

**KRUGER**



# **CABINET FAN**

## **CFC SERIES**



Compact



Flexible



Low Noise

## Why KRUGER ?

KRUGER has been a leading innovator and manufacturer of residential, commercial and industrial fan application solutions across Asia since 1985. Today with a direct presence in over 18 regions throughout Asia; world class R&D and manufacturing facilities; KRUGER are able to offer their customers unparalleled service and support at a local level. Our customers place their trust in KRUGER.



## What is a KRUGER Cabinet Fan ?

The CFC Series is a compact cabinet centrifugal fan is designed for supply, exhaust and pressurization in general clean air, grease laden air and smokespill application. It is compact, easy to install and service, generates high static pressure and low noise.

## Why use a KRUGER CFC Cabinet Fan ?

**Compact size** ►► **Close to duct size** ►► **Lower space requirement**

CFC Series compact sized cabinet is comparable to an axial fan but much smaller than a centrifugal fan.

**Flexible Installation** ►► **Suitable for any mounting orientation** ►► **Free to install anywhere along duct**

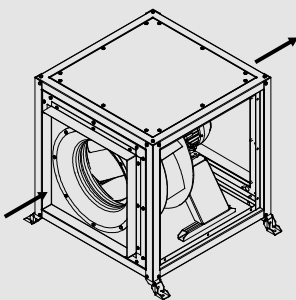
Cabinet with flexible inlet/outlet direction that can be changed in the field to suit any installation.

**Low noise** ►► **Optimised sound insulation cabinet** ►► **Installation near occupant**

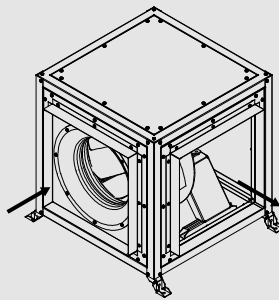
KRUGER CFC Series offer one of the lowest noise /CMH in the industry allows for very flexible installation location even above occupants.

**Versatile design** ►► **Suitable for many ventilation applications** ►► **Installation friendly**

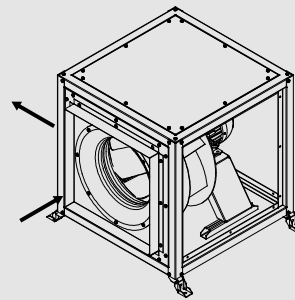
Suitable for the extract (or supply) of clean, grease laden or high temperature (up to F400) airstreams.



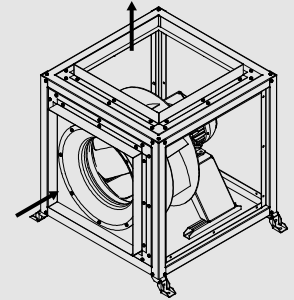
CFC Inline Discharge (180)



CFC Side Discharge (90)



CFC Side Discharge (90)



CFC Top Discharge (90)

## Summary of key standard CFC Series specifications:

- A- Nominal fan diameter sized from 315-1000mm.
- B- Airflow and static pressure performance range up to 45,000CMH and 1,000Pa.
- C- Airstream operating temperatures
  - Clean air standard ventilation application -20°C to +55°C.
  - Kitchen (grease laden air) application up to +80°C /176°F.
  - High temperature smokespill application (CFC-D) up to 400°C/2Hrs certified.
- D- Extended operating life.
  - Sealed bearings suitable for L10, >75,000 operating hours at maximum speed. Extended operating life construction of L10, >200,000 operating hours available upon request. Vibration balanced to G2.5 in accordance with ISO14694/AMCA 204 standards.

### E- Certifications.



Kruvent Industries (M) Sdn. Bhd. certifies that the CFC Series shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



High temperature (up to 400°C/2Hrs) in accordance with EN12101-3 certification by TÜV SÜD a third-party globally renowned testing and certification organisation.

Class	Temperature (°C)	Minimum functioning period (minutes)
F,250	250	120
F300	300	60
F,300	300	120
F400	400	120

### F- Cabinet

With high gloss surface finished manufactured from ZERO spange galvanized steel.

### G- Kruger's 3rd generation plenum backward curved wheel

Specifically optimized for high efficiency in an inline configuration. Wheel manufactured in steel finished in zinc rich primer and polyester powder coating with salt spray rating up to 1000 hours (ASTM B117). All wheels are statically and dynamically balanced to G2.5 (ISO 21940).

### H- High precision shaft

Belt drive shaft manufacture from C45 steel with g6 tolerance (ISO286-2), to minimize eccentricity of shaft leading to lower vibration and longer bearing life.

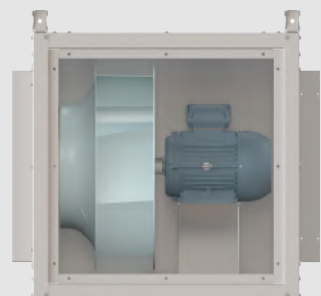
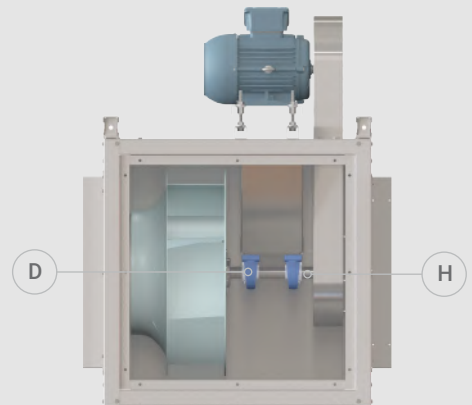
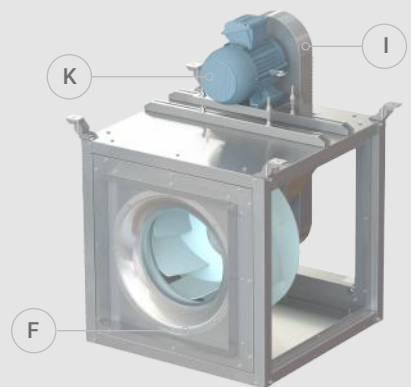
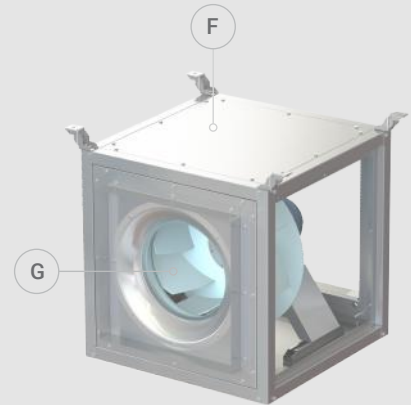
### I- Service friendly

Motor and drive outside casing and for easier belt adjustment and replacement.

### J- Built-in inlet and outlet flange for easy duct connection.

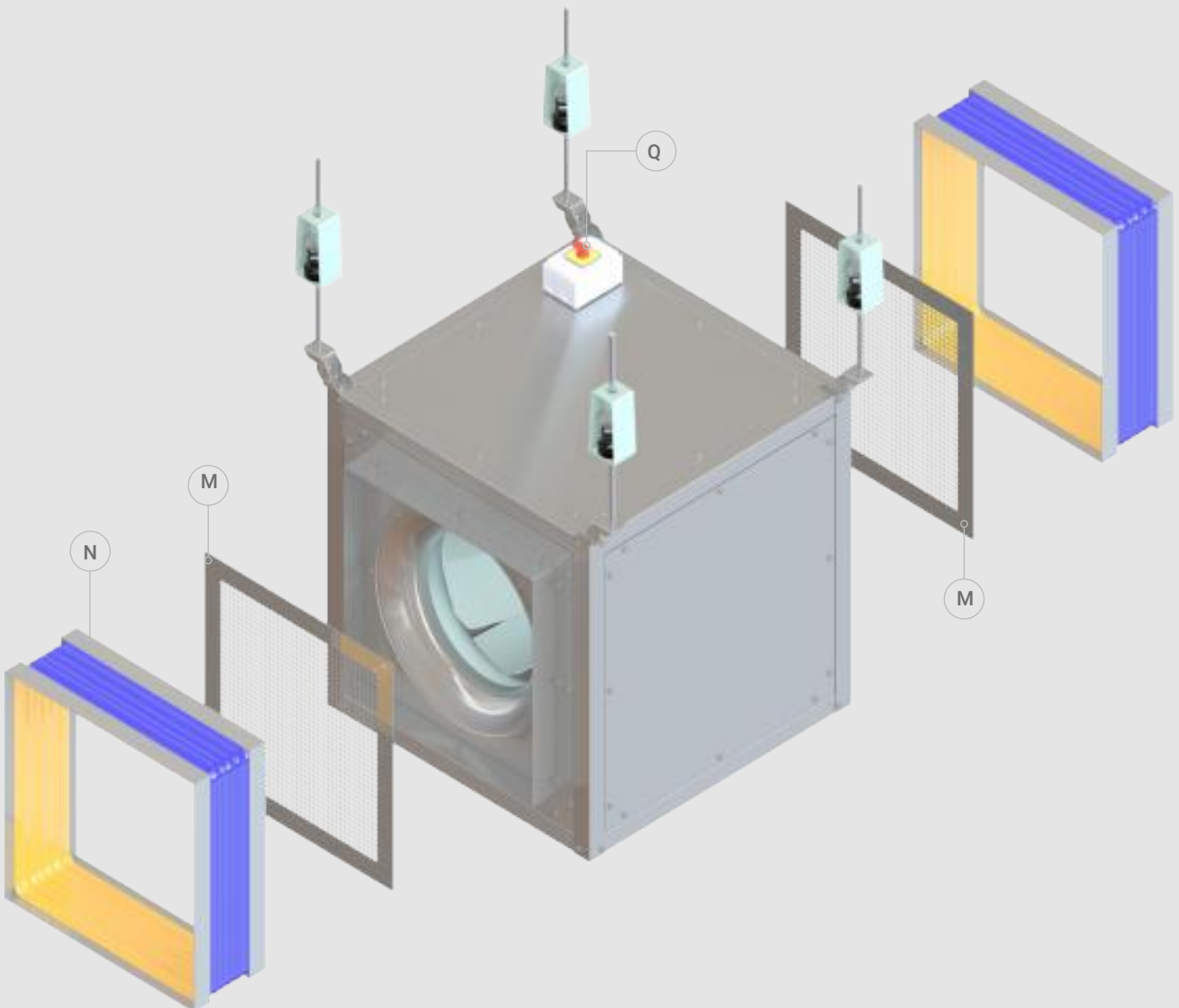
### K- High Efficiency KRUGER Motors

All CFC Series fans are supplied with a wide variety of both 1PH and 3PH AC, PM and EC, standard and high temperature rated motors. Please ask local KRUGER Distributor.



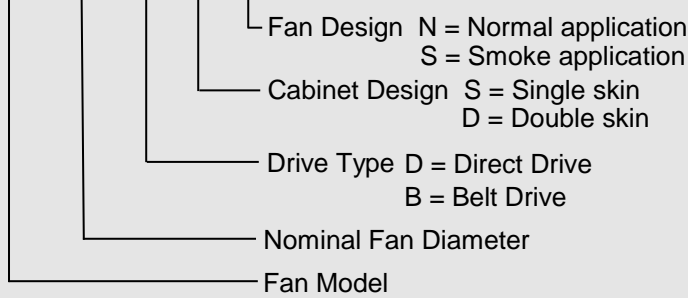
## Options and Accessories

- L- "Double skin" cabinet with acoustic and thermal insulation.
- M- Inlet and outlet safety guard.
- N- Flexible duct for normal and high temperature up to 400°C.
- O- Vibration isolator for ceiling hung or floor mounted installations.
- P- Spark resistance construction per AMCA 99.
- Q- Safety electrical switch.
- R- Belt cover isolates drive sets from airstream and protection from rotating pulleys and belts.
- S- Aluminium profile design, providing a high quality and great hardness.

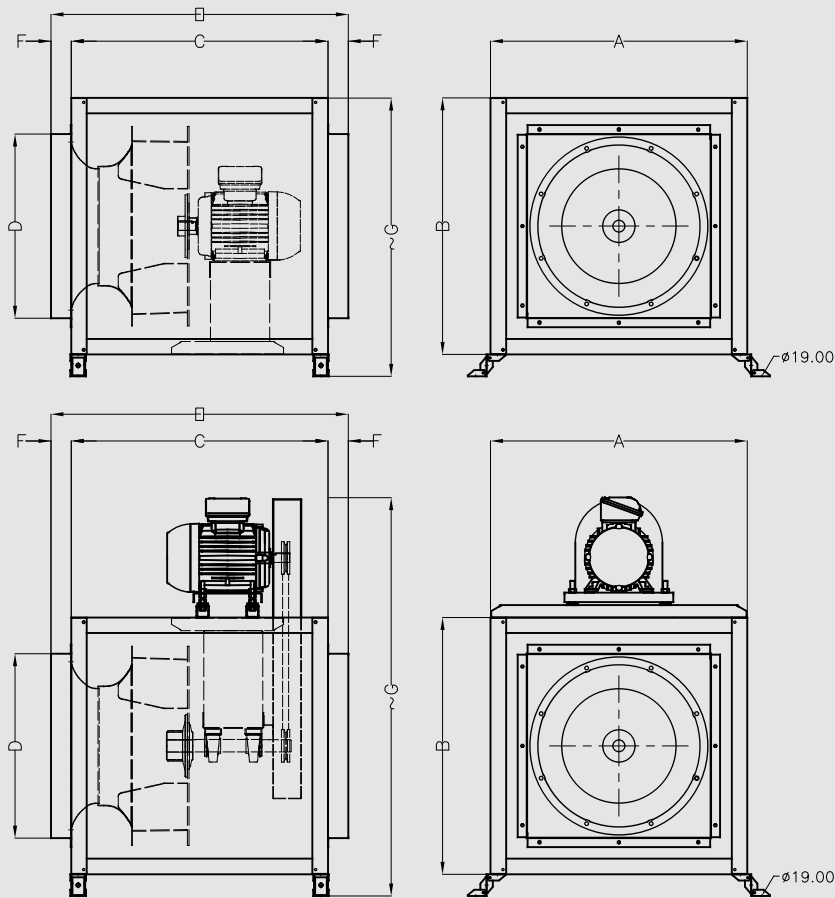


## Nomenclature

### CFC 450 - D - S - N



## Dimension



Model	A	B	C	D	E	F	G		Weight* (kg)	Max. Motor** Frame Size
							Direct Drive	Belt Drive		
CFC 315	475	475	585	354	715	65	515	845	63	90
CFC 355	525	525	655	388	785	65	565	895	78	90
CFC 400	585	585	735	432	868	65	625	975	90	100
CFC 450	655	655	655	470	887	65	695	1045	144	100
CFC 500	735	735	735	525	865	65	775	1155	154	112
CFC 560	825	825	825	590	955	65	865	1245	181	112
CFC 630	955	955	955	660	1085	65	1005	1440	212	132
CFC 710	1055	1055	1055	750	1185	65	1105	1540	272	132
CFC 800	1175	1175	1175	840	1305	65	1225	1660	320	132
CFC 900	1275	1275	1275	945	1405	65	1325	1865	340	160
CFC 1000	1455	1455	1455	1050	1610	65	1505	2045	480	160

\* Weight without motor and drive system.

\*\* Please consult KRUGER for details when motor frame size is beyond this range.

All dimension in mm.

