

Control and additional accessories

DITRONIC TOUCH controller

Ditronic controller is fitted with an intelligent processor regulator, designed specifically for Comfort and Design air curtains that are fitted with AC or EC fans. Due to the units sleek design and readable blue colour screen, it is suitable for most kinds of interior design applications (from a basic type to the more expensive stylish type). The controller offers local control, control from superior system (BMS) or Modbus compatibility.



The controller is suitable for the wall mounting and IP20 environment.

The controller is to be connected via cable with the RJ45 connector (see picture).



Dimensions of the controller (mm):
DITRONIC TOUCH
125 long x 90 high x 32 deep

Additional accessories for air curtain Nucleo 3000

- BMS 0-10V - control the unit by BMS 0-10V
- Door contact 24V - mechanical (DKM) or magnetical (DKMG) door contact
- TP - room thermostat 230V for wall mounting
- NUCLEO DELUX - in-built 2 way electrothermic valve including unit lighting
- Nucleo NEREZ - air curtain in brushed stainless steel, side plates in RAL 9007
- Flexible connection pipes
- Spare filters EU2
- A wide range of optional suspensions



Ergonomic shape of the intake grille for demanding interiors.



With its symmetric rounded shape the NUCLEO curtain becomes a highly visible part of the interior.



Optimum configuration of the exhaust adjustable louvers achieves maximum energy savings.

Nucleo 3000 10/2017 AN



Design air curtain

Nucleo 3000

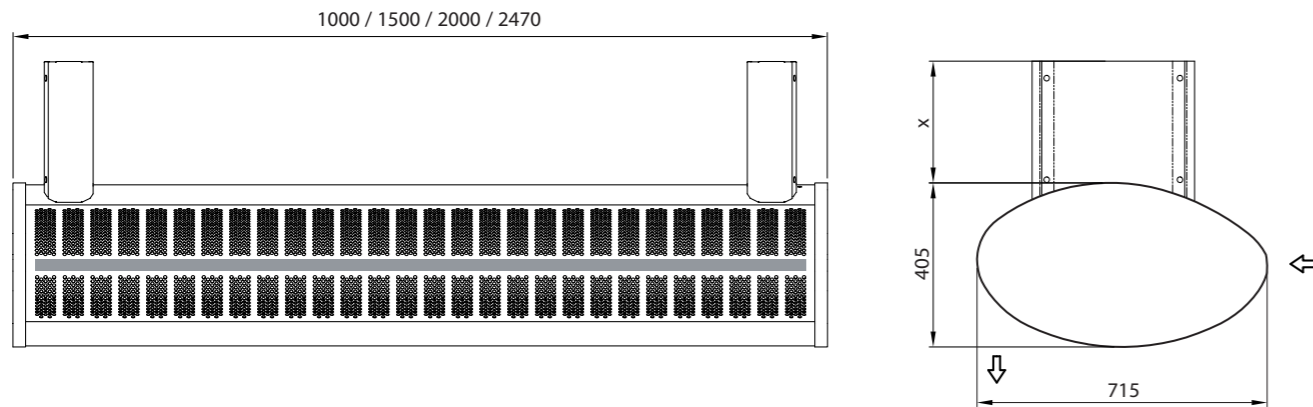
Dealership:

Basic description

The Nucleo 3000 design air curtains have been in our portfolio since onset of our production of the design air curtains. Their attractive shape, polished or brushed stainless steel or varnished design will satisfy all investors and architects.

Functionality and perfect design of the NUCLEO 3000 air curtain predestines it to installation in luxury and demanding interiors.

The NUCLEO 3000 design air curtain is a horizontal model for hot water and electric alternative of the heater. A wide range of the design suspensions offers variability in request for concealed connection of the hanging components, and media and electric wiring connections. The hot water models are fitted with a EU2 filter, deaerating and sludge valves, and high performance heat exchanger with performance reserve. The Nucleo door air curtain models are available up to 2.5m length with possible interconnection of the air curtains for a single control. Stainless steel casing of the unit can be delivered upon request.

