



Design vertical air curtain

Tubex, Tubex XL



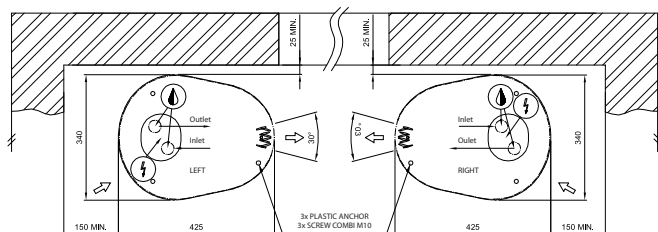
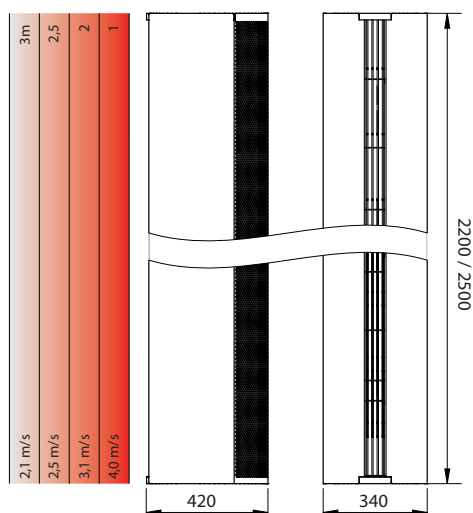
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Description and technical data

The design of the Tubex and Tubex-XL door air curtain makes it suitable for the interiors with high appearance demands, and they are an irreplaceable part of your interior for their price-performance ratio. They are characterized by curved ergonomic shapes, and compact dimensions predetermine them for easy installation in the interior of new buildings, or as a supplemental solution for the existing spaces.

The air curtains are designed for vertical, one-sided or double-sided installation; all air curtain models have highly effective directional slats in their standard version. Both models are available for hot-water or electric version, or in a version without heating.

Tubex



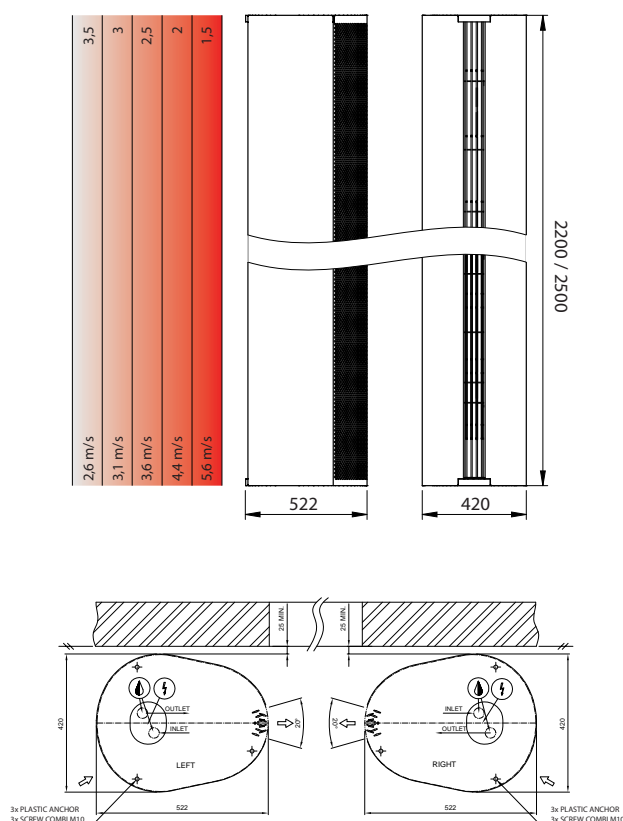
Technical data		TUBEX 2200 W	TUBEX 2200 W-NX	TUBEX 2200 E	TUBEX 2200 S	TUBEX 2500 W	TUBEX 2500 W-NX	TUBEX 2500 E	TUBEX 2500 S
Airflow	[m³/h]	3480	4150	3700	3750	4150	4150	4200	4280
Water coil	heating capacity [kW]	38,4	29,1*	-	-	45,2	30,4*	-	-
water 80/60°C / t _r =18°C	water pressure drop [kPa]	27,1	11,3*	-	-	11,9	7,7*	-	-
	water flow [m³/h]	1,7	1,7*	-	-	2	1,7*	-	-
Connection	[DN]	20	20	-	-	20	20	-	-
Electric coil	heating capacity alt 1 Max. [kW]	-	-	10	-	-	-	12,5	-
	heating capacity alt 2 Max. [kW]	-	-	12,5	-	-	-	15	-
	heating capacity alt 3 Max. [kW]	-	-	15	-	-	-	17,5	-
	heating capacity alt 4 Max. [kW]	-	-	17,5	-	-	-	22,5	-
	mains voltage [V]	-	-	400	-	-	-	400	-
Fan	fan power [W]	850	1010	850	850	1010	1200	1010	1010
	fan current [A]	4,5	5,4	4,5	4,5	5,4	6,3	5,4	5,4
	fan voltage [V]	230	230	230	230	230	230	230	230
Controller	ECON, DITRONIC TOUCH								
Protection class		IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Sound level**	dB (A)	57	59	57	57	59	59	59	59
Weight	[kg]	90	100	90	75	100	110	100	85

