

NIMUS 451 T4 0,75kW (std) (NS451480)

GENERAL DATA



CENTRIFUGAL FAN, FOR CLEAN OR SLIGHTLY DUSTY AIR

MANUFACTURING FEATURES

- Medium pressure centrifugal fan with direct coupling.
- Reinforced housing made of carbon laminated steel, protected against corrosion by powder coating polyester resin RAL 5010. Finish C3.
- Casing fully latched and adjustable.
- Self-cleaning turbine and reinforced impeller with high-performance backward (reaction) blades made of carbon laminated steel dynamically balanced to minimize noise and vibrations. Black painted RAL 9005
- Squirrel cage standardized asynchronous IEC motor with IP-55 protection and class F electrical insulation. Standard voltages 230/400V 50Hz for three-phase motors up to 4kW and 400/690V 50Hz for higher powers. IE4 motors for 75kW power or higher.
- Motor with feet (B3) supported on motor support foot.
- Models of size 500 and above are supplied with a front support foot, for the other models the front support foot is optional.
- Maximum working temperature in continuous: air transported: 130°C, Environment: 60°C.
- Available positions (to be indicated in case of order): LG270, LG0, LG45, LG90, LG135, LG180, LG225, LG315, RD0, RD45, RD90, RD135, RD180, RD225, RD270, RD315.
- The indicated codes correspond to the model in position LG270

APPLICATIONS

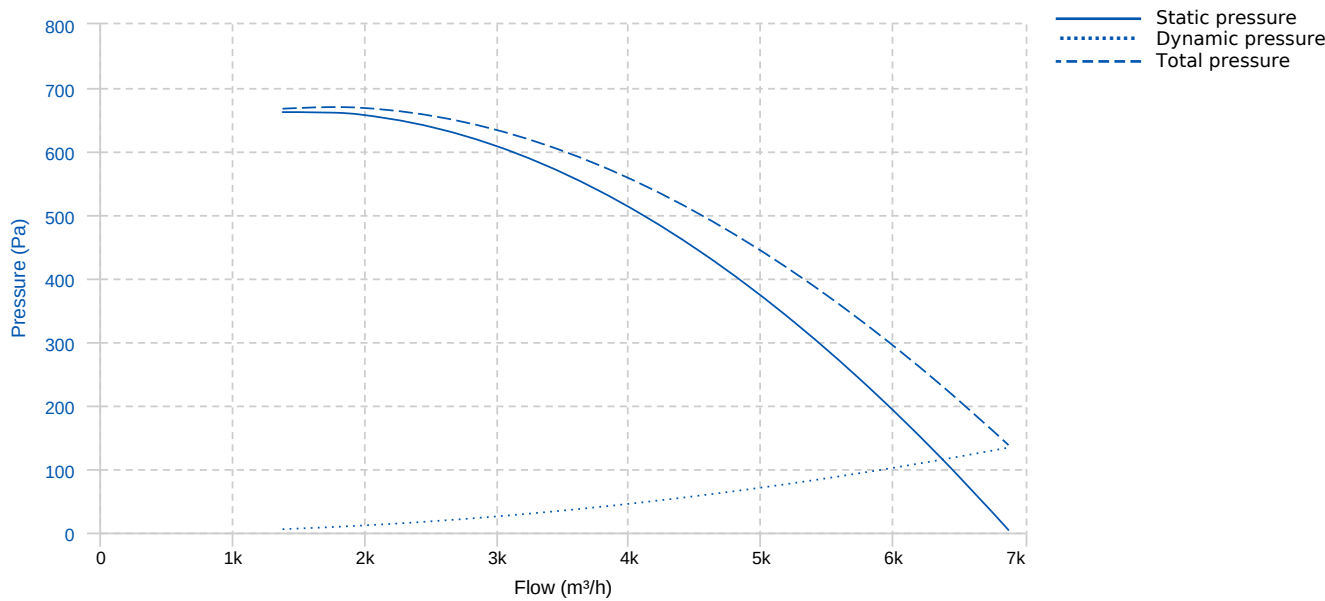
Suitable for moving clean or dusty air. Designed to be installed in conduit for suction or impulsion.

