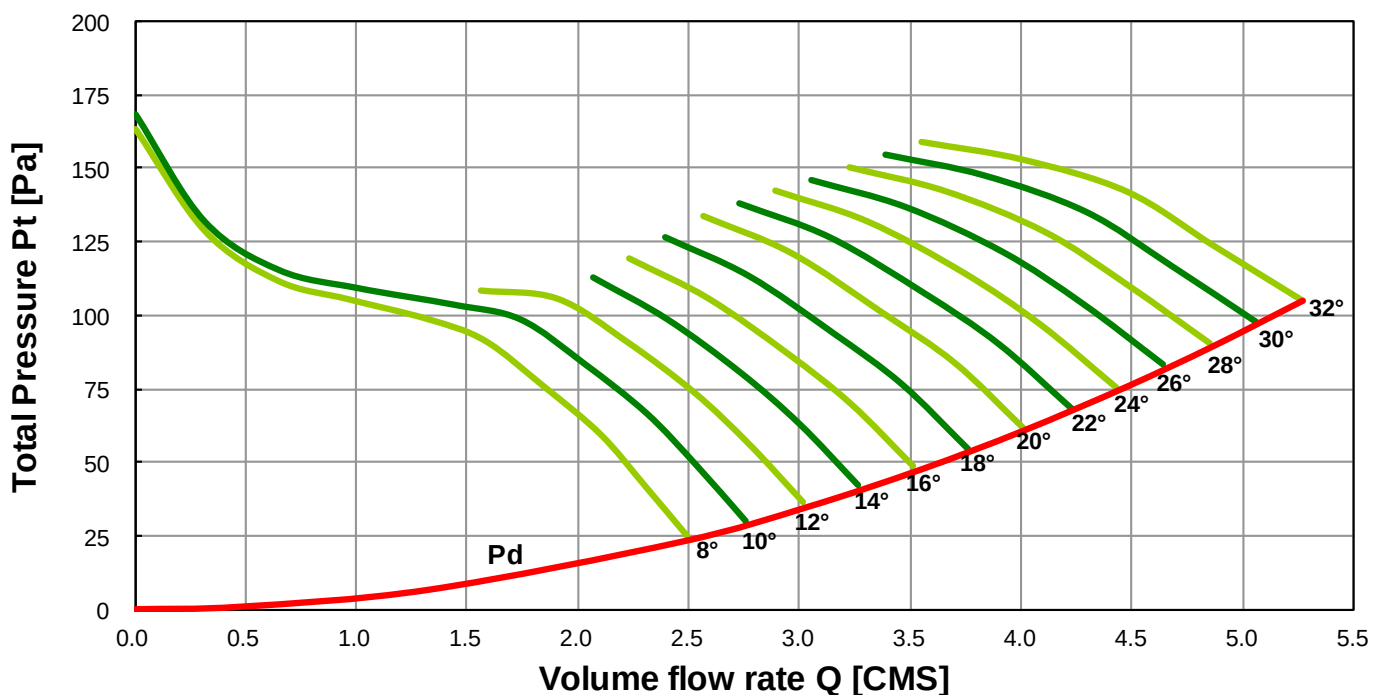
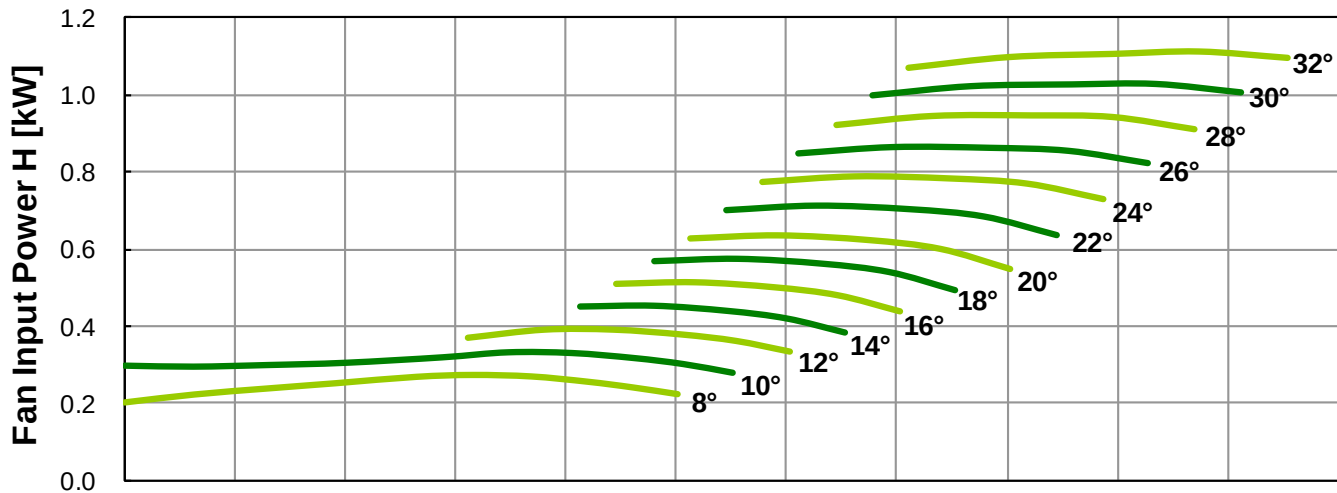
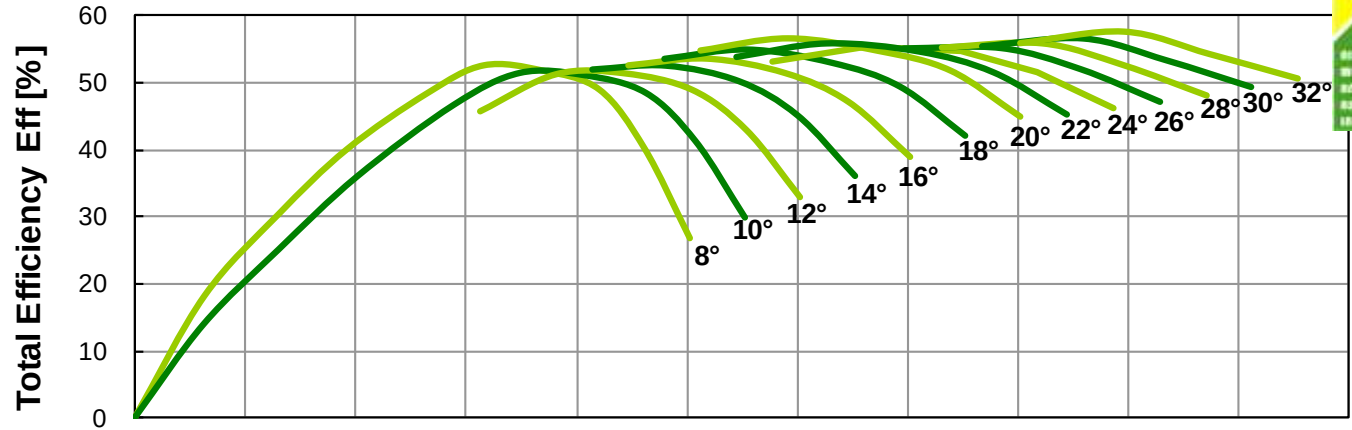
Axial Fan Driven Directly



TAD-710-200-5 (60 Hz) Performance Curves

FEG 60

Fan Speed $N = 1170$ [rpm] Outlet Area $A = 0.3959$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



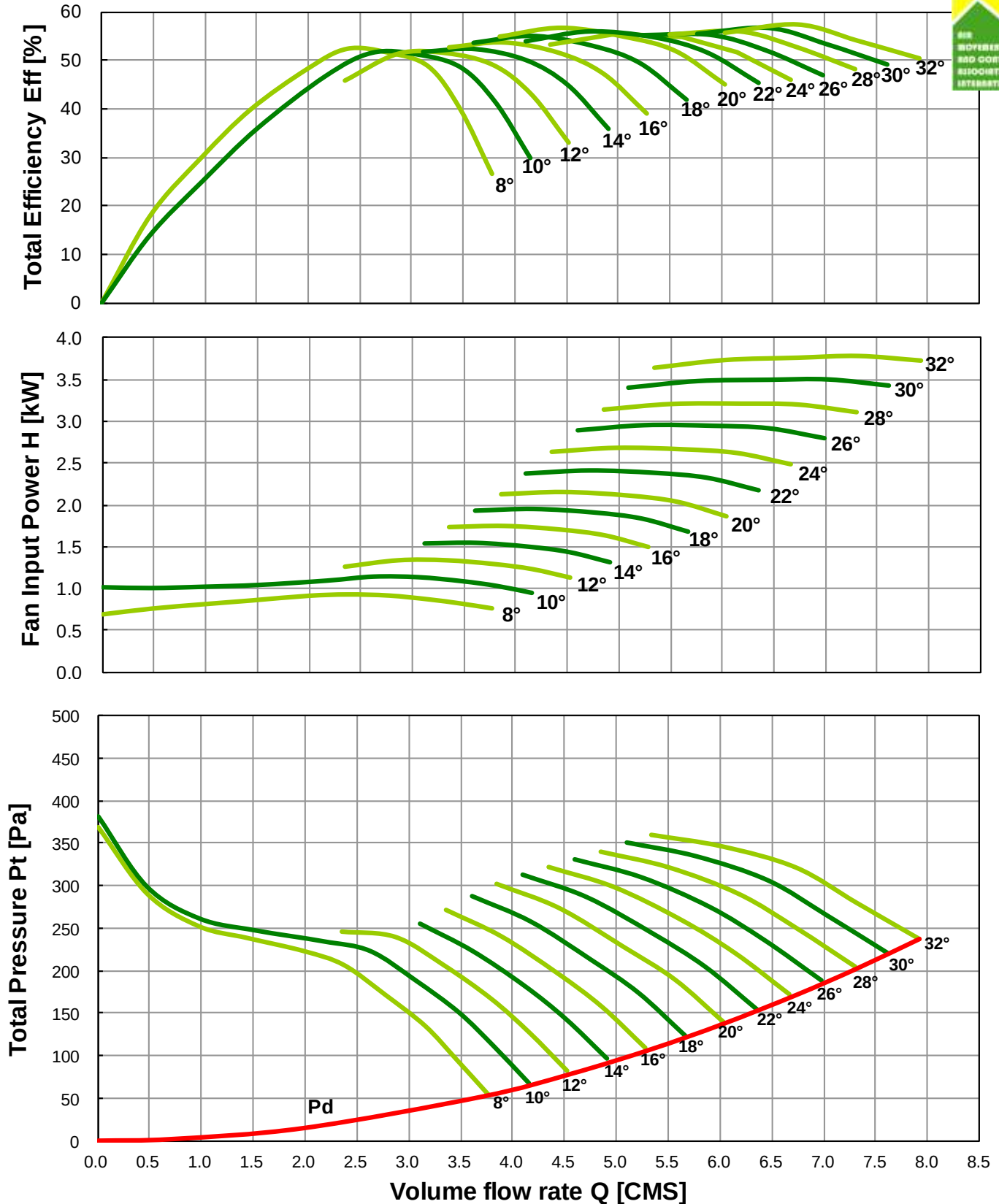
Axial Fan Driven Directly



TAD-710-200-5 (60 Hz) Performance Curves

FEG 60

Fan Speed $N = 1760$ [rpm] Outlet Area $A = 0.3959$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



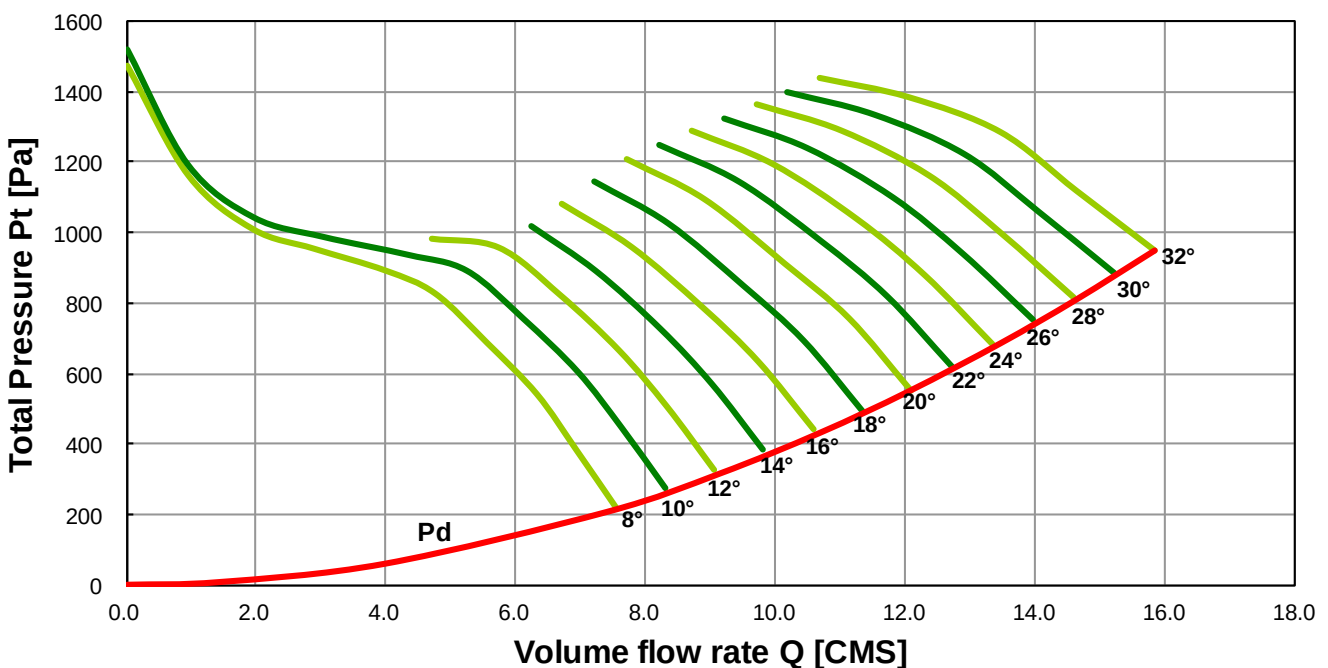
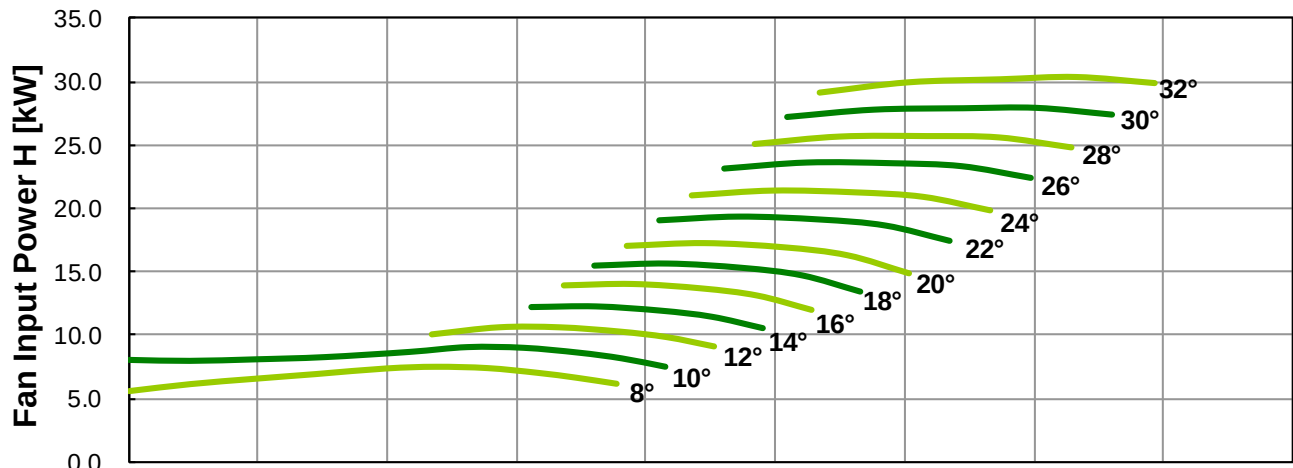
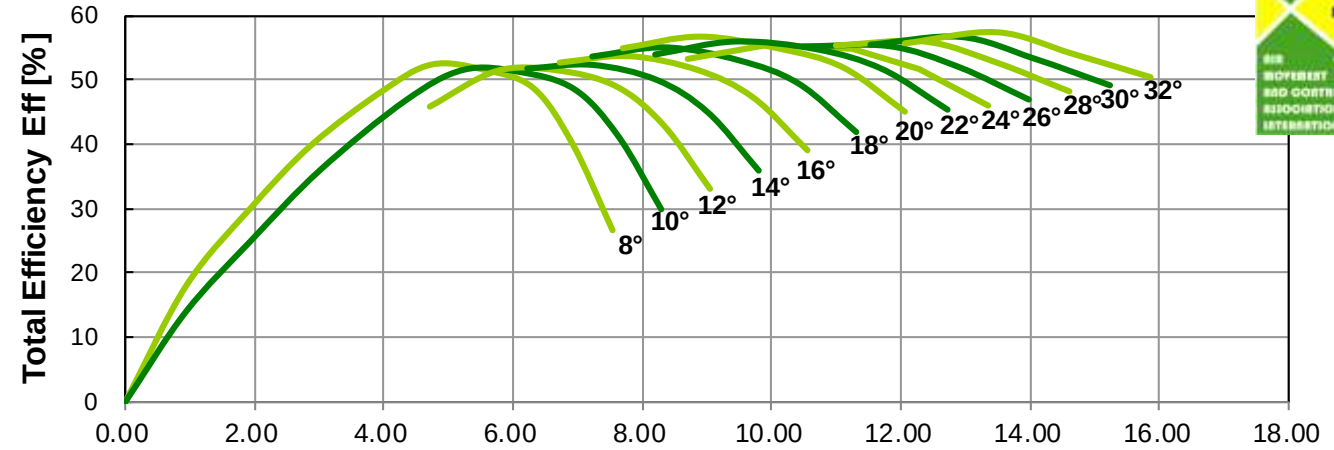
Axial Fan Driven Directly



TAD-710-200-5 (60 Hz) Performance Curves

FEG 60

Fan Speed $N = 3520$ [rpm] Outlet Area $A = 0.3959$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



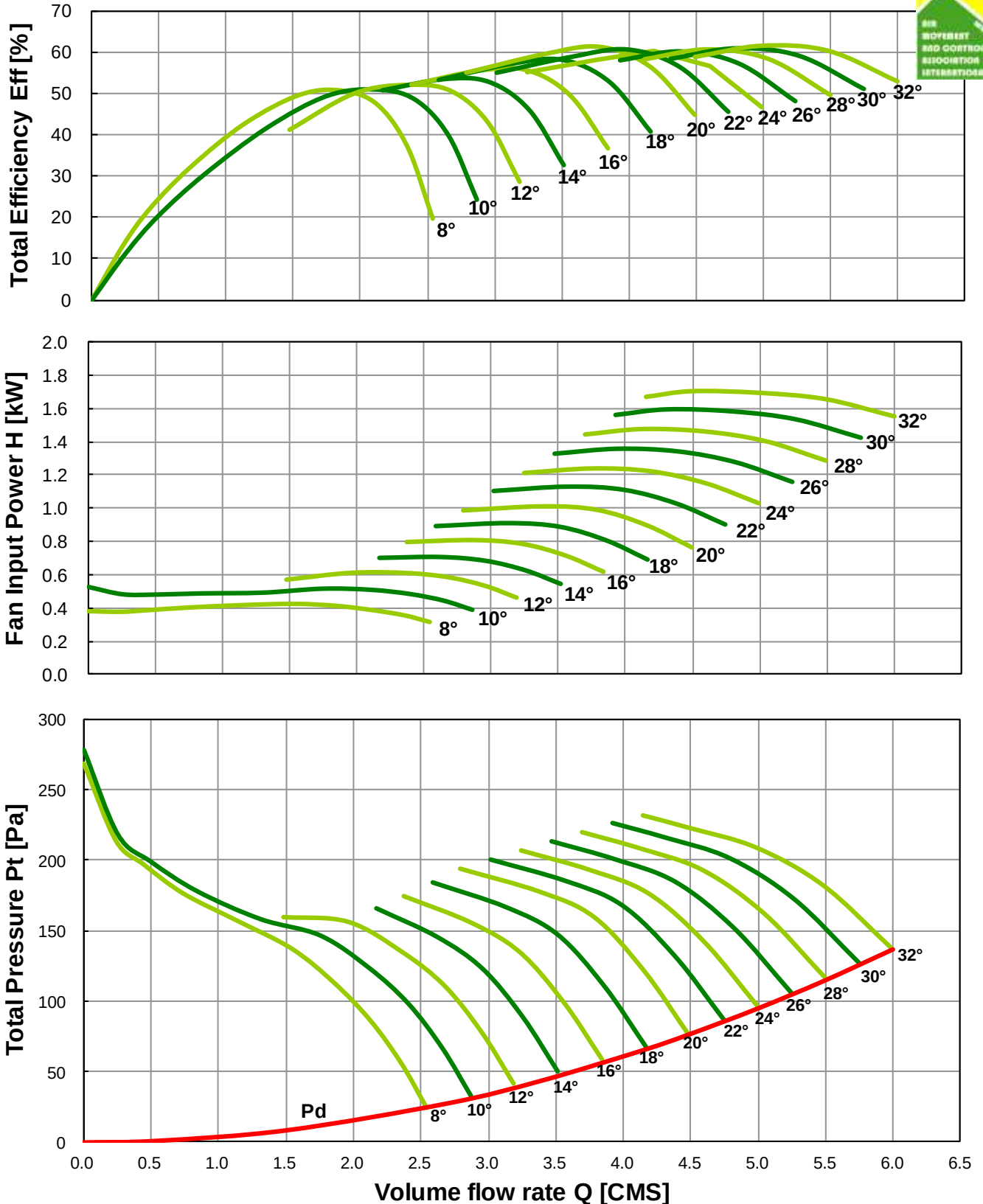
Axial Fan Driven Directly



TAD-710-200-10 (60 Hz) Performance Curves

FEG 63

Fan Speed $N = 1170$ [rpm] Outlet Area $A = 0.3959$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



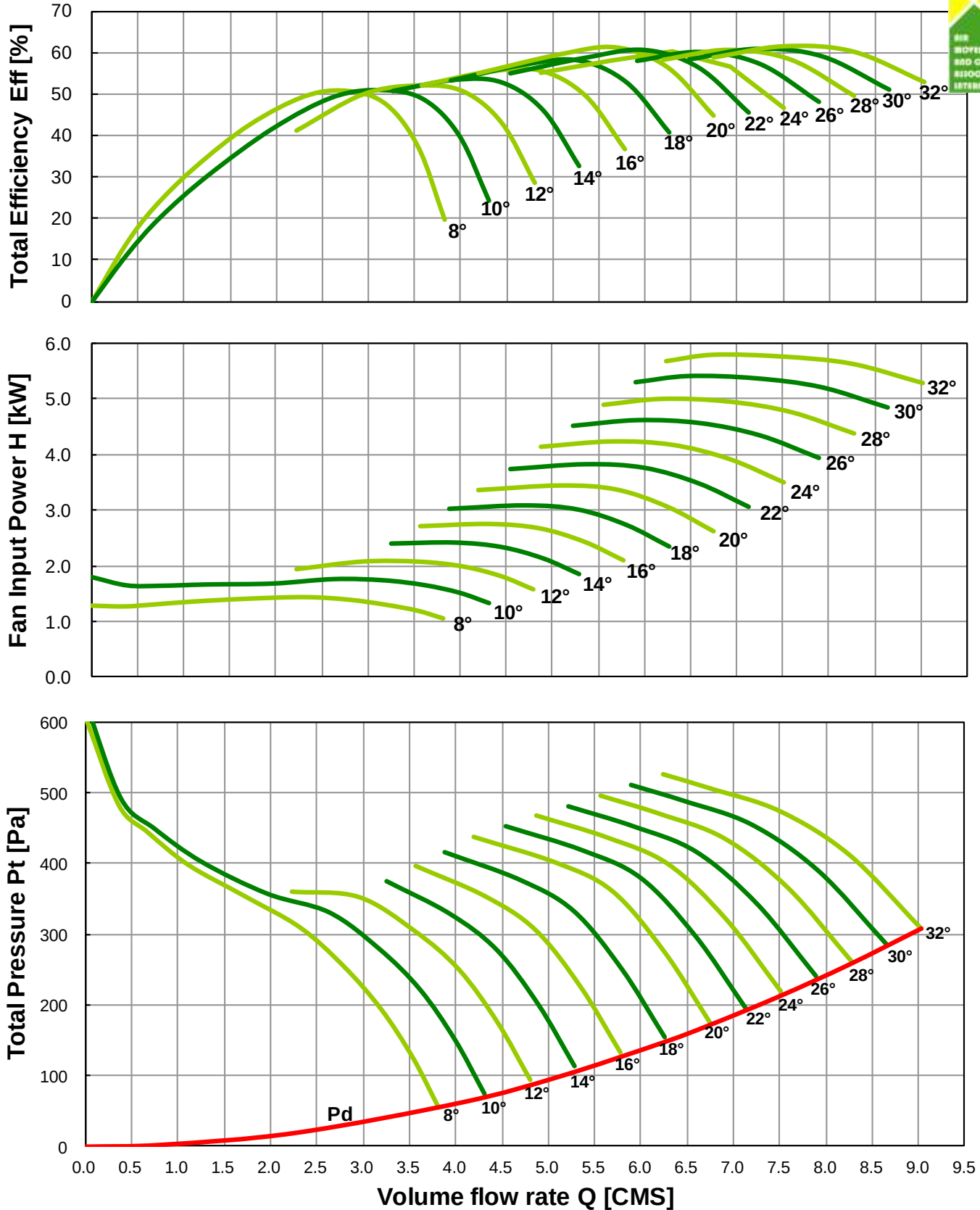
Axial Fan Driven Directly



TAD-710-200-10 (60 Hz) Performance Curves

FEG 63

Fan Speed $N = 1760$ [rpm] Outlet Area $A = 0.3959$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



