

DIRECT DRIVE MOTOR

TB

**Extremely robust, open blade and single inlet centrifugal fans
with sheet steel casing and impeller**

Designed for air that is very dusty and with materials suspended in the air



*The images are provided only for illustrative purposes, the product may vary depending on its size, specifications and position.

Fan:

- Sheet steel casing.
- Impeller with reaction blades in extremely robust sheet steel, specially designed for air that is very dusty and with materials suspended in the air.
- Motor coupled directly.

Motor:

- IE3 efficiency motors for powers equal to or higher than 0.75 kW except single-phase, 2-speed and 8-poles.
- Class F motors with ball bearings and IP55 protection.
- Three-phase 230/400 V-50 Hz (up to 4 kW) and 400/690 V-50 Hz (powers higher than 4 kW).
- Maximum temperature of air to be carried: -25°C +90°C.

Finish:

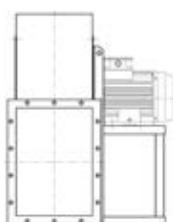
- Anti-corrosive finish of polyester resin polymerised at 190°C, previously degreased with phosphate-free nanotechnological treatment.

On request:

- Special windings for different voltages.
- Fan prepared for air transmission of up to +150°C.
- Special executions for temperatures of +300°C.
- Stainless steel fan.
- Category 2 ATEX certification.
- System 8 elastic coupling.

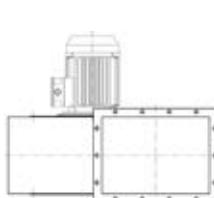
Direct drive motor construction method

SYSTEM 4



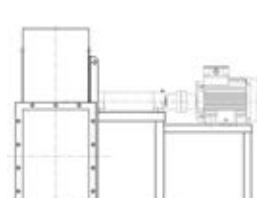
Direct drive, impeller mounted on the motor shaft, mounted on the pedestal.

SYSTEM 5



Direct drive, impeller mounted on the motor shaft, flange motor mounted on the fan casing.

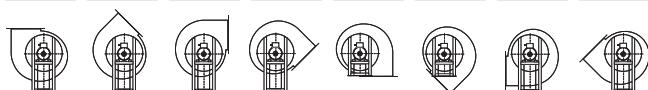
SYSTEM 8



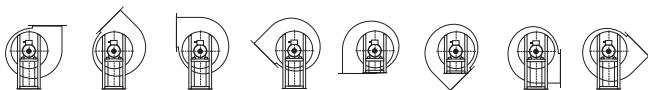
Elastic coupling drive, impeller mounted on the support shaft, mounted on the motor via an elastic coupling. Everything mounted together on a fan pedestal.

Orientations

RD 0 RD45 RD90 RD135 RD180 RD225 RD270 RD315



LG 0 LG45 LG90 LG135 LG180 LG225 LG270 LG315



BELT-DRIVEN MOTOR**TB/R**

Centrifugal, open blade, belt driven fans fitted with electric motors and a standardised set of pulleys, belts and protectors in accordance with standard ISO 13857

Designed for air that is very dusty and with materials suspended in the air



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Fan:

- Sheet steel casing.
- Impeller with reaction blades in extremely robust sheet steel, specially designed for air that is very dusty and with materials suspended in the air.
- Motor assembled on the general bench.

Motor:

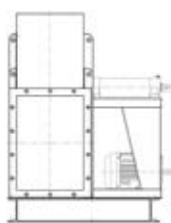
- IE3 efficiency motors.
- Class F motors with ball bearings and IP55 protection.
- Three-phase 230/400 V-50 Hz (up to 4 kW) and 400/690 V-50 Hz (powers higher than 4 kW).
- Maximum temperature of air to be carried: -25°C +90°C.

Finish:

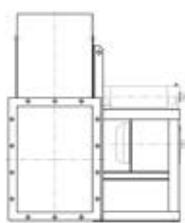
- Anti-corrosive finish of polyester resin polymerised at 190°C, previously degreased with phosphate-free nanotechnological treatment.

On request:

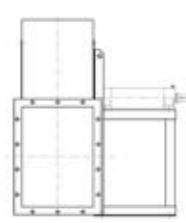
- Special windings for different voltages.
- Fan prepared for air transmission of up to +300°C.
- Stainless steel fan.
- Category 2 ATEX certification.
- System 8 elastic coupling.

