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NORDIK® HEAVY DUTY RANGE

REVERSIBLE CEILING FANS FOR
COMMERCIAL AND INDUSTRIAL APPLICATION

NEW

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NORDIK® HEAVY DUTY RANGE

Reversible heavy duty ceiling fans

PRODUCT SPECIFICATIONS



Appliances of the NORDIK HD range are reversible ceiling fans designed specifically for continuous use, even running at maximum speed.

- **8 models:** available in 4 sizes with 120, 140, 160 and 200 cm blades; versions with POWDER PAINTED FINISHING and STAINLESS STEEL .
- The geometry of the 3 blades, available in 4 different sizes and shaped to ensure superior torsional rigidity, guarantees high levels of performance (up to 22,000 m³/h with models 200 cm in size) combined with low noise emissions.
- **POWDER PAINTED FINISHING** models are characterized by blades of electrolytic zinc-coated steel, treated with an epoxy base coat and grey epoxy topcoat with hammered finish; cups are made of electrolytic zinc-coated steel, treated with an epoxy base coat and black epoxy topcoat with hammered finish.
- **STAINLESS STEEL** models differ from standard types in that they have blades made of 304 grade stainless steel with scotchbrite brushed finish; rods and cups are made of 304 grade stainless steel with scotchbrite brushed finish; motor cowls are epoxy powder coated in black with embossed finish.
- Impedance protected, class H, external rotor motor, equipped with impregnated stator windings and high silicon grade magnetic sheets melted in a high purity (99,9%) AC pack.
- **Reversibility function:** the direction of the air stream can be inverted from floor to ceiling, which has the effect of creating a less direct and more enveloping, fuller flow. In addition, an updraught improves the destratification of heat during winter, reducing the difference between temperatures at floor level (lowest) and at ceiling level (highest).
- The hanger consists of a special plate with 4 holes for tight and durable fastening, which can also be used to suspend the appliance from sloping ceilings.
- Supplied with steel hanging rod, length 290 cm.
- Stainless steel safety cable.
- Insulation class: Cl.I Ⓢ .
- **Compliant with the requirements of European Regulation n° 206/2012 and Machine Directive (MD) 2006/42/EC.**





NORDIK HEAVY DUTY
Powder Painted Finishing

- NORDIK HEAVY DUTY 120 code 61020
- NORDIK HEAVY DUTY 140 code 61021
- NORDIK HEAVY DUTY 160 code 61022
- NORDIK HEAVY DUTY 200 code 61023

OPERATING TEMP.
UP TO 50°C



NORDIK HEAVY DUTY INOX
Stainless Steel

- NORDIK HEAVY DUTY 120 INOX code 61024
- NORDIK HEAVY DUTY 140 INOX code 61025
- NORDIK HEAVY DUTY 160 INOX code 61026
- NORDIK HEAVY DUTY 200 INOX code 61027



KEY FEATURES

- High operating temperature (up to 50 °C at maximum speed) facilitating use even in particularly severe environmental conditions, typical of some industrial processes.
- High resistance against dust and water (IP55) allowing, together with full compliance with Machinery Directive, use in industrial premises.
- Die-cast epoxy painted, motor covers, sealed with a EPDM gasket to prevent dust or water entry.
- High corrosion resistance allowing use in environments with high concentrations of corrosive agents (process industries, agricultural farms, greenhouses...)
- Particularly suitable for use in food or pharmaceutical sector (stainless steel models).
- Capability to operate as heat recovery units, especially when coupled with Vort Delta T Vortice's speed controller (available as optional ancillary), allowing automatic speed adjustment of up to 16 ceiling fans according to different temperatures between floor and ceiling.



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Reversible heavy duty ceiling fans

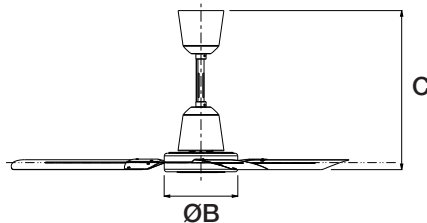
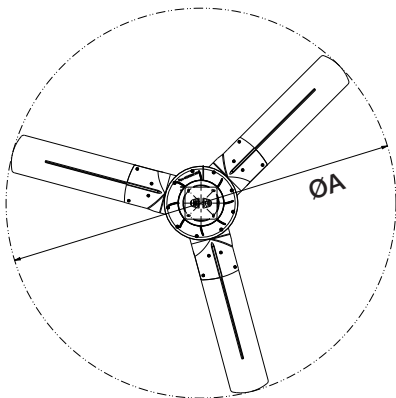
TECHNICAL DATA

Models	Code	Color	V	Hz	W	A	RPM	Blades	Max Airflow m³/h	IP motor	Kg
NORDIK HEAVY DUTY 120	61020	Powder painted finishing	230	50	80	0.35	233	3	14050	55	7.3
NORDIK HEAVY DUTY 140	61021						236		16000		7.7
NORDIK HEAVY DUTY 160	61022				85	0.37	210		19300		8.2
NORDIK HEAVY DUTY 200	61023						186		22050		9.1
NORDIK HEAVY DUTY 120 INOX	61024	Stainless Steel			80	0.35	233		14050		7.3
NORDIK HEAVY DUTY 140 INOX	61025						236		16000		7.7
NORDIK HEAVY DUTY 160 INOX	61026				85	0.37	210		19300		8.2
NORDIK HEAVY DUTY 200 INOX	61027						186		22050		9.1