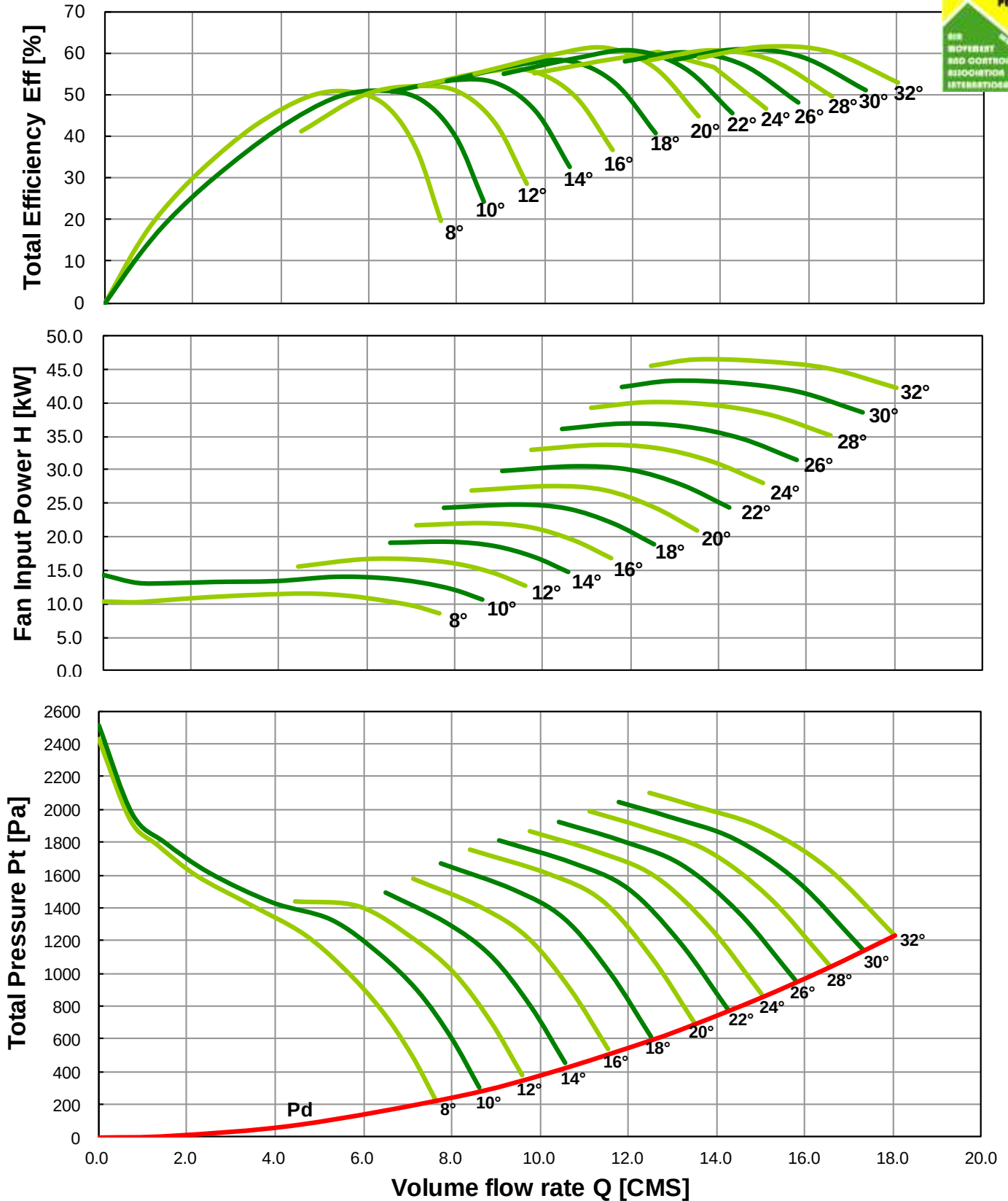
Axial Fan Driven Directly



TAD-710-200-10 (60 Hz) Performance Curves

FEG 63

Fan Speed $N = 3520$ [rpm] Outlet Area $A = 0.3959$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



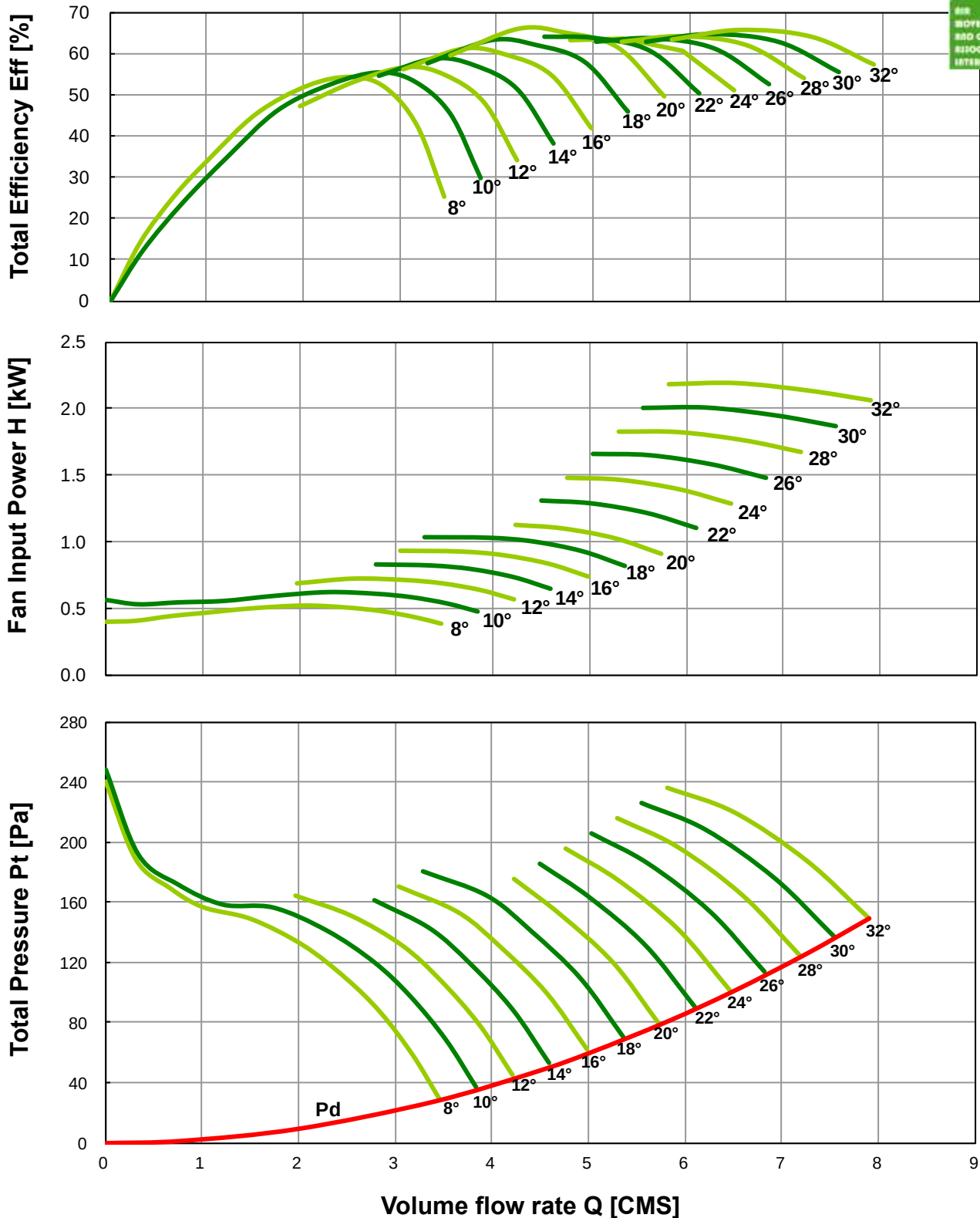
Axial Fan Driven Directly



TAD-800-300-6(60 Hz) Performance Curves

FEG 67

Fan Speed $N = 1170$ [rpm] Outlet Area $A = 0.5027$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



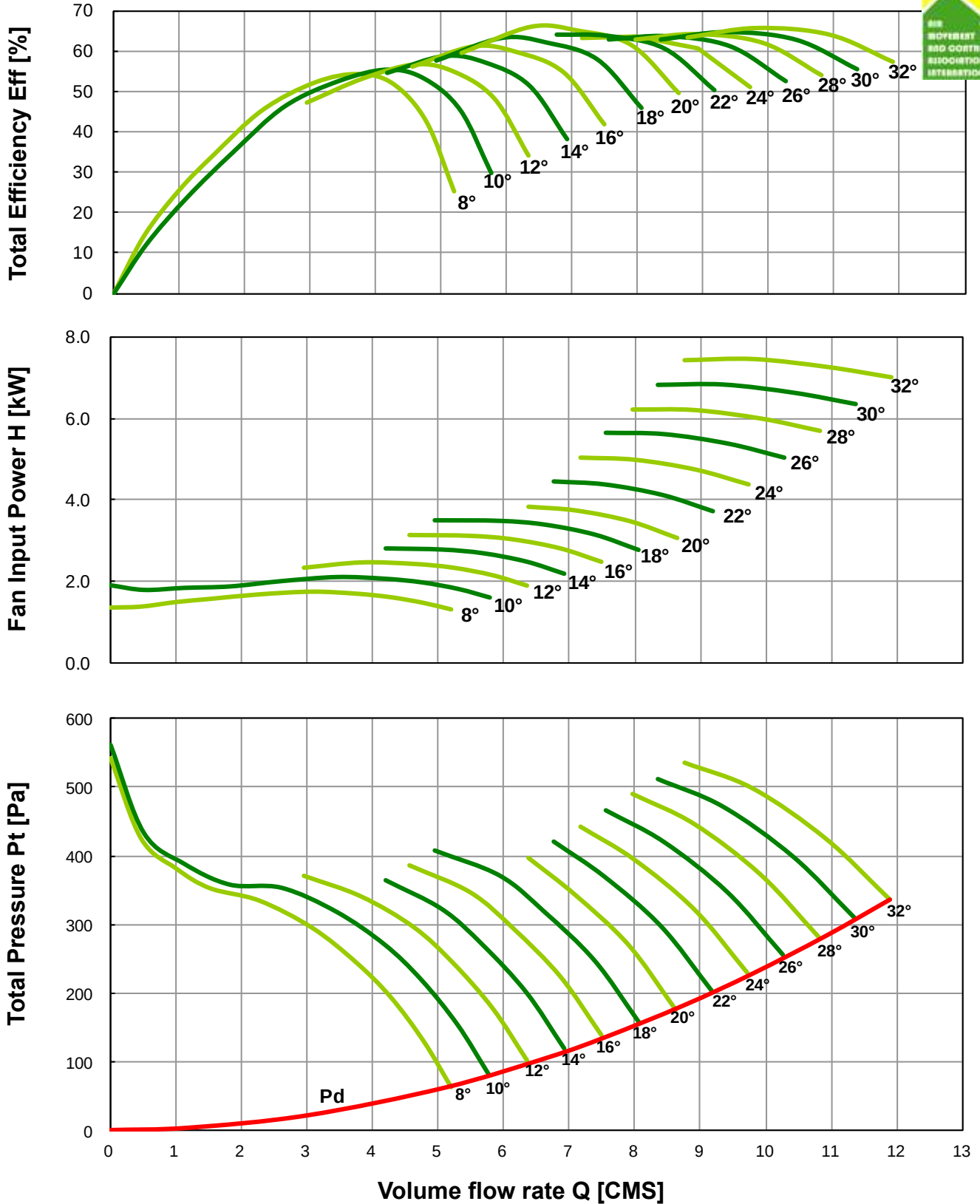
Axial Fan Driven Directly



TAD-800-300-6(60 Hz) Performance Curves

FEG 67

Fan Speed $N = 1760$ [rpm] Outlet Area $A = 0.5027$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



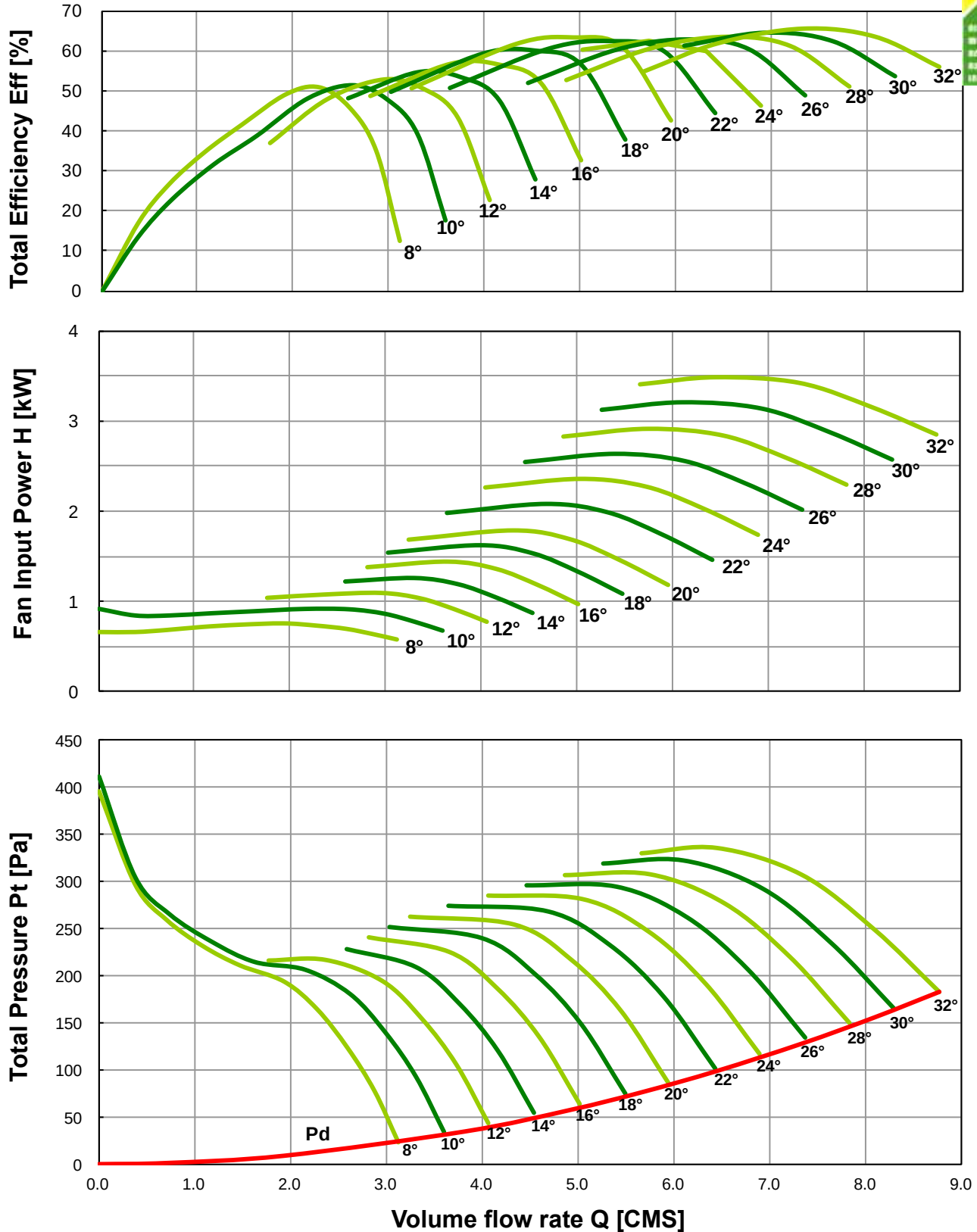
Axial Fan Driven Directly



TAD-800-300-12 (60 Hz) Performance Curves

FEG 67

Fan Speed $N = 1170$ [rpm] Outlet Area $A = 0.5027$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



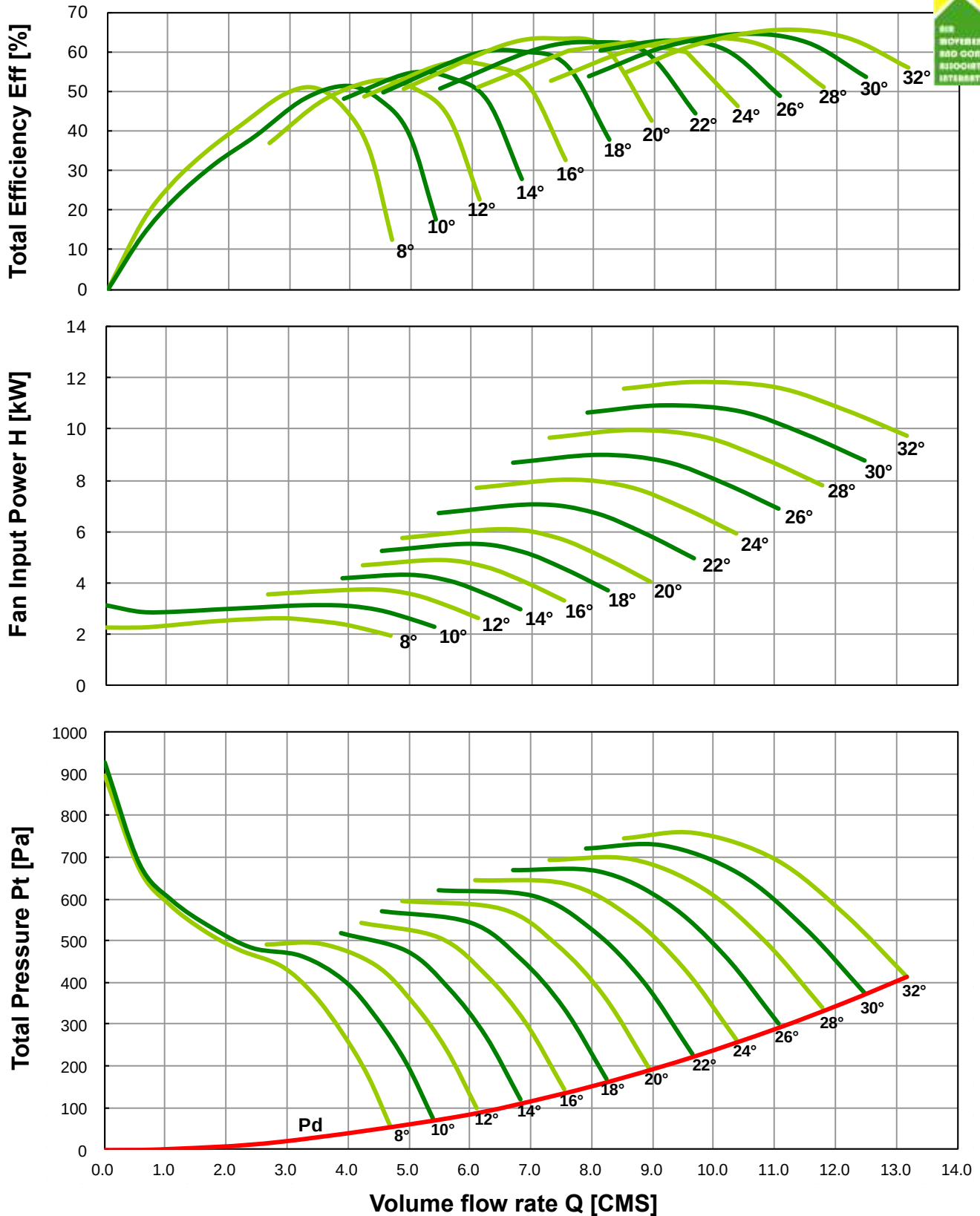
Axial Fan Driven Directly



TAD-800-300-12 (60 Hz) Performance Curves

FEG 67

Fan Speed $N = 1760$ [rpm] Outlet Area $A = 0.5027$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



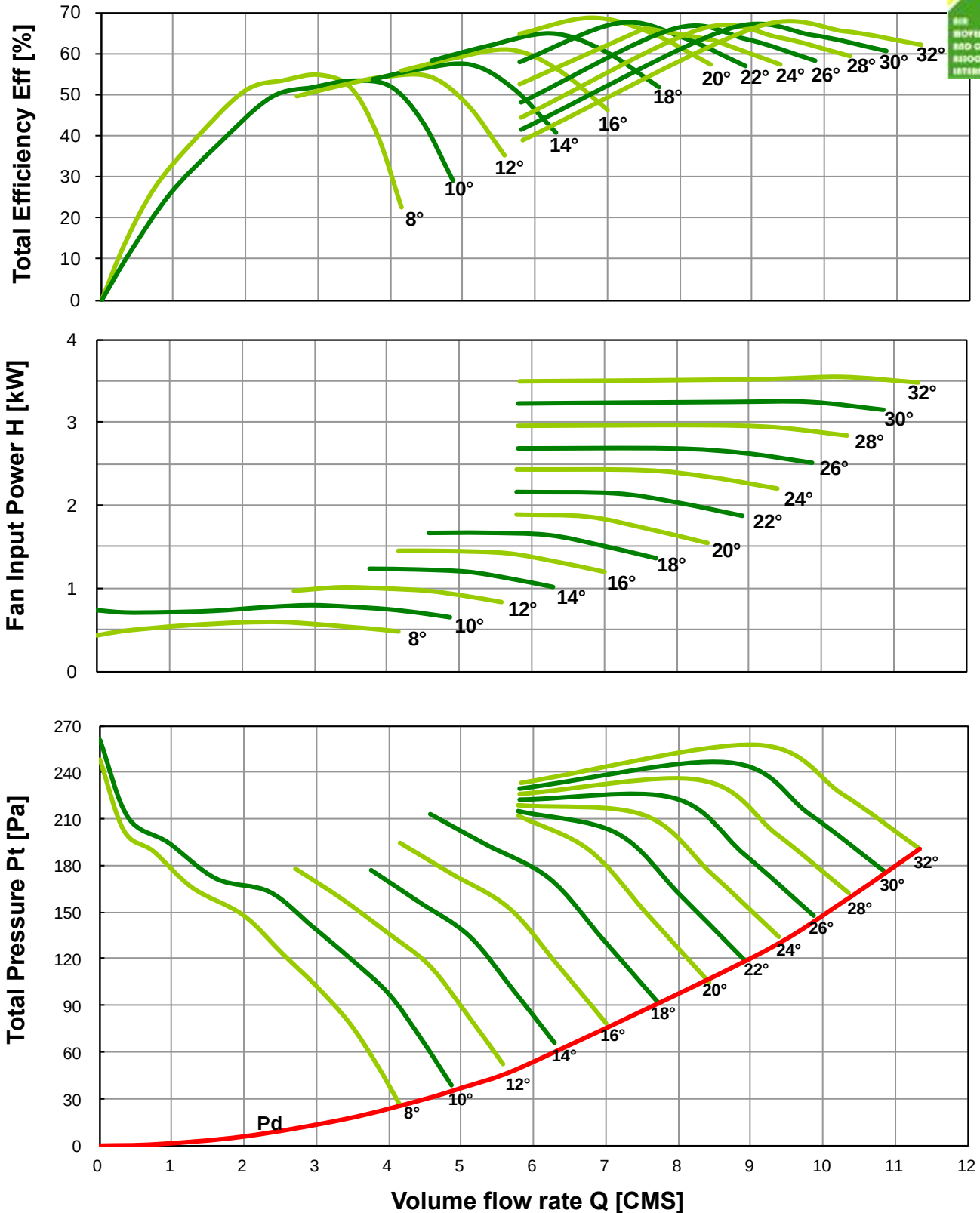
Axial Fan Driven Directly



TAD-900-300-6 (60 Hz) Performance Curves

FEG 71

Fan Speed $N = 1170$ [rpm] Outlet Area $A = 0.6362$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