Belt-driven motor construction method**SYSTEM 12**

Transmission drive, identical to SYSTEM 1, with the motor and fan mounted on the common bench. Motor positions "W" or "Z" and exceptionally "X" or "Y".

SYSTEM 9

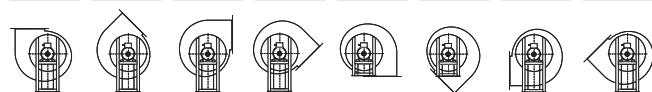
Transmission drive, identical to SYSTEM 1, with the motor mounted on the side of the pedestal, in position "W" or "Z".

SYSTEM 1

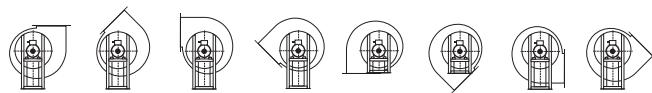
Transmission drive, impeller mounted on the support shaft. Support mounted on the pedestal.

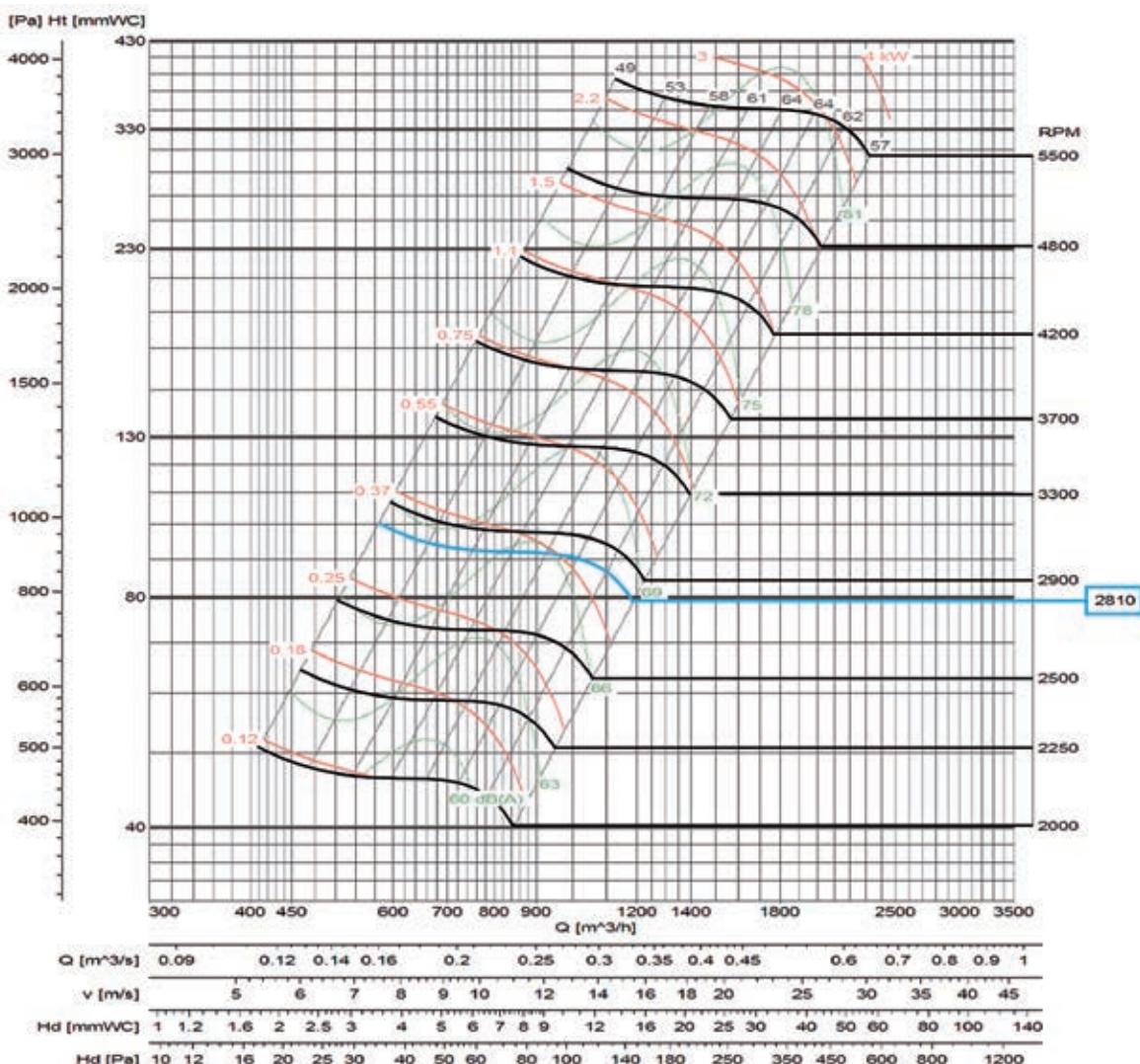
Orientations

RD 0 RD45 RD90 RD135 RD180 RD225 RD270 RD315



LG 0 LG45 LG90 LG135 LG180 LG225 LG270 LG315



Characteristic curves**TB 250**

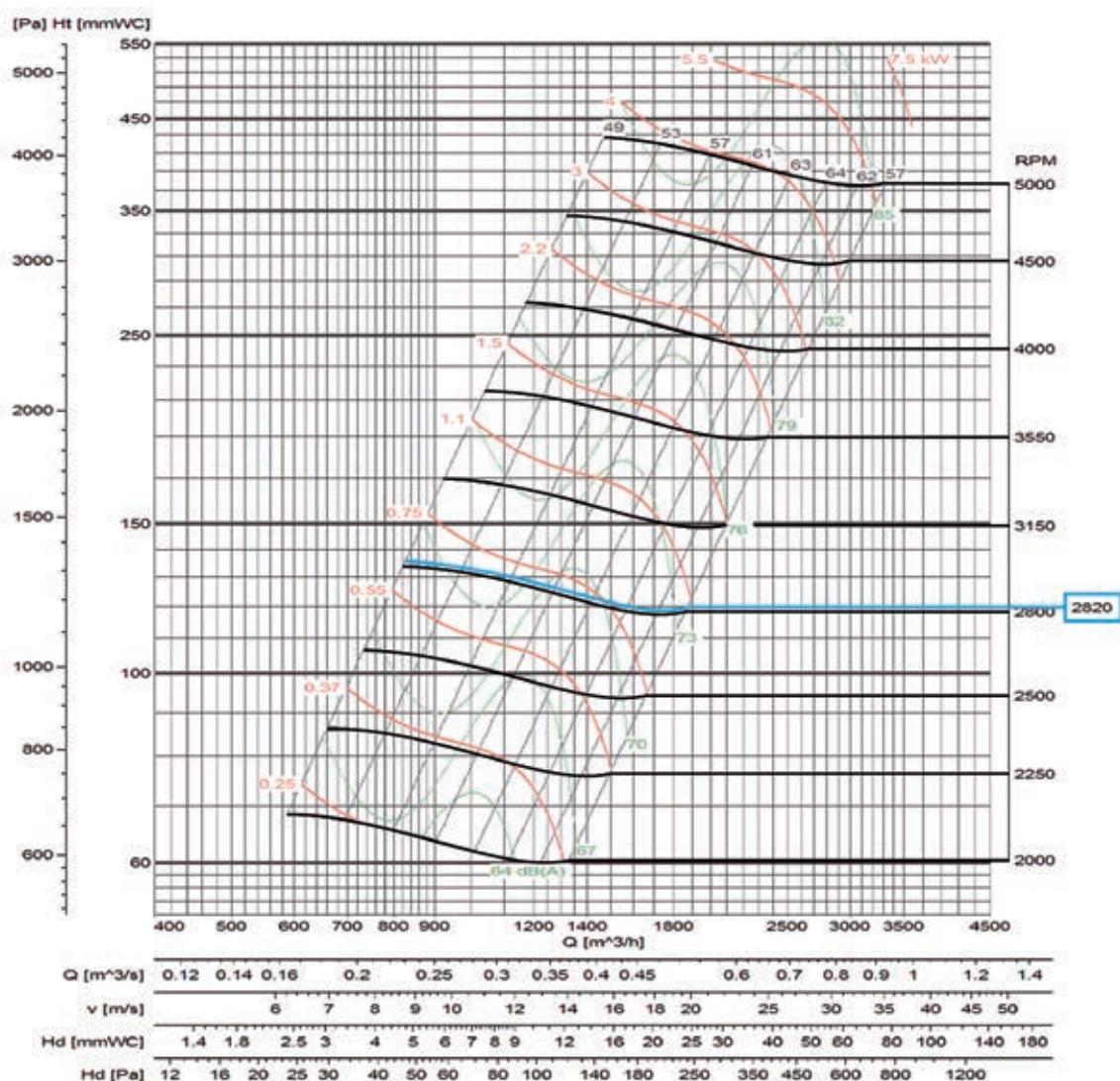
Flow margin $\pm 5\%$
 Noise level margin +3..5 dB
 Margin of kW absorbed $\pm 3\%$

Impulsion characteristics

RPM Characteristics for:
 system 4 and 5 in direct
 drive motor with 2/4/6/8
 poles depending on the
 model.