### Example of Selection

Air Volume  $Q = 7710 \text{ m}^3/\text{h}$

Outlet Velocity  $V = 6.2 \text{ m/s}$

Dynamic Pressure  $P_d = 23.0 \text{ Pa}$

Total Pressure  $P_t = 730 \text{ Pa}$

Fan Speed  $N = 1450 \text{ rpm}$

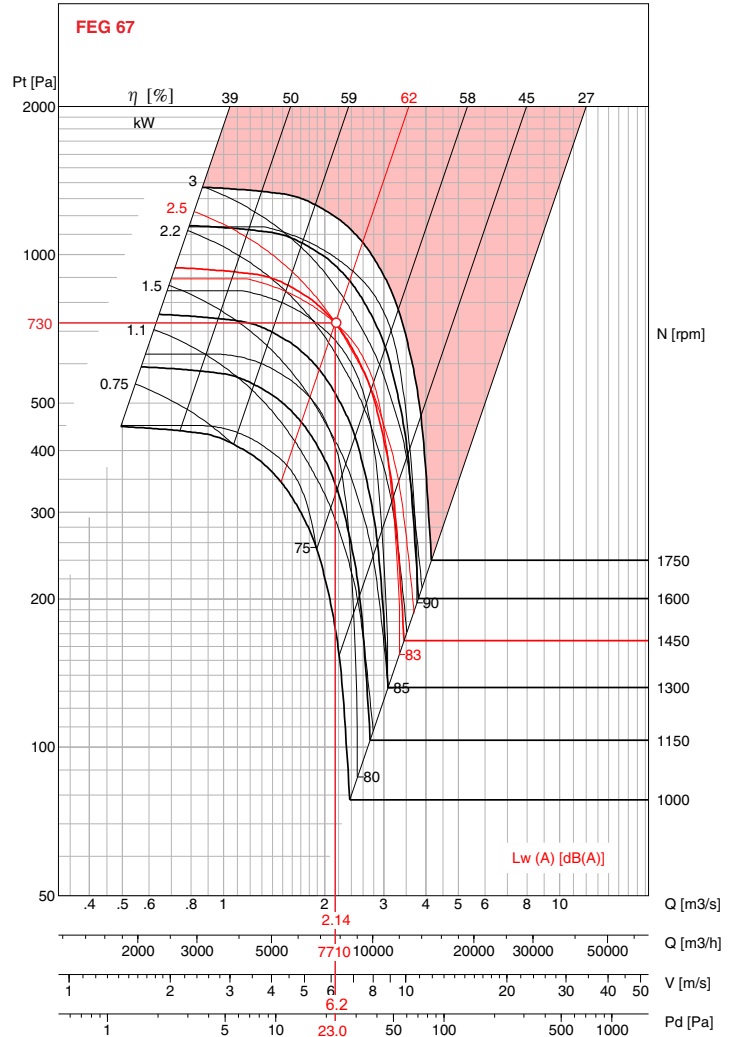
Absorbed Power  $W = 2.5 \text{ kW}$

Total Efficiency  $\eta = 62 \%$

Sound Power Level  $L_w(A) = 83 \text{ dB(A)}$



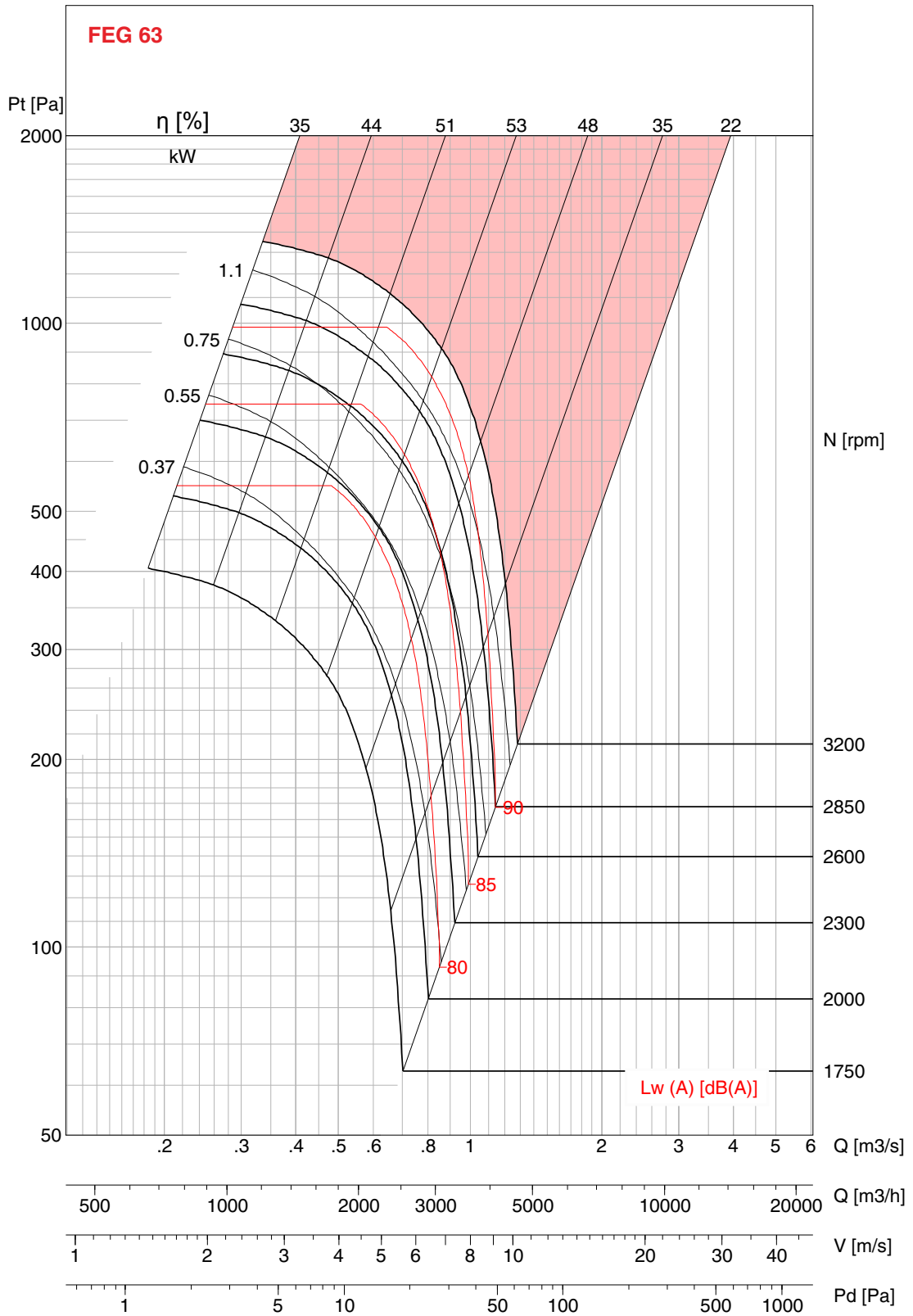
### CFC 560 (90)



- Performance certified is for Installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (belt cover). Power rating kW does not include transmission losses.  
 - The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation type D - Ducted inlet, Ducted outlet. Ratings include the effects of duct end correction.



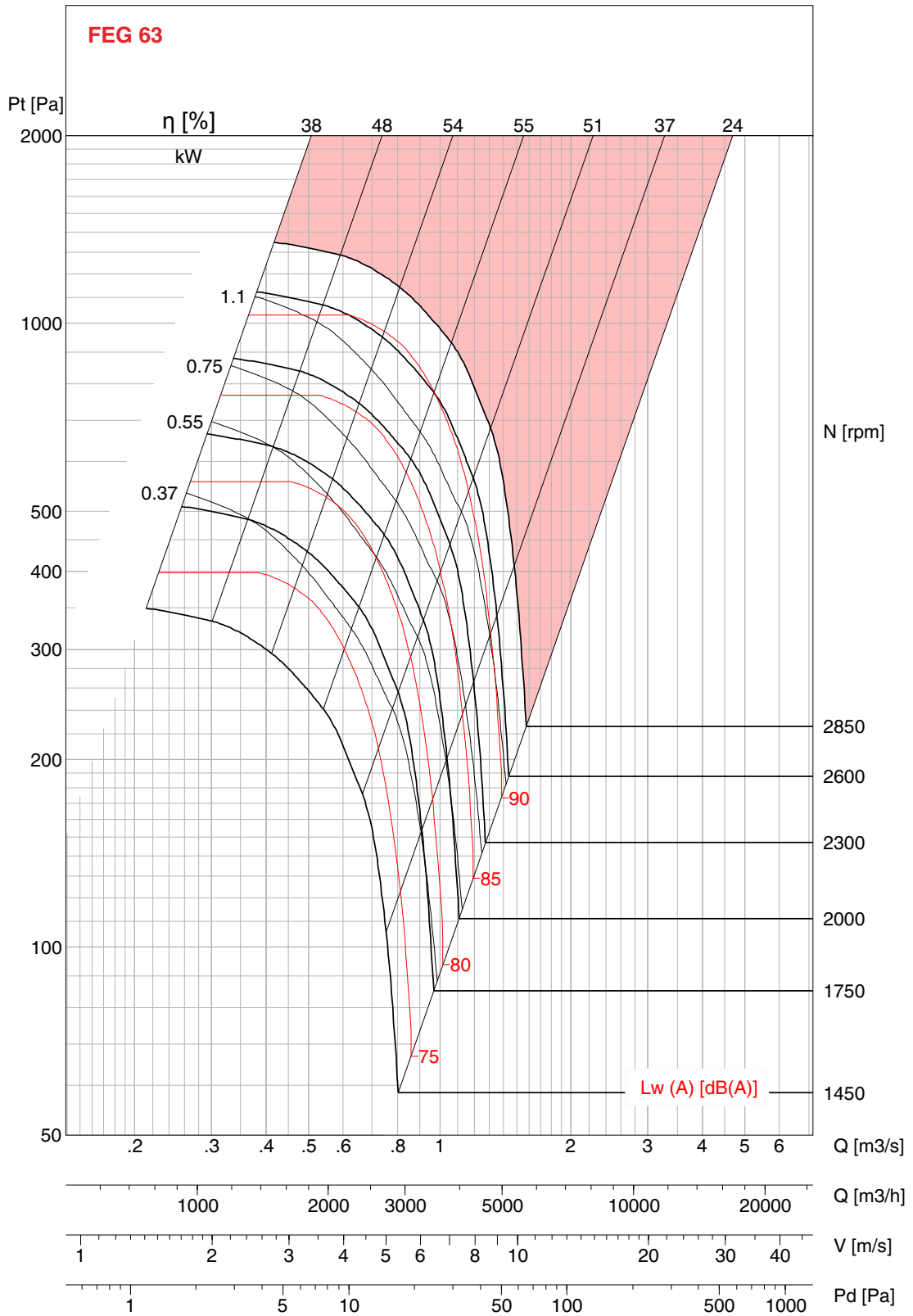
# CFC 315 (90)



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# CFC 355 (90)

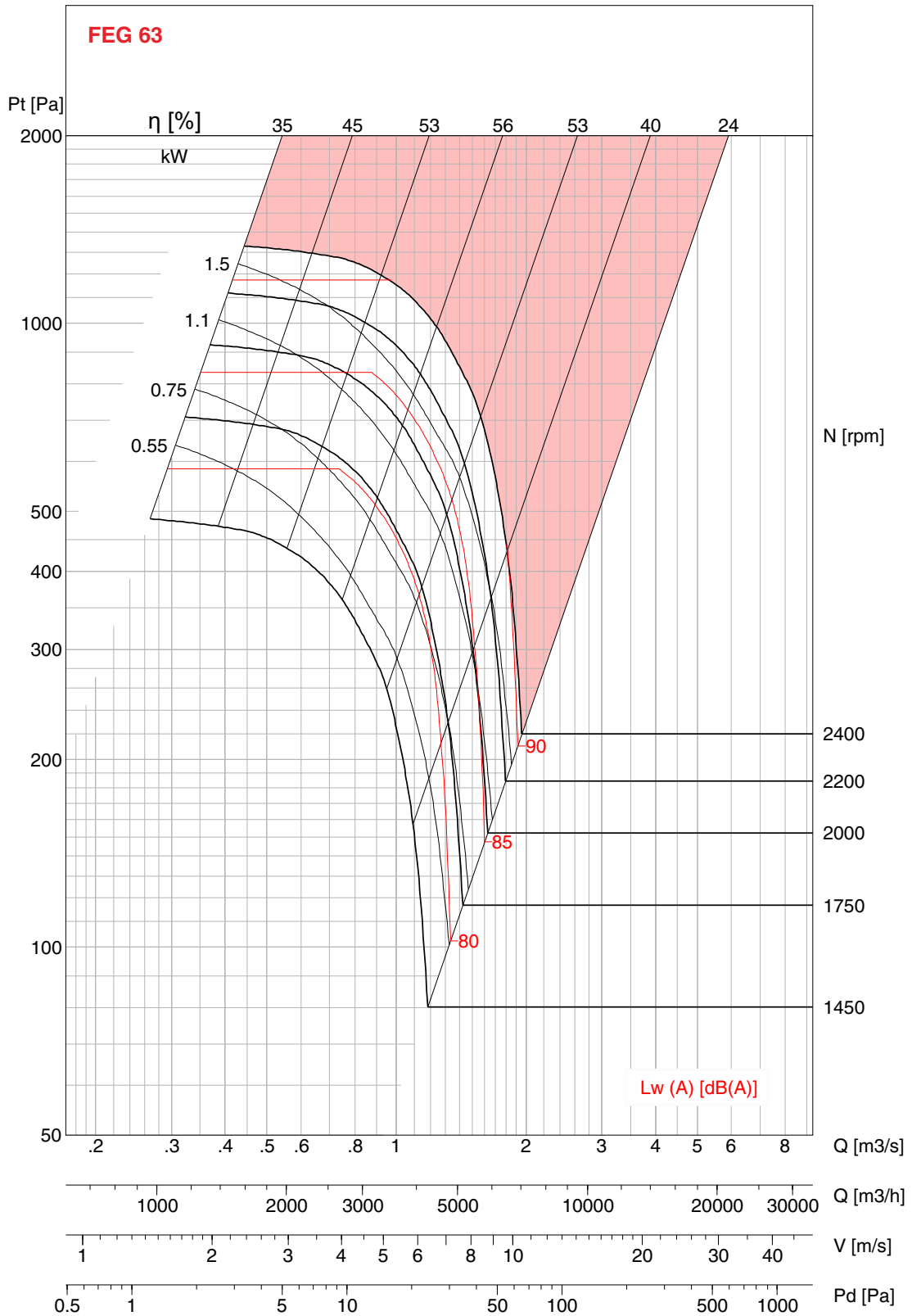


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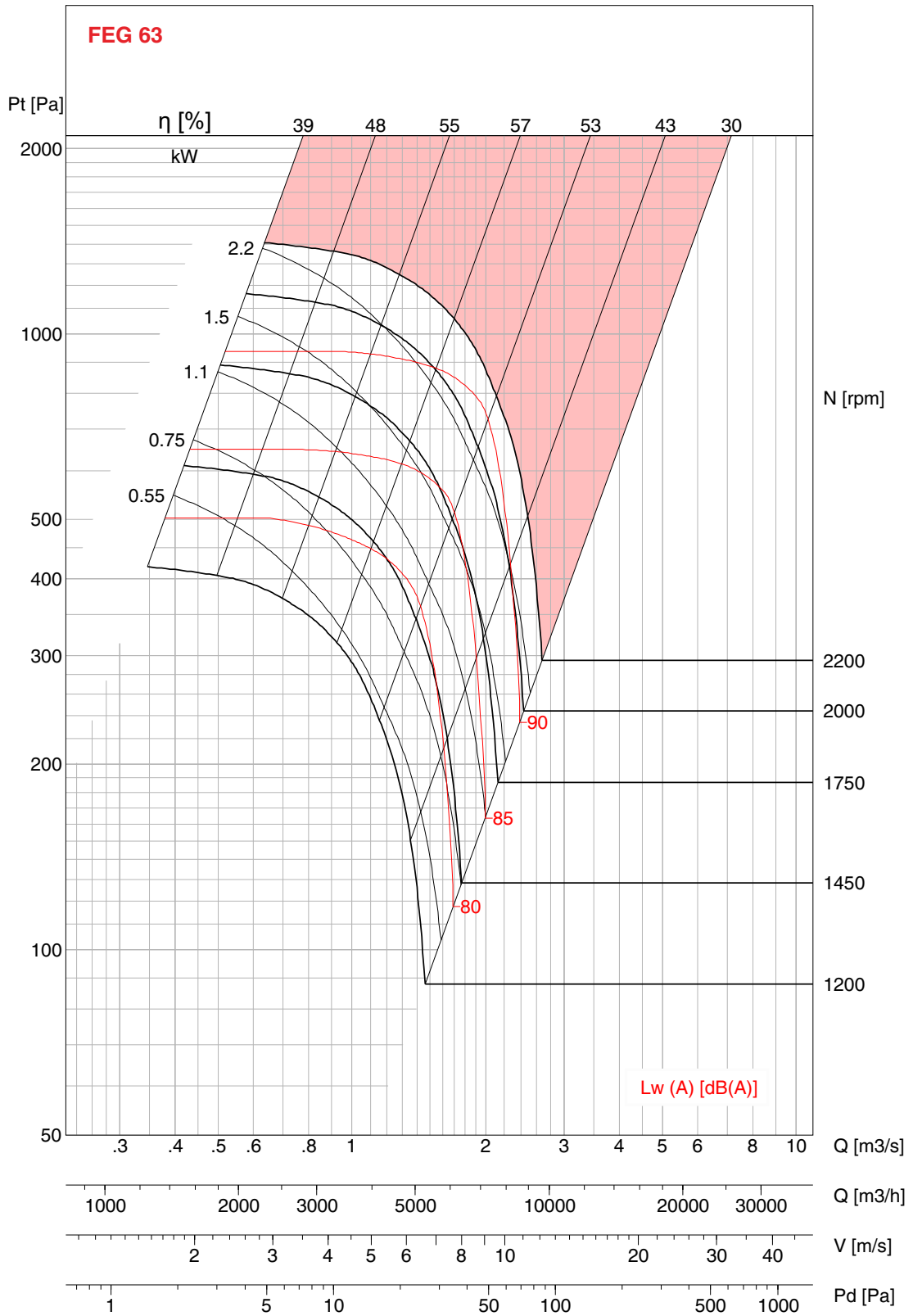
# CFC 400 (90)



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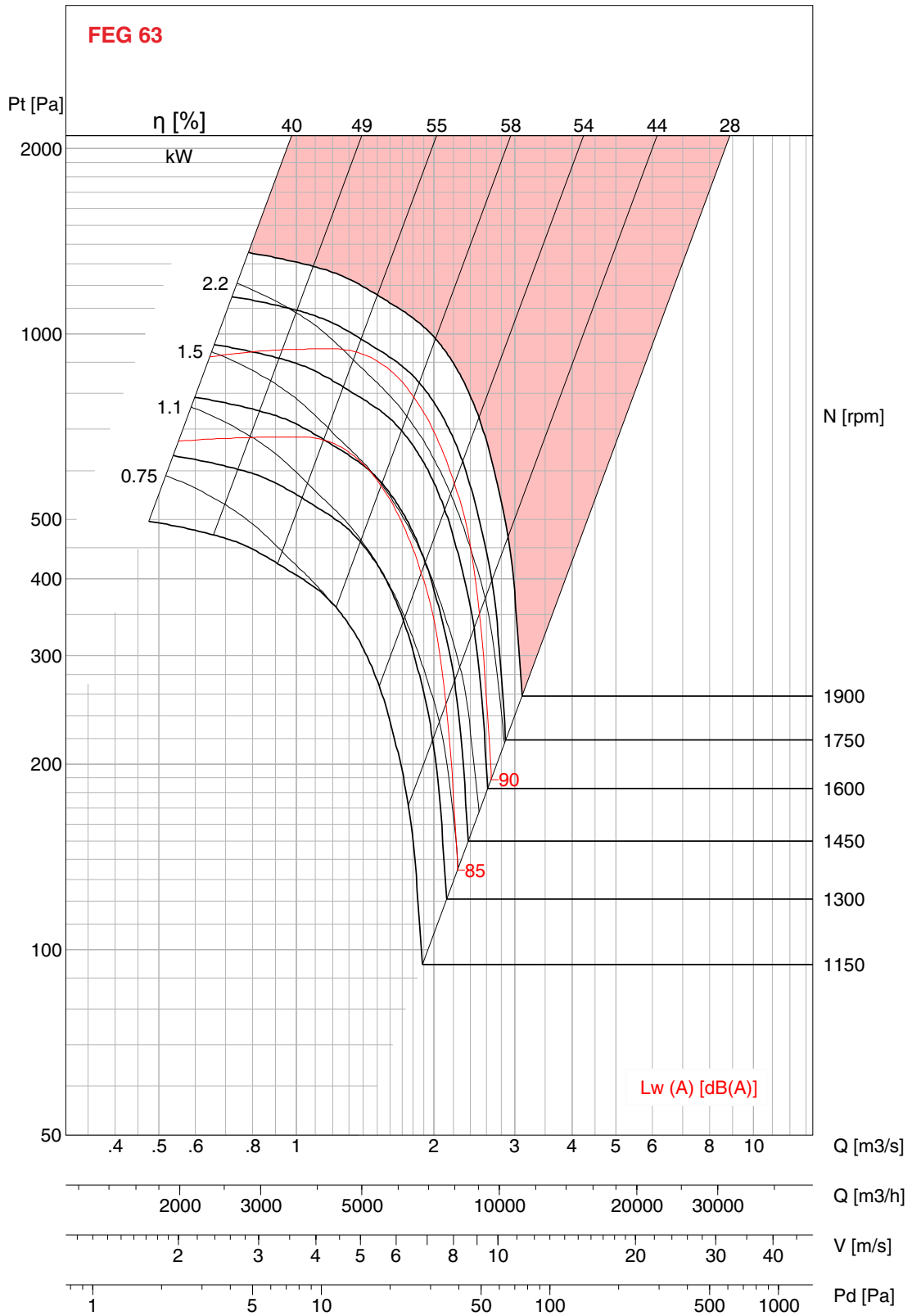
# CFC 450 (90)