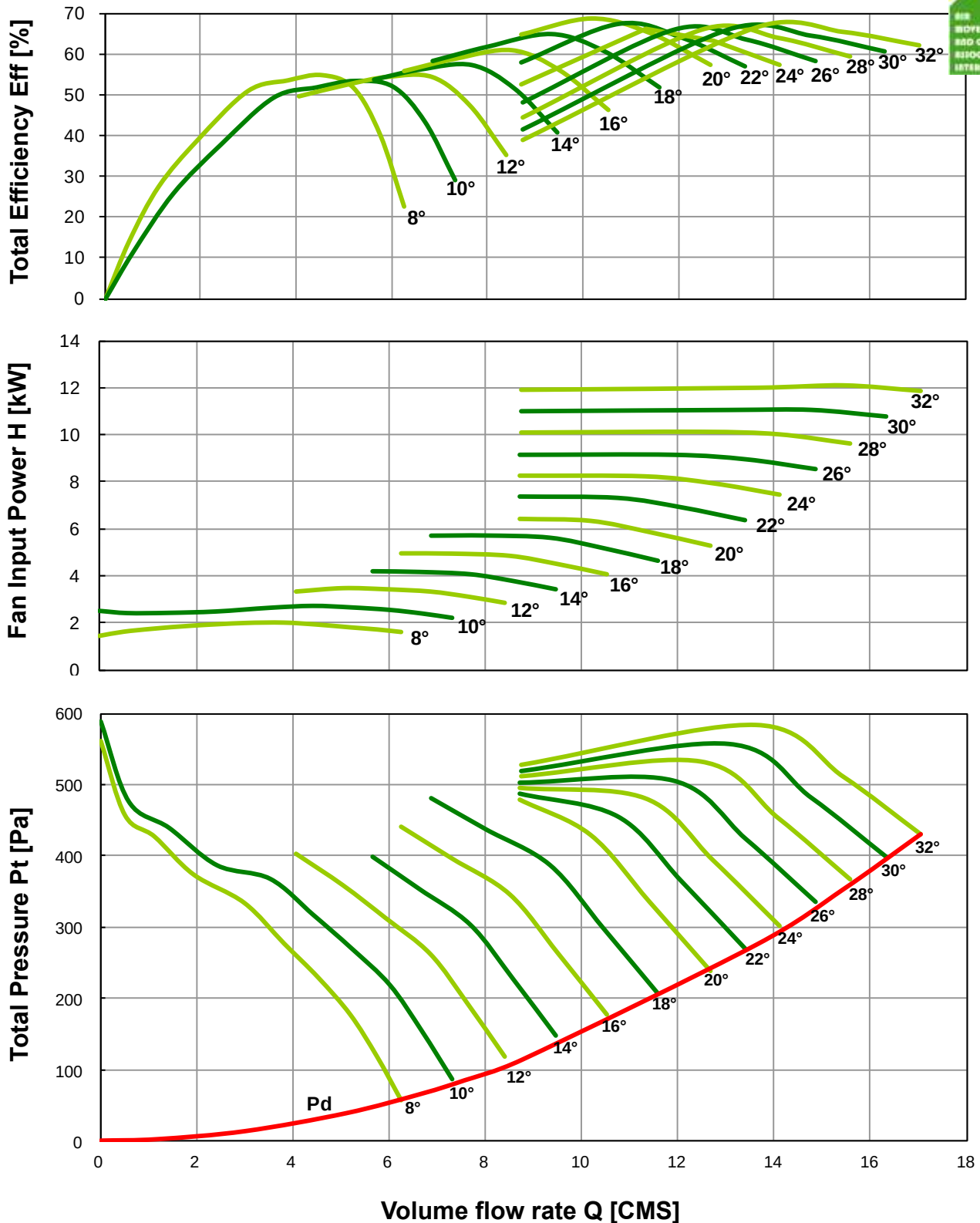
Axial Fan Driven Directly



TAD-900-300-6 (60 Hz) Performance Curves

FEG 71

Fan Speed $N = 1760$ [rpm] Outlet Area $A = 0.6362$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



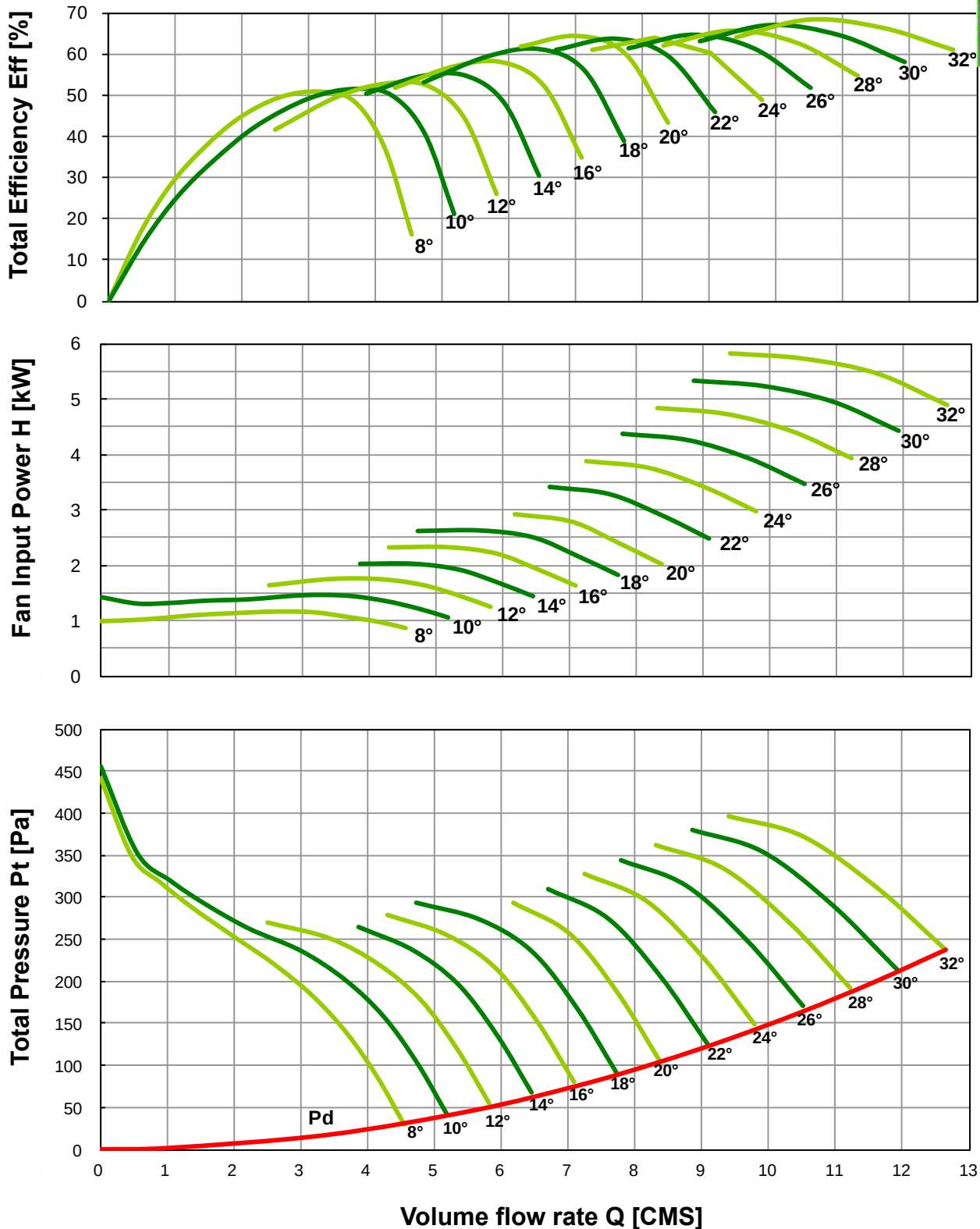
Axial Fan Driven Directly



TAD-900-300-12 (60 Hz) Performance Curves

FEG 71

Fan Speed $N = 1170$ [rpm] Outlet Area $A = 0.6362$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



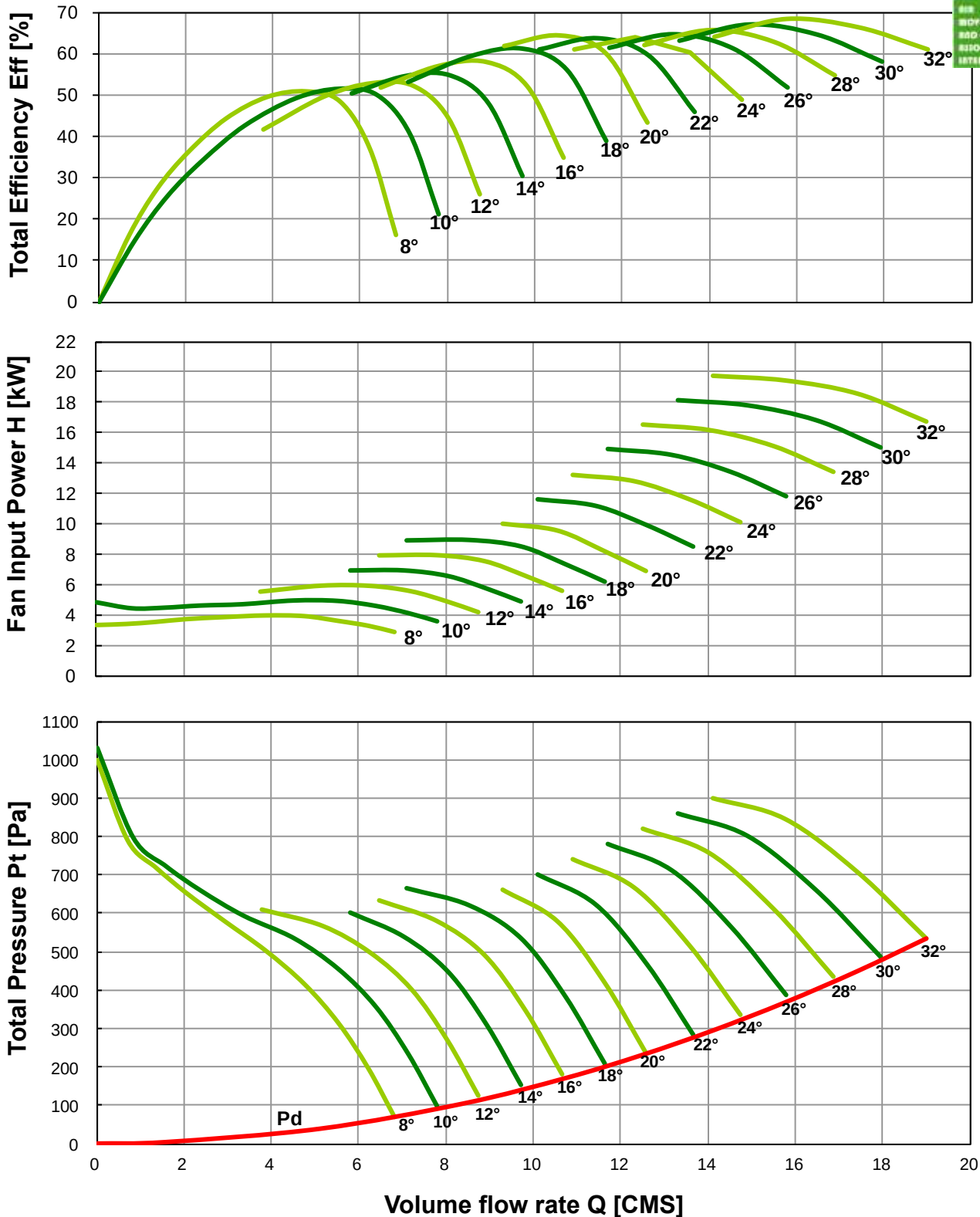
Axial Fan Driven Directly



TAD-900-300-12 (60 Hz) Performance Curves

FEG 71

Fan Speed $N = 1760$ [rpm] Outlet Area $A = 0.6362$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



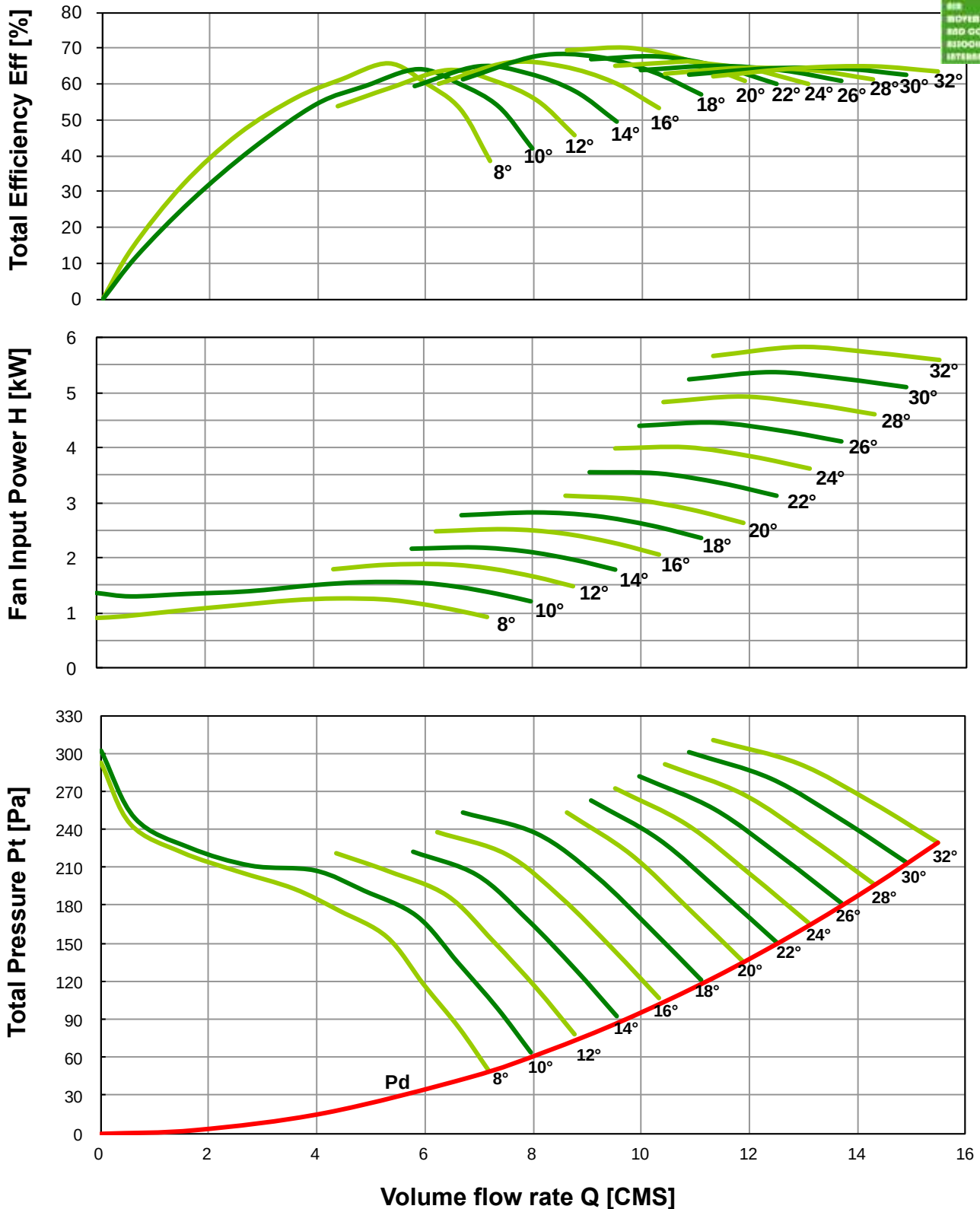
Axial Fan Driven Directly



TAD-1000-300-6 (60 Hz) Performance Curves

FEG 71

Fan Speed $N = 1170$ [rpm] Outlet Area $A = 0.7933$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



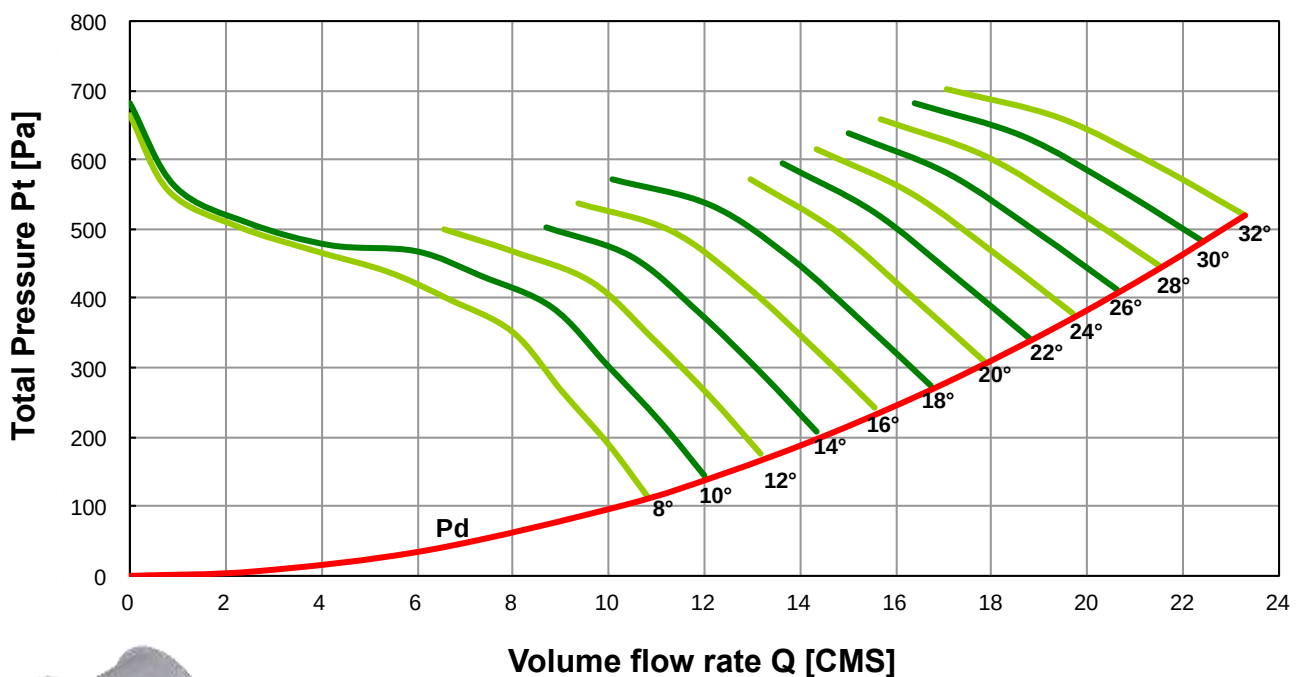
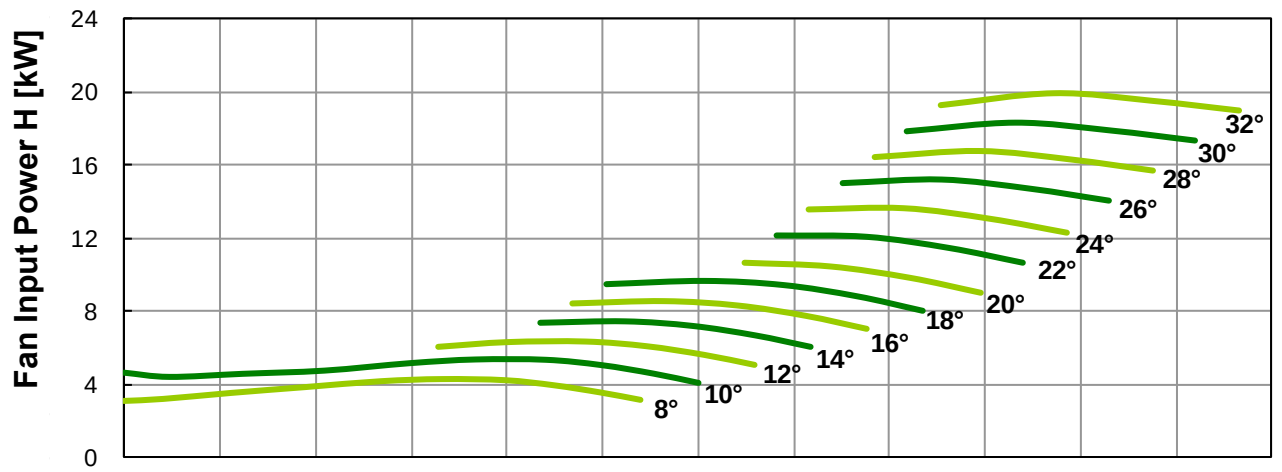
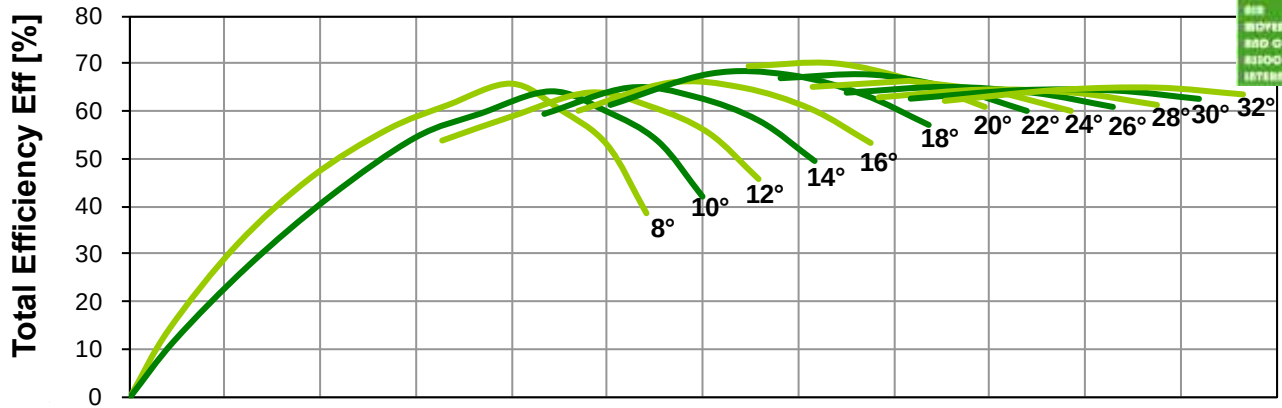
Axial Fan Driven Directly



TAD-1000-300-6 (60 Hz) Performance Curves

FEG 71

Fan Speed $N = 1760$ [rpm] Outlet Area $A = 0.7933$ [m²] $\rho = 1.2$ kg/m³



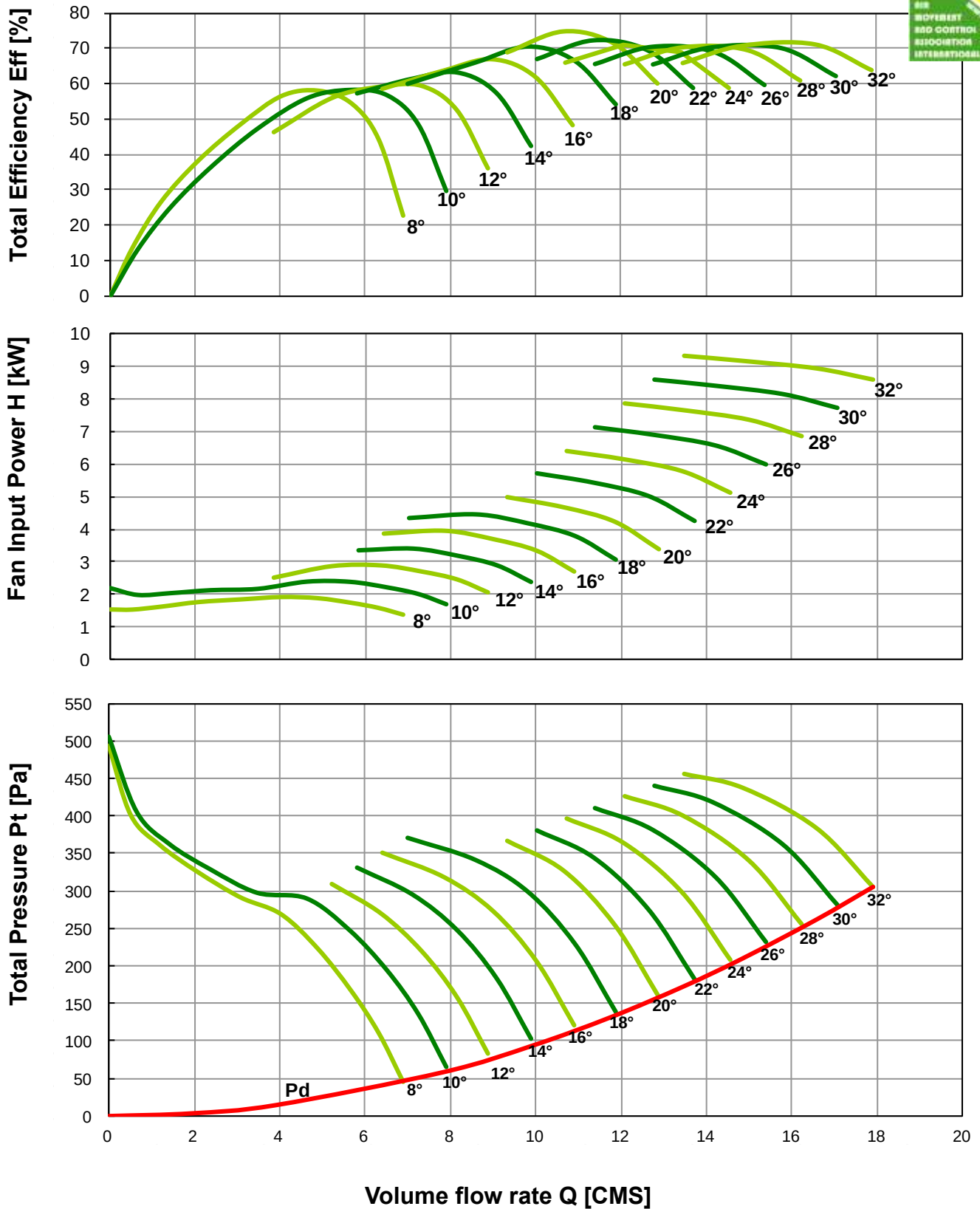
Performance is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