- Paint booths
- Collection of dust
- Food industry dryers
- Food processing
- Incineration
- Odor control in industry
- Indoor / outdoor pollution control
- Big buildings
- Malls
- Factories / Industrial buildings
- Warehouses
- Extraction of smoke
- Boilers and ovens
- Manufacture and treatment of chemical products.
- Tunnels, underground stations.

ON DEMAND

- Fans for special voltages.
- 2 speed motor.
- C4 or C5 coating painting
- Hot dip galvanized
- Inox 304 (normal or electropolished finish)
- Inox 316 (normal or electropolished finish)
- Cooling wheel
- Anticaloric paint
- Fully welded housing (waterproof)
- Inspection door to facilitate maintenance and cleaning
- Drain plug.
- Airtight axle
- Non-sparking air passage and standard motor
- Other brands of motors.

PERFORMANCE CURVE

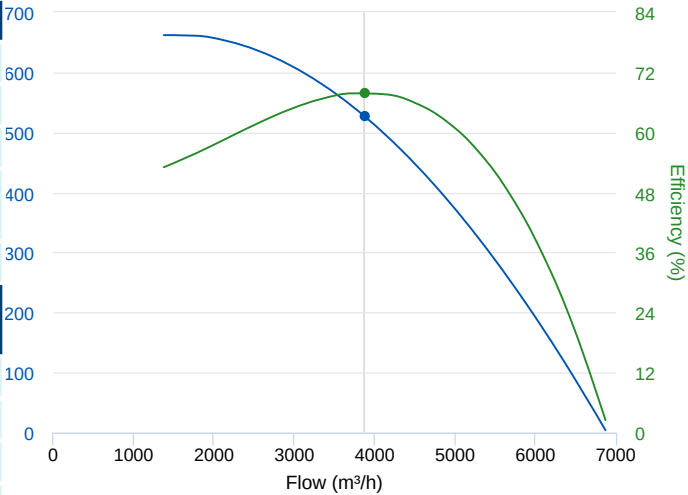


TECHNICAL DATA

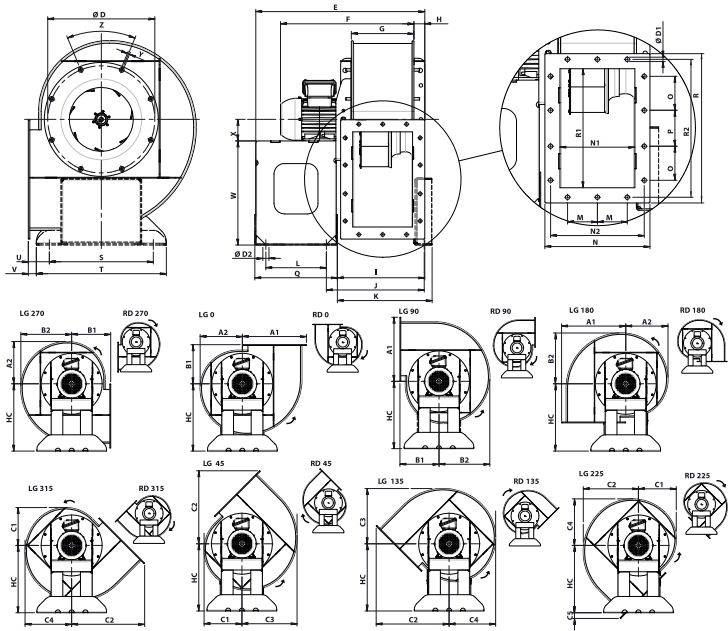
Fan							
RPM	1410	Approx. weight	84.17 kg	Max. Flow	6880 m³/h		
Motor							
Power	0,75 kW	RPM	1410	I max. (230V)	2,83 A	I max. (400V)	1,63 A
Size	80	Approx. weight	15 kg	Efficiency (%)	82.5 %	FP	0.81

ERP DATA

Fan data sheet		
Fan type	Centrifugal fan backward blades with casing	
Installation category	A: Outlet and Inlet free discharge	
Efficiency category	Static	
The fan has to be installed with VF	No	
Motor power (kW)	0.75	
	Fan values	ERP Requirements 2015
Max. efficiency (%)	67.9	49.75
Efficiency grade (N)	79.15	61
Pabs (kW)	0.848	
Flow (m³/h)	3877.89	
Static pressure (Pa)	526.3	
Speed (m/s)	1410	
Specific ratio	1.01	



DIMENSIONS

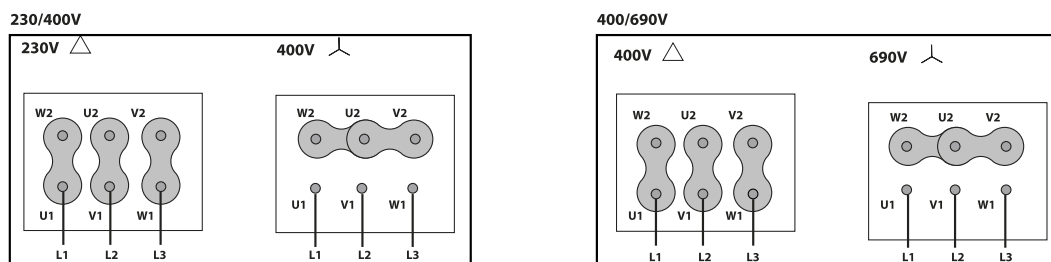


Dimensions (mm)									
A1	549.3	A2	367.7	B1	325.4	B2	444	C1	329.6
C2	618.5	C3	482.2	C4	405.9	C5	47.9	D	485
D1	11.5	D2	20	E	667.8	F (±)	554.5	G (±)	293
H	48.5	HC	570.6	I	437.6	J	394.4	K	428.9
L	185	M	112	N	364	N1	284	N2	334

Dimensions (mm)

O	130	P	130	Q	264.6	R	530	R1	450
R2	500	S	487	T	563	U	126.9	V	43.9
W	490.6	X	80	Y	M8	Z	8holes x45°		

WIRING DIAGRAM



ACCESSORIES



SAFETY SWITCH
INT 25 3P A
REF: INT253PA



CONNECTION FLANGE
AC 450
REF: 960003213



ANTI-VIBRATION JOINT
JE 45
REF: 300719201



OUTLET PROTECTION GUARD FOR STORM FANS
RIS 450x284
REF: RIS-45284E2



RECTANGULAR-RECTANGULAR ANTI-VIBRATION
FLANGE FOR STORM
BIDS 284x450-200
REF: BIDS-45284



FREQUENCY SPEED CONTROLLER
SFC 400 III 2,2A *
REF: SFC400III2



INLET PROTECTION GUARD FOR CENTRIFUGAL
FANS
RA 45/18
REF: A-253531901



ANTI-VIBRATING FLANGE 400°/2H
BA-400 45
REF: 960002055



OUTLET FLANGE FOR STORM MODELS
EIS 450x284-450
REF: EIS-4528445



CIRCULAR-CIRCULAR ANTI-VIBRATION FLANGE
FOR STORM
BADS 450
REF: BADS-4545



FREQUENCY SPEED CONTROLLER
SFC 230 I 4,2A *
REF: SFC230I004



ANTI-VIBRATION RUBBER BLOCK
AVR (GENERIC)



**ANTI-VIBRATION SPRING BLOCK
AVS (GENERIC)**



**FRONTAL FEET SUPORT
CPD-N45
REF: A-CPD-N45**



**ACOUSTIC CABINS FOR CENTRIFUGAL FANS
AB (GENERIC)**



**MULTIPOSITION FRONTAL FEET SUPPORT
CPDMP-N45
REF: A-CPDMP-N45**

SPARE PARTS

	Code	Model	Qty
1	R-BAD-N45	INLET CONE 450	x1
2	721001143	MOTOR 0,75kW T4 B3 230/400V	x1
3	721001143	MOTOR 0,75kW T4 B3 230/400V	x1