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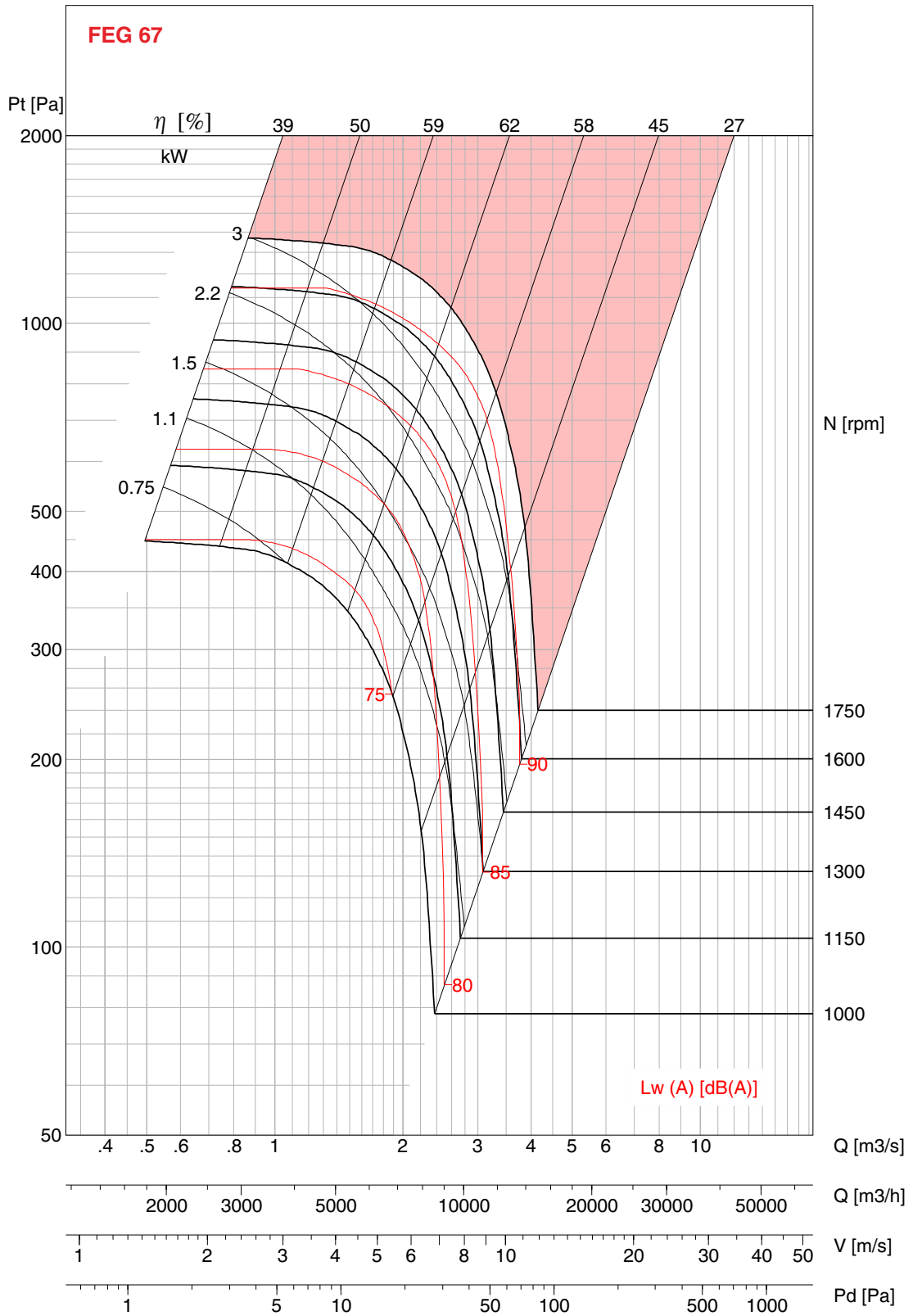
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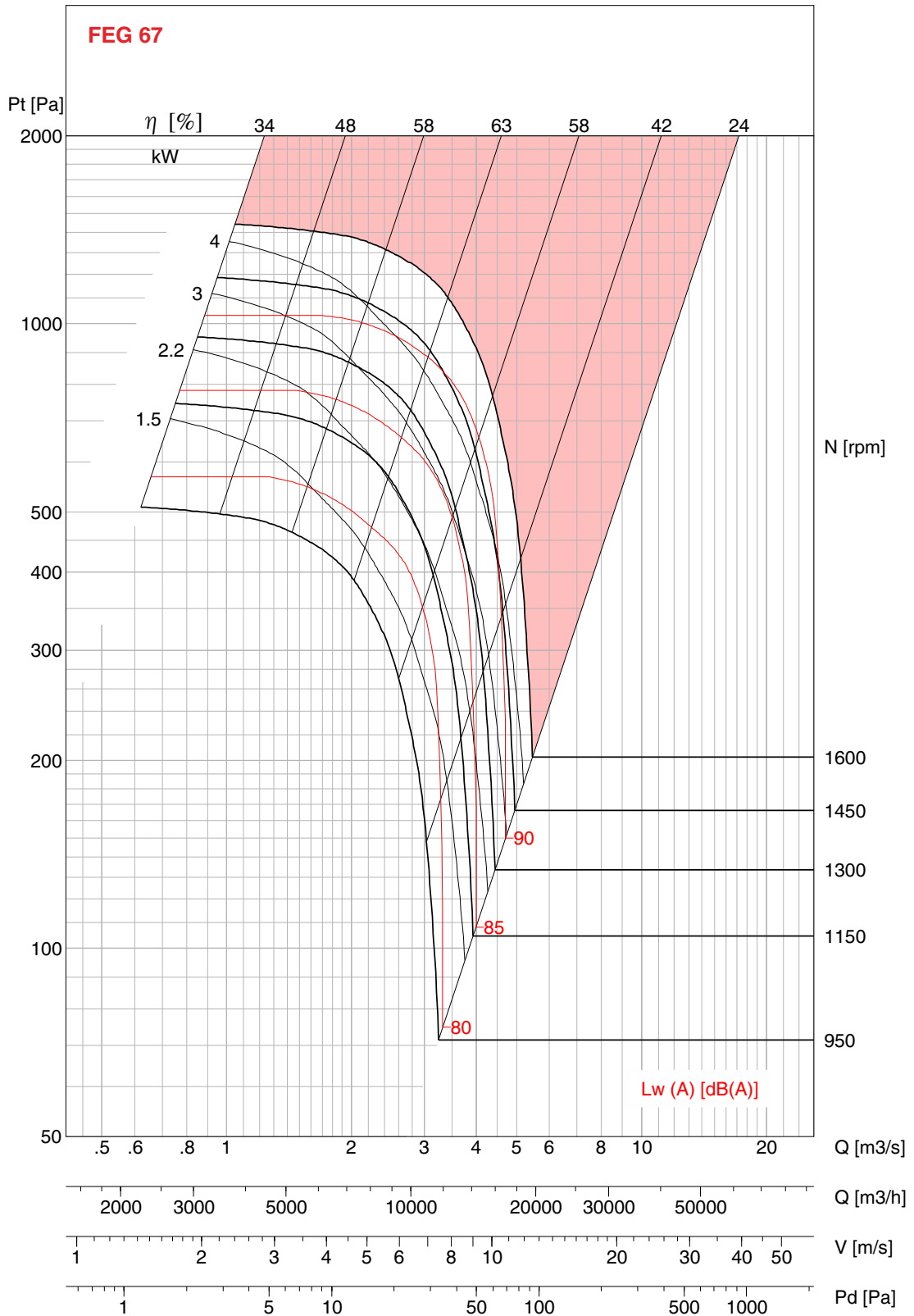
# CFC 560 (90)



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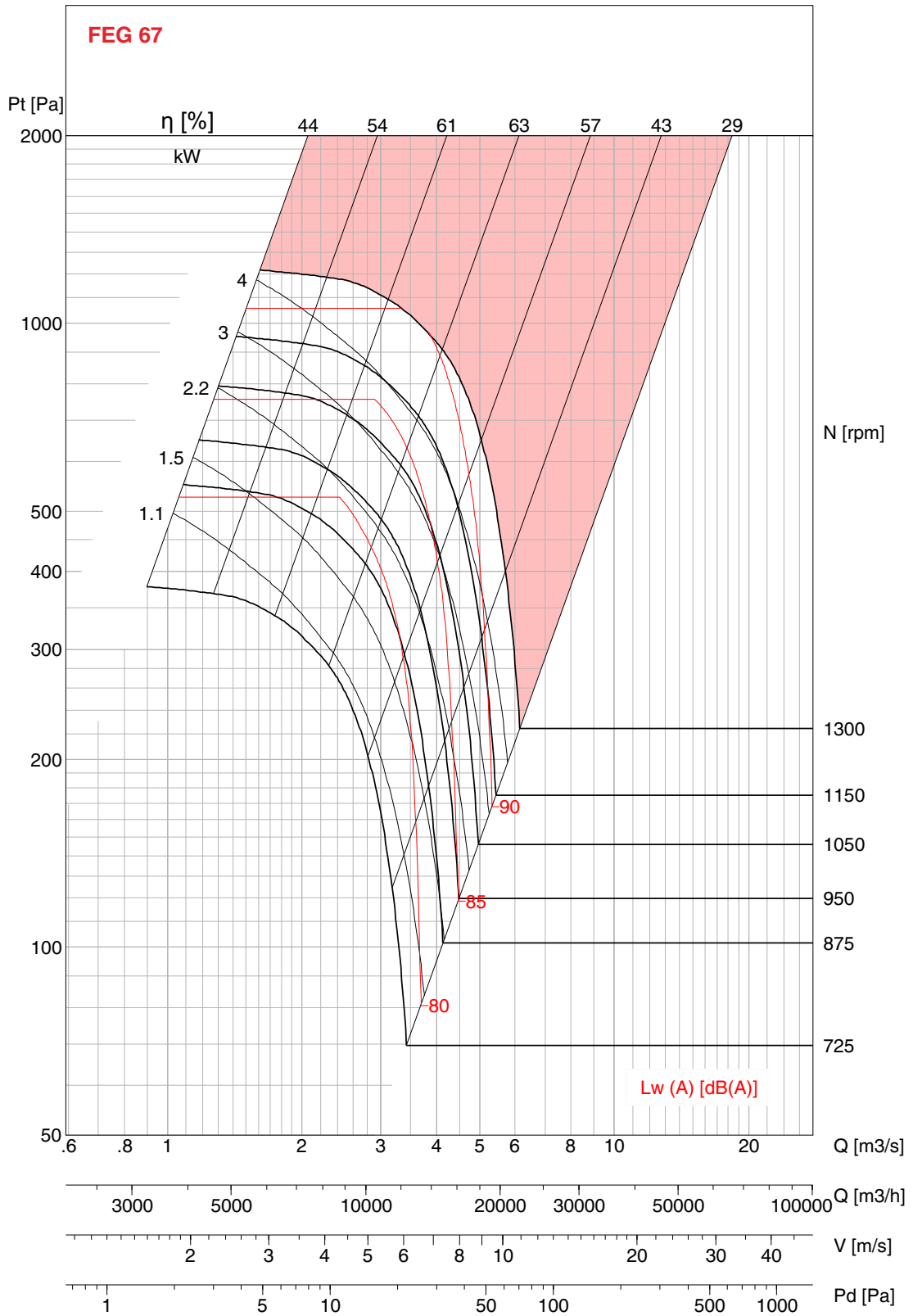
# CFC 630 (90)



- Performance certified is for Installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (belt cover). Power rating kW does not include transmission losses.  
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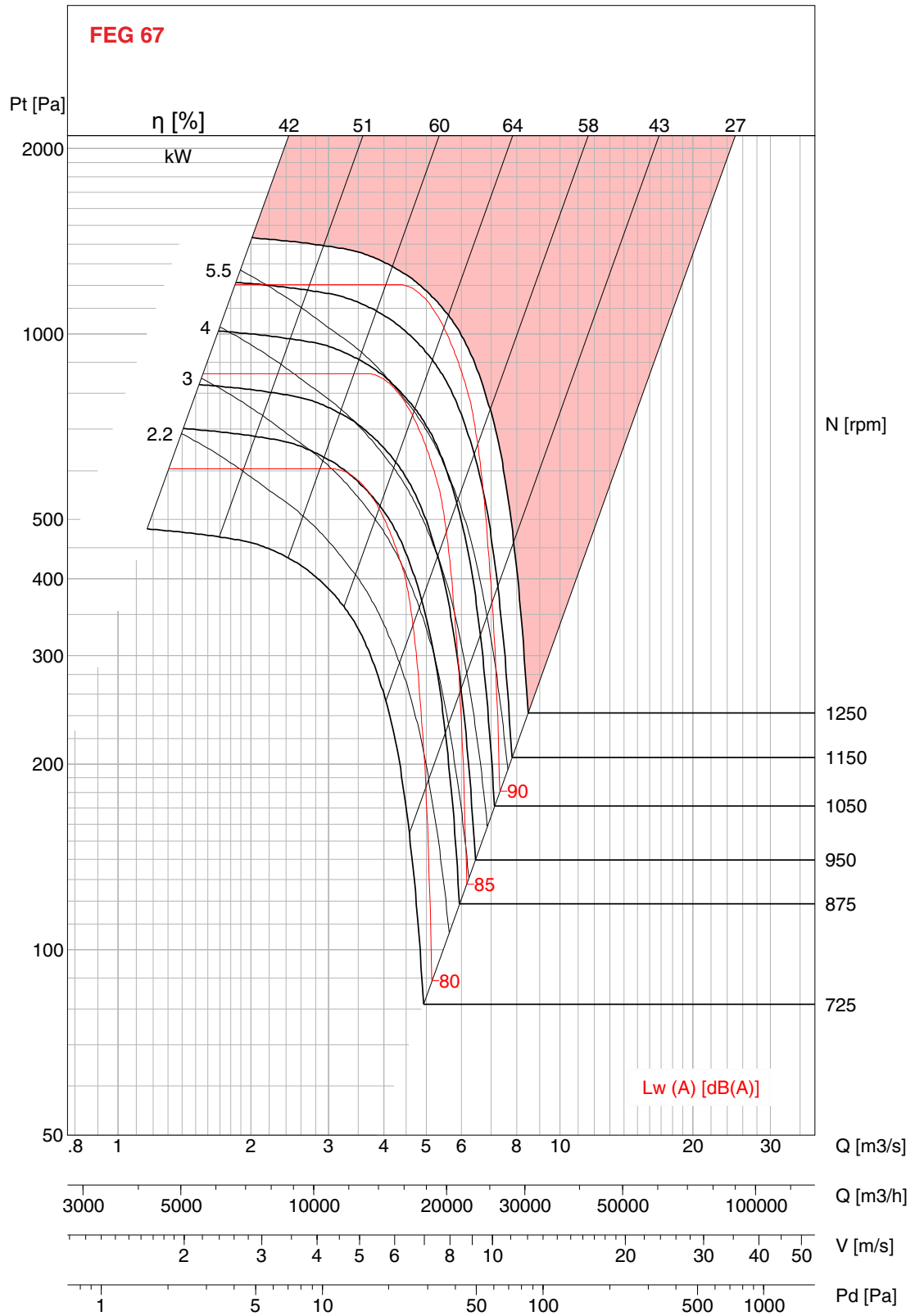
# CFC 710 (90)



- Performance certified is for Installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (belt cover). Power rating kW does not include transmission losses.  
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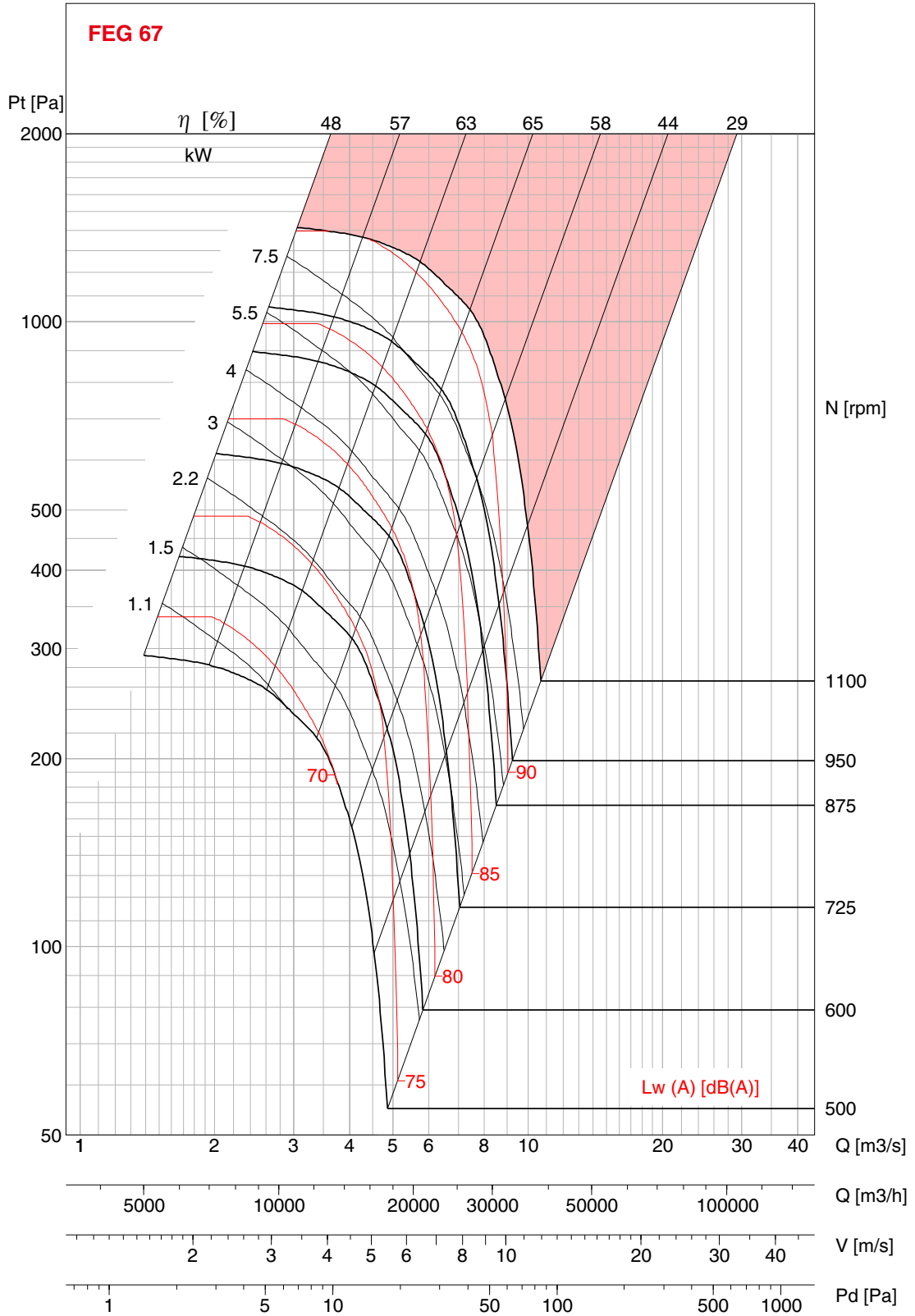
# CFC 800 (90)