TAD-1000-300-12 (60 Hz) Performance Curves

FEG 75

Fan Speed $N = 1170$ [rpm] Outlet Area $A = 0.7933$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



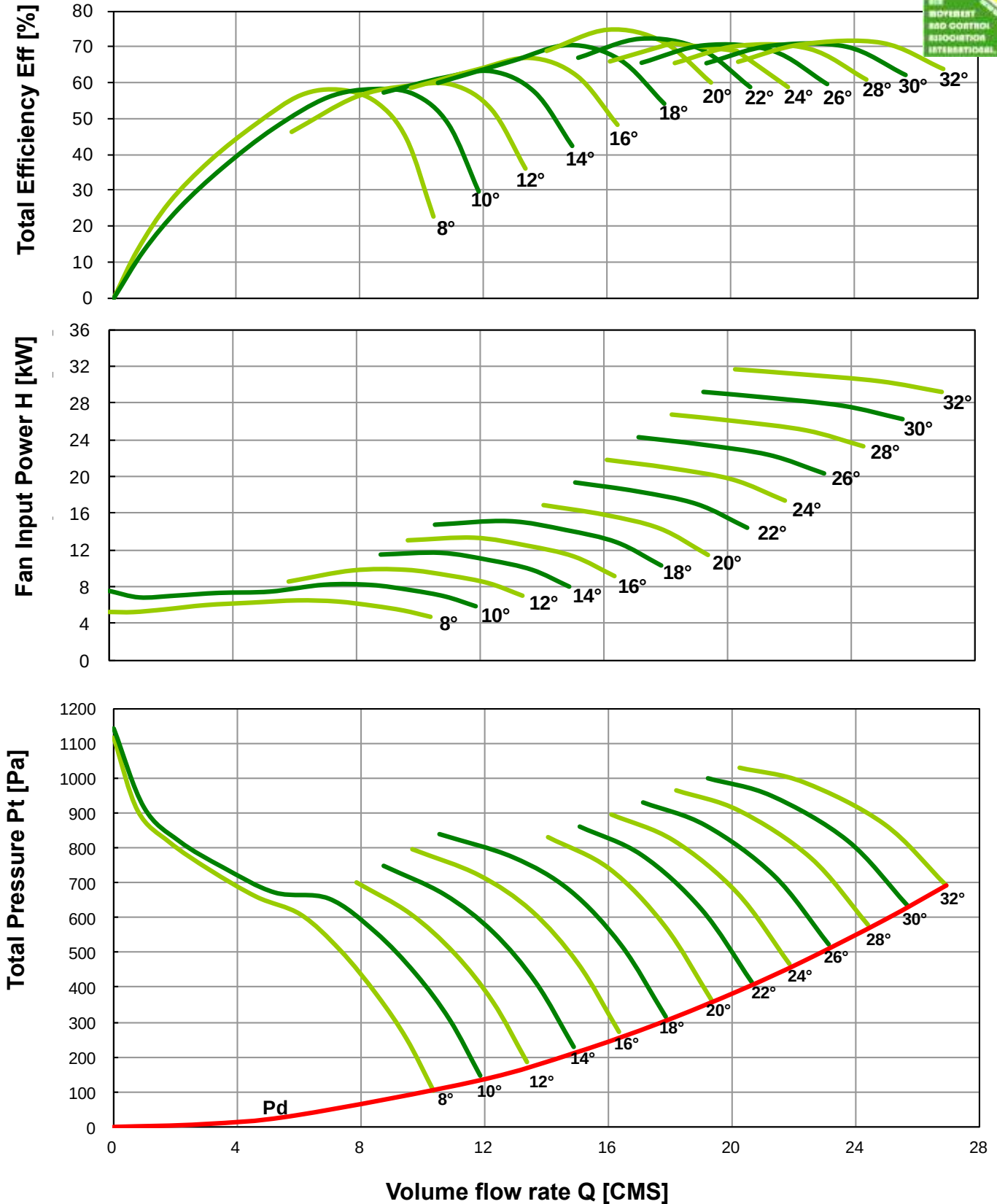
Axial Fan Driven Directly



TAD-1000-300-12 (60 Hz) Performance Curves

FEG 75

Fan Speed $N = 1760$ [rpm] Outlet Area $A = 0.7933$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories) (accessories certified is for



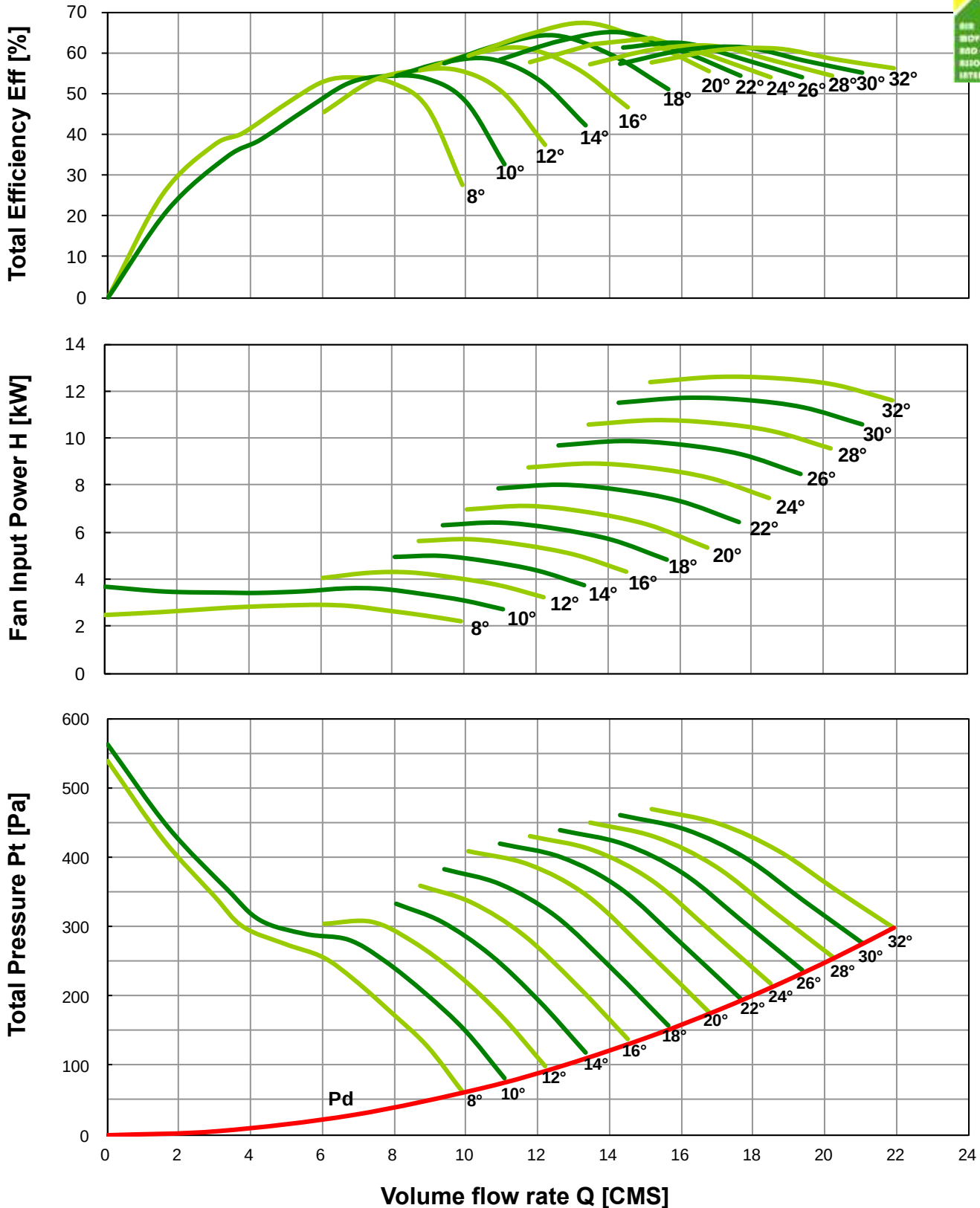
Axial Fan Driven Directly



TAD-1120-388-5 (60 Hz) Performance Curves

FEG 71

Fan Speed $N = 1170$ [rpm] Outlet Area $A = 0.987$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



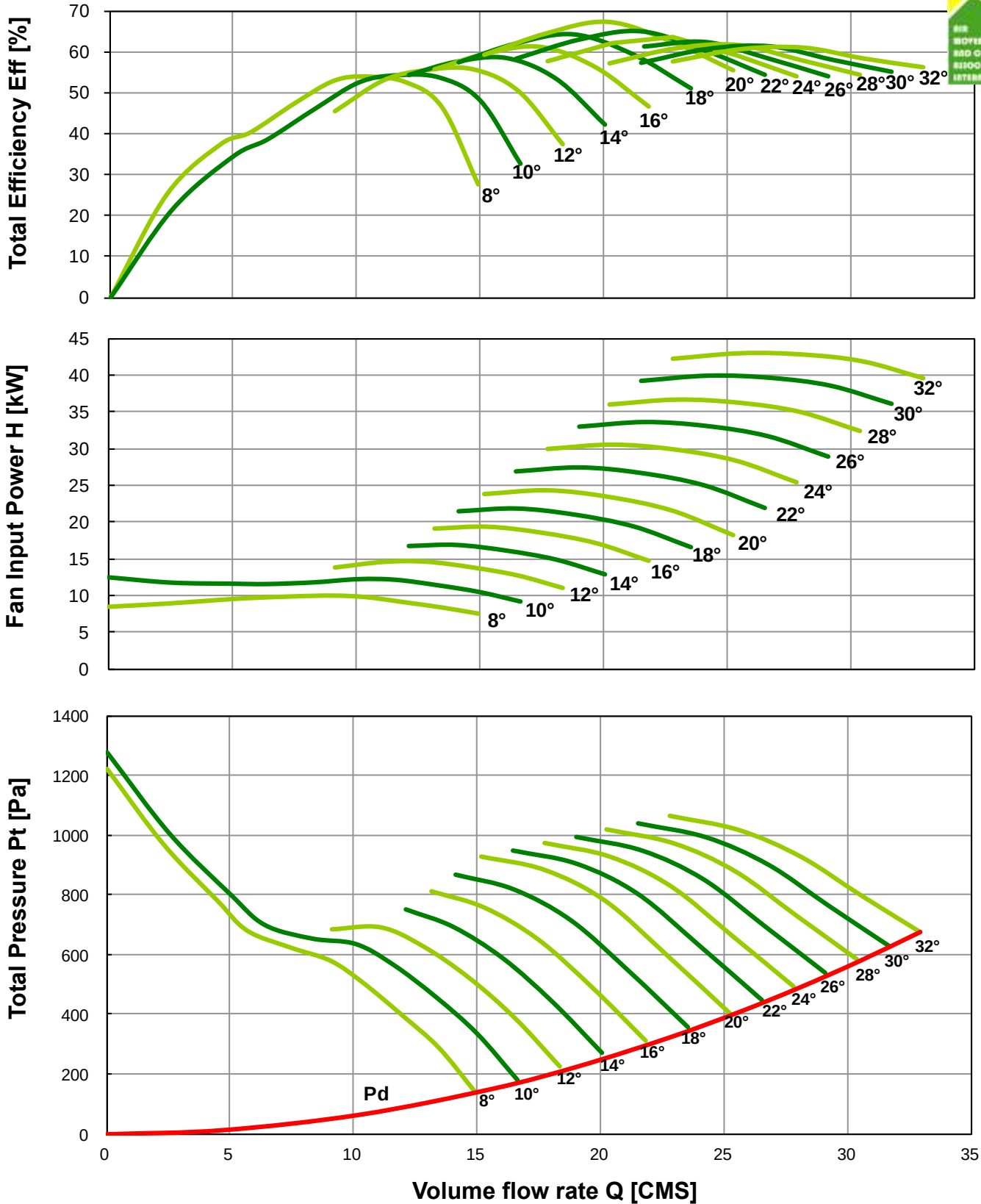
Axial Fan Driven Directly



TAD-1120-388-5 (60 Hz) Performance Curves

FEG 71

Fan Speed $N = 1760$ [rpm] Outlet Area $A = 0.987$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories)

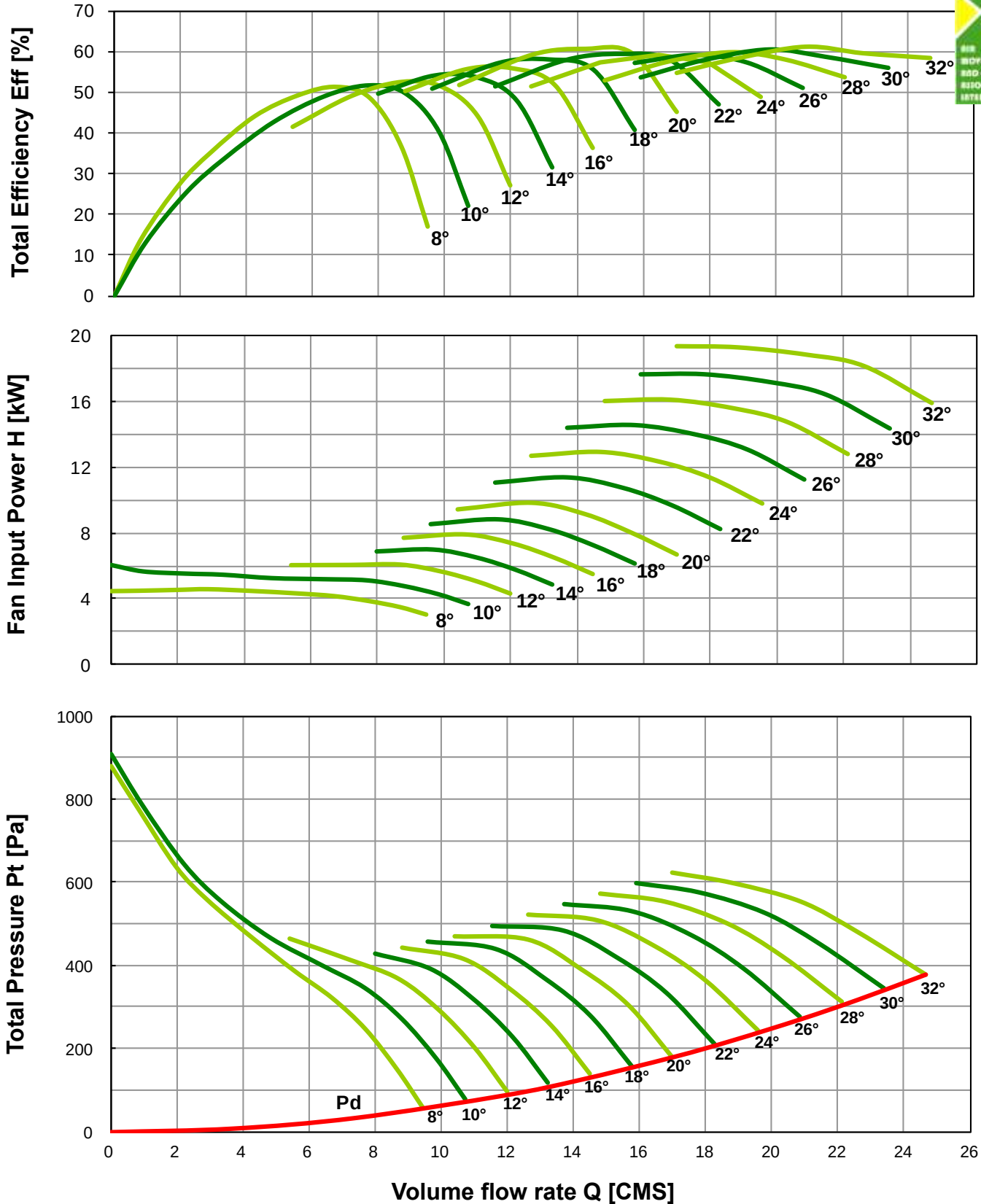


Axial Fan Driven Directly

TAD-1120-388-10 (60 Hz) Performance Curves

FEG 63

Fan Speed $N = 1170$ [rpm] Outlet Area $A = 0.987$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



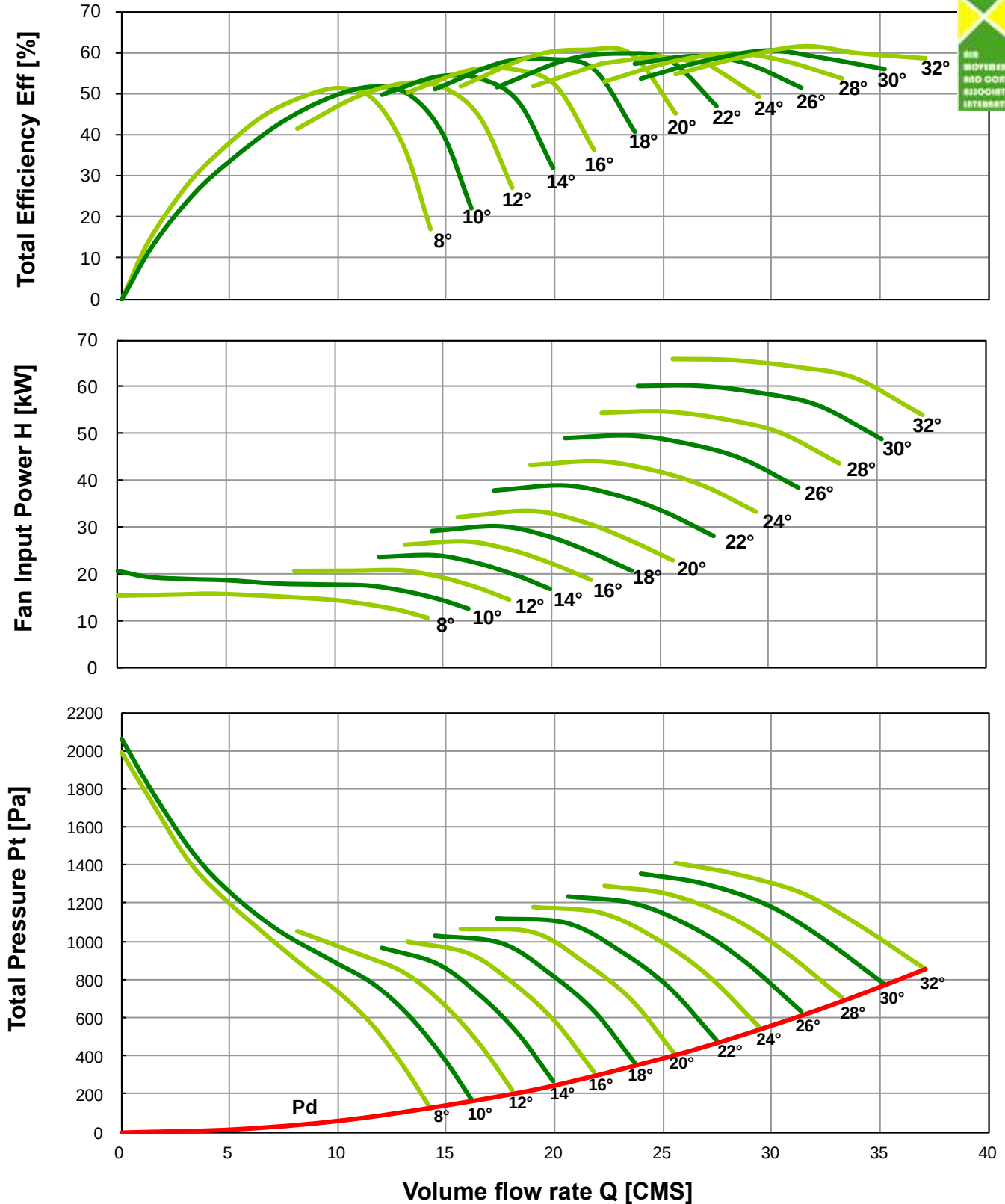
Axial Fan Driven Directly



TAD-1120-388-10 (60 Hz) Performance Curves

FEG 63

Fan Speed $N = 1760$ [rpm] Outlet Area $A = 0.987$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



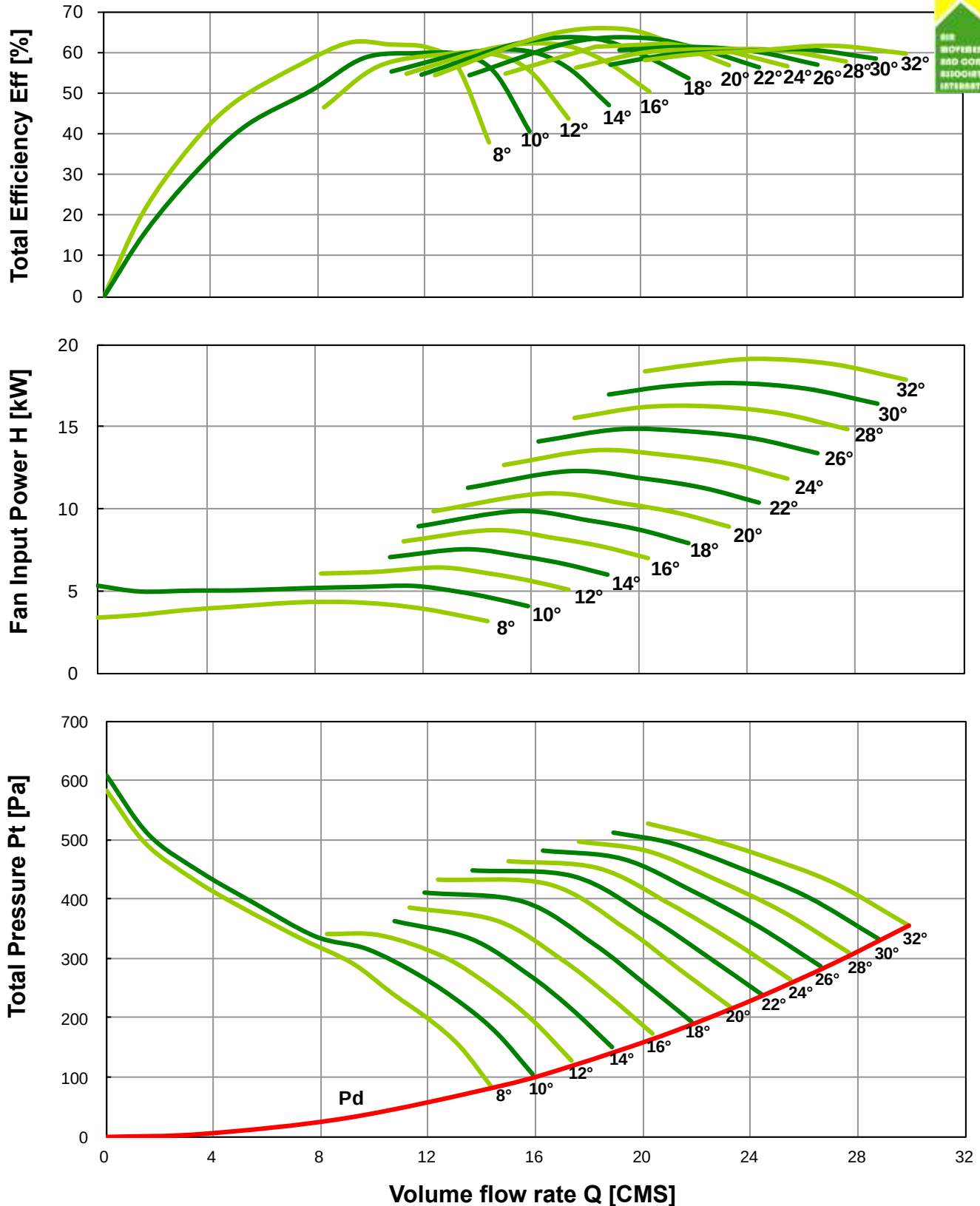
Axial Fan Driven Directly



TAD-1250-388-5 (60 Hz) Performance Curves

FEG 67

Fan Speed $N = 1170$ [rpm] Outlet Area $A = 1.2272$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