Characteristic curves

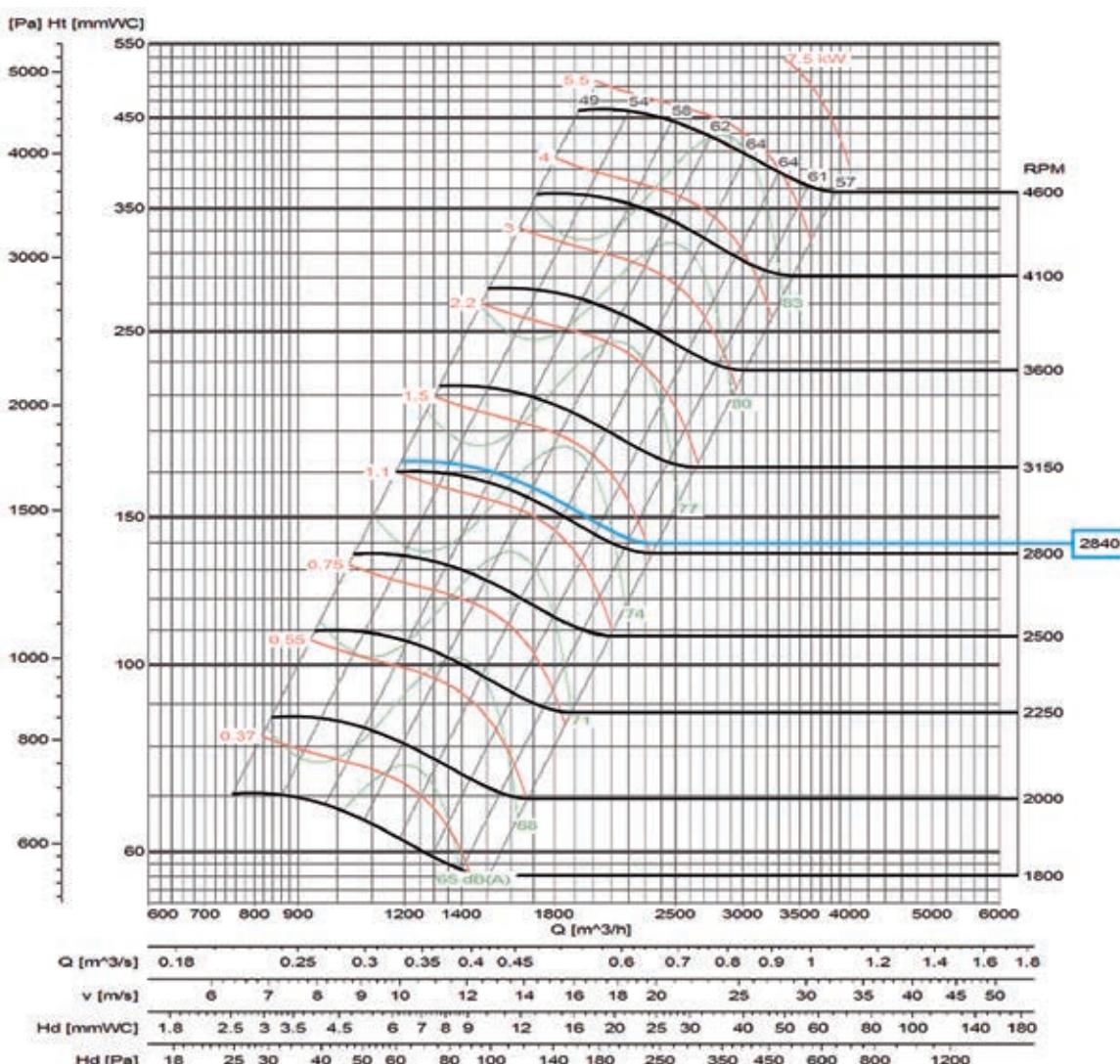
TB 280



Flow margin ±5%
 Noise level margin +3..5 dB
 Margin of kW absorbed ±3%

Impulsion characteristics

RPM Characteristics for:
 system 4 and 5 in direct
 drive motor with 2/4/6/8
 poles depending on the
 model.