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# CFC 900 (90)

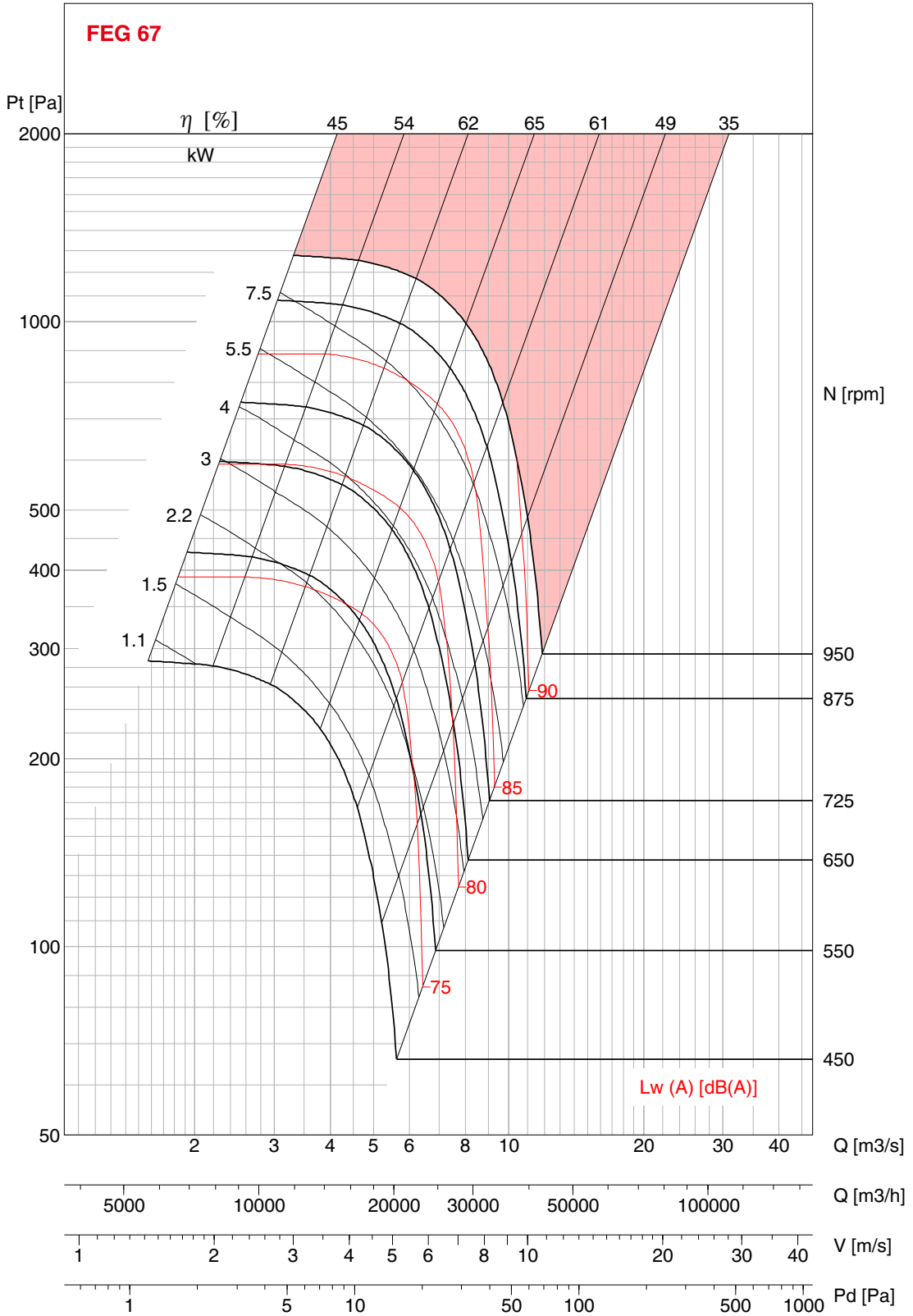


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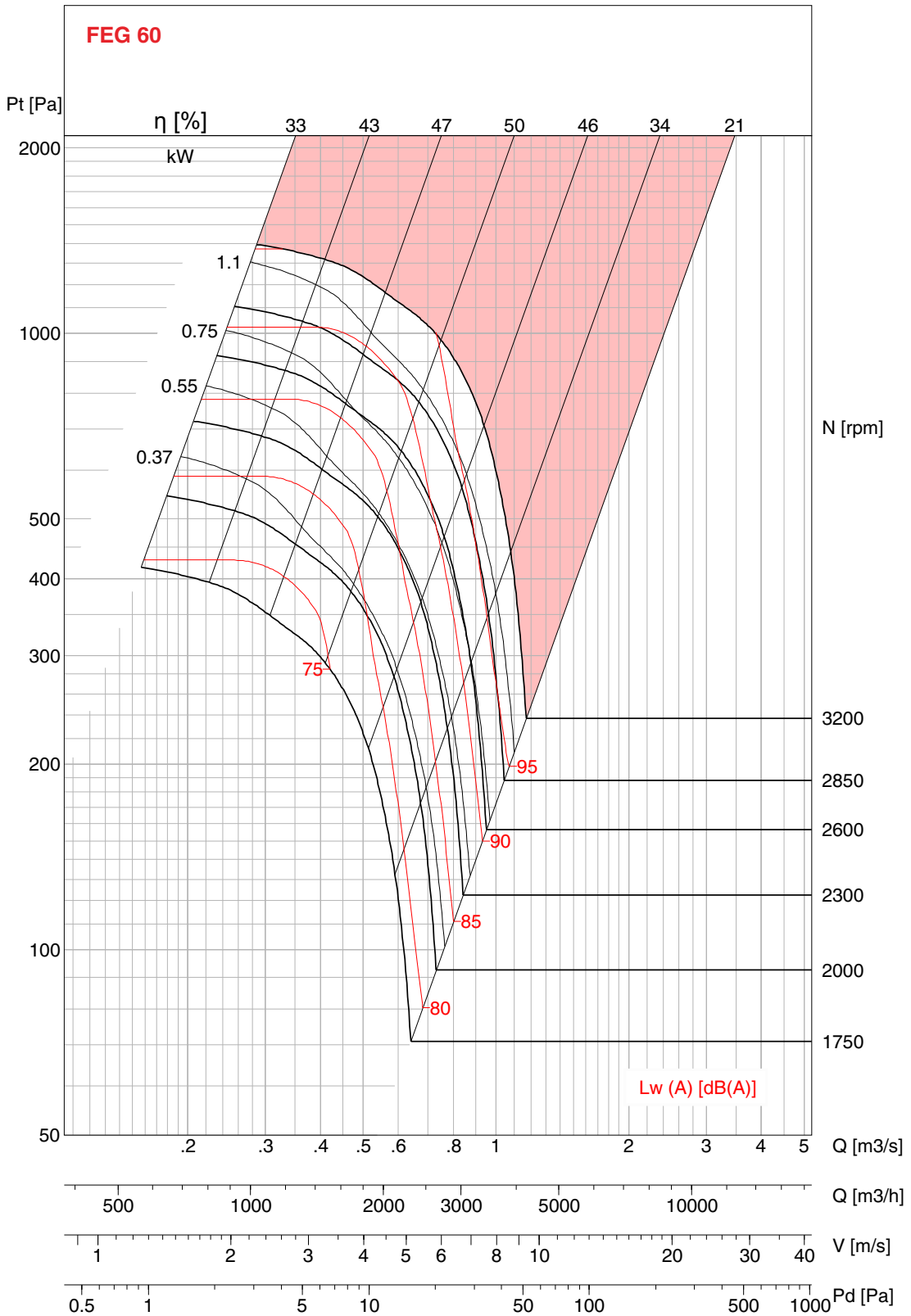
# CFC 1000 (90)



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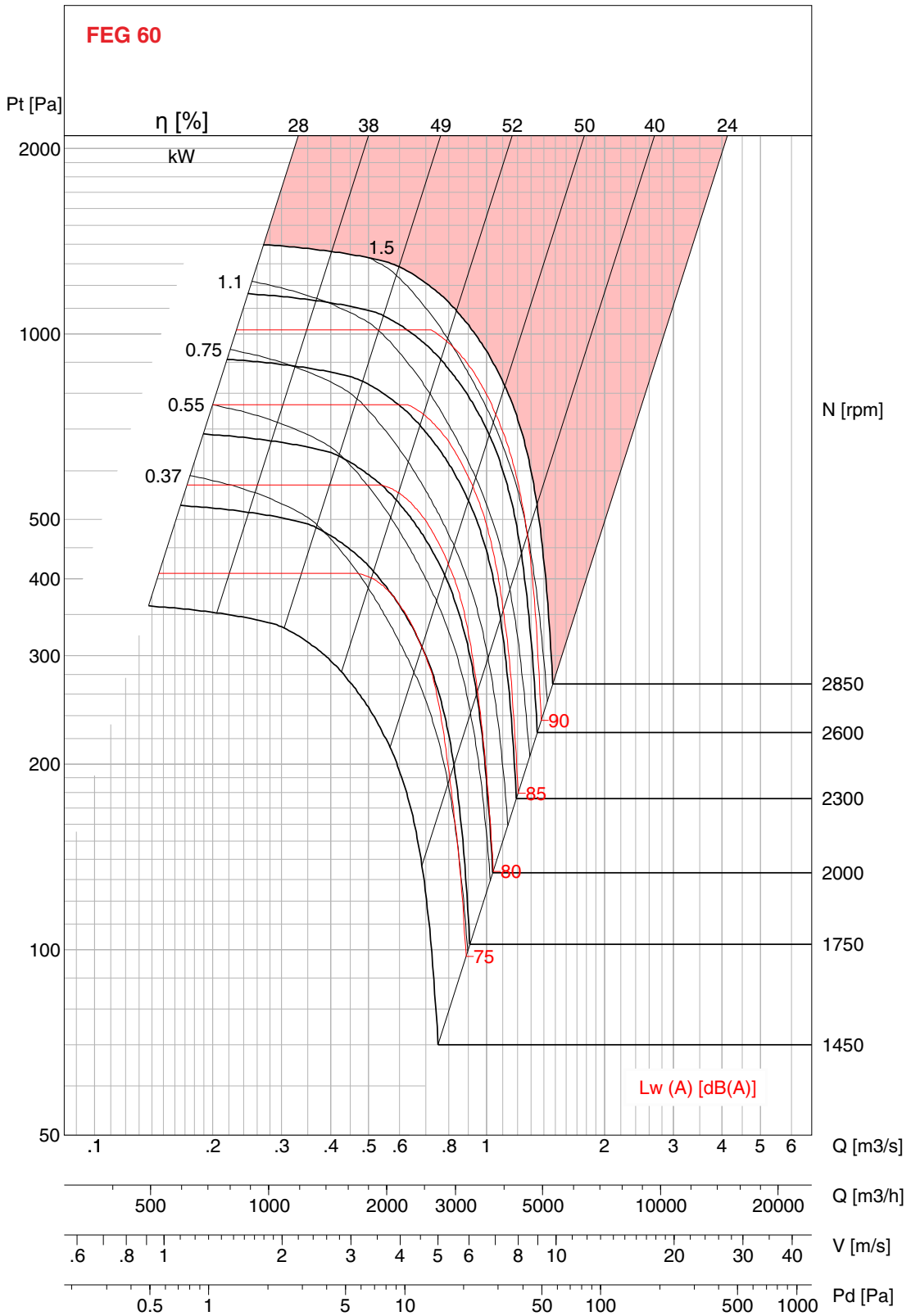
# CFC 315 (180)



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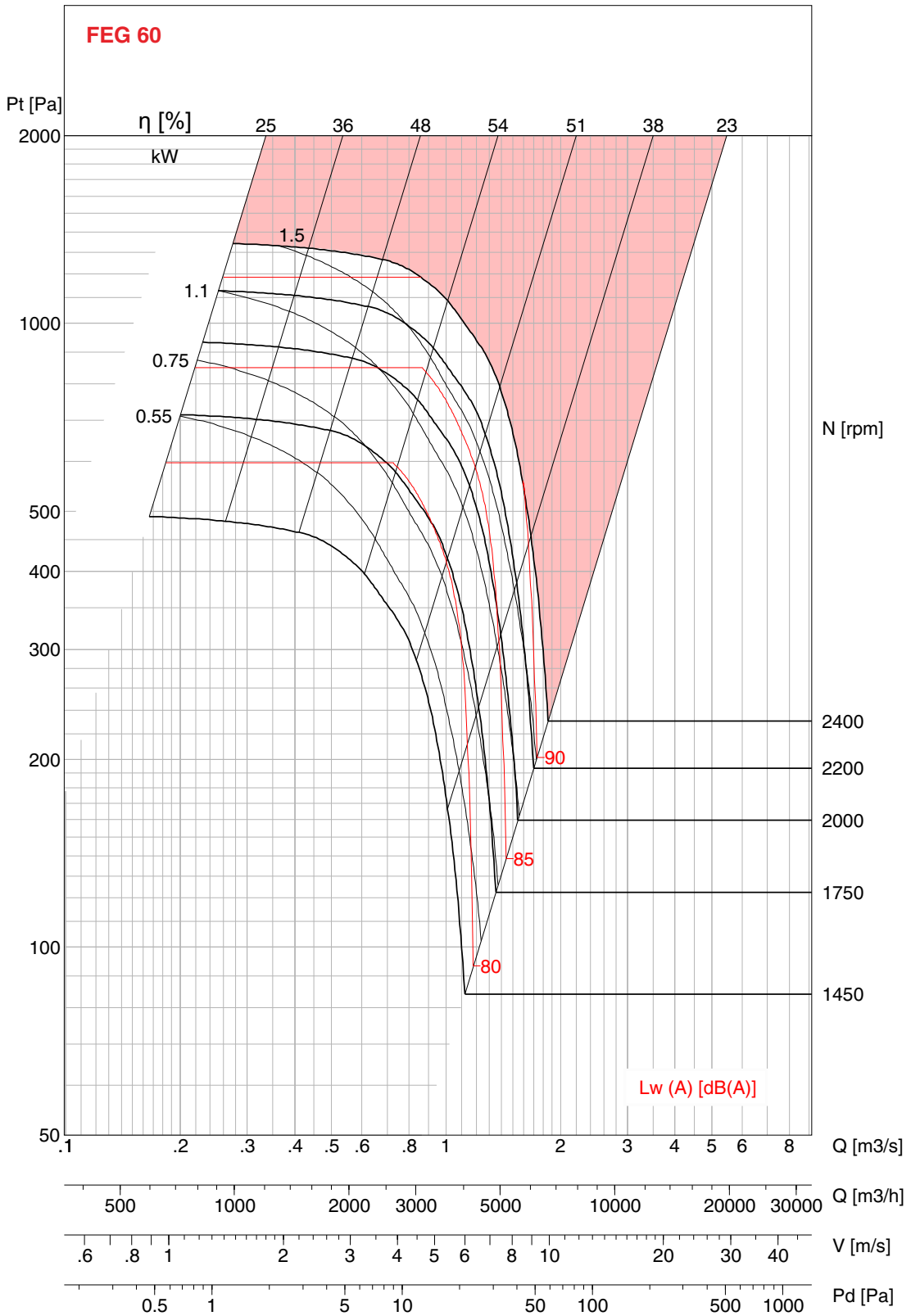
# CFC 355 (180)



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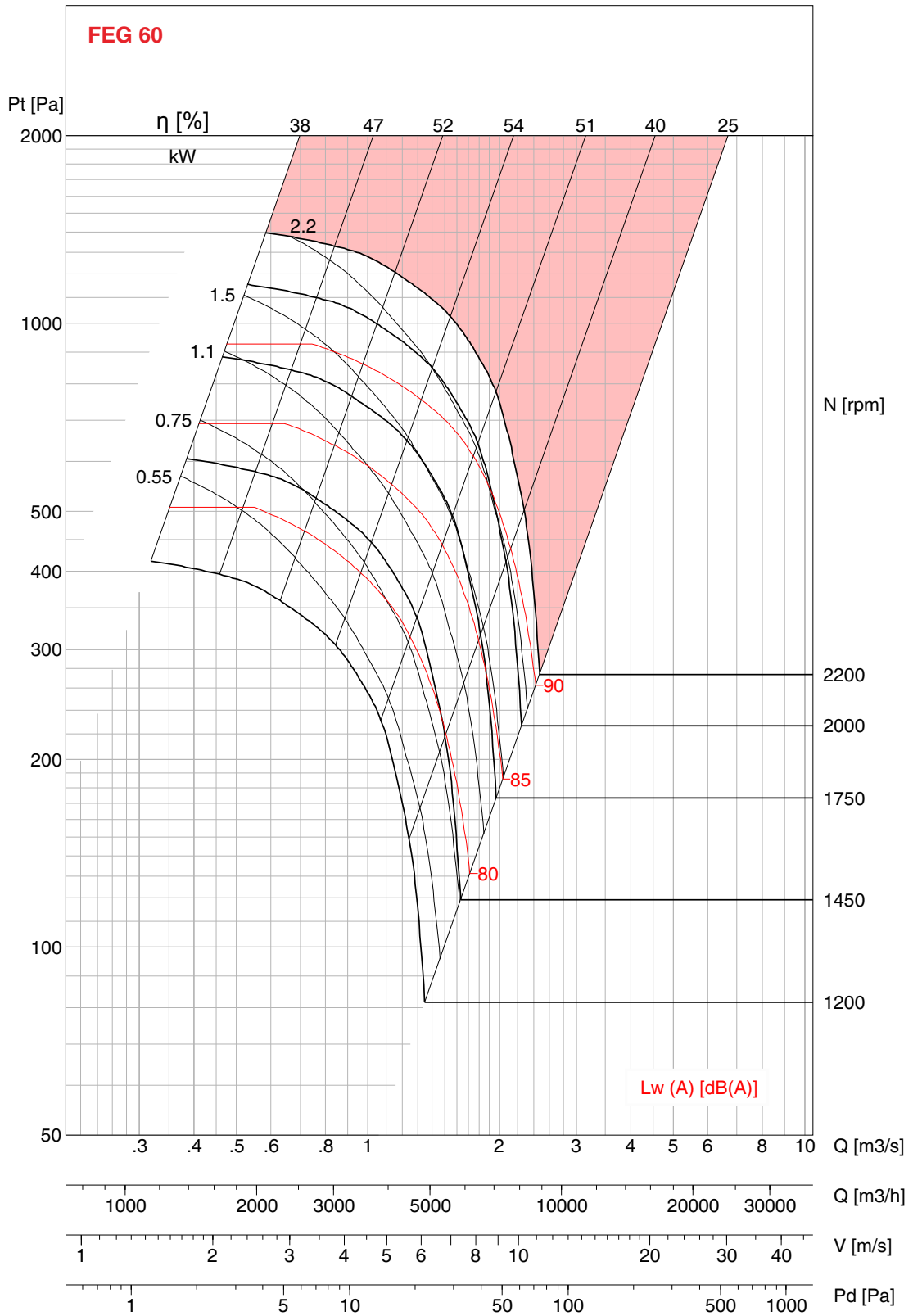
# CFC 400 (180)