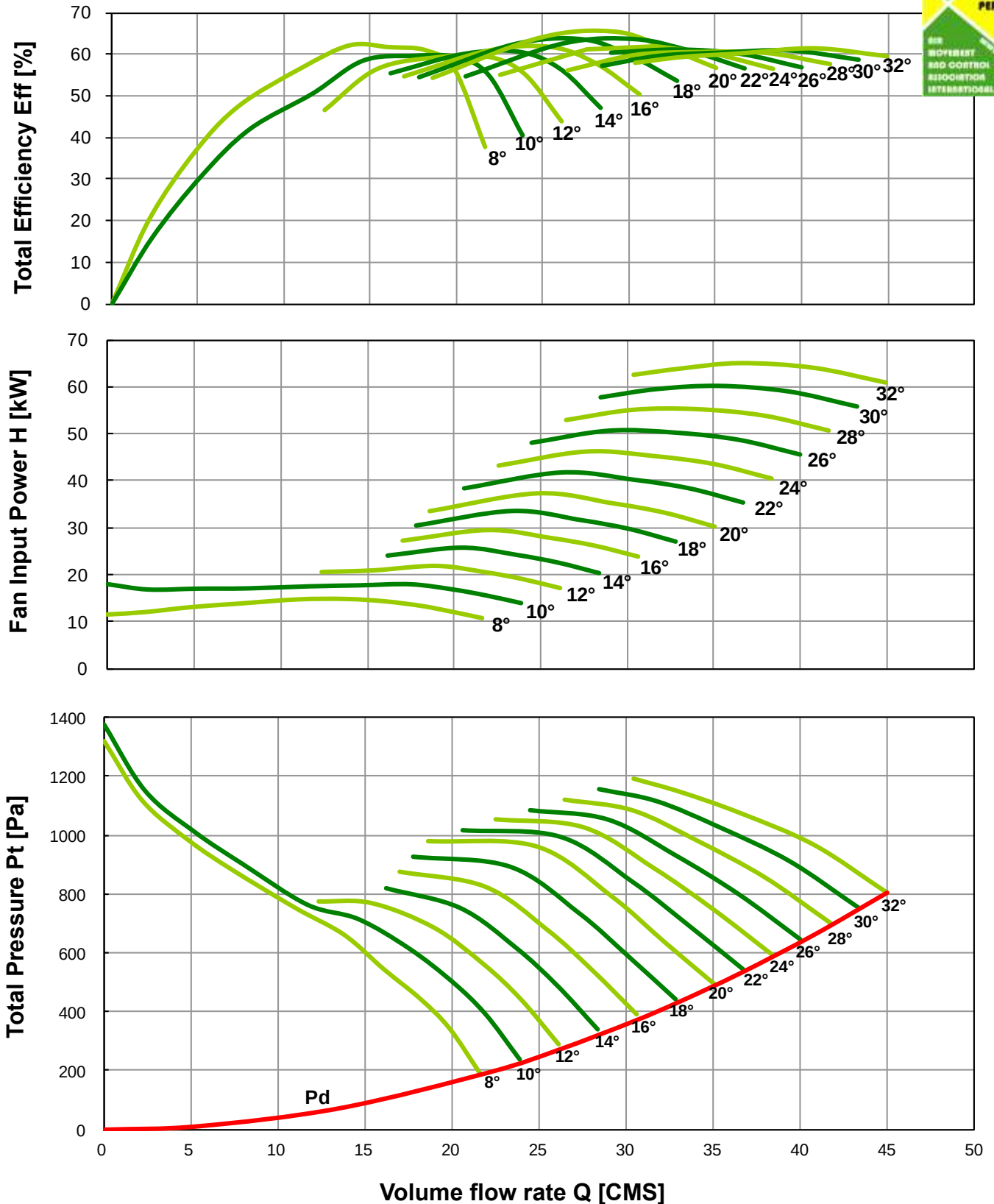
Axial Fan Driven Directly



TAD-1250-388-5 (60 Hz) Performance Curves

FEG 67

Fan Speed $N = 1760$ [rpm] Outlet Area $A = 1.2272$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



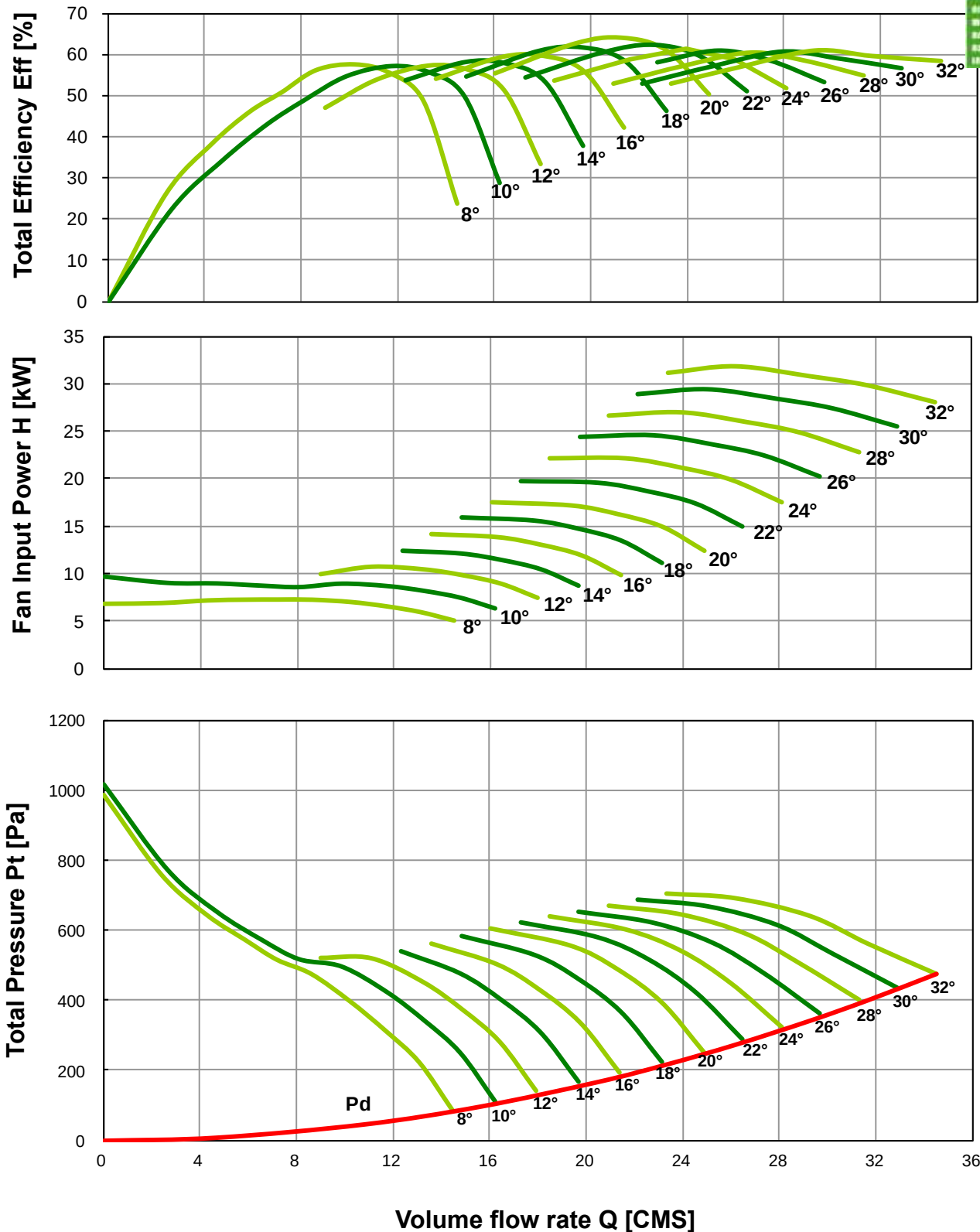
Axial Fan Driven Directly



TAD-1250-388-10 (60 Hz) Performance Curves

FEG 67

Fan Speed $N = 1170$ [rpm] Outlet Area $A = 1.2272$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

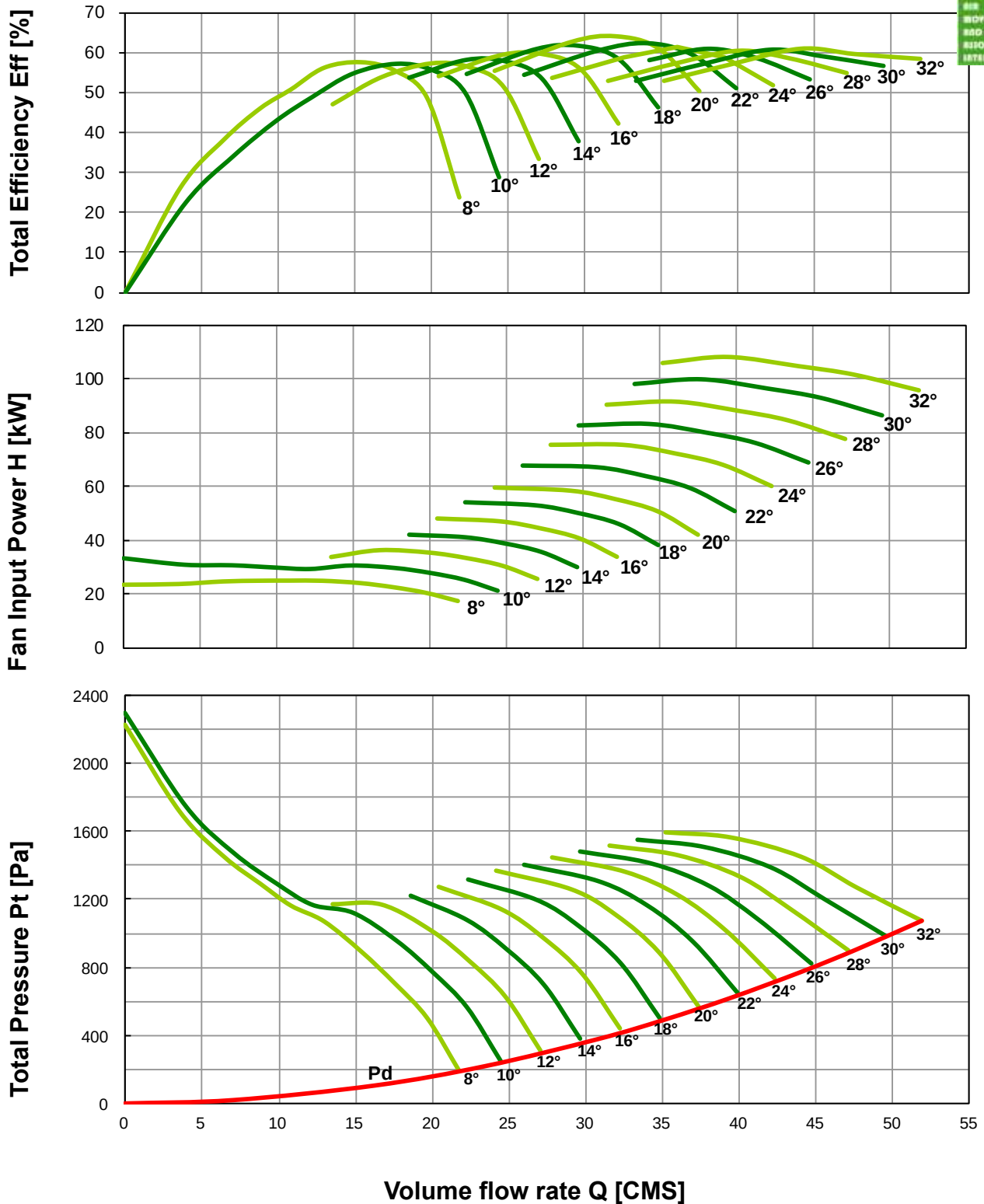


Axial Fan Driven Directly

TAD-1250-388-10 (60 Hz) Performance Curves

FEG 67

Fan Speed $N = 1760$ [rpm] Outlet Area $A = 1.2272$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type B : free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

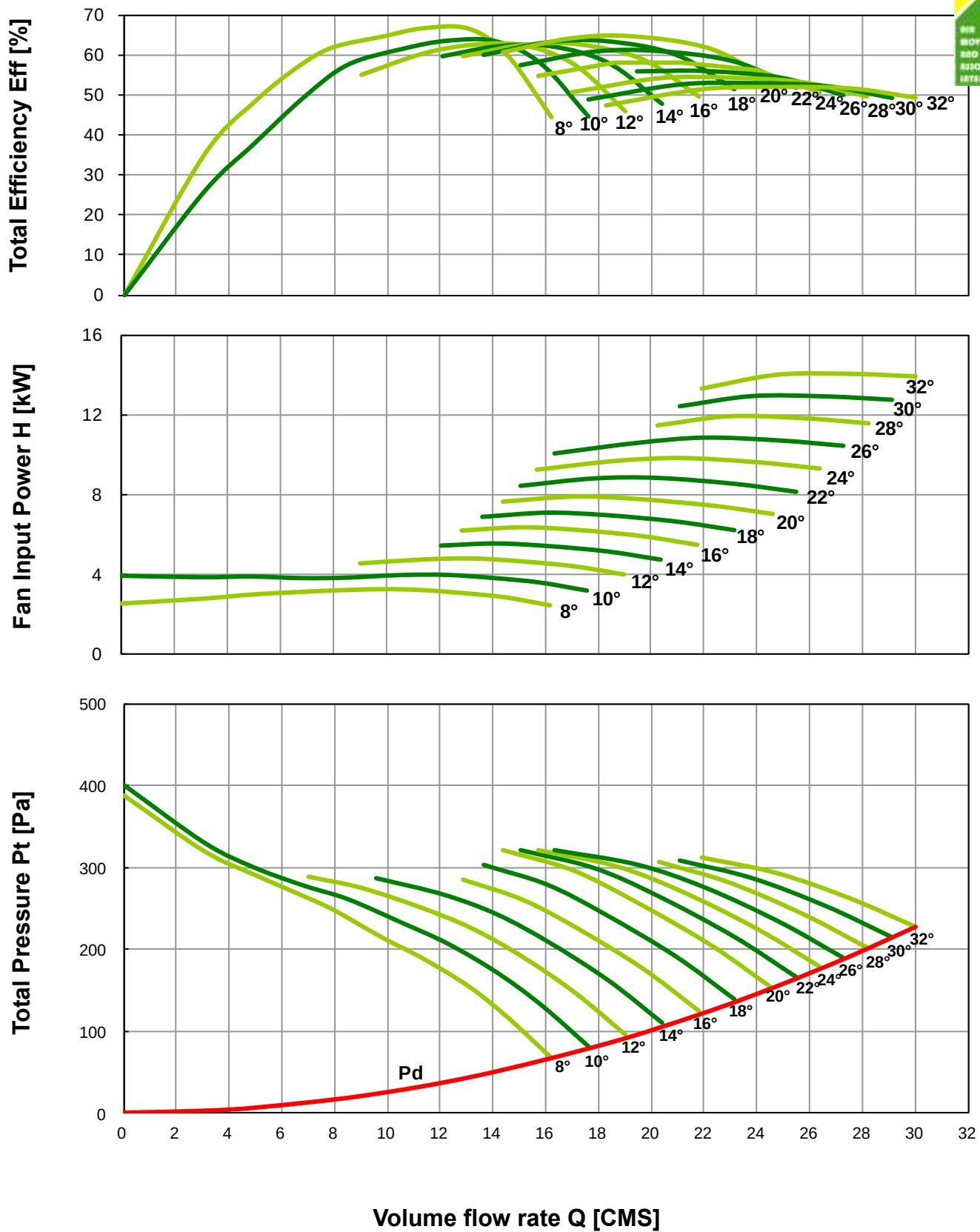


Axial Fan Driven Directly

TAD-1400-388-5 (60 Hz) Performance Curves

FEG 71

Fan Speed $N = 880$ [rpm] Outlet Area $A = 1.539$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type A : free inlet, free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories).

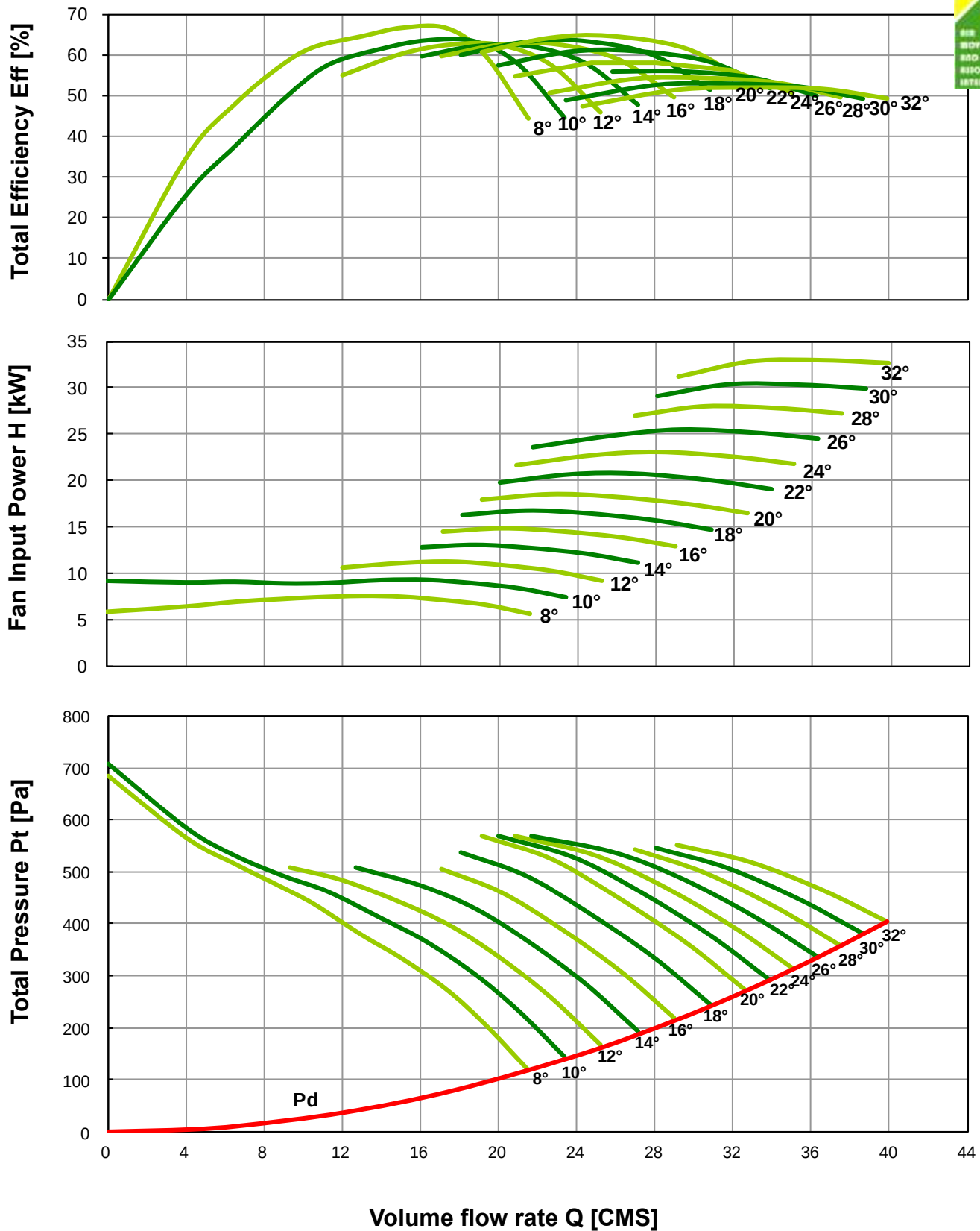


Axial Fan Driven Directly

TAD-1400-388-5 (60 Hz) Performance Curves

FEG 71

Fan Speed $N = 1170$ [rpm] Outlet Area $A = 1.539$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type A : free inlet, free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories).

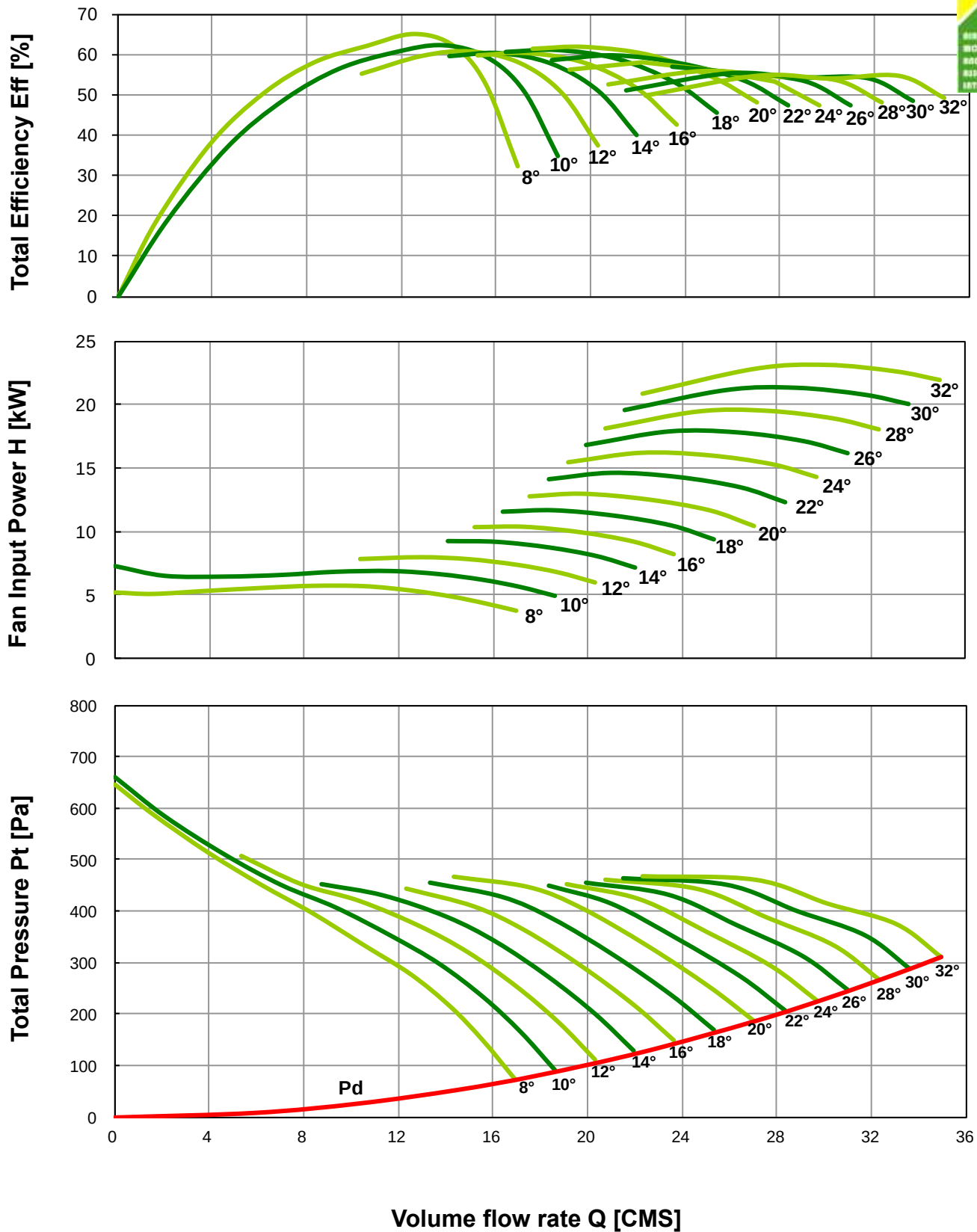


Axial Fan Driven Directly

TAD-1400-388-10 (60 Hz) Performance Curves

FEG 67

Fan Speed $N = 880$ [rpm] Outlet Area $A = 1.539$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type A : free inlet, free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories).