Characteristic curves**TB 310**

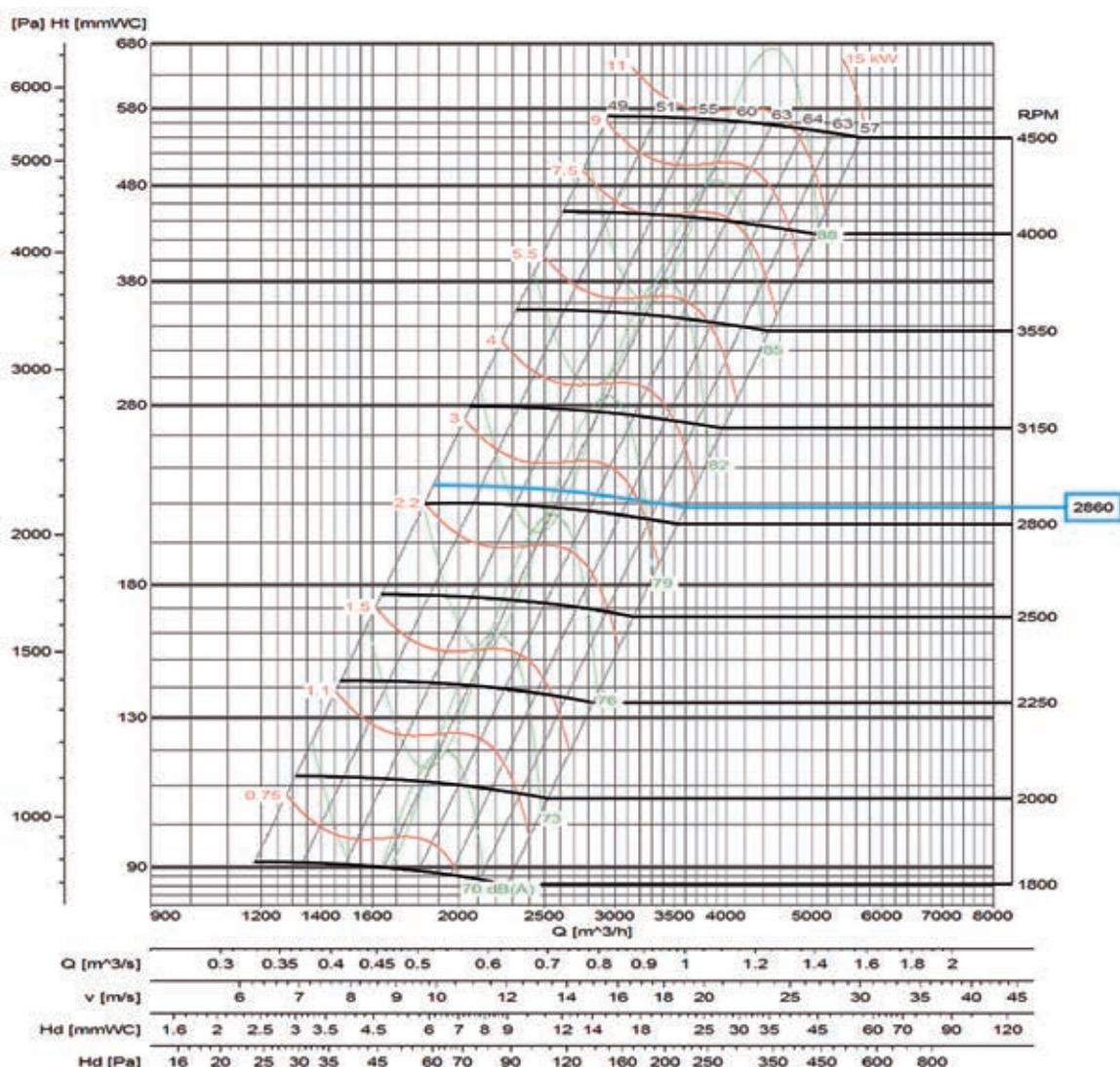
Flow margin ±5%
Noise level margin +3..5 dB
Margin of kW absorbed ±3%

Impulsion characteristics

RPM Characteristics for:
system 4 and 5 in direct
drive motor with 2/4/6/8
poles depending on the
model.