* for temperature water drop 50/35/18°C

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

- Contemporary unibody of the curved shape from RAL 9016, 3002 (or other RAL) painted metal sheet or stainless steel with directional exhaust slats in RAL as required.
- The fans with dynamic and static stability for high performance and quiet operation are provided in standard with thermal contacts for overload protection.

Tubex XL



- To make the air curtain highly stable and easily fixable to the floor, the air curtain is provided with an integrated reinforced anchor plate through which media openings (hot water, electricity connections) are made. For the air curtains installed in already finished interior installations, we offer connection of the utilities from above as well.
- Dampened exhaust of the curtain for maximum noise level reduction.
- For hot-water heat exchangers, built-in desludging and automatic deaeration valves fitted in series, built-in thermo-electric valve for control of exhausted air, standard fitting of the EU2 quality filters.
- The review board as a part of the unit housing and open grid provide sufficient space for problem-free maintenance of the unit.
- 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.

Technical data		TUBEX XL 2200 W	TUBEX XL 2200 W-NX	TUBEX XL 2200 E	TUBEX XL 2200 S	TUBEX XL 2500 W	TUBEX XL 2500 W-NX	TUBEX XL 2500 E	TUBEX XL 2500 S
Airflow	[m³/h]	5100	6250	5400	5450	5750	6750	6480	6530
Water coil	heating capacity [kW]	49,4	39,1*			56,7	43,5*	-	-
	water 80/60°C / t _r =18°C								
	water pressure drop [kPa]	13,3	11,6*			10,8	10,1*	-	-
	water flow [m³/h]	2,1	2,2*			2,5	2,5*	-	-
Connection	[DN]	25	25	-	-	25	25	-	-
Electric coil	heating capacity alt 1 Max. [kW]	-	-	12,5	-	-	-	15	-
	heating capacity alt 2 Max. [kW]	-	-	15	-	-	-	17,5	-
	heating capacity alt 3 Max. [kW]	-	-	17,5	-	-	-	22,5	-
	heating capacity alt 4 Max. [kW]	-	-	20	-	-	-	25	-
	mains voltage [V]	-	-	400	-	-	-	400	-
Fan	fan power [W]	1350	1620	1350	1350	1620	1890	1620	1620
	fan current [A]	7,2	8,7	7,2	7,2	8,7	10	8,7	8,7
	fan voltage [V]	230	230	230	230	230	230	230	230
Controller		ECON, DITRONIC TOUCH							
Protection class		IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Sound level**	dB (A)	60	61	60	60	62	63	62	62
Weight	[kg]	110	120	105	90	120	130	115	100

* for temperature water drop 50/35/18°C

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

Control

Econ controller:



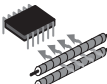



the controller is intended for the fan and heating (both electric and water) control with the possibility to connect external elements, such as door contact, room or outlet thermostat.