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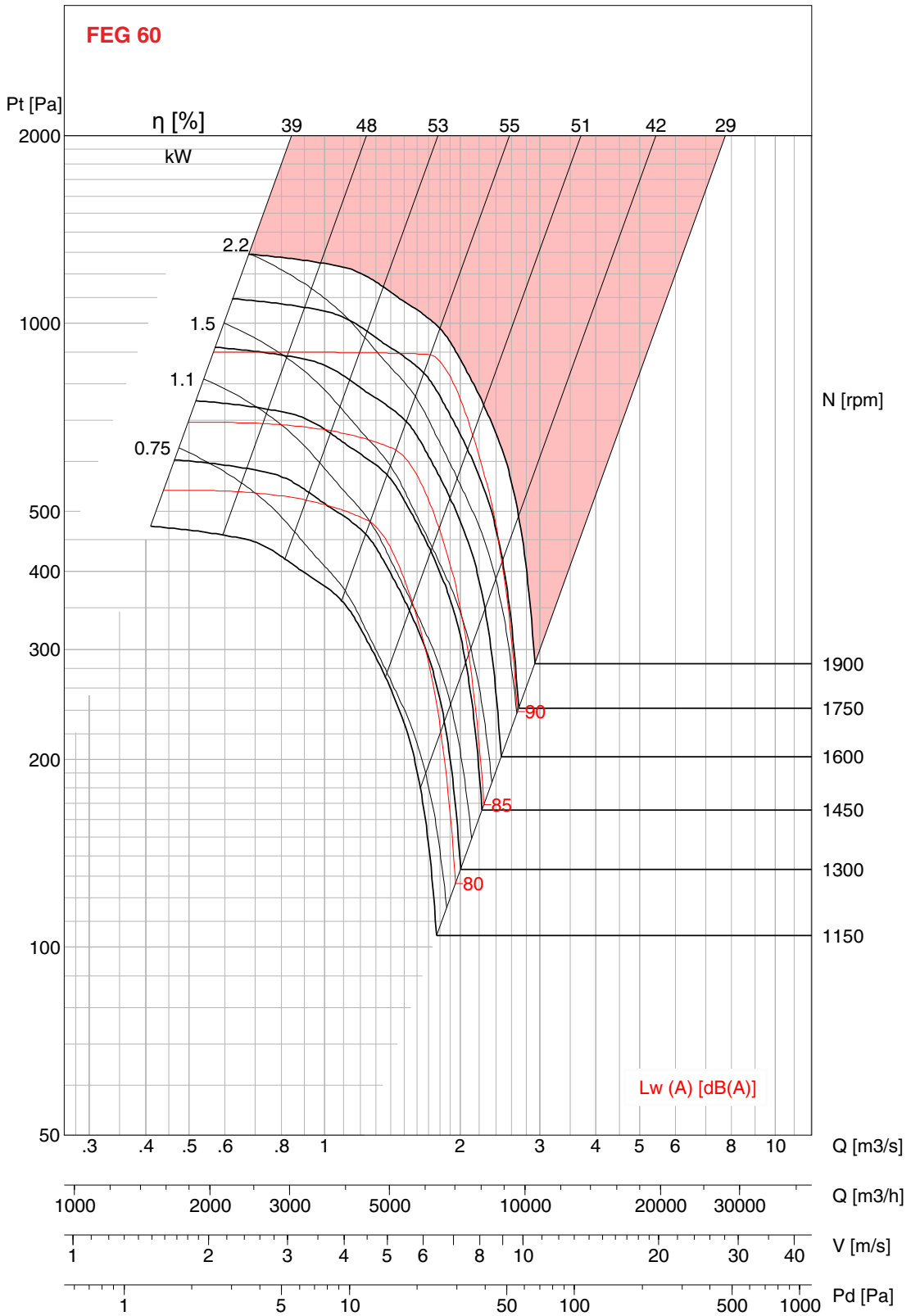
# CFC 450 (180)



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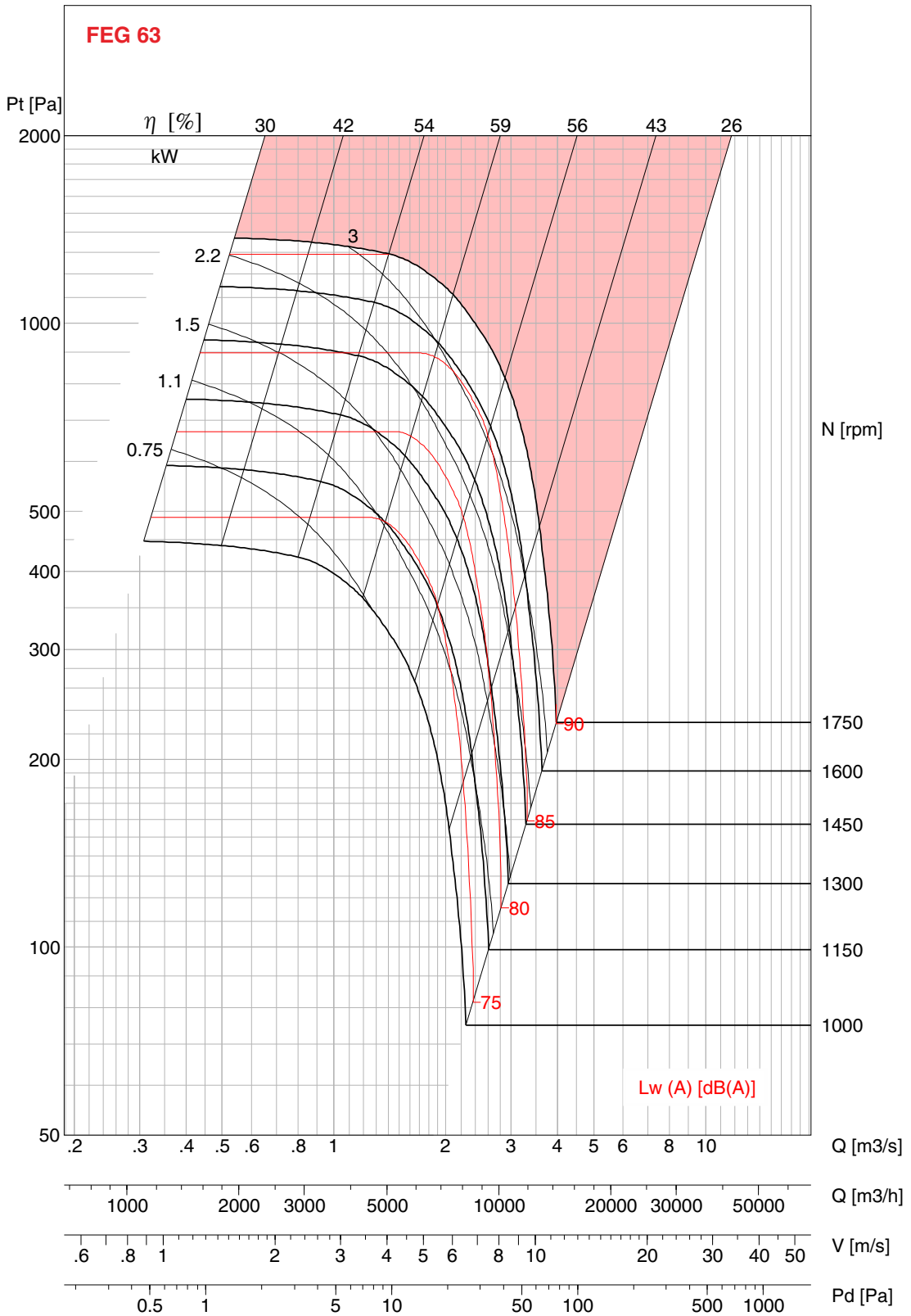
# CFC 500 (180)



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# CFC 560 (180)

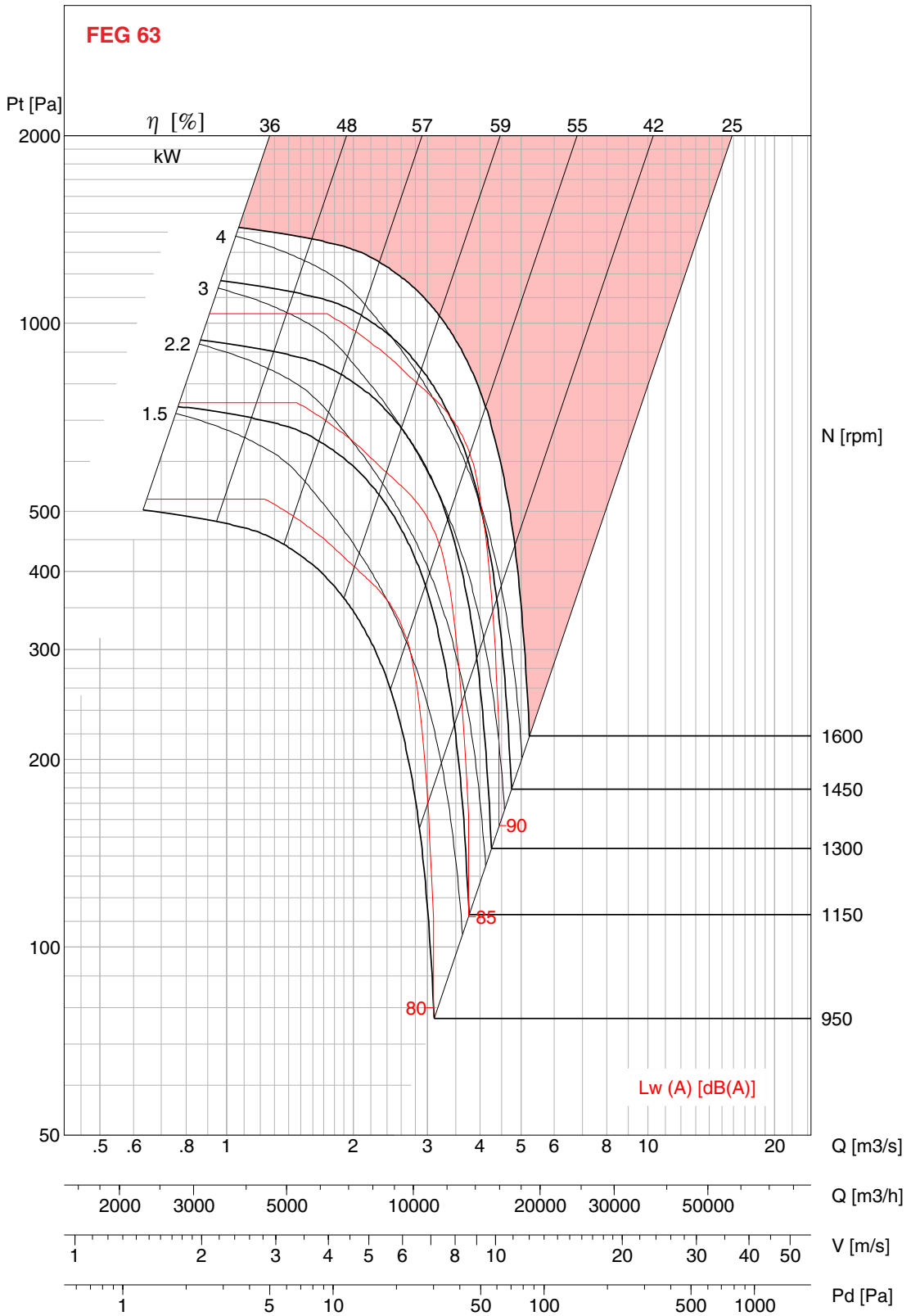


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# CFC 630 (180)

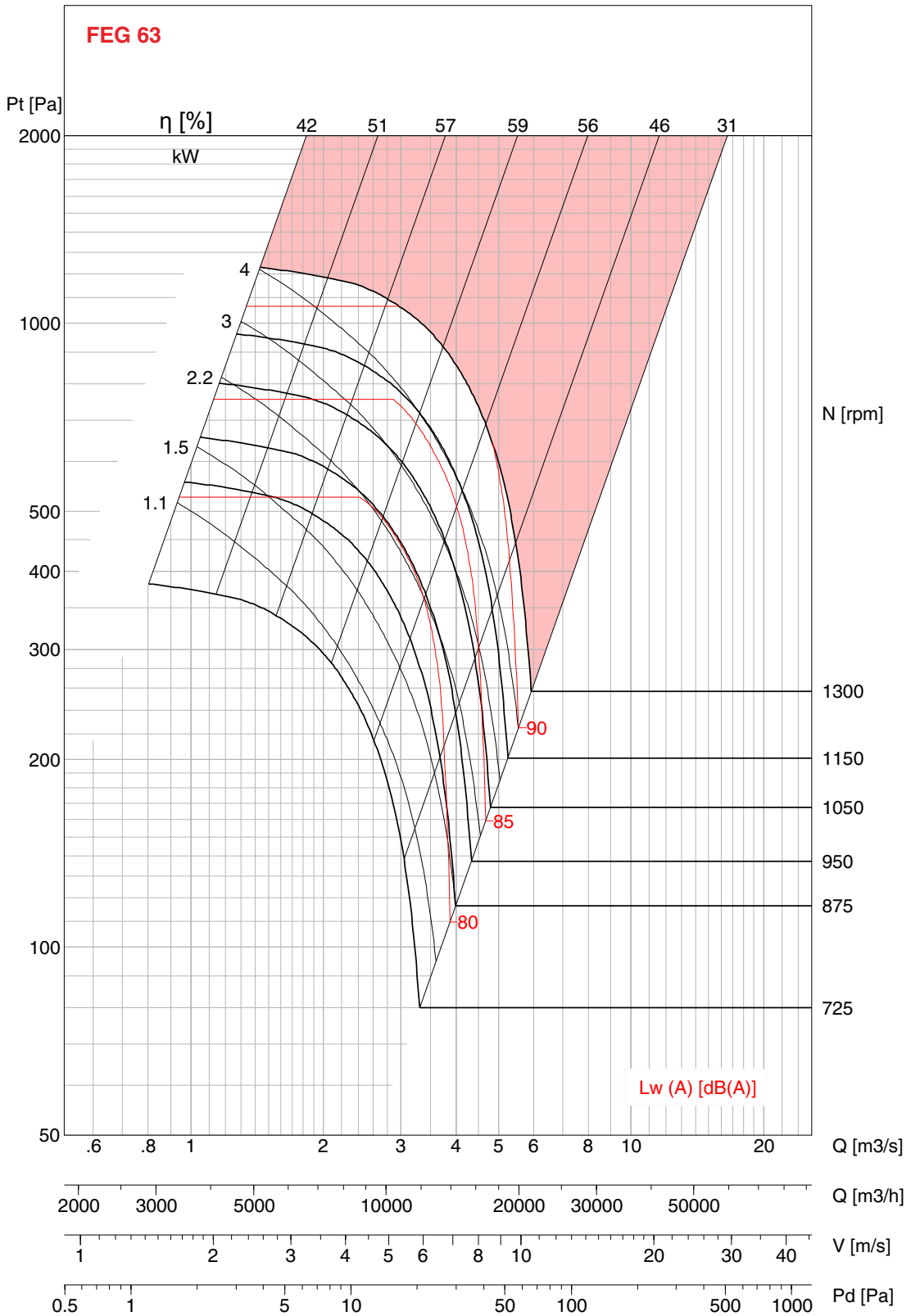


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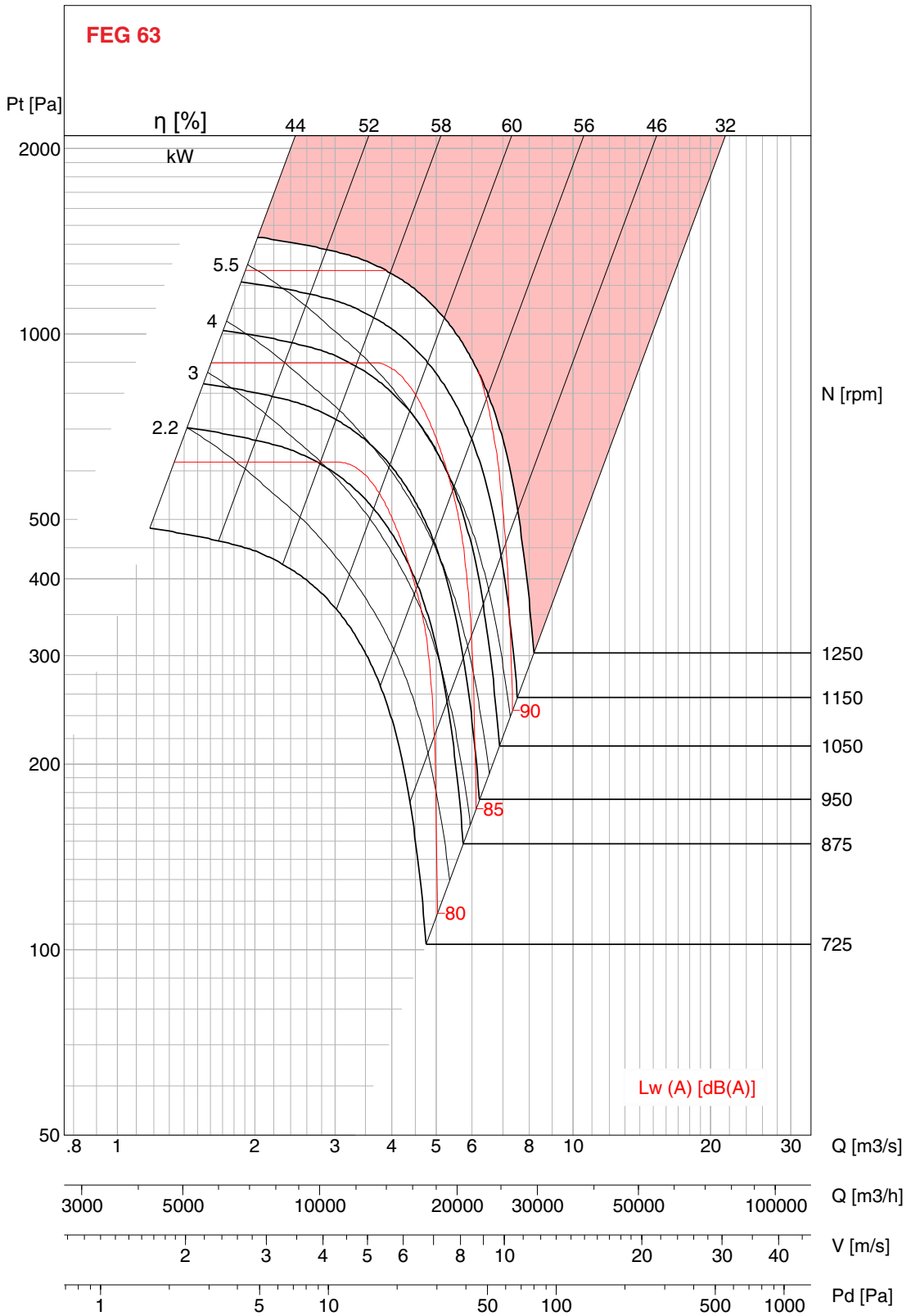
# CFC 710 (180)