Characteristic curves

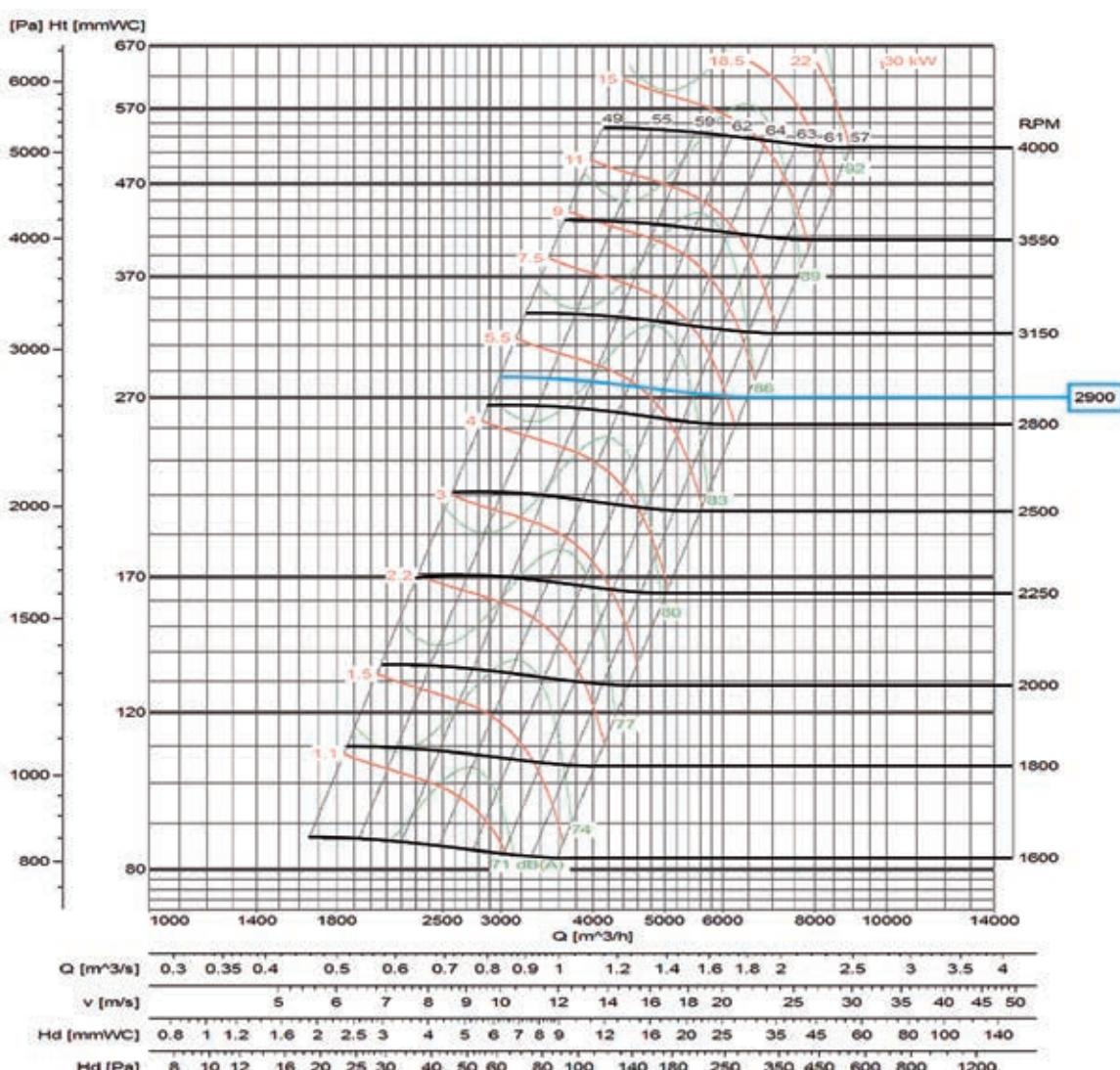
TB 350



Flow margin $\pm 5\%$
 Noise level margin $+3..5 \text{ dB}$
 Margin of kW absorbed $\pm 3\%$

Impulsion characteristics

RPM Characteristics for:
 system 4 and 5 in direct
 drive motor with 2/4/6/8
 poles depending on the
 model.

