

## HGT/CL-125-6T/6-20 IE3



### Large diameter tubular axial fans with direct drive motors

Tubular axial fans equipped with 6 or 9 blade aluminum propellers with various angles of inclination.



#### Fan:

- Airflow direction from motor to impeller.
- Impellers made of cast aluminium with 6 or 9 blades with adjustable angle of inclination.
- Tubular casing in sheet steel.
- The long casing version is equipped with an inspection hatch.

#### Motor:

- Motors with IE3 efficiency for powers equal to or greater than 0.75 kW, except single-phase, 2-speed and 8-pole.
- Three-phase with IE4 efficiency for power from 75 kW to 200 kW, except 2-speed and 8-pole.
- 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 greater than 4 kW).
- Working temperature: -25 °C +50 °C.

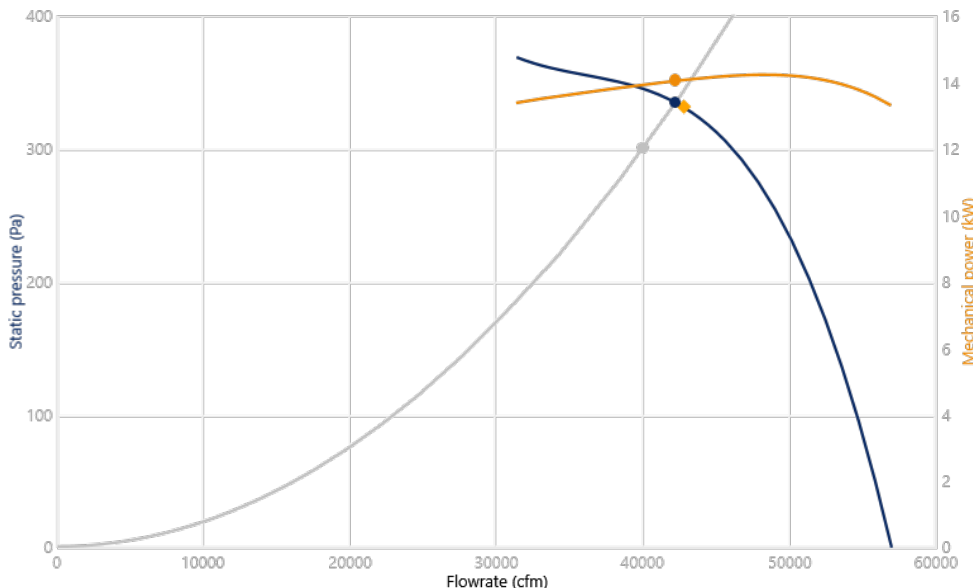
#### Finish:

- Anti-corrosive finish in polyester resin, polymerised at 190 °C, after degreasing with phosphate-free nanotechnology treatment.

#### On request:

- Airflow direction from impeller to motor.
- 100% reversible impellers.
- Special windings for different voltages.
- ATEX certified Category 2.
- 2 speed motors.
- The support feet are supplied as an accessory.

### CHARACTERISTIC CURVE AND ACOUSTICS AT 1.2KG/M<sup>3</sup>



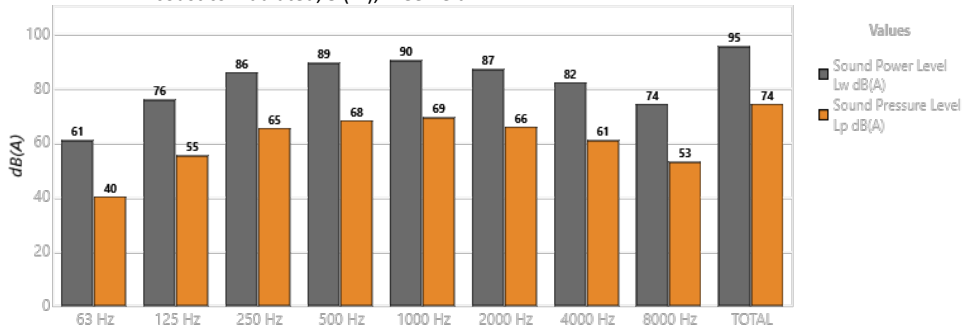
#### Design Point

Q (cfm)	40000
Ps (Pa)	300

#### Service Point (SP)

Q (cfm)	42218
Ps (Pa)	334.2
Pd (Pa)	158.2
Pt (Pa)	492.4
Impeller (rpm)	975
Blade Inclination (°)	32
Max. Temp. (°C)	50
Outlet air speed (m/s)	16.24
Mechanical efficiency (Pt) (%)	69.97
SFP (kW/m <sup>3</sup> /s)	0.7733
Mechanical power (kW)	14.02

Acoustics: Radiated, 3 (m), Free field



Band	Lw dB(A)	Lp dB(A)
63 Hz	61	40
125 Hz	76	55
250 Hz	86	65
500 Hz	89	68
1000 Hz	90	69
2000 Hz	87	66
4000 Hz	82	61
8000 Hz	74	53
TOTAL	95	74

## TECHNICAL CHARACTERISTICS

Airflow maximum (cfm)	56929
Speed (rpm)	975
Maximum static pressure (Pa)	368.5
Maximum total pressure (Pa)	493.3

## ERP

Efficiency	43.2%
Efficiency grade N	43.0
Measurement category	C
Efficiency category	Static
Specific ratio	1.00
Flowrate (m³/h)	72665

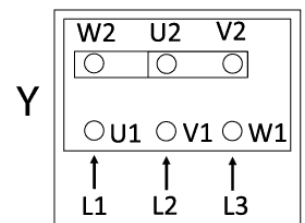
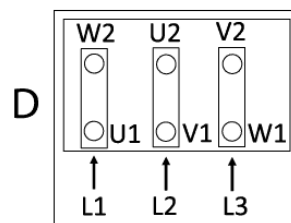
Pressure (Pa)	331
Input power (kW)	15.446
Speed (rpm)	977
Variable speed drive	VSD not necessary
ErP compliance	2015

♦ Data established at point of optimum efficiency

## MOTOR DATA

Rated Mechanical Power (kW)	15
Hz/phases	50/3
Motor (rpm)	975
Poles	6P
Max. current (A) 380-415 V D	28.2
Max. current (A) 660-725 V Y	16.3
Motor protection	IP55
Motor frame size	180L

Data can change, please check motor plate



## DIMENSIONS

ØA	ØB	E	ØD	ØJ	N
1365	1320	900	1250	15	20x18°

Dimensions without explicitly defined units are shown in millimeters (mm). Dimensions depending on the motor are approximate

Approx. weight (kg)	367
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