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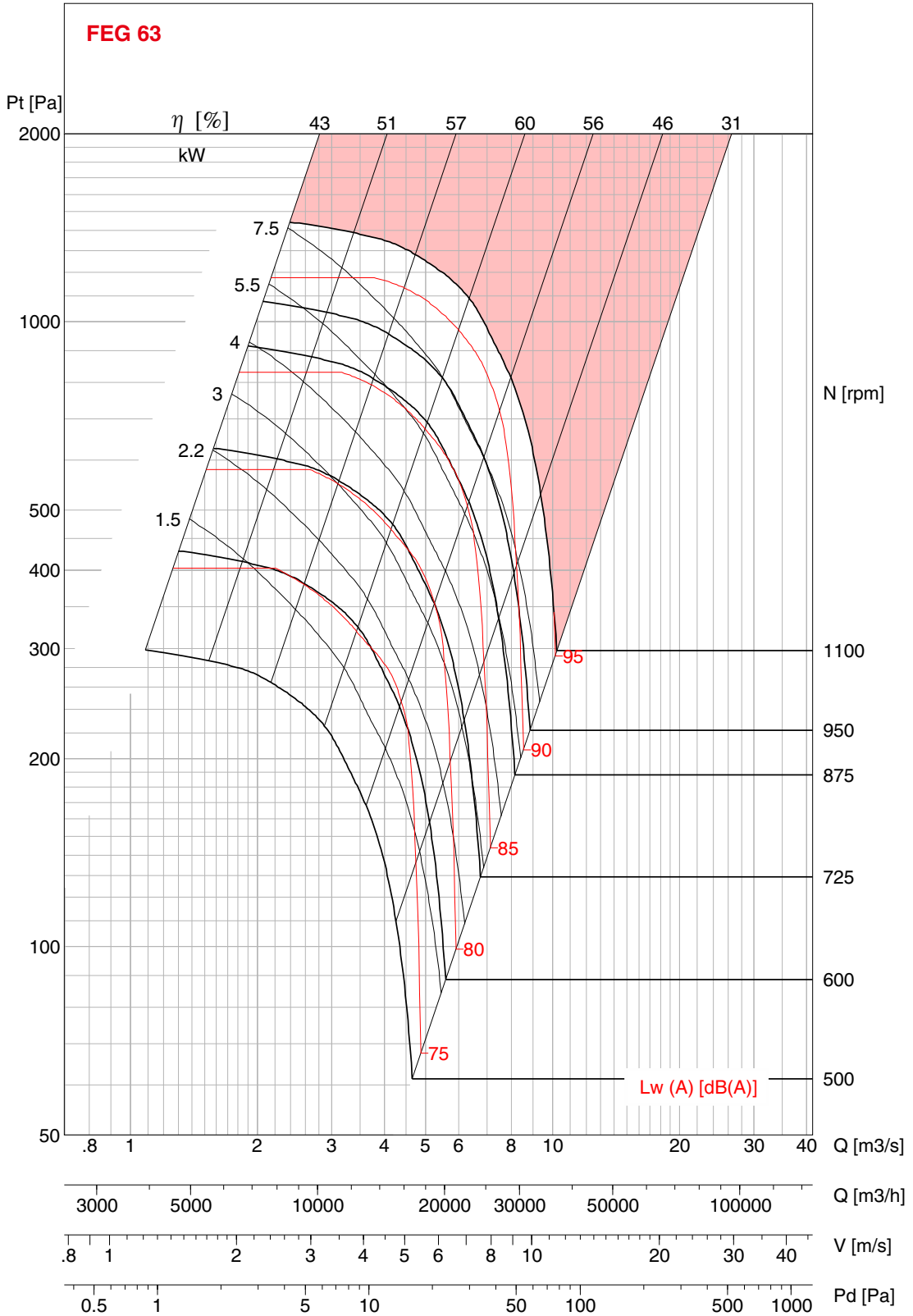
# CFC 800 (180)



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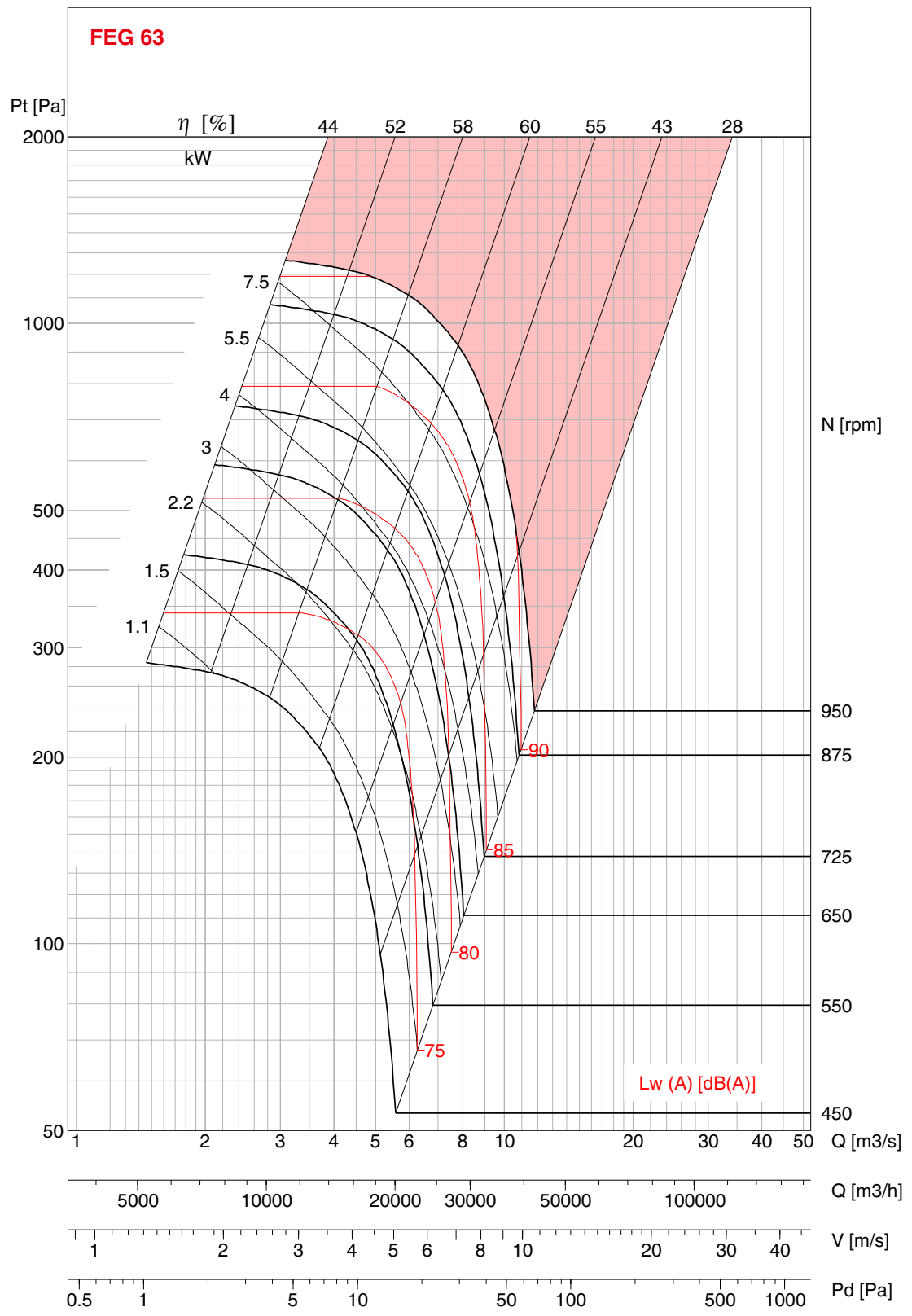
# CFC 900 (180)



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 - The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi (A) sound power levels for installation type D - Ducted inlet, Ducted outlet. Ratings include the effects of duct end correction.



# CFC 1000 (180)

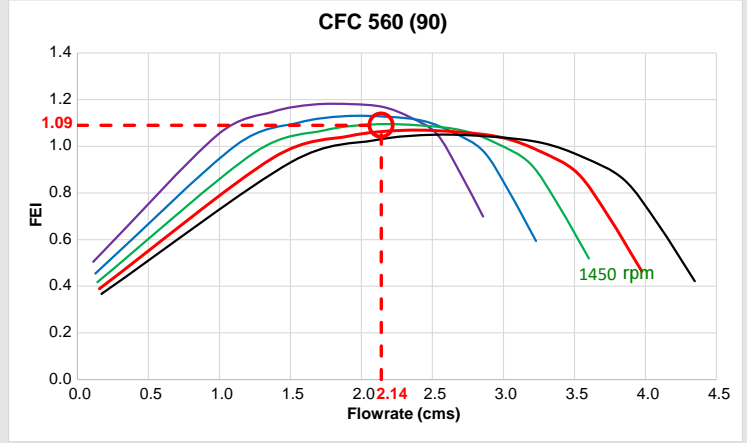


- Performance certified is for Installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (belt cover). Power rating kW does not include transmission losses.  
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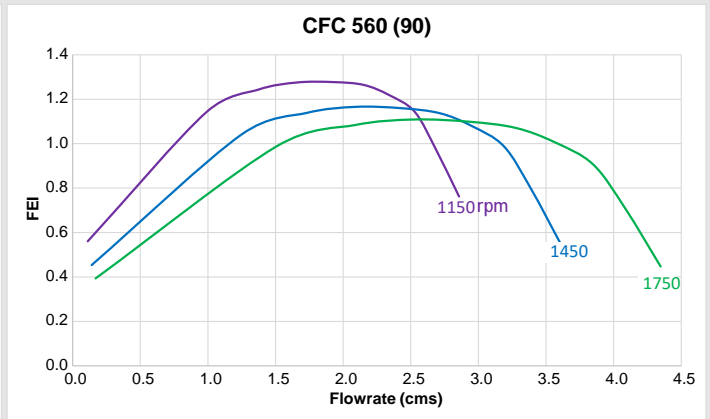
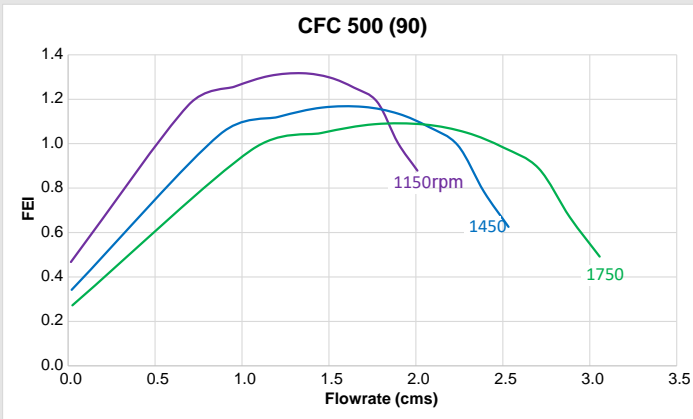
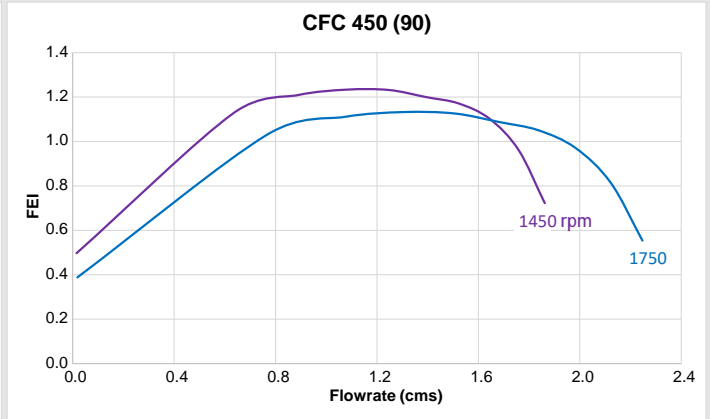
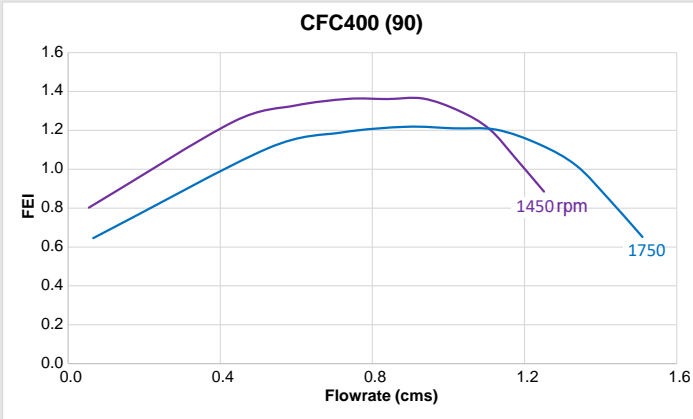
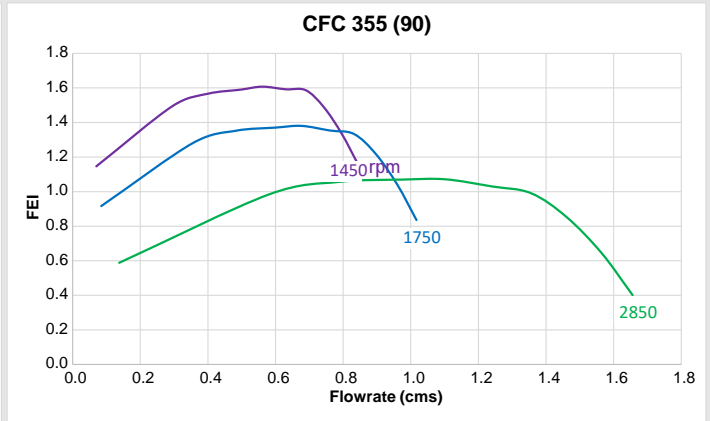
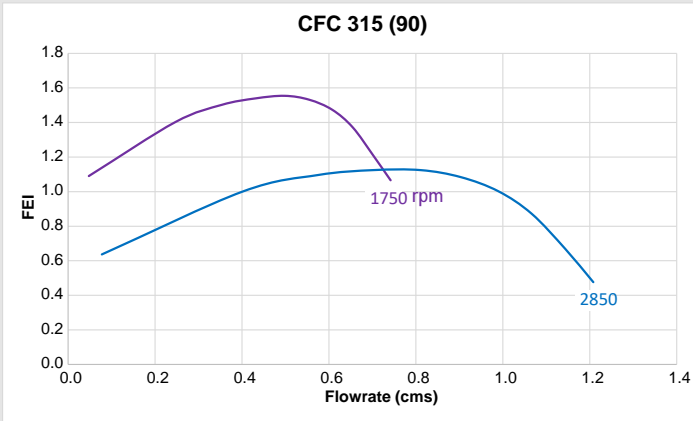
# Fan Energy Index