Characteristic curves**TB 400**

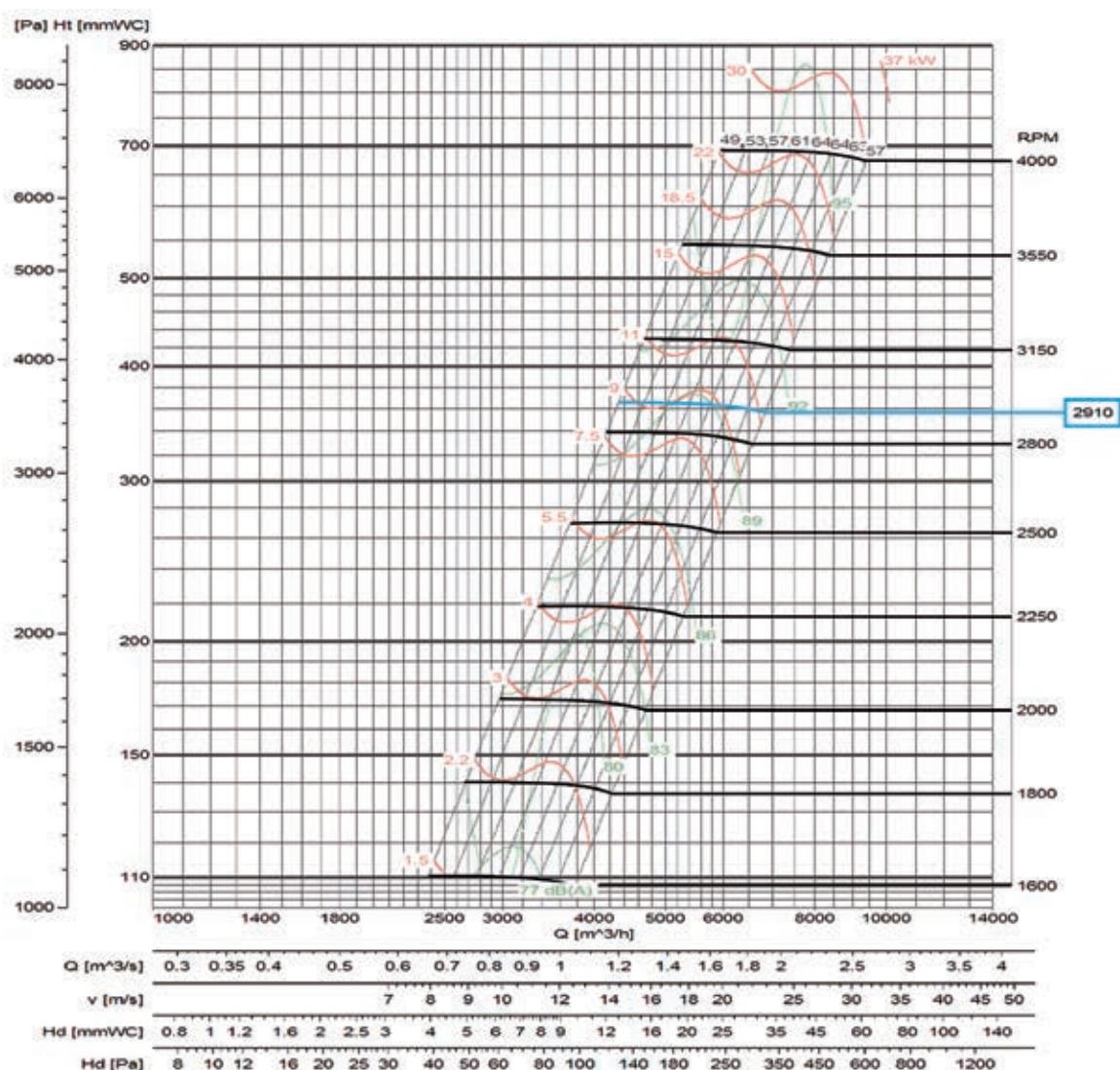
Flow margin ±5%
Noise level margin +3..5 dB
Margin of kW absorbed ±3%

Impulsion characteristics

RPM Characteristics for:
system 4 and 5 in direct
drive motor with 2/4/6/8
poles depending on the
model.