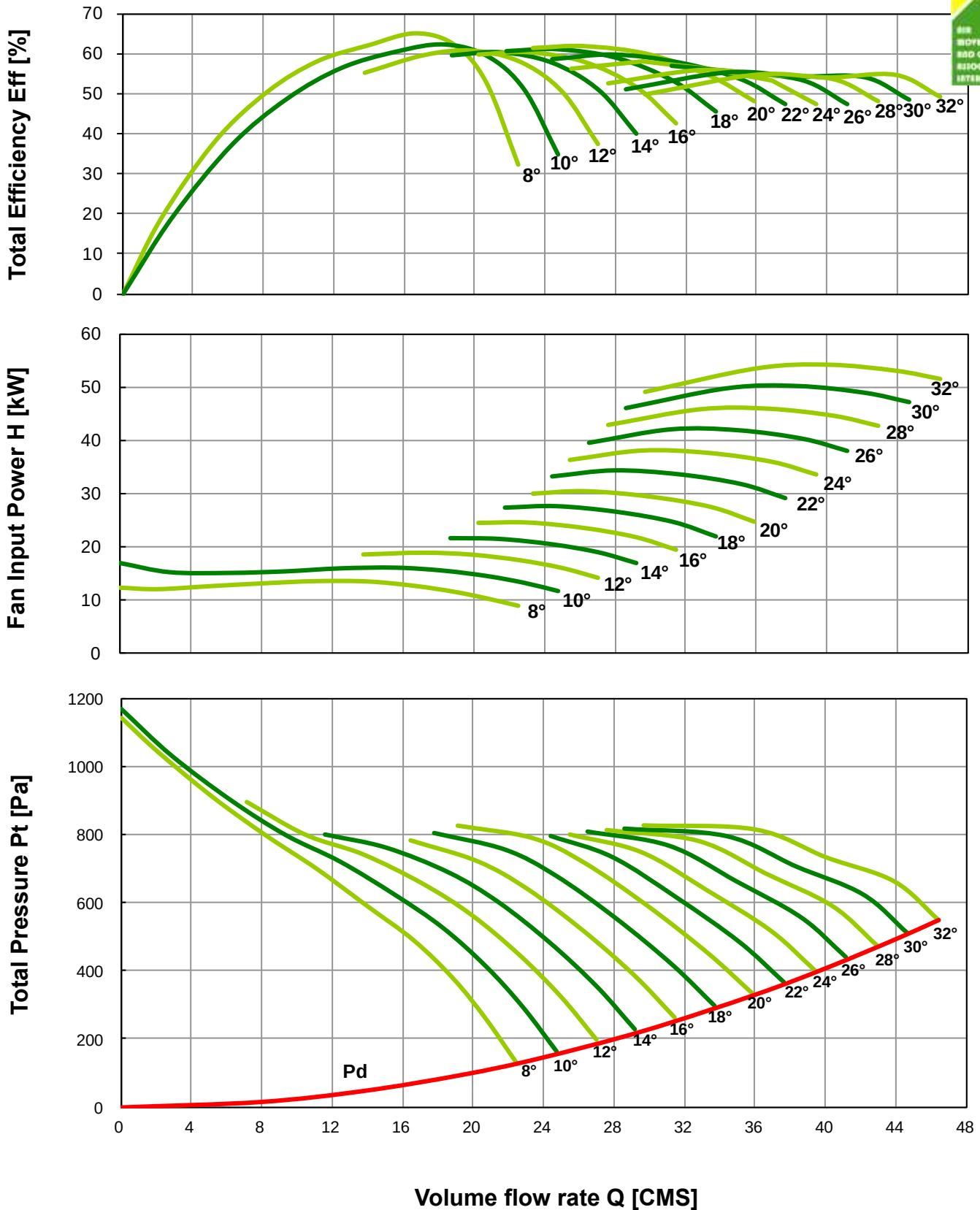


Axial Fan Driven Directly

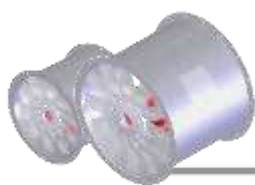
TAD-1400-388-10 (60 Hz) Performance Curves

FEG 67

Fan Speed $N = 1170$ [rpm] Outlet Area $A = 1.539$ [m²] $\rho = 1.2$ kg/m³



Performance certified is for installation type A : free inlet, free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories).



Axial Fan Driven Directly



TAD-560-200-5 60Hz Sound Data 風機聲功率數值[dB]



型號 Model No.	轉速 N	靜壓 Ps	風機聲功率(以 10 ⁻¹² 為基準) Sound Power re 10 ⁻¹² Watts 八音階頻帶 Octave Band [Hz]								入口處 A 加權聲功率位準 L _{WA} [dBA]
			63	125	250	500	1000	2000	4000	8000	
TAD-560-200-5/8°	3520	0	93	94	102	95	96	95	99	96	104
TAD-560-200-5/8°	3520	471	94	95	101	94	95	97	100	97	105
TAD-560-200-5/8°	3520	643	95	96	106	102	99	96	99	97	106
TAD-560-200-5/8°	3520	778	95	97	109	101	97	95	99	97	106
TAD-560-200-5/20°	3520	45	90	92	107	99	99	96	97	95	105
TAD-560-200-5/20°	3520	235	91	93	106	99	98	95	97	95	105
TAD-560-200-5/20°	3520	480	91	93	106	99	98	95	97	95	105
TAD-560-200-5/20°	3520	824	90	92	106	102	104	102	100	97	109
TAD-560-200-5/32°	3520	91	92	94	110	103	101	100	98	95	108
TAD-560-200-5/32°	3520	552	91	93	109	102	100	98	98	96	107
TAD-560-200-5/32°	3520	806	91	93	108	100	98	98	98	96	106
TAD-560-200-5/32°	3520	978	91	93	107	101	99	98	99	96	106
TAD-560-200-5/8°	1760	0	79	87	80	81	80	84	81	70	88
TAD-560-200-5/8°	1760	118	80	85	79	80	82	85	82	72	89
TAD-560-200-5/8°	1760	161	81	91	87	84	80	84	82	71	89
TAD-560-200-5/8°	1760	195	82	94	86	82	80	84	81	72	89
TAD-560-200-5/20°	1760	11	77	92	84	83	81	82	80	73	88
TAD-560-200-5/20°	1760	59	78	91	84	83	80	82	80	73	88
TAD-560-200-5/20°	1760	120	78	91	84	83	80	82	80	73	88
TAD-560-200-5/20°	1760	206	77	91	87	89	87	85	82	75	92
TAD-560-200-5/32°	1760	23	79	95	88	86	84	83	80	76	90
TAD-560-200-5/32°	1760	138	78	92	87	85	83	83	81	76	90
TAD-560-200-5/32°	1760	201	78	93	85	83	83	83	81	77	89
TAD-560-200-5/32°	1760	244	78	92	86	84	83	84	81	77	90
TAD-560-200-5/8°	1170	0	76	75	74	71	74	75	66	57	79
TAD-560-200-5/8°	1170	52	75	75	72	71	75	76	67	57	80
TAD-560-200-5/8°	1170	71	82	78	76	72	73	75	66	58	79
TAD-560-200-5/8°	1170	86	86	78	75	72	73	75	66	59	79
TAD-560-200-5/20°	1170	5	81	80	76	73	73	73	66	59	78
TAD-560-200-5/20°	1170	26	81	79	76	72	73	73	66	59	78
TAD-560-200-5/20°	1170	53	81	79	75	72	73	74	66	60	79
TAD-560-200-5/20°	1170	91	81	79	81	79	76	75	68	62	82
TAD-560-200-5/32°	1170	10	83	84	80	76	75	73	68	64	80
TAD-560-200-5/32°	1170	61	82	84	79	75	74	73	69	65	80
TAD-560-200-5/32°	1170	89	82	80	77	74	74	73	69	65	79
TAD-560-200-5/32°	1170	108	81	81	78	75	75	74	70	66	80

The sound power level ratings shown are in decibels referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound power ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{WA} and inlet L_{WA} sound power levels for Installation Type B : free inlet, ducted outlet.



Axial Fan Driven Directly

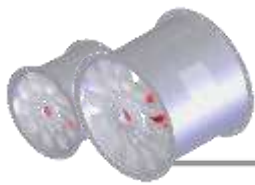


TAD-560-200-10 60Hz Sound Data 風機聲功率數值[dB]

型號 Model No.	轉速 N	靜壓 Ps	風機聲功率(以 10^{-12} 為基準) Sound Power re 10^{-12} Watts 八音階頻帶 Octave Band [Hz]								入口處 A 加權聲功率位準 L_{wA} [dBA]
			63	125	250	500	1000	2000	4000	8000	
TAD-560-200-10/8°	3520	0	95	95	98	102	98	99	98	96	106
TAD-560-200-10/8°	3520	453	95	96	98	102	97	100	101	97	107
TAD-560-200-10/8°	3520	833	95	96	100	103	102	100	98	95	107
TAD-560-200-10/8°	3520	1267	94	96	102	105	100	98	97	95	106
TAD-560-200-10/20°	3520	91	89	91	99	107	100	98	98	96	107
TAD-560-200-10/20°	3520	444	89	91	99	106	100	98	98	96	107
TAD-560-200-10/20°	3520	751	91	92	99	105	99	97	97	95	106
TAD-560-200-10/20°	3520	1113	92	93	100	105	106	102	100	97	110
TAD-560-200-10/32°	3520	91	93	94	104	107	102	101	100	97	109
TAD-560-200-10/32°	3520	480	94	96	104	107	103	100	99	96	109
TAD-560-200-10/32°	3520	1050	93	94	103	106	101	99	98	96	107
TAD-560-200-10/32°	3520	1231	93	94	102	105	101	99	98	96	107
TAD-560-200-10/8°	1760	0	80	83	87	83	84	83	81	73	89
TAD-560-200-10/8°	1760	113	81	83	87	82	85	86	82	74	91
TAD-560-200-10/8°	1760	208	81	85	88	87	85	83	80	71	90
TAD-560-200-10/8°	1760	317	80	87	89	85	83	82	80	73	89
TAD-560-200-10/20°	1760	23	76	85	92	86	84	83	81	75	90
TAD-560-200-10/20°	1760	111	76	84	92	84	83	83	81	75	90
TAD-560-200-10/20°	1760	188	77	84	90	84	82	82	80	75	89
TAD-560-200-10/20°	1760	278	78	85	90	91	87	85	82	76	93
TAD-560-200-10/32°	1760	23	79	89	92	87	86	85	82	77	92
TAD-560-200-10/32°	1760	120	81	89	92	88	85	84	81	76	91
TAD-560-200-10/32°	1760	262	79	88	92	86	84	83	81	77	91
TAD-560-200-10/32°	1760	308	79	87	91	85	84	83	81	77	90
TAD-560-200-10/8°	1170	0	75	73	78	75	75	74	68	60	80
TAD-560-200-10/8°	1170	50	76	71	78	75	77	75	68	60	81
TAD-560-200-10/8°	1170	92	76	79	78	78	75	73	66	58	80
TAD-560-200-10/8°	1170	140	77	79	79	75	73	73	67	60	79
TAD-560-200-10/20°	1170	10	76	77	83	76	75	73	69	61	81
TAD-560-200-10/20°	1170	49	75	75	83	76	74	73	69	61	80
TAD-560-200-10/20°	1170	83	75	74	80	75	73	73	69	62	79
TAD-560-200-10/20°	1170	123	76	75	82	82	77	74	70	62	83
TAD-560-200-10/32°	1170	10	80	78	83	78	77	74	70	64	82
TAD-560-200-10/32°	1170	53	80	78	83	78	76	74	69	64	82
TAD-560-200-10/32°	1170	116	79	76	81	77	75	73	69	66	81
TAD-560-200-10/32°	1170	136	79	76	80	77	75	73	70	66	80



The sound power level ratings shown are in decibels referred to 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound power ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{wI} and inlet L_{wA} sound power levels for Installation Type B : free inlet, ducted outlet.



Axial Fan Driven Directly

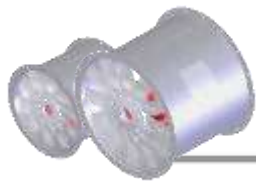


TAD-630-200-5 60Hz Sound Data 風機聲功率數值[dB]



型號 Model No.	轉速 N	靜壓 Ps	風機聲功率(以 10 ⁻¹² 為基準) Sound Power re 10 ⁻¹² Watts 八音階頻帶 Octave Band [Hz]								入口處 A 加權聲功率位準 L _{WA} [dBA]
			63	125	250	500	1000	2000	4000	8000	
TAD-630-200-5/8°	3520	45	101	102	105	102	100	98	96	96	106
TAD-630-200-5/8°	3520	525	103	104	106	98	100	100	100	97	107
TAD-630-200-5/8°	3520	787	103	105	109	107	102	98	96	95	108
TAD-630-200-5/8°	3520	941	104	105	110	105	100	97	96	95	107
TAD-630-200-5/20°	3520	91	102	103	110	106	103	100	98	97	109
TAD-630-200-5/20°	3520	516	103	104	110	104	102	99	97	96	108
TAD-630-200-5/20°	3520	733	104	105	110	103	101	99	96	96	107
TAD-630-200-5/20°	3520	932	105	106	110	102	103	102	99	97	109
TAD-630-200-5/32°	3520	0	105	106	111	109	107	105	101	98	112
TAD-630-200-5/32°	3520	579	104	105	111	107	105	103	100	98	111
TAD-630-200-5/32°	3520	806	104	105	110	105	103	102	100	98	109
TAD-630-200-5/32°	3520	1014	104	105	110	106	104	102	100	98	110
TAD-630-200-5/8°	1760	11	87	90	87	85	83	81	81	77	89
TAD-630-200-5/8°	1760	131	88	91	83	85	85	85	82	77	91
TAD-630-200-5/8°	1760	197	89	94	92	87	83	81	80	77	90
TAD-630-200-5/8°	1760	235	90	95	90	85	82	81	80	77	89
TAD-630-200-5/20°	1760	23	88	95	91	88	85	83	81	78	91
TAD-630-200-5/20°	1760	129	89	95	89	87	84	82	81	78	90
TAD-630-200-5/20°	1760	183	90	95	88	86	84	81	81	78	90
TAD-630-200-5/20°	1760	233	91	95	87	88	87	84	82	80	92
TAD-630-200-5/32°	1760	0	91	96	94	92	90	85	82	80	95
TAD-630-200-5/32°	1760	145	90	97	92	90	88	85	83	81	93
TAD-630-200-5/32°	1760	201	90	97	90	88	87	85	83	81	93
TAD-630-200-5/32°	1760	253	90	95	91	88	87	85	83	81	93
TAD-630-200-5/8°	1170	5	82	78	79	75	73	73	71	62	80
TAD-630-200-5/8°	1170	58	84	77	76	76	77	75	70	63	81
TAD-630-200-5/8°	1170	87	86	84	80	75	73	72	70	63	80
TAD-630-200-5/8°	1170	104	88	81	79	75	72	72	70	64	79
TAD-630-200-5/20°	1170	10	85	84	82	78	75	73	71	64	81
TAD-630-200-5/20°	1170	57	86	84	80	77	73	73	70	65	80
TAD-630-200-5/20°	1170	81	86	81	79	76	73	73	71	65	80
TAD-630-200-5/20°	1170	103	87	81	79	80	76	74	72	67	82
TAD-630-200-5/32°	1170	0	87	85	85	82	78	75	72	68	84
TAD-630-200-5/32°	1170	64	86	86	83	80	77	75	73	69	83
TAD-630-200-5/32°	1170	89	86	83	81	79	76	75	73	70	82
TAD-630-200-5/32°	1170	112	86	83	82	79	77	75	73	70	83

The sound power level ratings shown are in decibels referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound power ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{WA} and inlet L_{WA} sound power levels for Installation Type B : free inlet, ducted out.



Axial Fan Driven Directly

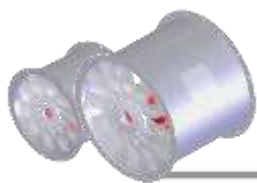


TAD-630-200-10 60Hz Sound Data 風機聲功率數值[dB]



型號 Model No.	轉速 N	靜壓 Ps	風機聲功率(以 10 ⁻¹² 為基準) Sound Power re 10 ⁻¹² Watts 八音階頻帶 Octave Band [Hz]								入口處 A 加權聲功率位準 L _{WA} [dBA]
			63	125	250	500	1000	2000	4000	8000	
TAD-630-200-10/8°	3520	0	92	93	96	107	102	102	100	99	109
TAD-630-200-10/8°	3520	932	93	94	97	106	103	105	103	99	111
TAD-630-200-10/8°	3520	1222	95	95	99	109	104	102	99	97	110
TAD-630-200-10/8°	3520	1566	95	96	102	109	102	100	98	97	109
TAD-630-200-10/20°	3520	72	100	100	104	111	106	104	101	99	112
TAD-630-200-10/20°	3520	407	99	99	102	111	105	102	100	98	111
TAD-630-200-10/20°	3520	797	98	99	102	109	104	102	99	98	110
TAD-630-200-10/20°	3520	1303	97	98	102	109	109	106	103	100	113
TAD-630-200-10/32°	3520	0	104	105	109	113	110	107	104	100	115
TAD-630-200-10/32°	3520	824	103	103	107	112	108	106	102	99	113
TAD-630-200-10/32°	3520	1104	102	103	106	112	107	105	102	99	113
TAD-630-200-10/32°	3520	1394	101	102	105	111	106	104	102	99	112
TAD-630-200-10/8°	1760	0	78	81	92	87	87	85	84	79	92
TAD-630-200-10/8°	1760	233	78	81	91	88	90	88	84	78	94
TAD-630-200-10/8°	1760	305	80	84	94	89	86	84	82	78	92
TAD-630-200-10/8°	1760	391	81	87	94	87	85	83	82	79	92
TAD-630-200-10/20°	1760	18	85	88	96	91	89	86	84	80	95
TAD-630-200-10/20°	1760	102	84	87	96	90	87	85	83	80	94
TAD-630-200-10/20°	1760	199	84	87	95	89	87	84	83	80	93
TAD-630-200-10/20°	1760	326	83	87	94	93	91	88	85	81	96
TAD-630-200-10/32°	1760	23	90	94	98	95	92	89	85	81	97
TAD-630-200-10/32°	1760	120	88	92	97	93	91	87	84	81	96
TAD-630-200-10/32°	1760	262	88	91	97	92	90	86	84	82	95
TAD-630-200-10/32°	1760	308	87	90	95	91	89	86	84	82	94
TAD-630-200-10/8°	1170	0	73	77	82	79	77	76	73	64	83
TAD-630-200-10/8°	1170	103	74	74	84	80	80	77	72	64	84
TAD-630-200-10/8°	1170	135	75	85	82	78	76	74	71	63	82
TAD-630-200-10/8°	1170	173	77	84	83	77	75	74	72	66	82
TAD-630-200-10/20°	1170	8	80	82	87	82	78	76	74	66	85
TAD-630-200-10/20°	1170	45	79	81	86	81	77	75	73	66	84
TAD-630-200-10/20°	1170	88	79	80	84	80	76	74	73	66	83
TAD-630-200-10/20°	1170	144	79	79	85	85	81	77	74	67	86
TAD-630-200-10/32°	1170	0	86	85	89	85	81	77	74	69	87
TAD-630-200-10/32°	1170	91	84	83	87	84	80	76	74	70	86
TAD-630-200-10/32°	1170	122	83	83	87	83	79	76	74	70	85
TAD-630-200-10/32°	1170	154	82	82	85	82	79	76	74	71	85

The sound power level ratings shown are in decibels referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound power ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{WA} and inlet L_{WA} sound power levels for Installation Type B : free inlet, ducted out.



Axial Fan Driven Directly

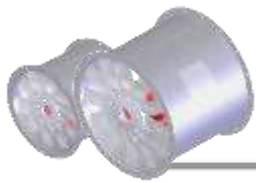


TAD-710-200-5 60Hz Sound Data 風機聲功率數值[dB]



型號 Model No.	轉速 N	靜壓 Ps	風機聲功率(以 10^{-12} 為基準) Sound Power re 10^{-12} Watts 八音階頻帶 Octave Band [Hz]								入口處 A 加權聲功率位準 L _{WA} [dBA]
			63	125	250	500	1000	2000	4000	8000	
TAD-710-200-5/8°	3520	72	100	100	106	104	104	101	100	100	109
TAD-710-200-5/8°	3520	389	102	102	106	102	101	101	103	101	109
TAD-710-200-5/8°	3520	742	105	105	104	101	110	104	102	99	112
TAD-710-200-5/8°	3520	996	111	111	111	108	102	100	99	98	110
TAD-710-200-5/20°	3520	0	109	109	113	110	108	104	102	99	113
TAD-710-200-5/20°	3520	525	109	109	113	108	106	103	101	99	112
TAD-710-200-5/20°	3520	797	111	111	111	107	105	103	101	100	111
TAD-710-200-5/20°	3520	987	111	111	111	106	109	108	104	102	114
TAD-710-200-5/32°	3520	0	116	115	116	113	110	108	104	102	116
TAD-710-200-5/32°	3520	597	115	115	116	111	109	107	104	103	115
TAD-710-200-5/32°	3520	833	115	115	114	111	108	106	105	103	114
TAD-710-200-5/32°	3520	1005	114	114	114	112	110	109	106	103	116
TAD-710-200-5/8°	1760	18	88	91	90	87	85	85	84	75	92
TAD-710-200-5/8°	1760	97	97	94	90	86	84	84	80	75	91
TAD-710-200-5/8°	1760	186	97	94	90	86	84	84	80	75	91
TAD-710-200-5/8°	1760	249	97	94	90	86	84	84	80	75	91
TAD-710-200-5/20°	1760	0	94	98	95	93	89	87	84	81	95
TAD-710-200-5/20°	1760	131	94	98	93	91	88	86	84	80	94
TAD-710-200-5/20°	1760	199	96	96	92	90	88	86	85	82	94
TAD-710-200-5/20°	1760	247	96	96	91	94	93	89	87	83	97
TAD-710-200-5/32°	1760	0	100	101	98	95	93	89	87	84	98
TAD-710-200-5/32°	1760	149	100	100	96	94	92	89	88	84	97
TAD-710-200-5/32°	1760	208	99	100	95	93	91	90	88	83	97
TAD-710-200-5/32°	1760	251	99	99	97	95	94	91	88	84	99
TAD-710-200-5/8°	1170	8	79	82	81	79	76	77	75	66	83
TAD-710-200-5/8°	1170	43	79	81	79	77	78	79	74	67	84
TAD-710-200-5/8°	1170	82	82	77	86	82	79	77	72	66	85
TAD-710-200-5/8°	1170	110	88	85	81	77	75	75	71	67	82
TAD-710-200-5/20°	1170	0	86	89	85	82	79	76	73	68	85
TAD-710-200-5/20°	1170	58	86	88	84	81	77	76	73	69	84
TAD-710-200-5/20°	1170	88	87	86	82	81	78	77	74	70	84
TAD-710-200-5/20°	1170	109	87	85	83	86	81	79	75	71	87
TAD-710-200-5/32°	1170	0	90	91	88	85	82	80	76	72	88
TAD-710-200-5/32°	1170	66	90	91	87	84	81	80	77	72	87
TAD-710-200-5/32°	1170	92	89	90	86	83	81	80	77	72	87
TAD-710-200-5/32°	1170	111	89	90	89	86	83	81	77	72	89

The sound power level ratings shown are in decibels referred to 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound power ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_W and inlet L_{WA} sound power lev Type B : free inlet, ducted out.