## Example of FEI Selection

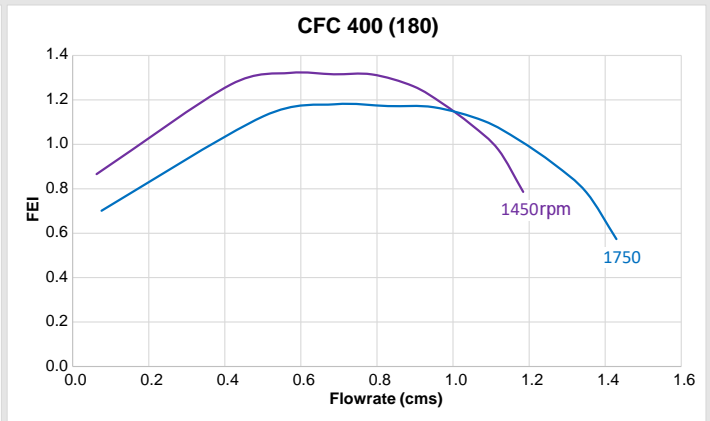
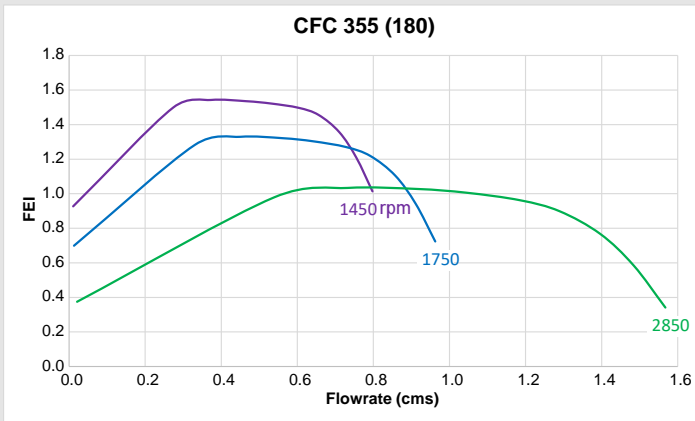
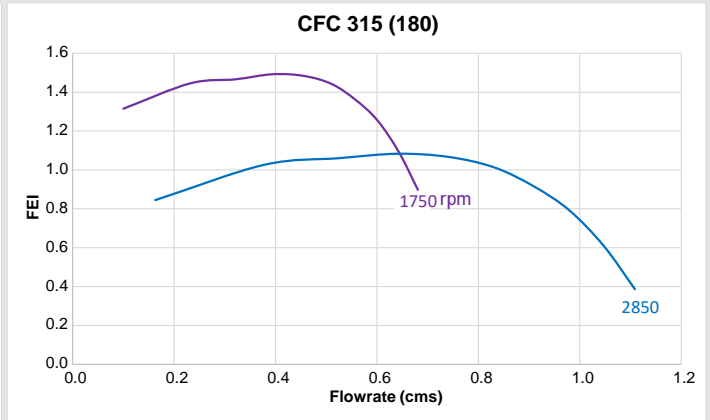
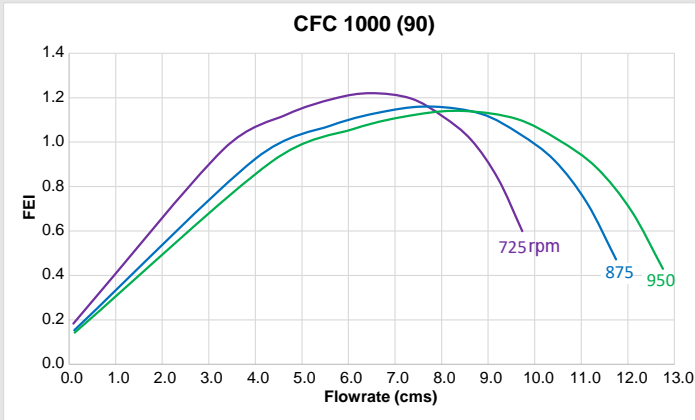
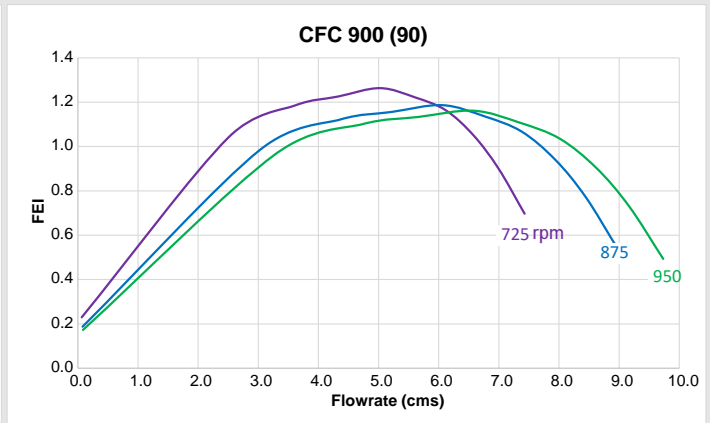
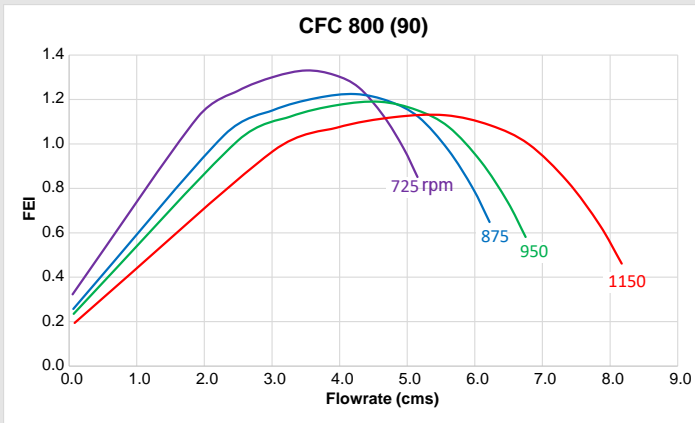
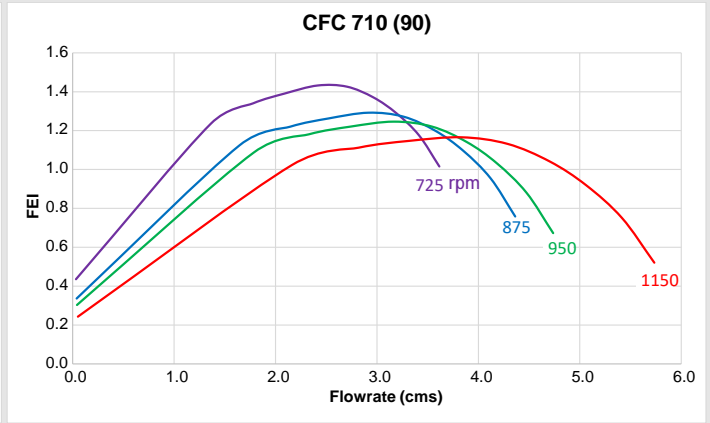
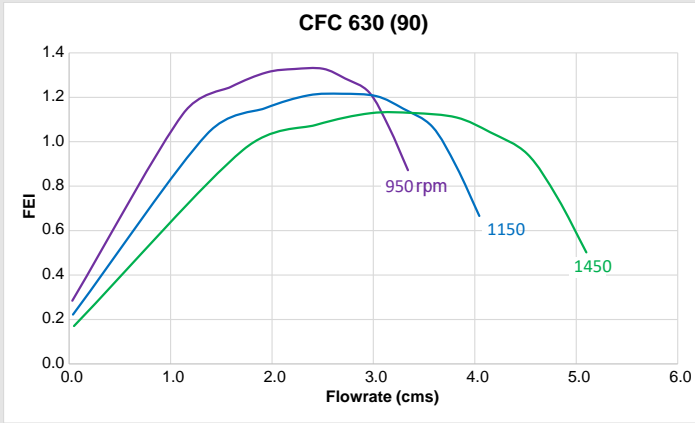
Air Volume Q = 2.14 m<sup>3</sup>/s  
 Fan Speed N = 1450 rpm  
 FEI = 1.09



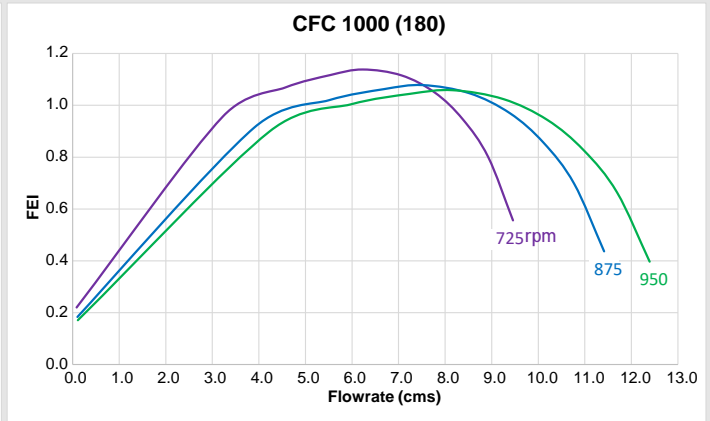
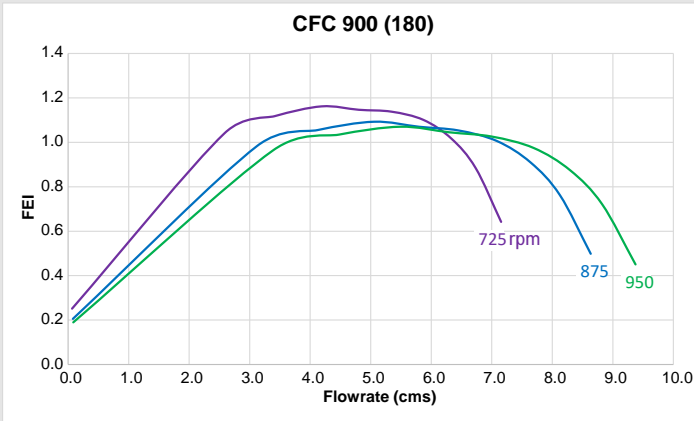
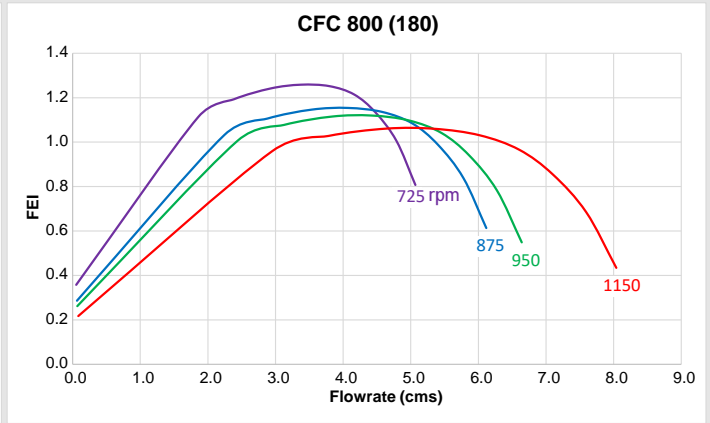
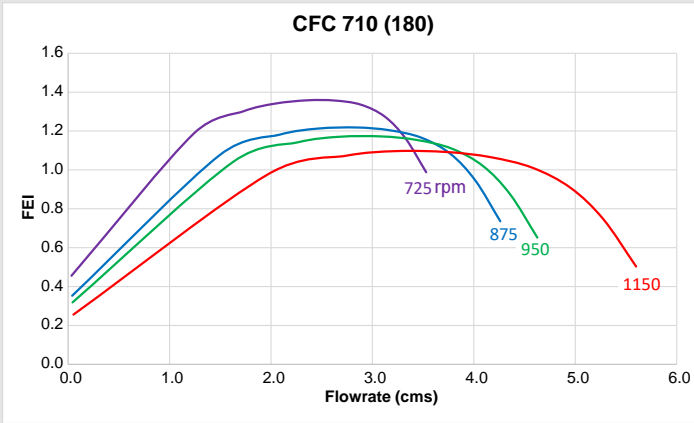
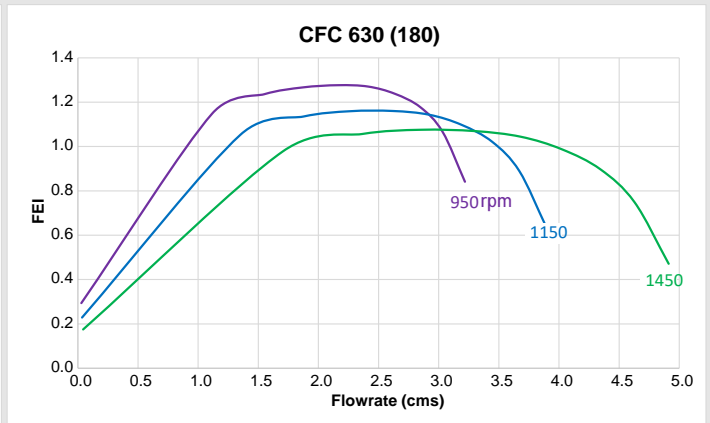
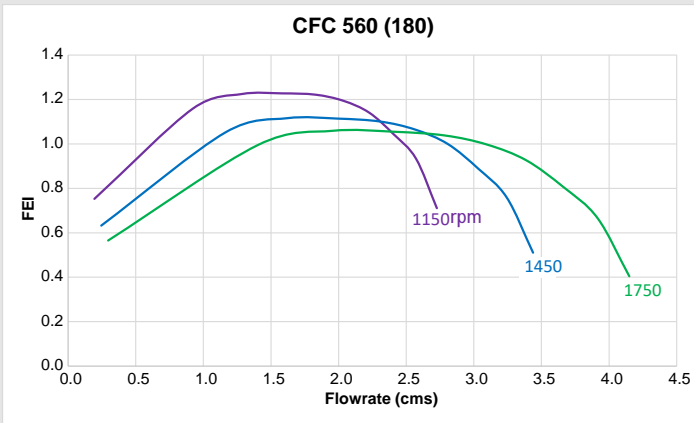
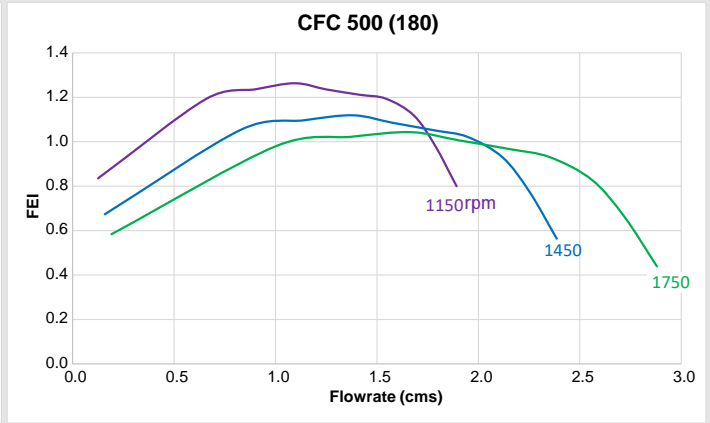
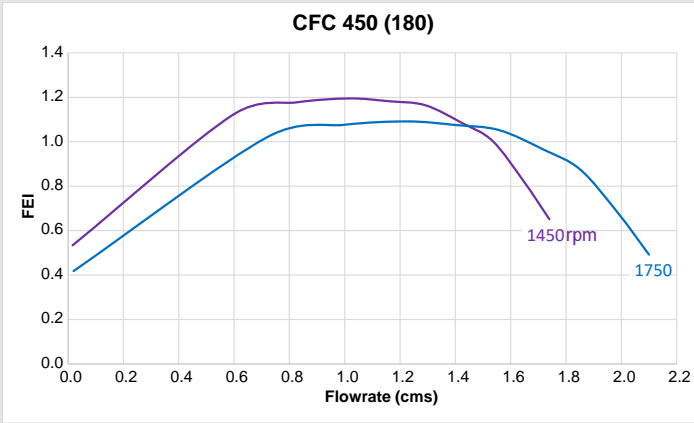
## Direct Drive models



Performance certified is for installation type D - Ducted inlet, Ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). FEI<sub>T</sub> values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (Direct Driven type). FEI<sub>T</sub> values for fans with specific motors will vary slightly from those shown. Fan speed shown in RPM.

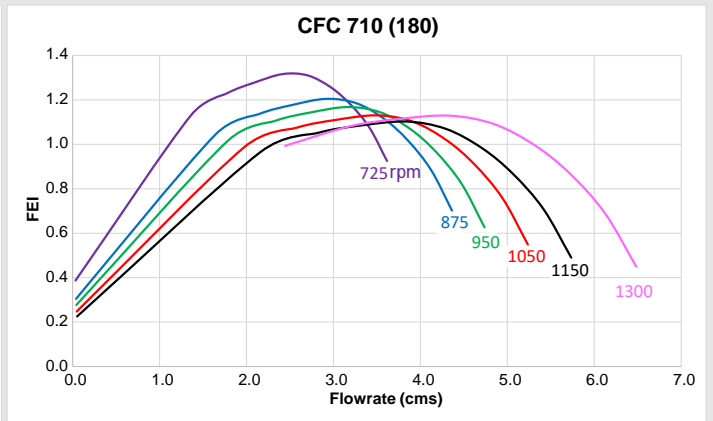
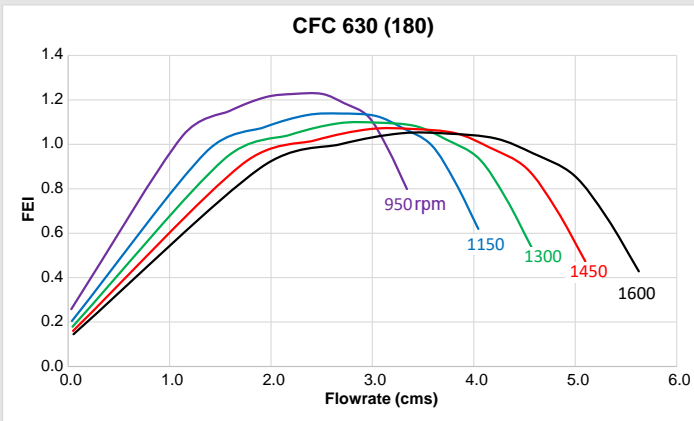
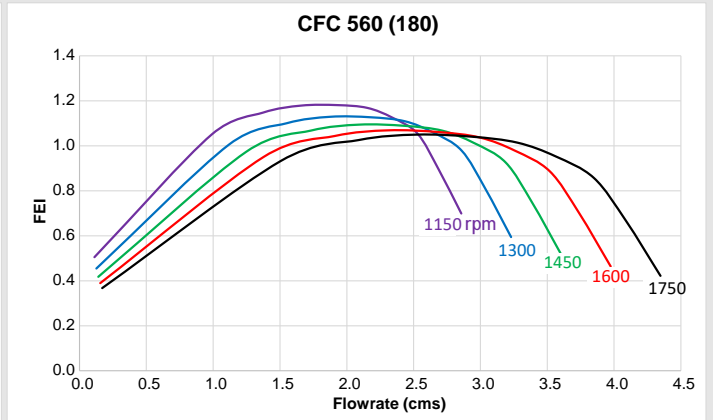
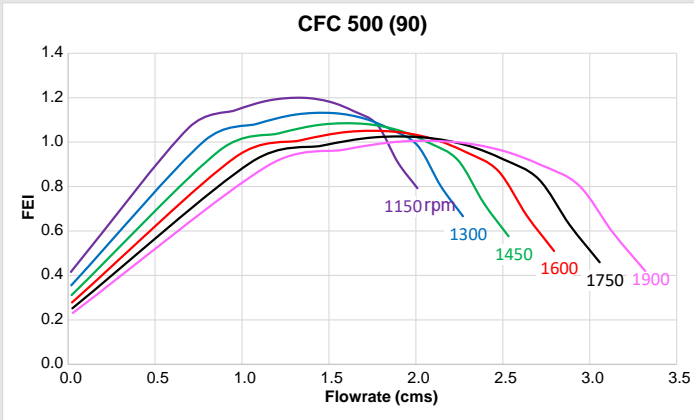
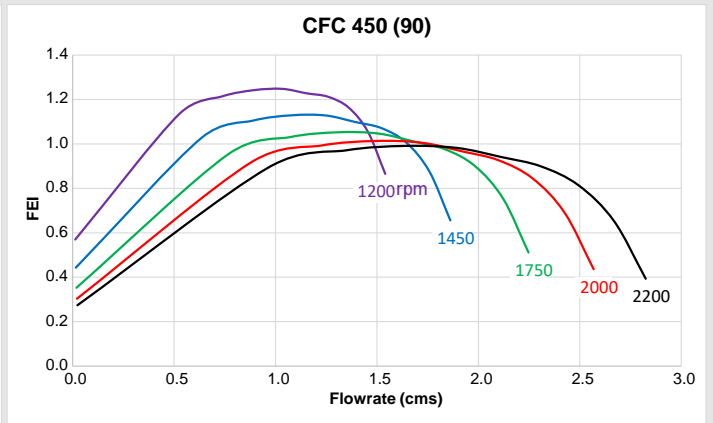
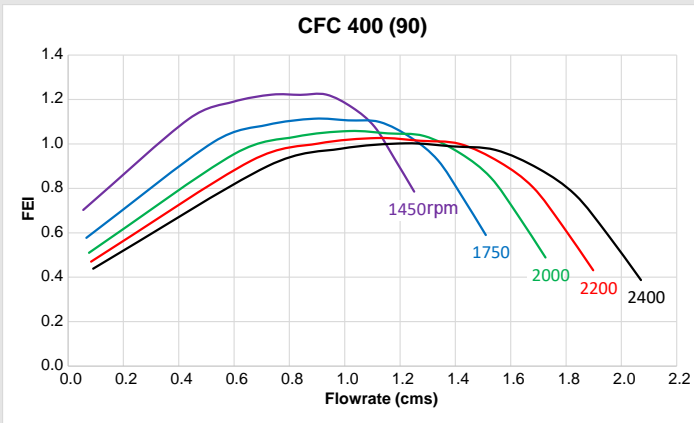
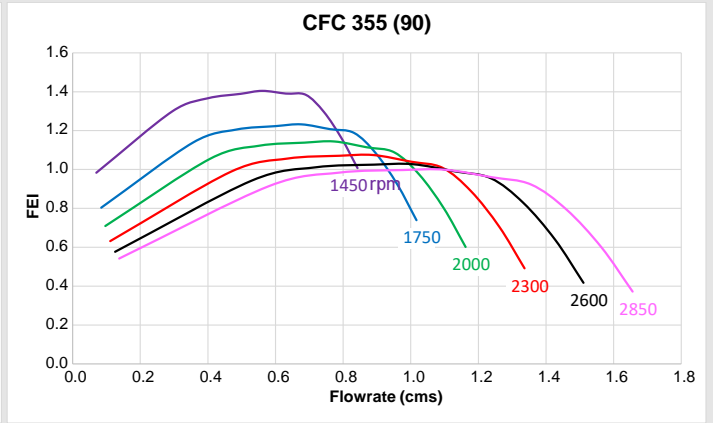
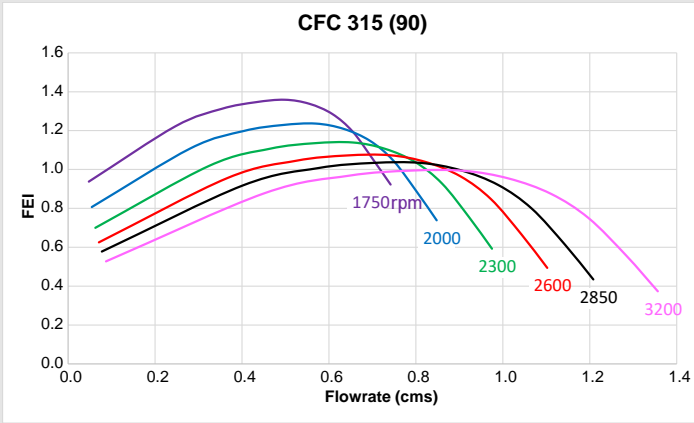