Dimensions: 71 x 71 x 25 mm

Econ controllers are intended for wall mounting only and have protection to IP20.



Econ controller features:

	potential-free door contact incl. adjustable time delay	standard		small size of the controller, wall mounting, easy handling	standard
	Processor control of the unit against overheating of the electro heater	standard		electrothermic valve control	standard
	room thermostat unit control via external remote contact	standard		unit chaining in Master/Slave system	only with Econ Dual controller

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.

DITRONIC TOUCH



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:
125 long x 90 high x 32 deep

Most common functions



Regulation via room or outlet temperature settings. The system allows to control the temperature according to the room or outlet air temperature. There is an inbuilt function to restrict the min. outlet temperature at the same time.



Superior system – 3-step BMS. The whole unit can be regulated by the superior regulation system. 3-grade control of heating and fan is inbuilt in standard. At this kind of control the unit is completely controlled by BMS (building management system).



Week time clock. The unit is programmable with simple calendar settings in order to run in different mode on working days and during the weekend (options: 1-7 or 1-5 and 6-7).



Room anti-frost protection. The room sensor controls the temperature inside of the room and sends a signal to the Ditronic controller to avoid the risk of freezing.



Door contact. The unit can be controlled with the door contact. After the door is closed, the delayed running is activated. The delayed time period is adjustable.



MASTER/SLAVE
The units can be connected in series as Master and Slaves. The room sensor is used for MASTER unit only.

For more functions see Li-catalogue.

Optional accessories for air curtain Tubex, Tubex XL

- BMS 0-10V - control the unit by BMS 0-10V
- Door contact 24V - magnetical (DKMG) door contact
- TP - room thermostat 230V for wall mounting
- PPH 3/4" - - 300mm long flexible connection pipes with stainless steel or braided reinforcement for ease of connection from the air curtain connections to the system connections. Set consists of 2 number pipes to DN 20.
- Spare filters EU2
- Valve - According to the customer requirements, the water heat exchanger can be delivered with integrated 2-way or 3-way valve with a regulation head. The valve gearing can be thermostatic or electrothermic.

Options of unit casing:

The casing of the unit can be produced in three standard versions and is to be combined with one of the outlet grille options listed here on the right.

CAS 9016



CAS 3002

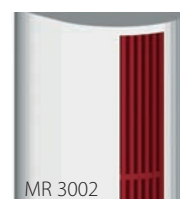


CAS inox



Options of the outlet grille

The outlet grille can be produced in a wide range of colour options and is to be combined with one of the unit casing options MR...



Ordering key:

Tubex (NX) – 2200 – W – R – CAS 9016/MR 3002
Tubex XL (NX) – 2200 – W – R – CAS 9016/MR 3002

heater for low
-temperature
drop

2200; 2500
2200 - unit height mm
2500 - unit height mm

P - heater connec-
tions on the
right side -
front side view

L - heater connec-
tions on the
left side - front
side view

**COLOUR OF UNIT
CASING - CAS**

CAS 9016
CAS 3002
CAS stainless
number code defines
the RAL colour

**Colour of the
outlet grille - MR**

MR 3002	MR 9016
MR 5018	MR 5022
MR 5229	MR 7045
MR 6018	MR 5002
MR 9005	MR 6026

W	- water heated 80/60°C event. 60/40°C
S	- ambient unit without heater
E 10	- electric heating 400V - 10 kW; unit height 2200 mm
E 12,5	- electric heating 400V - 12,5 kW; unit height 2200, 2500 mm
E 15	- electric heating 400V - 15 kW; unit height 2200, 2500 mm
E 17,5	- electric heating 400V - 17,5 kW; unit height 2200, 2500 mm
E 22,5	- electric heating 400V - 22,5 kW; unit height 2500 mm



Distributor: