

NIMUS 631 T4 4kW (std) (NS6314112)

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

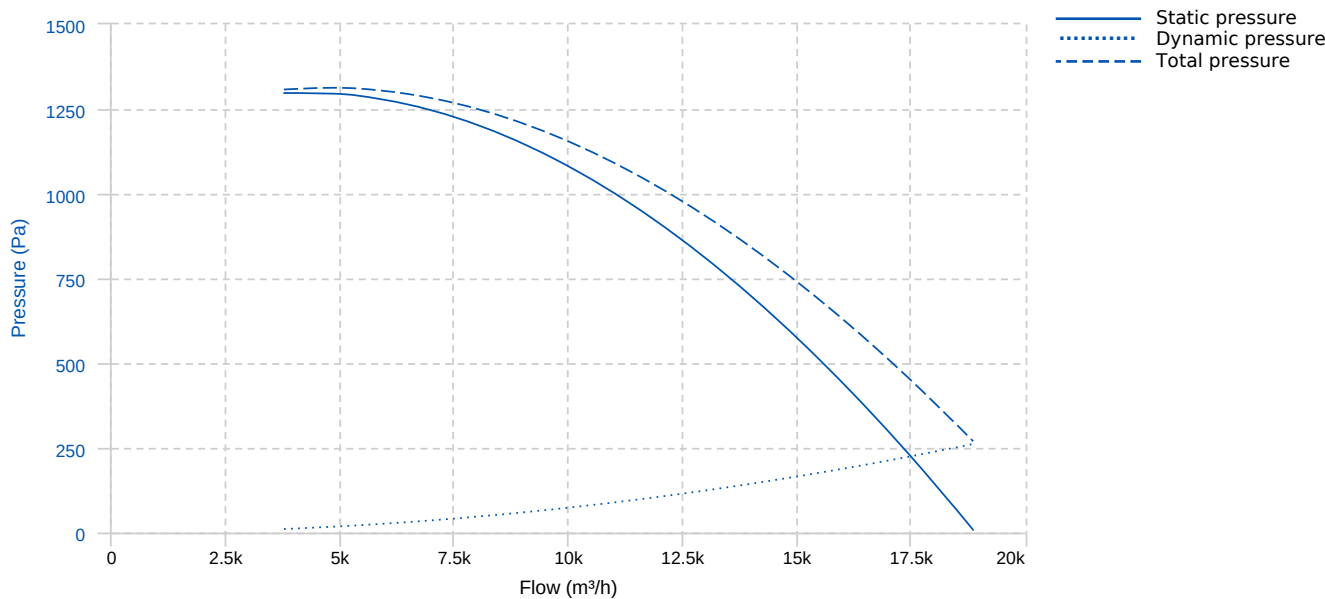
Suitable for moving clean or dusty air. Designed to be installed in conduit for suction or impulsion.

- 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	1440	Approx. weight	186.02 kg	Max. Flow	18860 m³/h		
Motor							
Power	4 kW	RPM	1440	I max. (230V)	14,5 A	I max. (400V)	8,32 A
Size	112M	Approx. weight	35.8 kg	Efficiency (%)	86.6 %	FP	0.8

Fan data sheet

The graph illustrates the efficiency of two pumps, A and B, across a range of flow rates. The x-axis represents Flow in m³/h, ranging from 0 to 20,000. The left y-axis represents Efficiency in %, ranging from 0 to 1400. The right y-axis represents Efficiency in %, ranging from 0 to 84. The blue curve (Pump A) starts at approximately 1300% efficiency at 4000 m³/h and decreases to 0% at 19,000 m³/h. The green curve (Pump B) starts at approximately 60% efficiency at 4000 m³/h, peaks at approximately 72% efficiency at 11,000 m³/h, and decreases to 0% at 19,000 m³/h. A vertical line is drawn at a flow rate of approximately 11,000 m³/h, with points marked on both curves.

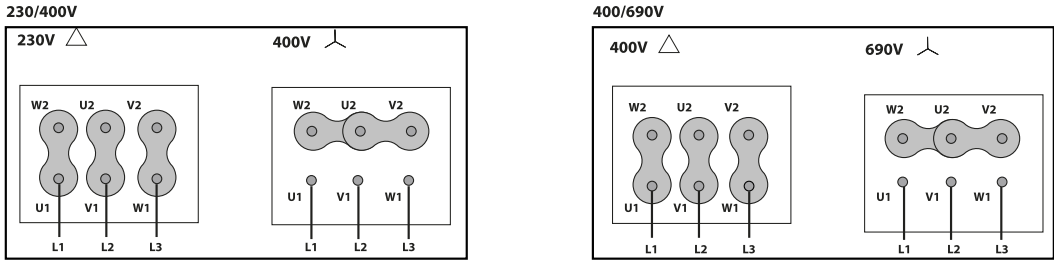
Flow (m³/h)	Pump A Efficiency (%)	Pump B Efficiency (%)
4000	1300	60
11000	1050	72
19000	0	0



Dimensions (mm)

R2	680	S	397	T	563	U	239.1	V	156.1
W	663	X	112	Y	M8	Z	16x22,5º		

WIRING DIAGRAM



ACCESSORIES



SAFETY SWITCH
INT 25 3P A
REF: INT253PA



INLET PROTECTION GUARD FOR CENTRIFUGAL FANS
RA 63/20
REF: A-254541901



CONNECTION FLANGE
AC 630
REF: 960003216



ANTI-VIBRATING FLANGE 400º/2H
BA-400 63
REF: 960002057



ANTI-VIBRATION JOINT
JE 45
REF: 300719201



OUTLET FLANGE FOR STORM MODELS
EIS 630x398-630
REF: EIS-6339863



CIRCULAR-CIRCULAR ANTI-VIBRATION FLANGE FOR STORM
BADS 630
REF: BADS-6363



OUTLET PROTECTION GUARD FOR STORM FANS
RIS 630x398
REF: RIS-63398E2

RECTANGULAR-RECTANGULAR ANTI-VIBRATION FLANGE FOR STORM
BIDS 398x630-200
REF: BIDS-63398



FREQUENCY SPEED CONTROLLER
SFC 400 III 12A *
REF: SFC400III12



ANTI-VIBRATION RUBBER BLOCK
AVR (GENERIC)



ANTI-VIBRATION SPRING BLOCK
AVS (GENERIC)



ACOUSTIC CABINS FOR CENTRIFUGAL FANS
AB (GENERIC)



FRONTAL FEET SUPORT
CPD-N63
REF: A-CPD-N63



MULTIPOSITION FRONTAL FEET SUPPORT
CPDMP-N63
REF: A-CPDMP-N63

SPARE PARTS

	Code	Model	Qty
1	R-BAD-N63V2	INLET CONE 630	x1
2	721001174	MOTOR 4KW T4 B3 230/400V	x1
3	721001174	MOTOR 4KW T4 B3 230/400V	x1