NORDIK® HD RANGE | TECHNICAL DATA ACCORDING TO 206/2012 UE REGULATION

	Reference parameter	Unit of measurement	HD 120	HD 140	HD 160	HD 200	HD 120 INOX	HD 140 INOX	HD 160 INOX	HD 200 INOX
			cod. 1020	cod. 61021	cod. 61022	cod. 61023	cod. 61024	cod. 61025	cod. 61026	cod. 61027
Maximum airflow	F	m³/min	234.00	266.60	321.60	367.50	234.00	266.60	321.60	367.50
Power consumption of the fan	P	W	80	80	85	85	80	80	85	85
Operating values	SV	(m³/min)/W	2.925	3.332	3.780	4.320	2.925	3.332	3.780	4.320
Sound power level	LWA	dB(A)	51.8	55.4	55.6	56.4	51.8	55.4	55.6	56.4
Air speed	C	m/sec	1.54	1.35	1.20	1.46	1.54	1.35	1.20	1.46
Measurement standards for operating	IEC 60879; EN62301: UNI EN ISO 3741									

DIMENSIONS



Models	ØA	ØB	C
HD 120	1218	230	495
HD 140	1422		
HD 160	1524		
HD 200	2000		

Dimensions (mm)

APPLICATIONS



NORDIK® HEAVY DUTY RANGE

Reversible heavy duty ceiling fans

ACCESSORIES ON REQUEST

VORT DELTA T (Cod. 13039)

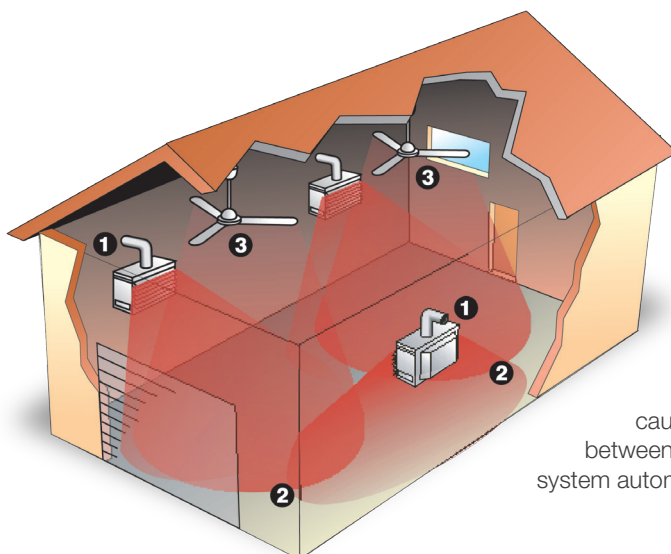
Multiple speed controller up to 16 ceiling fans

The intelligent control system. Simply clever: Intelligent management ensures optimal, draughtfree operation Vort Delta T - the heart of the System.

- The new, intelligent control unit Vort Delta T is equipped with two semiconductor temperature sensors (included in the package), installed respectively at ceiling and floor level.
- Electrical power is with a normal two-phase cable, of up to 50 metres in length.
- The control unit registers the temperature at ceiling and floor level up to 60 times per minute, calculates the temperature differential and in accordance with this, regulates the operating speed of the fans. When the heat layer has been dissipated and the temperature differential has been reduced to an acceptable level, the Vort Delta T automatically switches the fans off.
- The minimal temperature differential, at which level the unit is activated, is adjustable, as are the lower and higher rotational fan speeds so as to avoid draughts. This also applies to permanent operation (e.g. during summer for cooling).
- This fully automatic control system governs the system optimally, without necessitating adjustment by the users. In this manner, unauthorised meddling with the system is impossible.



VORT DELTA T - code 13039



- 1 The commercial building has a warm air heating system.
- 2 With the aid of adjustable laminar blades, the warm air is directed downwards in the recreation or working area.
- 3 Due to the fact that warm air has a lower specific weight than cold air, the warm air rises to ceiling height and accumulates there. The sensor controls registers the increasing temperature difference between the floor and ceiling. The Nordik fans are controlled so that the warm air from the ceiling is conducted back into the recreating or working area without causing a draught. As soon as the temperature difference between the ground and ceiling areas is in equilibrium, the Vort Delta T system automatically switches the fans off.

ACCESSORIES ON REQUEST

SCRR5 (Cod. 12963)

Speed controller
for ceiling-mounted fans



- 5 position reversible speed controller for ceiling-mounted fans.
- Convertible to flush-mounted using SCBRR5/5L/M (cod. 22498).
- 220-240 V ~ 50 Hz.
- Maximum load: 100 W.
- Double insulation.

SCRR/M (Cod. 12965)

Speed controller
for ceiling-mounted fans



- Electronic, reversible speed controller for use with up to 6 ceiling-mounted fans.
- Convertible to flush-mounted using SCBRR5/5L/M (cod. 22498).
- 220-240 V ~ 50 Hz.
- Maximum load: 450 W (2.5 A).
- Double insulation.

CEILING RODS

Various lengths to enable
installation at desired
height.



Models	Colours	L rod = mm		
		290	665	915
Nordik Heavy Duty	Powder Painted Finishing	22717	22718	22719
Nordik Heavy Duty	Stainless Steel	22721	22722	22723

KIT SCBRR5/5L/M BUILT-IN (Cod. 22498)

Kit to convert SCRR5 and
SCRR/M controllers from
surface to flush-mounted.



Cod. 5.170.084.996

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