Performance certified is for installation type D - Ducted inlet, Ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). FEI<sub>T</sub> values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (Direct Driven type). FEI<sub>T</sub> values for fans with specific motors will vary slightly from those shown. Fan speed shown in RPM.



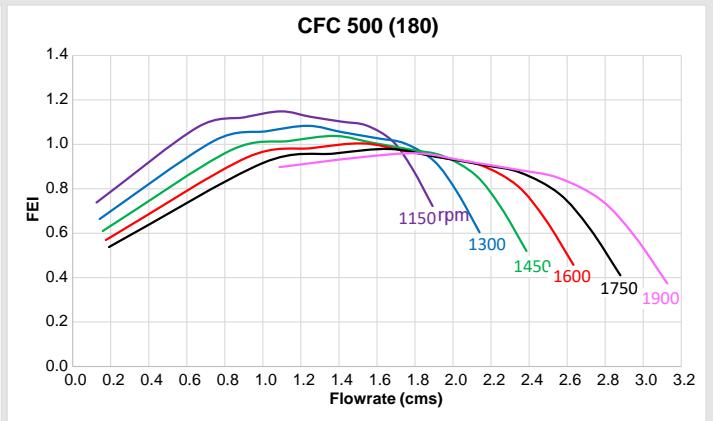
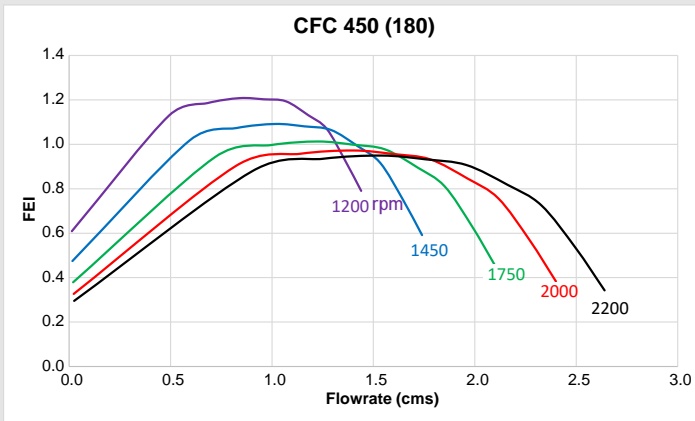
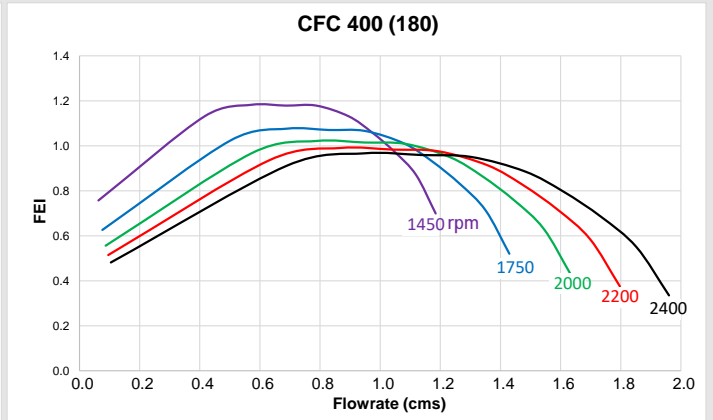
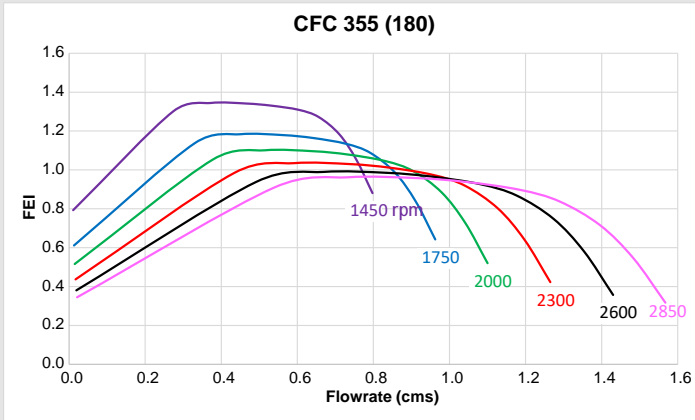
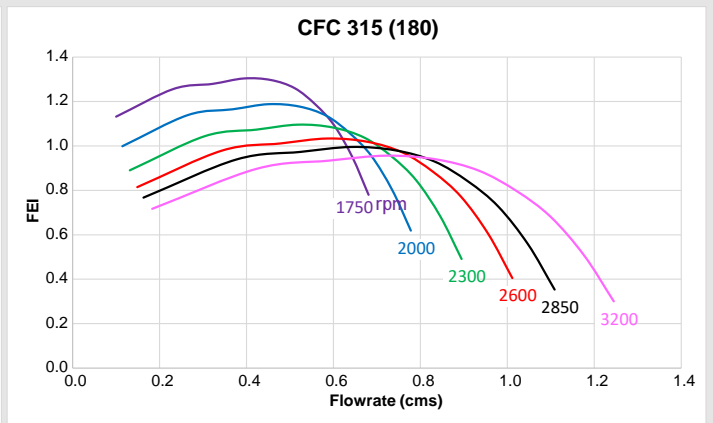
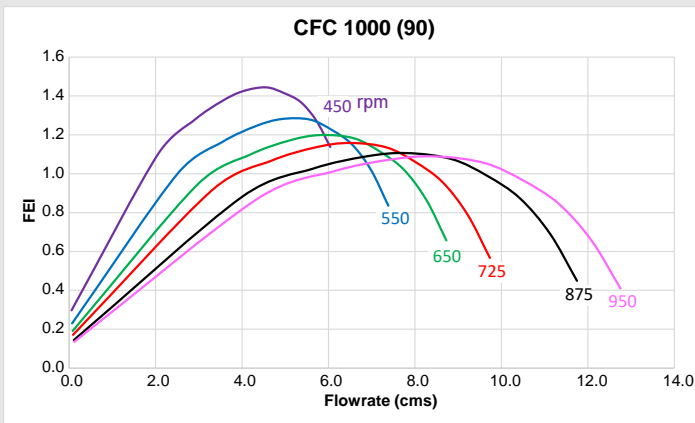
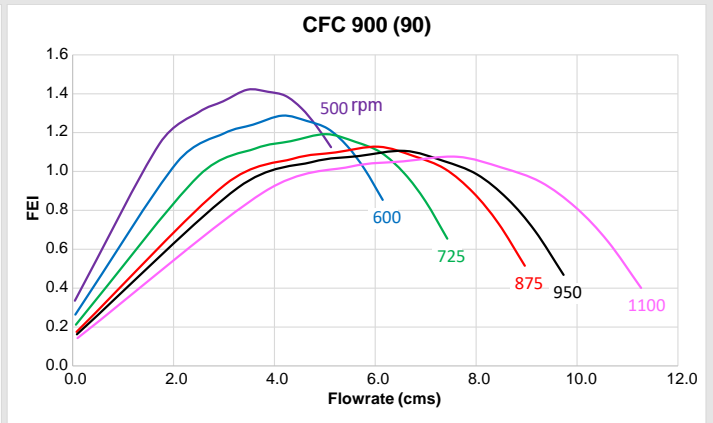
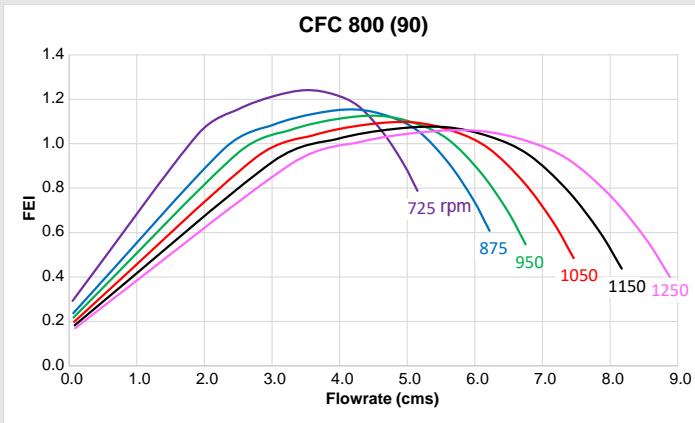
Performance certified is for installation type D - Ducted inlet, Ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). FEI<sub>r</sub> values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (Direct Driven type). FEI<sub>r</sub> values for fans with specific motors will vary slightly from those shown. Fan speed shown in RPM.

**Belt Drive models**

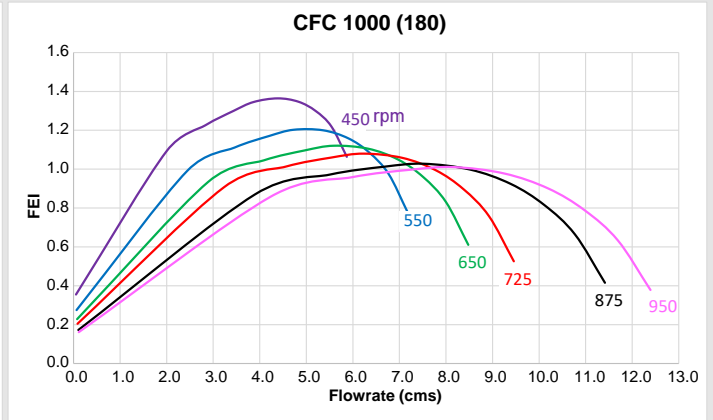
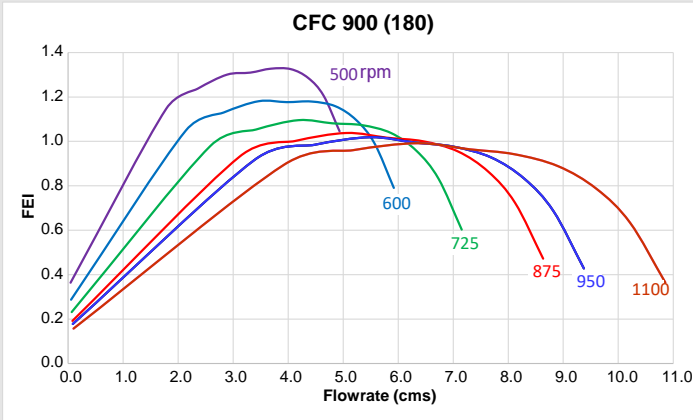
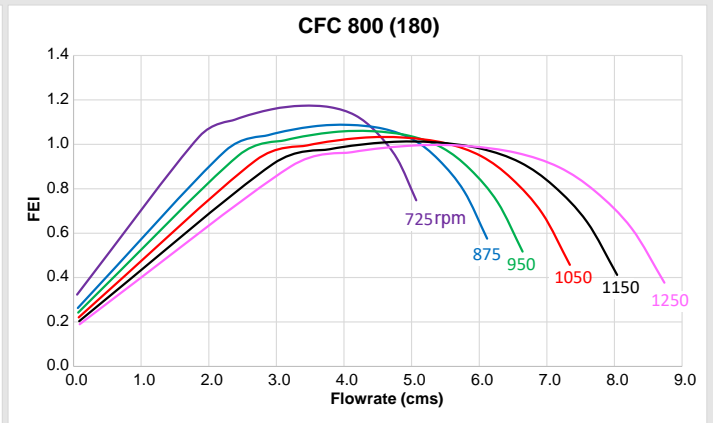
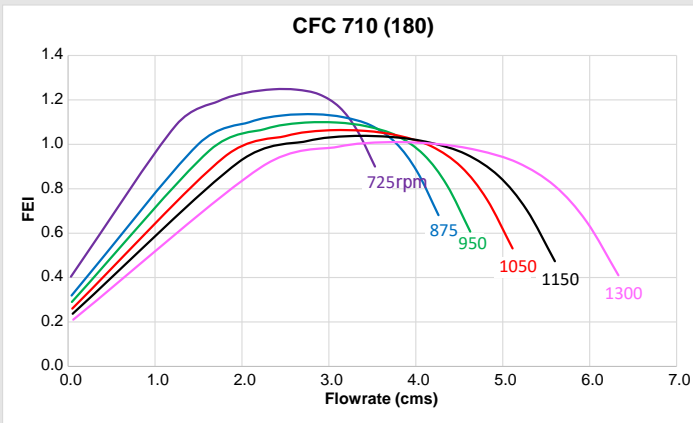
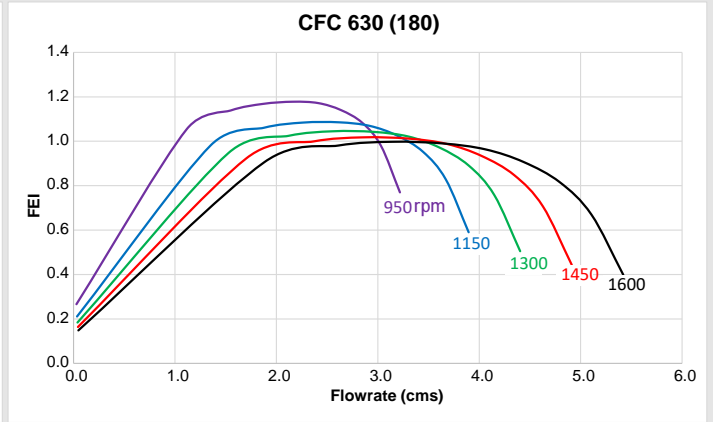
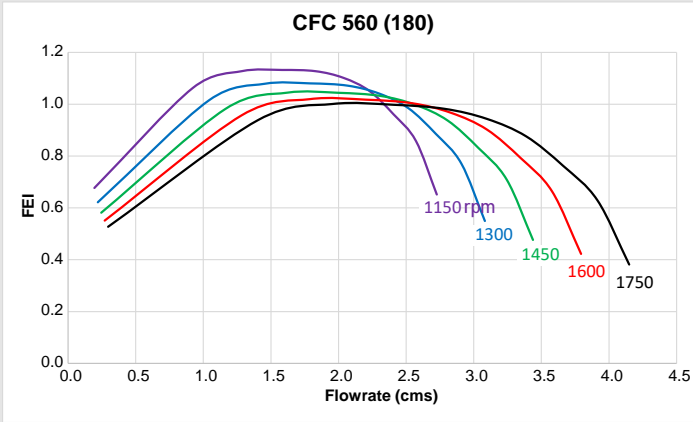


Performance certified is for installation type D - Ducted inlet, Ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (belt cover). FEI<sub>T</sub> values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (Belt Driven type). FEI<sub>T</sub> values for fans with specific motors will vary slightly from those shown. Fan speed shown in RPM.





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Performance certified is for installation type D - Ducted inlet, Ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (belt cover). FEI<sub>T</sub> values are calculated in accordance with ANSI/AMCA Standard 208 and are based on default motor efficiencies (Belt Driven type). FEI<sub>T</sub> values for fans with specific motors will vary slightly from those shown. Fan speed shown in RPM.

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**CAT041.E0.KVM** November 2023

**A member of**

