

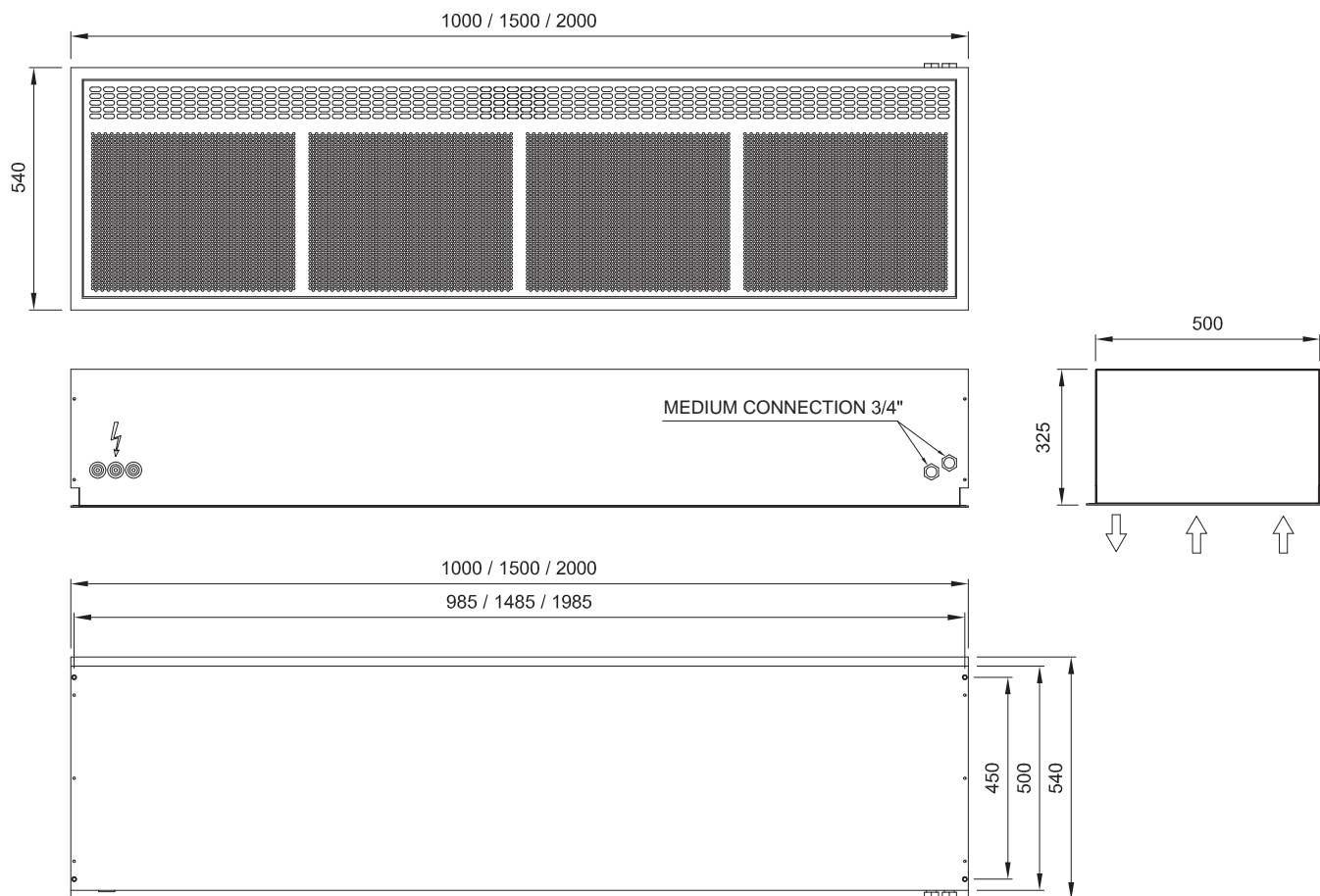
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**Suspended ceiling air curtain**

**Econ - C**

**Econ-C** is an air curtain intended for ceiling mounting. Standard dimensional range and simple version determines Econ-C for applications in individual shops in the shopping centres, in boutiques, restaurants, banks or hotels. Control facility is secured by a control with accurate processor system for maximal comfort operating. Main advantages of air curtains Econ-C are price availability, fast and easy mounting, low noise level, used materials and components of high quality and also small dimensions of the unit.

To already full facilities of air curtains it is possible to use wide range of accessories, at water heated version is a possibility of heating capacity regulation by a valve, at electric version is a possibility of electric heater selection from several alternatives.



