

The NOVAP 3000 series of steam humidifiers

# NORDMANN ENGINEERING



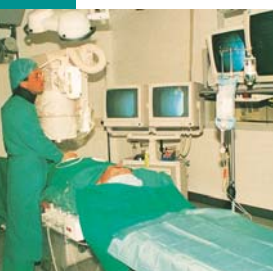
Economical,  
reliable and  
powerful: the  
NOVAP 3000  
series from  
NORDMANN.

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# Humidity: a decisive factor in the quality of the indoor air.



Office



Hospital



Industry

Whether it is a question of people feeling comfortable and staying healthy in enclosed rooms, or high-performance computers continuing to function at their peak, or fruit, vegetables and meat staying fresh in cold stores – the correct level of humidity always has a major bearing on indoor conditions. Experts agree that a minimum of 40% relative humidity is essential in order to guarantee a room climate that is both pleasant and salubrious.

Electrode boiler humidifiers produce steam which is odourless, sterile and free of minerals – the ideal humidification for high-tech industrial processes and for people's health.

# The NOVAP 3000 series: high on performance, yet economical and reliable.

The NOVAP 3000 series is NORDMANN's economy line. It comes in four different sizes of housing and covers a broad range of steam outputs from 4 to 130 kg/h in ten basic types to meet a variety of needs.

## The advantages of the NOVAP 3000 series at a glance:

- Economical and powerful steam humidifiers
- Stainless steel cabinet ensures a long service life
- Frontal access to all components facilitates servicing and maintenance
- Remote indication (collective)
- Simple to operate
- Multiple LED display

## Options:

**Proportional adaptor** for the commonest control signals: 0–2V, 0–5V, 0–10V, 0–16V, 0–20V, 2–10V, 1–5V, 0–20 mA, 4–20 mA, potentiometer min. 135 Ohm.

**Steam output indication** with five LEDs (20, 40, 60, 80 and 100 %).

Double units are equipped with an output indication for each cylinder.

**Patented SC-System** (self-cleaning system) greatly lengthens the service life of the cylinder and keeps maintenance to an absolute minimum.

**Cabinet heating** for application in environment presenting the risk of frost.

## Double units



The highest outputs (64, 90 and 130 kg/h) are achieved with double units (two cylinders).

## Steam blowers

These compact and silent high-performance blowers offer a myriad of possibilities and great flexibility.



The blowers for 4 and 8 kg/h, and for 15 and 23 kg/h, can be fitted either onto the humidifier itself or (separated from it) onto a wall. There are turbo-blowers available for outputs of 32 kg/h and above.

## Steam-distribution pipes



Because the steam-distribution pipes (each with a separate condensate-return) are available in ten different lengths, the right pipe can be found for every air duct and every humidification distance.

# Reliable steam humidification at the touch of a button!

Housing of **stainless steel**.

**Frontal access** to all components facilitates maintenance.

Hydrodynamic **filling cup**.

Excellent resistance to corrosion: the steam cylinders are fitted with **fully-protected electrodes**.



The electronic controls unit with its highly-integrated micro-controller regulates the vaporisation process using the algorithms of Fuzzy Logic, and continuously monitors the humidifier's operations.

Optional: steam **output indication** (in %) with five LEDs.



The **removable drainage strainer** allows the cylinder to be cleaned manually, thereby increasing its service life.

The **drainage cup body** has a large outlet diameter so as to facilitate drainage operations.



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# Technical specifications NOVAP 3000 series.

Type mark	Type	424	434	824	834	1534	2364	3264	4564	6464	6564	9064	13064
Heating voltage	V	400 V, 50/60 Hz											
Number of phases	~	1	3	1	3	3	3	3	3	3	3	3	3
Heating current	A	7.6	4.4	15.2	8.8	16.5	25.2	35.1	49.4	2 x 35.1	71.3	2 x 49.4	2 x 71.3
External fuses p. phase	A	16	10	25	16	25	40	50	80	2 x 50	100	2 x 80	2 x 100
Type mark	Type	422	432	822	832	1532	2362	3262		6462			
Heating voltage	V	230 V, 50/60 Hz											
Number of phases	~	1	3	1	3	3	3	3		3			
Heating current	A	13.2	7.6	26.4	15.3	28.6	43.9	61.0		2 x 61.0			
External fuses p. phase	A	20	16	40	25	40	63	100		2 x 100			
<b>Steam output</b>	<b>kg/h</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>8</b>	<b>15</b>	<b>23</b>	<b>32</b>	<b>45</b>	<b>64</b>	<b>65</b>	<b>90</b>	<b>130</b>
Minimum capacity	kg/h steam	0.8	0.8	1.6	1.6	3	4.6	6.4	9	6.4	13	9	13
Nominal power	kW	3.0	3.0	6.1	6.1	11.4	17.5	24.3	34.2	2 x 24.3	49.4	2 x 34.2	2 x 49.4
Design data													
Dimensions	width mm	390	390	390	390	470	470	525	525	975	525	975	975
	height mm	585	585	585	585	645	645	715	715	730	715	730	730
	depth mm	230	230	230	230	305	305	360	360	385	360	385	385
Steam outlet diameter	mm	1 x 22	1 x 22	1 x 22	1 x 22	1 x 35	1 x 35	1 x 35	2 x 35	2 x 35	2 x 35	4 x 35	4 x 35
Weight (empty)	kg	11	11	12	12	17	18	28	29	62	30	64	66
Operating weight	kg	14.5	14.5	18.5	18.5	32	33	53	54	112	55	114	116
Accessories													
Humidity controller	qty	1	1	1	1	1	1	1	1	2	1	2	2
Steam nozzle	qty	1	1										
Control electronics													
Supply voltage	V	220-240 V, 50/60 Hz, 1~											
Proportional adaptor	qty	1	1	1	1	1	1	1	1	2	1	2	2
Steam distribution pipes for det use													
22-xxx mm	qty	1	1	1	1								
35-300 mm	qty					1							
35-450 mm	qty					1	1		2				
35-600, 35-900 mm													
35-1200, 35-1500 mm	qty					1	1	1	2	2	2	4	4
Steam hose													
Ø 22/29 mm	qty x mm	1	1	1	1								
Ø 35/43 mm	qty x mm					1	1	1	2	2	2	4	4
Condensate hose													
Ø 6/10 mm	qty x mm	1	1	1	1	1	1	1	2	2	2	4	4
Steam blowers for direct room humidification													
Fitted onto humidifier	qty	1	1	1	1	1	1						
Fitted separately	qty	1	1	1	1	1	1	1	1	2	1	2	2

\* Standard heating voltage 400 V (380-415) or 230 V (220-240), 50/60 Hz. Also available: 200, 208, 277, 347, 440, 460, 480 and 500 Volt.  
\*\* Standard control voltage 220-240 V, 50/60 Hz. Other control voltages on request.

# Operating conditions.

**Water pressure:** 1-10 bar (0.1-1 MPa).  
**Water conductivity:** (normal tap water) 125 -1250 microsiemens/cm.

**Operating pressure:** 0 bar (pressureless).

**Air pressure in duct:** +/- 1000 Pa (+/- 100 mm water-head), suitability for use in higher air pressure on request.

**Ambient temperature:** 1°-50°C.

**Protection degree:** IP 43 (electric panel).



## Quality

All components undergo continuous checks by the manufacturer, thereby guaranteeing the high quality of these humidifiers. NORDMANN has obtained the ISO 9001:2000 certificate, and its production facilities are regularly inspected by the German TÜV Product Service.

Subject to change without prior notice.

### Manufacturer:

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