Characteristic curves

TB 450

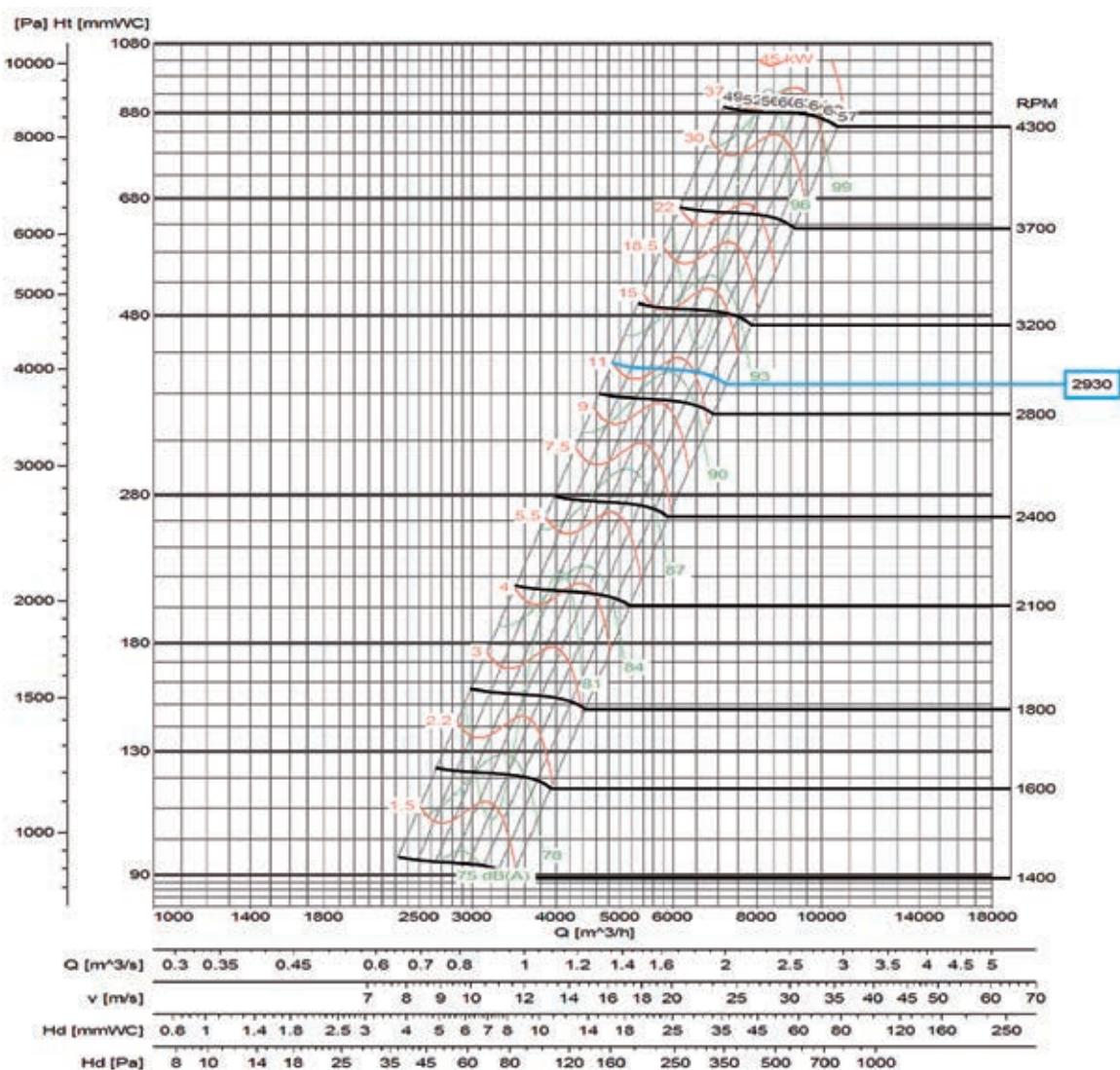


Flow margin $\pm 5\%$
 Noise level margin $+3..5$ dB
 Margin of kW absorbed $\pm 3\%$

Impulsion characteristics

RPM

Characteristics for:
 system 4 and 5 in direct
 drive motor with 2/4/6/8
 poles depending on the
 model.

Characteristic curves**TB 470**

Flow margin $\pm 5\%$
Noise level margin +3..5 dB
Margin of kW absorbed $\pm 3\%$

Impulsion characteristics

RPM Characteristics for:
system 4 and 5 in direct
drive motor with 2/4/6/8
poles depending on the
model.