Axial Fan Driven Directly

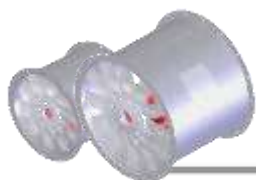


TAD-710-200-10 60Hz Sound Data 風機聲功率數值[dB]

型號 Model No.	轉速 N	靜壓 Ps	風機聲功率(以 10 ⁻¹² 為基準) Sound Power re 10 ⁻¹² Watts 八音階頻帶 Octave Band [Hz]								入口處 A 加權聲功率位準 L _{WA} [dBA]
			63	125	250	500	1000	2000	4000	8000	
TAD-710-200-10/8°	3520	72	100	100	98	108	105	104	103	103	111
TAD-710-200-10/8°	3520	905	99	99	97	106	107	109	106	102	114
TAD-710-200-10/8°	3520	1376	104	104	101	116	106	103	102	100	115
TAD-710-200-10/8°	3520	1774	106	106	104	111	105	104	103	101	112
TAD-710-200-10/20°	3520	0	112	112	107	116	111	108	105	102	117
TAD-710-200-10/20°	3520	525	109	109	104	116	108	106	104	102	115
TAD-710-200-10/20°	3520	797	108	108	104	113	109	107	106	103	115
TAD-710-200-10/20°	3520	987	113	113	112	117	115	110	107	103	119
TAD-710-200-10/32°	3520	0	115	115	111	117	114	110	107	103	119
TAD-710-200-10/32°	3520	615	114	114	110	117	113	110	106	103	118
TAD-710-200-10/32°	3520	1041	112	112	108	115	111	109	106	103	117
TAD-710-200-10/32°	3520	1512	113	113	115	115	112	110	108	105	118
TAD-710-200-10/8°	1760	18	85	83	93	90	89	88	88	84	95
TAD-710-200-10/8°	1760	226	84	82	93	92	94	91	87	81	98
TAD-710-200-10/8°	1760	344	89	86	101	91	88	87	85	80	96
TAD-710-200-10/8°	1760	444	91	89	96	90	89	88	86	82	95
TAD-710-200-10/20°	1760	84	97	92	101	96	93	90	87	85	99
TAD-710-200-10/20°	1760	83	94	89	98	93	91	89	87	84	97
TAD-710-200-10/20°	1760	84	93	89	98	94	92	91	88	84	98
TAD-710-200-10/20°	1760	87	98	97	102	99	94	92	88	83	101
TAD-710-200-10/32°	1760	0	100	96	102	99	95	92	88	85	101
TAD-710-200-10/32°	1760	154	98	95	101	98	95	91	88	85	100
TAD-710-200-10/32°	1760	260	97	93	100	96	94	91	88	85	99
TAD-710-200-10/32°	1760	378	97	99	100	97	95	93	90	86	101
TAD-710-200-10/8°	1170	8	76	80	83	82	80	79	78	68	86
TAD-710-200-10/8°	1170	100	74	78	84	84	84	80	75	67	88
TAD-710-200-10/8°	1170	152	79	93	85	80	79	77	73	66	85
TAD-710-200-10/8°	1170	196	81	86	84	80	79	78	75	69	85
TAD-710-200-10/20°	1170	0	87	86	92	86	83	79	77	71	89
TAD-710-200-10/20°	1170	105	83	85	91	84	81	79	76	72	88
TAD-710-200-10/20°	1170	134	83	85	88	85	83	81	77	72	88
TAD-710-200-10/20°	1170	164	88	93	92	87	84	81	76	70	90
TAD-710-200-10/32°	1170	0	90	88	93	88	85	81	77	74	91
TAD-710-200-10/32°	1170	68	88	88	93	88	84	81	77	74	90
TAD-710-200-10/32°	1170	115	87	86	91	87	83	81	77	74	89
TAD-710-200-10/32°	1170	167	87	92	90	88	85	82	78	74	90



The sound power level ratings shown are in decibels referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound power ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{WA} and inlet L_{WA} sound power levels for Installation Type B : free inlet, ducted



Axial Fan Driven Directly

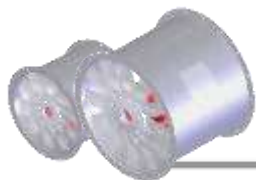


TAD-800-300-6 60Hz Sound Data 風機聲功率數值[dB]



型號 Model No.	轉速 N	靜壓 Ps	風機聲功率(以 10^{-12} 為基準) Sound Power re 10^{-12} Watts 八音階頻帶 Octave Band [Hz]								入口處 A 加權聲功率位準 L _{WA} [dBA]
			63	125	250	500	1000	2000	4000	8000	
TAD-800-300-6/8°	1760	23	89	94	94	92	89	87	88	87	96
TAD-800-300-6/8°	1760	213	92	93	97	97	94	90	86	82	99
TAD-800-300-6/8°	1760	324	93	95	96	94	91	89	86	82	97
TAD-800-300-6/8°	1760	380	93	95	96	94	91	89	86	82	97
TAD-800-300-6/20°	1760	0	97	97	98	95	92	89	87	85	98
TAD-800-300-6/20°	1760	122	97	97	98	95	92	89	85	83	98
TAD-800-300-6/20°	1760	301	96	97	96	93	91	87	85	83	96
TAD-800-300-6/20°	1760	398	98	97	95	95	96	92	89	85	100
TAD-800-300-6/32°	1760	0	104	101	102	98	96	92	88	85	101
TAD-800-300-6/32°	1760	140	103	101	101	97	95	92	88	86	100
TAD-800-300-6/32°	1760	269	102	101	100	96	95	92	89	86	100
TAD-800-300-6/32°	1760	423	103	100	99	96	95	93	89	87	100
TAD-800-300-6/8°	1170	10	79	86	84	81	80	78	80	70	86
TAD-800-300-6/8°	1170	94	83	84	91	86	83	79	76	68	89
TAD-800-300-6/8°	1170	143	83	87	88	84	81	78	75	69	87
TAD-800-300-6/8°	1170	168	83	87	88	84	81	78	75	69	87
TAD-800-300-6/20°	1170	0	86	90	87	84	82	78	78	72	87
TAD-800-300-6/20°	1170	54	86	89	87	84	81	77	76	71	87
TAD-800-300-6/20°	1170	133	86	89	86	83	80	77	75	71	86
TAD-800-300-6/20°	1170	176	87	88	85	88	85	81	78	73	90
TAD-800-300-6/32°	1170	0	92	94	90	88	85	81	78	74	90
TAD-800-300-6/32°	1170	62	91	93	89	87	85	81	78	75	90
TAD-800-300-6/32°	1170	119	91	93	88	86	84	81	78	75	89
TAD-800-300-6/32°	1170	187	92	91	88	87	85	82	79	76	90

The sound power level ratings shown are in decibels referred to 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound power ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{WA} and inlet L_{WA} sound power levels for Installation Type B : free inlet, ducted outlet.



Axial Fan Driven Directly

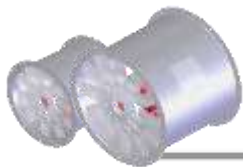


TAD-800-300-12 **60Hz** Sound Data 風機聲功率數值[dB]



型號 Model No.	轉速 N	靜壓 Ps	風機聲功率(以 10^{-12} 為基準) Sound Power re 10^{-12} Watts 八音階頻帶 Octave Band [Hz]								入口處 A 加權聲功率位準 L _{WA} [dBA]
			63	125	250	500	1000	2000	4000	8000	
TAD-800-300-12/8°	1760	23	91	85	95	94	92	91	91	89	98
TAD-800-300-12/8°	1760	344	93	85	92	92	97	95	90	85	101
TAD-800-300-12/8°	1760	466	97	88	98	95	94	92	88	83	99
TAD-800-300-12/8°	1760	584	97	90	98	94	93	90	87	83	98
TAD-800-300-12/20°	1760	0	108	97	104	102	101	98	95	92	106
TAD-800-300-12/20°	1760	208	99	90	101	98	94	92	90	88	100
TAD-800-300-12/20°	1760	360	100	90	98	101	93	91	89	87	101
TAD-800-300-12/20°	1760	538	102	91	98	101	100	97	92	87	104
TAD-800-300-12/32°	1760	0	107	96	104	103	99	96	91	88	105
TAD-800-300-12/32°	1760	210	106	95	104	102	98	95	90	87	104
TAD-800-300-12/32°	1760	405	106	94	102	101	97	94	90	87	103
TAD-800-300-12/32°	1760	597	107	95	102	99	96	94	90	87	102
TAD-800-300-12/8°	1170	10	80	76	88	83	83	81	83	72	89
TAD-800-300-12/8°	1170	152	81	82	83	86	89	83	80	71	91
TAD-800-300-12/8°	1170	206	85	84	91	88	84	80	77	68	90
TAD-800-300-12/8°	1170	258	85	86	91	85	83	79	76	70	88
TAD-800-300-12/20°	1170	0	87	84	94	87	85	82	84	74	92
TAD-800-300-12/20°	1170	92	87	83	92	86	84	81	81	74	90
TAD-800-300-12/20°	1170	159	88	83	90	85	83	80	80	73	89
TAD-800-300-12/20°	1170	238	90	84	93	92	90	85	81	74	94
TAD-800-300-12/32°	1170	0	95	89	96	91	89	84	81	75	94
TAD-800-300-12/32°	1170	93	94	88	95	90	87	83	79	75	93
TAD-800-300-12/32°	1170	179	93	87	95	89	87	83	79	75	92
TAD-800-300-12/32°	1170	264	95	86	93	88	86	83	80	76	91

The sound power level ratings shown are in decibels referred to 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound power ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{WA} and inlet L_{WA} sound power levels for Installation Type B : free inlet, ducted outlet.



Axial Fan Driven Directly

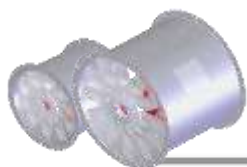


TAD-900-300-6 60Hz Sound Data 風機聲功率數值[dB]



型號 Model No.	轉速 N	靜壓 Ps	風機聲功率(以 10^{-12} 為基準) Sound Power re 10^{-12} Watts 八音階頻帶 Octave Band [Hz]								入口處 A 加權聲功率位準 L _{WA} [dBA]
			63	125	250	500	1000	2000	4000	8000	
TAD-900-300-6/8°	1760	0	89	92	91	93	92	90	90	92	98
TAD-900-300-6/8°	1760	199	89	93	90	96	96	96	92	89	101
TAD-900-300-6/8°	1760	321	90	92	100	98	95	93	89	86	101
TAD-900-300-6/8°	1760	425	91	95	96	95	93	91	88	84	98
TAD-900-300-6/20°	1760	0	100	102	101	98	96	93	89	89	101
TAD-900-300-6/20°	1760	276	98	102	99	97	95	91	88	86	100
TAD-900-300-6/20°	1760	367	98	100	98	96	95	92	90	88	100
TAD-900-300-6/20°	1760	482	100	100	98	107	104	99	94	89	108
TAD-900-300-6/32°	1760	0	106	104	104	101	100	96	93	90	105
TAD-900-300-6/32°	1760	158	105	104	102	100	99	96	93	90	104
TAD-900-300-6/32°	1760	308	104	103	101	99	98	96	94	90	103
TAD-900-300-6/32°	1760	466	105	103	104	102	101	98	95	91	106
TAD-900-300-6/8°	1170	0	80	84	84	83	83	80	84	74	89
TAD-900-300-6/8°	1170	88	80	82	85	87	88	84	82	73	92
TAD-900-300-6/8°	1170	142	82	83	95	88	86	82	79	72	92
TAD-900-300-6/8°	1170	188	82	87	89	85	83	80	77	72	88
TAD-900-300-6/20°	1170	0	89	94	90	87	85	81	81	76	90
TAD-900-300-6/20°	1170	122	88	93	89	86	84	80	78	75	89
TAD-900-300-6/20°	1170	162	88	91	88	87	84	82	80	77	90
TAD-900-300-6/20°	1170	213	89	90	97	97	92	87	82	78	97
TAD-900-300-6/32°	1170	0	94	96	93	91	89	85	82	79	94
TAD-900-300-6/32°	1170	70	94	96	92	90	88	85	82	80	93
TAD-900-300-6/32°	1170	136	93	95	91	89	88	86	83	80	93
TAD-900-300-6/32°	1170	206	94	95	94	92	90	87	84	80	95

The sound power level ratings shown are in decibels referred to 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound power ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{WA} and inlet L_{WA} sound power levels for Installation Type B : free inlet, ducted outlet.



Axial Fan Driven Directly

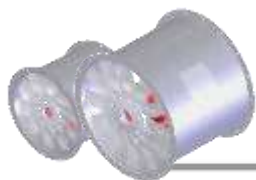


TAD-900-300-12 **60Hz** Sound Data 風機聲功率數值[dB]



型號 Model No.	轉速 N	靜壓 Ps	風機聲功率(以 10^{-12} 為基準) Sound Power re 10^{-12} Watts 八音階頻帶 Octave Band [Hz]								入口處 A 加權聲功率位準 L_{wA} [dBA]
			63	125	250	500	1000	2000	4000	8000	
TAD-900-300-12/8°	1760	0	94	89	97	96	96	95	94	94	102
TAD-900-300-12/8°	1760	380	95	88	97	99	102	98	94	90	105
TAD-900-300-12/8°	1760	566	102	93	103	98	97	95	91	87	102
TAD-900-300-12/8°	1760	715	100	93	105	98	97	95	92	88	103
TAD-900-300-12/20°	1760	0	103	93	103	102	99	96	94	95	105
TAD-900-300-12/20°	1760	97	103	91	103	101	98	96	93	93	104
TAD-900-300-12/20°	1760	183	103	91	102	99	97	95	92	91	103
TAD-900-300-12/20°	1760	269	104	92	101	104	105	102	96	91	109
TAD-900-300-12/32°	1760	0	107	98	106	105	102	99	94	92	107
TAD-900-300-12/32°	1760	256	107	97	106	105	102	98	94	91	107
TAD-900-300-12/32°	1760	475	107	97	106	103	101	98	94	91	106
TAD-900-300-12/32°	1760	704	108	97	104	102	101	98	95	92	106
TAD-900-300-12/8°	1170	0	83	82	90	87	87	85	87	79	93
TAD-900-300-12/8°	1170	168	84	83	87	93	92	86	83	75	95
TAD-900-300-12/8°	1170	250	90	87	96	90	87	83	80	73	93
TAD-900-300-12/8°	1170	316	88	88	97	90	88	84	81	75	94
TAD-900-300-12/20°	1170	0	90	85	95	90	89	85	87	81	95
TAD-900-300-12/20°	1170	220	90	85	95	89	88	84	85	79	93
TAD-900-300-12/20°	1170	415	90	84	94	89	87	84	83	79	93
TAD-900-300-12/20°	1170	609	91	86	95	97	94	90	85	79	99
TAD-900-300-12/32°	1170	0	95	90	98	94	92	87	84	80	97
TAD-900-300-12/32°	1170	113	95	90	98	93	91	87	83	80	96
TAD-900-300-12/32°	1170	210	95	89	97	92	90	87	83	80	95
TAD-900-300-12/32°	1170	311	96	90	96	92	91	88	85	81	96

The sound power level ratings shown are in decibels referred to 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound power ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{wA} and inlet L_{wA} sound power levels for Installation Type B : free inlet, ducted outlet.



Axial Fan Driven Directly

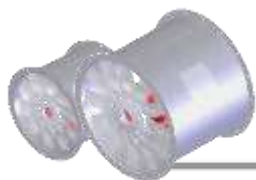


TAD-1000-300-6 60Hz Sound Data 風機聲功率數值[dB]



型號 Model No.	轉速 N	靜壓 Ps	風機聲功率(以 10^{-12} 為基準) Sound Power re 10^{-12} Watts 八音階頻帶 Octave Band [Hz]								入口處 A 加權聲功率位準 L_{wA} [dBA]
			63	125	250	500	1000	2000	4000	8000	
TAD-1000-300-6/8°	1760	0	87	102	99	97	96	94	94	98	103
TAD-1000-300-6/8°	1760	290	87	100	97	100	100	99	95	93	105
TAD-1000-300-6/8°	1760	410	88	98	98	104	101	98	93	89	106
TAD-1000-300-6/8°	1760	498	89	102	101	101	98	95	92	88	103
TAD-1000-300-6/20°	1760	0	96	109	106	102	99	96	92	90	105
TAD-1000-300-6/20°	1760	290	95	106	103	101	98	95	92	89	104
TAD-1000-300-6/20°	1760	412	96	106	103	99	98	95	93	90	103
TAD-1000-300-6/20°	1760	550	98	107	104	109	108	102	97	92	111
TAD-1000-300-6/32°	1760	0	102	109	108	105	103	99	96	93	108
TAD-1000-300-6/32°	1760	149	102	109	107	104	102	99	96	93	107
TAD-1000-300-6/32°	1760	301	102	109	106	104	101	99	97	93	107
TAD-1000-300-6/32°	1760	471	105	112	112	109	106	102	98	94	111
TAD-1000-300-6/8°	1170	0	80	94	89	87	86	84	89	85	94
TAD-1000-300-6/8°	1170	128	82	93	89	90	90	88	86	80	95
TAD-1000-300-6/8°	1170	181	83	92	94	94	92	87	82	78	96
TAD-1000-300-6/8°	1170	220	84	94	94	90	88	85	80	76	93
TAD-1000-300-6/20°	1170	0	88	101	95	90	89	84	82	80	94
TAD-1000-300-6/20°	1170	128	89	101	93	89	87	84	81	78	93
TAD-1000-300-6/20°	1170	182	90	99	91	89	88	85	82	79	93
TAD-1000-300-6/20°	1170	243	91	98	98	100	96	90	85	81	101
TAD-1000-300-6/32°	1170	0	93	101	98	93	93	88	85	82	97
TAD-1000-300-6/32°	1170	66	93	101	97	93	92	88	86	83	97
TAD-1000-300-6/32°	1170	133	94	101	96	92	92	89	86	83	97
TAD-1000-300-6/32°	1170	208	103	103	102	98	95	91	86	83	100

The sound power level ratings shown are in decibels referred to 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound power ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{wA} and inlet L_{wA} sound power levels for Installation Type B : free inlet, ducted outlet.



Axial Fan Driven Directly

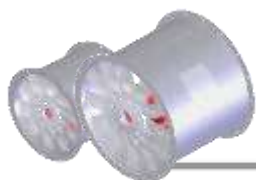


TAD-1000-300-12 **60Hz** Sound Data 風機聲功率數值[dB]



型號 Model No.	轉速 N	靜壓 Ps	風機聲功率(以 10^{-12} 為基準) Sound Power re 10^{-12} Watts 八音階頻帶 Octave Band [Hz]								入口處 A 加權聲功率位準 L_{wA} [dBA]
			63	125	250	500	1000	2000	4000	8000	
TAD-1000-300-12/8°	1760	0	92	88	98	97	96	95	94	94	102
TAD-1000-300-12/8°	1760	453	91	92	98	99	99	98	94	92	104
TAD-1000-300-12/8°	1760	638	96	98	100	107	104	101	96	92	109
TAD-1000-300-12/8°	1760	812	98	105	103	104	101	99	95	91	106
TAD-1000-300-12/20°	1760	0	103	93	103	102	99	96	94	95	105
TAD-1000-300-12/20°	1760	272	103	91	102	101	98	96	93	93	104
TAD-1000-300-12/20°	1760	493	103	91	102	99	97	95	92	91	103
TAD-1000-300-12/20°	1760	763	104	92	101	104	105	102	96	91	109
TAD-1000-300-12/32°	1760	0	101	97	108	106	102	100	96	98	108
TAD-1000-300-12/32°	1760	272	100	96	108	105	101	99	95	94	107
TAD-1000-300-12/32°	1760	514	99	96	108	105	102	100	96	93	108
TAD-1000-300-12/32°	1760	774	99	97	108	109	108	104	99	94	112
TAD-1000-300-12/8°	1170	0	81	81	90	87	87	85	87	79	93
TAD-1000-300-12/8°	1170	200	82	86	90	91	90	87	84	78	94
TAD-1000-300-12/8°	1170	282	88	88	97	96	94	89	84	80	98
TAD-1000-300-12/8°	1170	359	91	97	96	93	91	88	84	80	96
TAD-1000-300-12/20°	1170	0	90	85	95	90	89	85	87	81	95
TAD-1000-300-12/20°	1170	120	90	85	95	89	88	84	85	79	93
TAD-1000-300-12/20°	1170	218	90	84	94	89	87	84	83	79	93
TAD-1000-300-12/20°	1170	337	91	86	95	97	94	90	85	79	99
TAD-1000-300-12/32°	1170	0	90	90	100	93	92	88	89	86	98
TAD-1000-300-12/32°	1170	122	89	90	100	92	91	87	86	83	97
TAD-1000-300-12/32°	1170	227	89	89	100	93	92	89	85	82	97
TAD-1000-300-12/32°	1170	342	89	91	101	99	97	93	87	82	101

The sound power level ratings shown are in decibels referred to 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound power ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{wA} and inlet L_{wA} sound power levels for Installation Type B : free inlet, ducted outlet.



Axial Fan Driven Directly

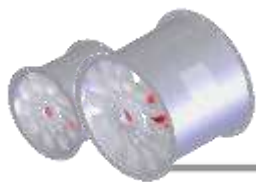


TAD-1120-388-5 60Hz Sound Data 風機聲功率數值[dB]



型號 Model No.	轉速 N	靜壓 Ps	風機聲功率(以 10^{-12} 為基準) Sound Power re 10^{-12} Watts 八音階頻帶 Octave Band [Hz]								入口處 A 加權聲功率位準 L _{WA} [dBA]
			63	125	250	500	1000	2000	4000	8000	
TAD-1120-388-5/8°	1170	0	99	99	97	93	90	86	84	78	96
TAD-1120-388-5/8°	1170	95	98	99	95	91	92	90	85	77	97
TAD-1120-388-5/8°	1170	193	98	96	100	97	96	91	84	76	100
TAD-1120-388-5/8°	1170	338	107	101	98	94	92	89	84	78	97
TAD-1120-388-5/20°	1170	0	107	104	102	94	92	87	84	77	98
TAD-1120-388-5/20°	1170	119	106	104	102	94	91	88	84	78	98
TAD-1120-388-5/20°	1170	232	105	103	99	94	92	90	86	80	98
TAD-1120-388-5/20°	1170	346	119	108	105	98	96	93	87	81	103
TAD-1120-388-5/32°	1170	0	106	109	104	98	96	93	89	85	102
TAD-1120-388-5/32°	1170	98	105	109	103	98	95	94	90	86	102
TAD-1120-388-5/32°	1170	193	105	107	102	98	96	94	90	86	102
TAD-1120-388-5/32°	1170	327	104	109	105	100	98	96	91	86	104
TAD-1120-388-5/8°	1760	0	108	109	106	102	101	97	95	91	106
TAD-1120-388-5/8°	1760	215	107	109	104	101	101	101	97	91	107
TAD-1120-388-5/8°	1760	436	106	109	104	109	106	103	97	90	111
TAD-1120-388-5/8°	1760	765	116	115	108	105	101	100	96	90	108
TAD-1120-388-5/20°	1760	0	116	116	110	106	103	99	95	91	109
TAD-1120-388-5/20°	1760	269	115	116	110	106	101	99	96	91	109
TAD-1120-388-5/20°	1760	526	114	115	108	105	102	100	98	93	108
TAD-1120-388-5/20°	1760	783	127	125	116	110	106	104	99	93	114
TAD-1120-388-5/32°	1760	0	115	119	112	108	106	104	100	96	112
TAD-1120-388-5/32°	1760	221	114	119	112	108	106	104	101	97	112
TAD-1120-388-5/32°	1760	436	114	119	111	107	106	104	102	97	112
TAD-1120-388-5/32°	1760	741	113	116	116	110	108	106	103	97	114

The sound power level ratings shown are in decibels referred to 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound power ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{WA} and inlet L_{WA} sound power levels for Installation Type B : free inlet, ducted outlet.



Axial Fan Driven Directly

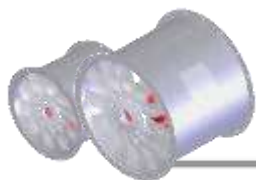


TAD-1120-388-10 60Hz Sound Data 風機聲功率數值[dB]



型號 Model No.	轉速 N	靜壓 Ps	風機聲功率(以 10^{-12} 為基準) Sound Power re 10^{-12} Watts 八音階頻帶 Octave Band [Hz]								入口處 A 加權聲功率位準 L _{WA} [dBA]
			63	125	250	500	1000	2000	4000	8000	
TAD-1120-388-10/8°	1170	0	96	95	102	96	94	91	89	81	100
TAD-1120-388-10/8°	1170	293	96	97	103	101	98	93	86	77	103
TAD-1120-388-10/8°	1170	457	98	104	103	97	94	90	83	75	100
TAD-1120-388-10/8°	1170	634	100	101	103	97	95	93	88	81	101
TAD-1120-388-10/20°	1170	0	99	99	106	98	95	91	88	80	102
TAD-1120-388-10/20°	1170	153	98	98	107	97	95	91	87	80	102
TAD-1120-388-10/20°	1170	264	99	97	108	98	97	93	89	82	103
TAD-1120-388-10/20°	1170	401	101	102	110	104	101	96	89	82	107
TAD-1120-388-10/32°	1170	0	104	101	109	100	99	94	89	81	105
TAD-1120-388-10/32°	1170	161	102	100	108	100	98	94	90	83	104
TAD-1120-388-10/32°	1170	283	100	99	106	100	97	95	91	88	103
TAD-1120-388-10/32°	1170	444	101	103	106	101	98	96	92	88	104
TAD-1120-388-10/8°	1760	0	104	103	111	104	103	102	99	95	109
TAD-1120-388-10/8°	1760	663	105	105	111	109	110	105	99	91	113
TAD-1120-388-10/8°	1760	1034	107	107	115	108	105	102	97	88	111
TAD-1120-388-10/8°	1760	1434	109	108	113	107	105	103	100	94	111
TAD-1120-388-10/20°	1760	0	108	107	115	107	106	102	98	94	111
TAD-1120-388-10/20°	1760	418	107	106	117	106	105	102	98	94	112
TAD-1120-388-10/20°	1760	705	107	106	116	107	106	104	100	96	112
TAD-1120-388-10/20°	1760	854	110	110	117	116	111	108	102	95	117
TAD-1120-388-10/32°	1760	0	113	111	117	111	108	106	101	95	114
TAD-1120-388-10/32°	1760	364	111	110	117	110	108	106	101	96	114
TAD-1120-388-10/32°	1760	639	109	108	116	109	108	106	102	98	114
TAD-1120-388-10/32°	1760	1004	110	111	115	110	109	107	103	99	114

The sound power level ratings shown are in decibels referred to 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound power ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{WA} and inlet L_{WA} sound power levels for Installation Type B : free inlet, ducted outlet.