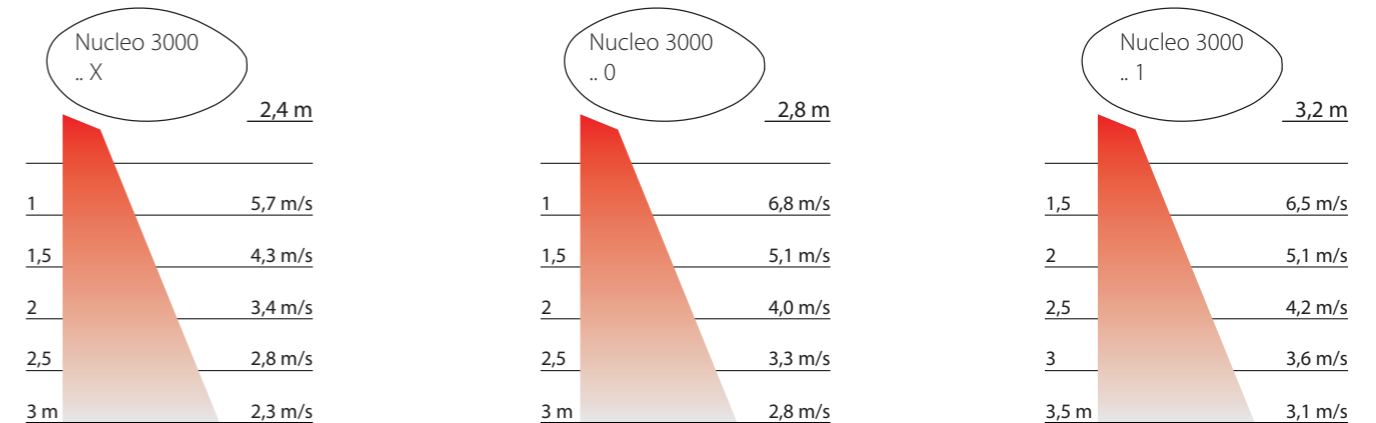


Technical data

Technical data		Nucleo 3000 10X W(E)	Nucleo 3000 100 W(E)	Nucleo 3000 101 W(E)	Nucleo 3000 15X W(E)	Nucleo 3000 150 W(E)	Nucleo 3000 151 W(E)	Nucleo 3000 20X W(E)	Nucleo 3000 200 W(E)	Nucleo 3000 201 W(E)	Nucleo 3000 25X W(E)	Nucleo 3000 250 W(E)	Nucleo 3000 251 W(E)
Airflow - water coil W	[m ³ /h]	1600	2120	2350	2400	3150	3450	3280	4100	5320	4090	4950	6150
Airflow - electric coil E	[m ³ /h]	1550	2150	2530	2480	3110	3420	3350	4000	5220	4180	4900	6600
Water coil heating capacity	[kW]	16,6	19,8	21	27,6	32,8	34,7	38,6	44,6	52,5	48,5	54,9	63
water 80/60°C / t _r =18°C	water pressure drop [kPa]	5,2	7,1	7,9	10,4	14,2	15,8	10,3	13,3	17,9	7,5	9,4	12
	water flow [m ³ /h]	0,7	0,9	0,9	1,2	1,4	1,5	1,7	1,9	2,3	2,1	2,4	2,7
Water connection size	[DN]	25	25	25	25	25	25	25	25	25	25	25	25
Electric coil** Max. heating capacity	[kW]	7,5	10	10	15	15	17,5	17,5	17,5	25	17,5	25	27,5
	mains voltage [V]	400	400	400	400	400	400	400	400	400	400	400	400
	section [quantity]	3	3	3	3	3	3	3	3	3	3	3	3
EC fan electrical data	fan power [W]	330	495	660	495	660	990	660	825	1320	825	990	1650
	fan current [A]	2,4	3,6	4,8	3,6	4,8	7,2	4,8	6	9,6	6	7,2	12
	fan voltage [V]	230	230	230	230	230	230	230	230	230	230	230	230
Control type	Ditronic Touch												
Protection class		IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22
Sound level*	dB (A)	57	59	58	59	60	60	60	61	62	61	62	63
Weight	[kg]	50	53	65	76	78	95	100	103	120	126	128	150

* Acoustic pressure Lp(A) measurement taken at a distance of 3m from the unit source.

Technical data and recommended airflow coverage for different types of units.



Design properties

- A modern unibody round-shaped structure from metal sheet varnished with RAL 9007 (or other RAL) or from stainless-steel metal sheet.
- Dampened exhaust of the curtain for maximum noise level reduction.
- Highly effective Cu/Al heat exchangers. The Cu/Al 1.6MPa/90°C heat exchangers are available for standard media gradients, and powerful reinforced heaters can be delivered for low-temperature media (60/40; 60/30°C).
- Desludging valves in series connection for hot-water heat exchangers; built-in 2-way electrothermic valve for exhaust or space air temperature control; EU2 quality filters installed as standard – easily removable and detachable.

- The EC fans with dynamic and static stability for high performance and quiet operation, with overload thermal protection.
- The standard three-step electric heaters with heating elements are fitted with spirals with stainless braiding for effective cooling of the body; protection and operation components provide failure-free operation including full electric outfit.

Optional suspensions for Nucleo design curtain.

With a selection from many types of the hanging models, the Nucleo curtain becomes an integral part of demanding architectonic designs. The special structure of all hinge types makes sure the power cables, hot water, and the supporting components are neatly concealed.