Axial Fan Driven Directly

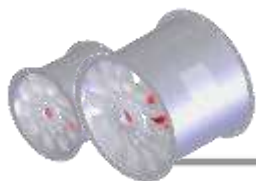


TAD-1250-388-5 60Hz Sound Data 風機聲功率數值[dB]

型號 Model No.	轉速 N	靜壓 Ps	風機聲功率(以 10^{-12} 為基準) Sound Power re 10^{-12} Watts 八音階頻帶 Octave Band [Hz]								入口處 A 加權聲功率位準 L_{wA} [dBA]
			63	125	250	500	1000	2000	4000	8000	
TAD-1250-388-5/8°	1760	0	111	114	109	106	105	101	98	96	110
TAD-1250-388-5/8°	1760	215	110	114	106	105	105	105	102	96	111
TAD-1250-388-5/8°	1760	436	112	111	107	116	109	106	100	95	115
TAD-1250-388-5/8°	1760	765	118	117	112	108	105	103	101	96	112
TAD-1250-388-5/20°	1760	0	121	119	120	116	112	110	105	100	118
TAD-1250-388-5/20°	1760	454	121	119	119	115	112	109	105	101	118
TAD-1250-388-5/20°	1760	717	122	120	118	114	112	109	106	101	117
TAD-1250-388-5/20°	1760	843	122	120	118	114	112	109	106	101	117
TAD-1250-388-5/32°	1760	0	119	121	115	113	111	108	104	100	116
TAD-1250-388-5/32°	1760	305	119	121	114	112	111	107	105	100	116
TAD-1250-388-5/32°	1760	544	119	120	113	111	109	108	104	99	115
TAD-1250-388-5/32°	1760	777	118	119	114	112	110	108	105	99	116
TAD-1250-388-5/8°	1170	0	103	104	100	97	94	90	89	83	100
TAD-1250-388-5/8°	1170	137	102	104	98	96	96	95	89	82	101
TAD-1250-388-5/8°	1170	259	103	98	106	102	98	94	89	81	104
TAD-1250-388-5/8°	1170	430	109	104	102	97	95	93	89	84	101
TAD-1250-388-5/20°	1170	0	112	106	111	106	102	98	93	88	108
TAD-1250-388-5/20°	1170	201	112	106	110	105	102	98	94	89	108
TAD-1250-388-5/20°	1170	317	113	106	109	105	101	99	95	90	107
TAD-1250-388-5/20°	1170	372	113	106	109	105	101	99	95	90	107
TAD-1250-388-5/32°	1170	0	110	110	107	103	100	97	93	89	106
TAD-1250-388-5/32°	1170	135	110	109	106	103	99	98	93	89	106
TAD-1250-388-5/32°	1170	240	110	109	104	101	99	98	92	89	105
TAD-1250-388-5/32°	1170	343	109	108	106	102	100	98	92	88	105



The sound power level ratings shown are in decibels referred to 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound power ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{wA} and inlet L_{wA} sound power levels for Installation Type B : free inlet, ducted outlet.



Axial Fan Driven Directly

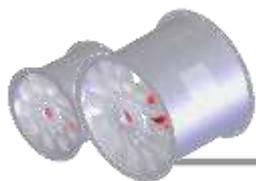


TAD-1250-388-10 60Hz Sound Data 風機聲功率數值[dB]



型號 Model No.	轉速 N	靜壓 Ps	風機聲功率(以 10 ⁻¹² 為基準) Sound Power re 10 ⁻¹² Watts 八音階頻帶 Octave Band [Hz]								入口處 A 加權聲功率位準 L _w A [dBA]
			63	125	250	500	1000	2000	4000	8000	
TAD-1250-388-10/8°	1760	0	104	104	114	108	107	105	102	99	113
TAD-1250-388-10/8°	1760	347	107	106	113	107	107	109	106	100	114
TAD-1250-388-10/8°	1760	801	108	107	111	112	114	109	103	97	117
TAD-1250-388-10/8°	1760	1434	111	110	118	111	108	106	102	97	115
TAD-1250-388-10/20°	1760	0	112	111	118	112	110	107	101	98	115
TAD-1250-388-10/20°	1760	406	114	113	118	111	109	106	102	98	115
TAD-1250-388-10/20°	1760	699	115	113	118	111	109	108	104	100	115
TAD-1250-388-10/20°	1760	1135	117	115	117	122	116	112	107	101	122
TAD-1250-388-10/32°	1760	0	121	119	120	116	112	110	105	100	118
TAD-1250-388-10/32°	1760	364	121	119	120	115	112	109	105	101	118
TAD-1250-388-10/32°	1760	675	121	120	119	114	112	109	106	101	118
TAD-1250-388-10/32°	1760	1099	126	125	122	119	115	111	106	100	121
TAD-1250-388-10/8°	1170	0	95	99	104	100	97	94	93	86	103
TAD-1250-388-10/8°	1170	153	98	97	104	99	100	99	94	86	105
TAD-1250-388-10/8°	1170	354	99	98	104	104	102	97	91	82	106
TAD-1250-388-10/8°	1170	634	102	107	106	100	98	95	91	84	104
TAD-1250-388-10/20°	1170	0	103	103	109	103	100	94	91	85	106
TAD-1250-388-10/20°	1170	180	105	104	108	102	99	94	91	85	105
TAD-1250-388-10/20°	1170	309	106	103	108	102	100	96	93	87	105
TAD-1250-388-10/20°	1170	502	108	104	113	109	105	100	94	87	111
TAD-1250-388-10/32°	1170	0	112	107	111	106	102	98	93	88	108
TAD-1250-388-10/32°	1170	161	112	106	111	105	102	98	94	89	108
TAD-1250-388-10/32°	1170	298	113	106	110	105	101	98	94	90	107
TAD-1250-388-10/32°	1170	486	117	113	113	108	104	100	94	88	110

The sound power level ratings shown are in decibels referred to 10^{-12} watts, calculated per AMCA International Standard 301. The A-weighted sound power ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_w and inlet L_{wA} sound power levels for Installation Type B : free inlet, ducted outlet.



Axial Fan Driven Directly

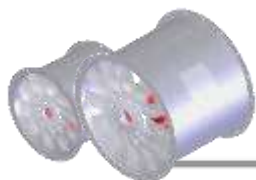


TAD-1400-388-5 60Hz Sound Data 風機聲功率數值[dB]



型號 Model No.	轉速 N	靜壓 Ps	風機聲功率(以 10 ⁻¹² 為基準) Sound Power re 10 ⁻¹² Watts 八音階頻帶 Octave Band [Hz]								入口處 A 加權聲功率位準 L _W A [dBA]
			63	125	250	500	1000	2000	4000	8000	
TAD-1400-388-5/8°	880	0	99	100	100	97	96	91	86	79	100
TAD-1400-388-5/8°	880	63	97	98	100	97	96	91	86	79	100
TAD-1400-388-5/8°	880	155	97	97	101	98	96	91	86	79	100
TAD-1400-388-5/8°	880	284	102	101	99	93	92	90	86	82	98
TAD-1400-388-5/20°	880	0	107	104	104	101	97	94	90	85	103
TAD-1400-388-5/20°	880	81	104	102	103	101	97	94	90	86	103
TAD-1400-388-5/20°	880	166	103	101	102	100	97	94	91	87	102
TAD-1400-388-5/20°	880	269	103	103	106	102	98	95	91	86	104
TAD-1400-388-5/32°	880	0	110	106	106	103	100	98	94	89	106
TAD-1400-388-5/32°	880	70	110	105	106	103	100	98	93	89	106
TAD-1400-388-5/32°	880	137	108	106	106	103	100	98	93	88	106
TAD-1400-388-5/32°	880	238	110	110	105	101	99	95	90	83	104
TAD-1400-388-5/8°	1170	0	100	106	108	105	103	99	94	89	108
TAD-1400-388-5/8°	1170	111	100	106	107	104	103	100	94	89	108
TAD-1400-388-5/8°	1170	275	99	104	107	106	102	99	94	89	108
TAD-1400-388-5/8°	1170	502	103	105	107	104	101	98	94	89	106
TAD-1400-388-5/20°	1170	0	106	113	112	109	105	102	97	94	111
TAD-1400-388-5/20°	1170	143	104	111	110	108	104	101	98	94	110
TAD-1400-388-5/20°	1170	293	103	111	109	107	104	102	98	95	110
TAD-1400-388-5/20°	1170	475	102	110	113	110	105	103	98	94	112
TAD-1400-388-5/32°	1170	0	109	116	114	111	108	105	102	97	114
TAD-1400-388-5/32°	1170	124	108	116	113	110	107	105	101	97	113
TAD-1400-388-5/32°	1170	243	109	114	114	110	107	105	101	96	113
TAD-1400-388-5/32°	1170	420	114	117	114	108	106	103	98	92	112

The sound power level ratings shown are in decibels referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound power ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet L_{wo} and L_{woA} sound power levels for Installation Type A : free inlet, free outlet with partition.



Axial Fan Driven Directly



TAD-1400-388-10 60Hz Sound Data 風機聲功率數值[dB]

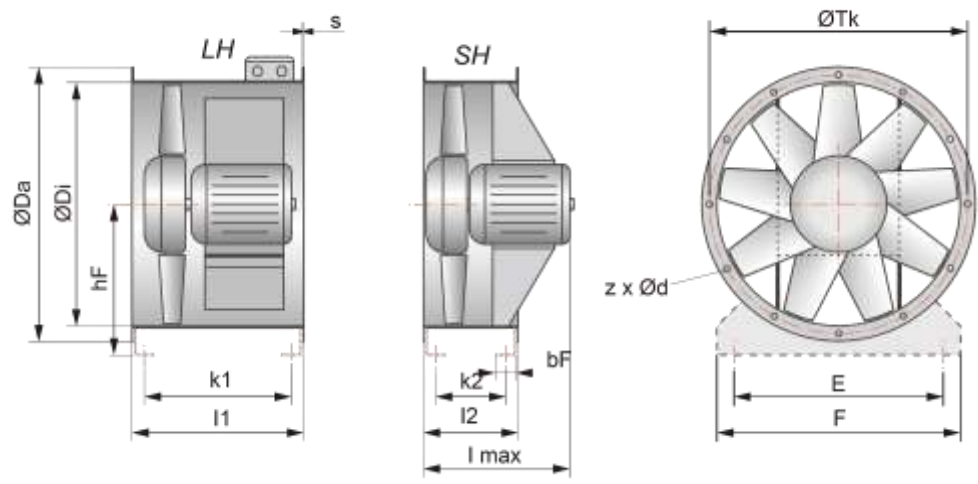


型號 Model No.	轉速 N	靜壓 Ps	風機聲功率(以 10 ⁻¹² 為基準) Sound Power re 10 ⁻¹² Watts 八音階頻帶 Octave Band [Hz]								入口處 A 加權聲功率位準 L _{WA} [dBA]
			63	125	250	500	1000	2000	4000	8000	
TAD-1400-388-10/8°	880	0	92	103	102	100	99	95	91	83	103
TAD-1400-388-10/8°	880	236	90	101	102	101	99	93	88	79	103
TAD-1400-388-10/8°	880	378	91	104	103	99	96	92	87	80	101
TAD-1400-388-10/8°	880	510	92	103	100	97	94	90	87	81	99
TAD-1400-388-10/20°	880	0	98	106	101	99	96	91	89	80	101
TAD-1400-388-10/20°	880	149	99	107	100	98	96	92	88	80	101
TAD-1400-388-10/20°	880	306	99	106	101	99	97	94	90	83	102
TAD-1400-388-10/20°	880	414	103	107	112	106	102	97	91	84	108
TAD-1400-388-10/32°	880	0	105	111	109	106	102	99	95	91	108
TAD-1400-388-10/32°	880	129	104	111	108	105	102	99	95	91	108
TAD-1400-388-10/32°	880	273	111	112	109	104	102	99	95	89	108
TAD-1400-388-10/32°	880	340	114	113	108	103	101	98	93	87	107
TAD-1400-388-10/8°	1170	0	99	104	109	108	106	103	99	93	111
TAD-1400-388-10/8°	1170	417	96	103	110	108	106	102	96	90	110
TAD-1400-388-10/8°	1170	668	97	109	110	106	103	100	95	90	109
TAD-1400-388-10/8°	1170	901	98	109	107	104	102	98	94	90	107
TAD-1400-388-10/20°	1170	0	106	107	112	107	104	99	96	90	109
TAD-1400-388-10/20°	1170	264	106	108	112	106	104	99	96	91	109
TAD-1400-388-10/20°	1170	541	107	107	112	107	104	101	98	92	110
TAD-1400-388-10/20°	1170	731	110	109	118	115	110	105	100	93	116
TAD-1400-388-10/32°	1170	0	111	113	118	114	110	107	103	99	116
TAD-1400-388-10/32°	1170	228	110	112	117	113	109	107	103	99	115
TAD-1400-388-10/32°	1170	483	116	118	117	113	109	107	103	98	115
TAD-1400-388-10/32°	1170	601	119	121	117	111	108	106	102	96	115

The sound power level ratings shown are in decibels referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound power ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet L_{wo} and L_{woA} sound power levels for Installation Type A : free inlet, free outlet with partition.

Dimensions + Accessories 尺寸 + 附件

Feet mounting 落地式

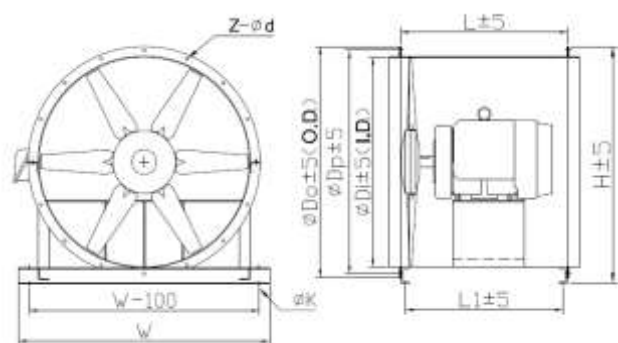


外型圖 1(Fig.1)

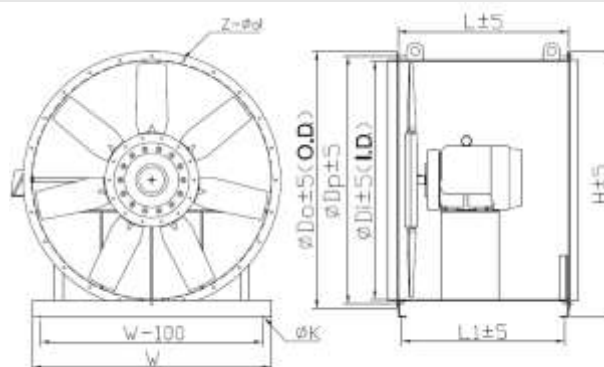
尺寸 size	Di	Da	hF	z*d	Tk	E	F	bF
560	565	665	348	12*14	629	500	560	60
630	634	734	385	12*14	698	570	630	60
710	711	811	425	12*14	775	650	710	60
800	797	897	471	16*14	861	740	800	60
900	897	994	516	16*14	958	840	900	60
1000	1003	1103	572	16*14	1067	900	960	60

尺寸 size	s	LH			SH		
		k1	l1	馬達 max.	k2	l2	lmax
560	3	454	520	132	234	300	750
630	3	534	600	160	234	300	750
710	3	584	650	160	234	300	750
800	3	634	700	160	234	300	750
900	3	634	700	160	234	300	750
1000	3	734	800	180L	284	350	800

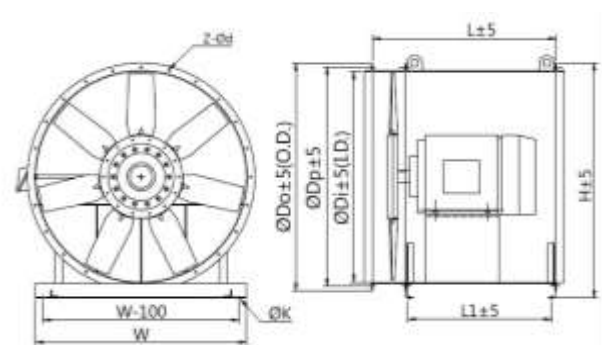
Feet mounting 落地式



外型圖 2(Fig.2)



外型圖 3(Fig.3)

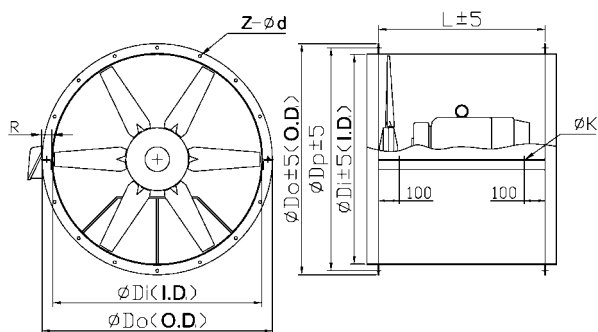


外型圖 4(Fig.4)

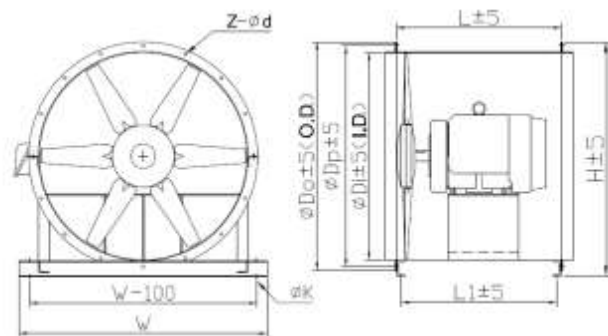
尺寸 size	Di	Dp	Do	z*d	L	L1	K	W	H	圖號 Fig.No	最大馬 達框號 Max.Motor	圖號 Fig.No	L	L1	最大馬 達框號 Max.Motor
800	797	861	897	16*14	700	644	18	800	950	圖 2 (Fig.2)	180L	-	-	-	-
900	897	958	994	16*14	700	644	18	900	1049		180L	-	-	-	-
1000	1003	1067	1103	16*14	800	744	18	1000	1156		Only 200L	-	-	-	-
1120	1120	1185	1220	16x14	1000	942	22	1120	1282	圖 3 (Fig.3)	≤250 M	圖 4 (Fig.4)	-	-	-
1250	1250	1320	1350	16*14	1000	942	22	1250	1412		≤250 M		-	-	-
1400	1400	1458	1500	16x14	1000	942	22	1400	1559		≤225S		1220	942	≤280M

All dimensions in mm.

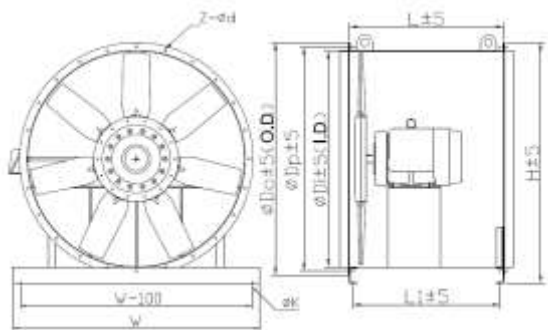
Ceiling Hanging 落地式



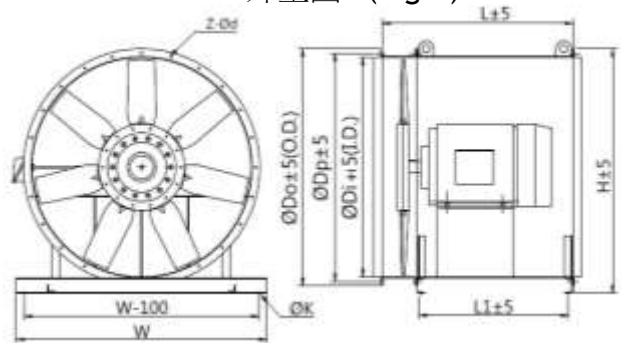
外型圖 5(Fig.5)



外型圖 6(Fig.6)



外型圖 7 (Fig.7)

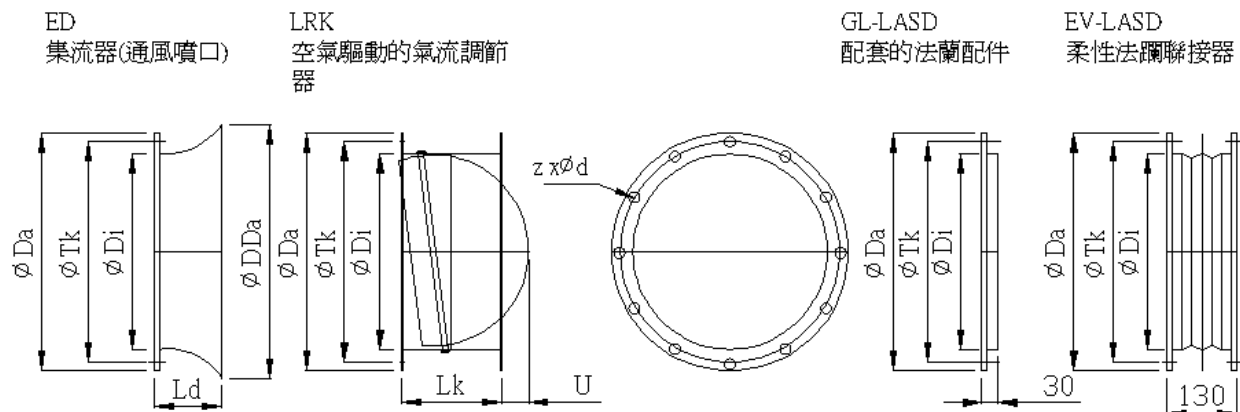


外型圖 8 (Fig.8)

尺寸 size	Di	Dp	Do	z*d	s	R	K	W	H	圖號 Fig.No	L	L1	最大馬達 框號 Max.Motor	圖號 Fig.No	L	L1	最大馬 達框號 Max.Motor
560	565	629	665	12*14	3	50	14	-	-	圖 5 (Fig.5)	520	-	132S	-	-	-	-
630	634	698	734	12*14	3,4	50	14	-	-		600	-	160M	-	-	-	-
710	711	775	811	12*14	3,4	50	14	-	-		650	-	160L	-	-	-	-
800	797	861	897	16*14	3,4	50	14	-	-		700	-	180L	-	-	-	-
900	897	958	994	16*14	3,4	50	14	-	-		700	-	180L	-	-	-	-
1000	1003	1067	1103	16*14	3,4	50	18	1200	1156		800	-	180L	圖 6 (Fig.6)	800	744	200L
1120	1120	1185	1220	16x14	4,6	-	22	1320	1282	圖 7 (Fig.7)	1000	942	≤250 M	圖 8 (Fig.8)	-	-	-
1250	1250	1320	1350	16*14	4,6	-	22	1450	1412		1000	942	≤250 M		-	-	-
1400	1400	1458	1500	16x14	4,6	-	22	1600	1559		1000	942	≤225S		1220	942	≤280M

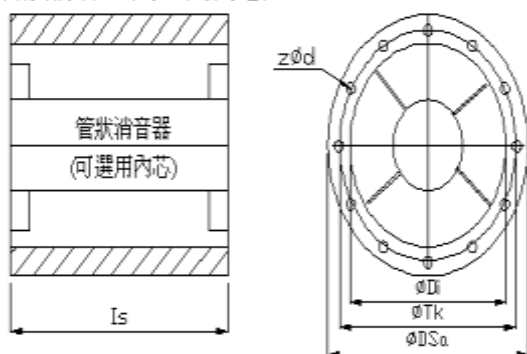
All dimensions in mm.

Dimensions + Accessories 尺寸 + 附件



尺寸 size	Da	Di	Tk	z*d	DDa	Ld	Lk	U
560	665	565	629	12*14	715	150	185	110
630	734	634	698	12*14	784	150	210	125
710	811	711	775	12*14	861	150	310	155
800	897	797	861	16*14	947	150	330	195
900	994	897	958	16*14	1047	150	330	220
1000	1103	1003	1067	16*14	1153	150	330	220
1120	1220	1120	1185	16x14	按需求 On demand			
1250	1350	1250	1320	16*14	按需求 On demand			
1400	1500	1400	1470	16*14	按需求 On demand			

SD
管狀消音器(可選用內芯)



不同頻率下聲級衰減 suppression at [Hz]

尺寸 size	Dsa	ls	 [kg]	63 [dB]	125 [dB]	250 [dB]	500 [dB]	1k [dB]	2k [dB]	4k [dB]	8k [dB]
		560	29	1	1	6	6	3	1	1	1
560	765	1120	50	1	3	10	10	6	3	1	1
		630	34	1	1	5	5	3	2	1	1
630	835	1250	58	1	3	9	9	4	2	1	1
		750	48	1	2	6	6	3	2	1	1
710	915	1500	87	1	4	12	10	5	2	1	1
		800	62	1	3	7	5	2	1	1	1
800	1005	1600	98	1	4	11	7	4	2	1	1
		900	按需求 On demand								
900		1800									
		1000	按需求 On demand								
1000		2000									
1120			按需求 On demand								
1250											
1400											

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