<b>Technical data:</b>		Econ C 100 S	Econ C 150 S	Econ C 200 S	Econ C 100 W	Econ C 150 W	Econ C 200 W
Air curtain length	mm	1000	1500	2000	1000	1500	2000
Air volume	m <sup>3</sup> /h	2150	3100	4400	2000	3000	4300
Heating capacity 80/60 °C	kW	-	-	-	11,5	20	28,7
	kPa	-	-	-	1,8	6,8	5,9
	l/hod	-	-	-	468	828	1224
Heating capacity 60/40 °C	kW	-	-	-	6,2	11,3	16,2
	kPa	-	-	-	0,6	2,6	2,2
	l/hod	-	-	-	252	468	684
Unit voltage	V	230 V	230 V	230 V	230 V	230 V	230 V
	W	147	298	298	147	298	298
	A	1,5	3,0	3,0	1,5	3,0	3,0
Motor degree of protection	IP	20	20	20	20	20	20
Control		Econ	Econ	Econ	Econ	Econ	Econ
Noise level	dB (A)**	56	58	59	56	58	59
Weight	kg	29	43	52	41	62	79

<b>Technical data:</b>		Econ C 100 E5	Econ C 100 E7,5	Econ C 100 E10	Econ C 150 E9	Econ C 150 E13	Econ C 150 E16	Econ C 200 E10	Econ C 200 E14,5	Econ C 200 E19,5
Air curtain length	mm	1000	1000	1000	1500	1500	1500	2000	2000	2000
Air volume	m <sup>3</sup> /h	2100	2100	2100	3050	3050	3050	4300	4300	4300
Heating capacity	electric	5 kW	7,5 kW	10 kW	9 kW	13 kW	16 kW	10 kW	14,5 kW	19,5 kW
Grades of electric heater		2	2	2	2	2	2	2	2	2
Unit voltage	V	400 V	400 V	400 V	400 V	400 V	400 V	400 V	400 V	400 V
	W	147	147	147	298	298	298	298	298	298
	A	1,5	1,5	1,5	3,0	3,0	3,0	3,0	3,0	3,0
Motor degree of protection	IP	20	20	20	20	20	20	20	20	20
Control		Econ	Econ	Econ	Econ	Econ	Econ	Econ	Econ	Econ
Noise level	dB (A)**	56	56	56	58	58	58	59	59	59
Weight	kg	36	37	37	55	55	55	69	69	69

\*] heating capacity based on 18 °C air inlet temperature \*\*] acoustic pressure dB(A) measured at a distance of 3m

## Accessories for Econ-C air curtains

**Valve:** according to the customer's request it is possible to deliver 2-way or 3-way-valve. Control head of the valve can be either self-acting (thermostatic) or electrothermic. Electrothermic head of the valve must be connected into the electronic placed in the unit and it is necessary to connect the thermostat. All valves are delivered as loose – uninbuilt, due to space reasons.

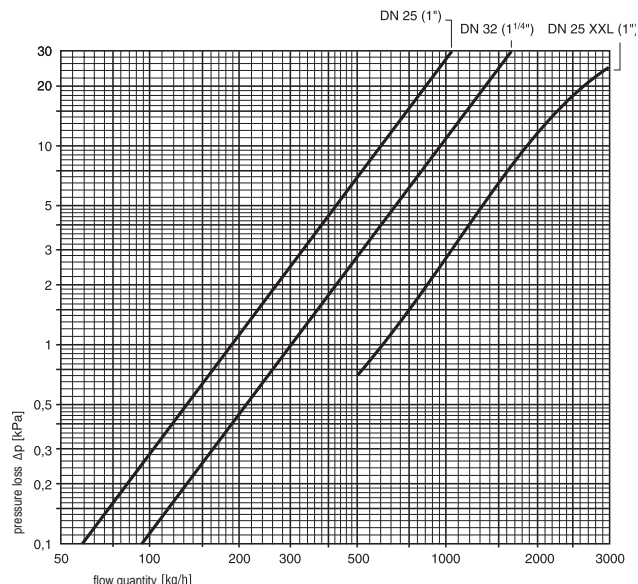
2-way-valve	$k_v \cdot t$ value	allowed running temperature [°C]	allowed running pressure [bar]	allowed pressure difference p [bar]
DN 25 (1")	2,5	120	10	0,25
DN 32 (5/4")	3,8	120	10	0,25
DN 25 XXL (1")*	4,3	120	16	0,20

\* high flow valve

\*\* for DN23, 32 valid for [K] 3.0; for DN25 XXL valid for [K] 6.0



**Room thermostat:** 230V wall mounting, version TP1 or TP2 with a switch (delivered loose)  
picture – Thermostat.



**Door contact:** 24 V, DKM or DKMG  
DKM - mechanical door contact  
DKMG - magnetical door contact

**Outlet thermostat:**  
230V, mounting into the unit, the capillary is placed in the outlet space, the thermostat is delivered loose

## Control: Econ

Control description: the control is intended for fan and heater regulation (water heated and also electric) with connection possibility of external elements (door contact, room or outlet thermostat). For electric versions is a part of the electronic in the unit a protection against heater overheating with an automatic fan delay.

**Dimensions:** 71 x 71 x 25

The control is intended only for wall mounting. IP 20

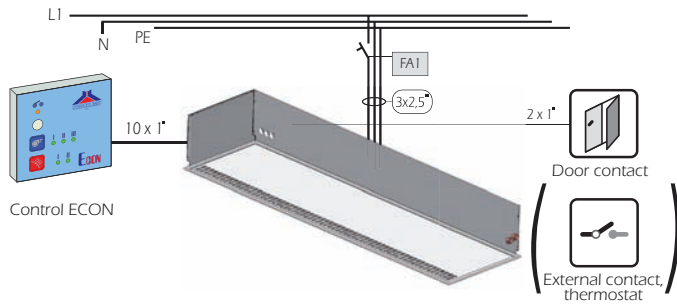


## Econ control functions:

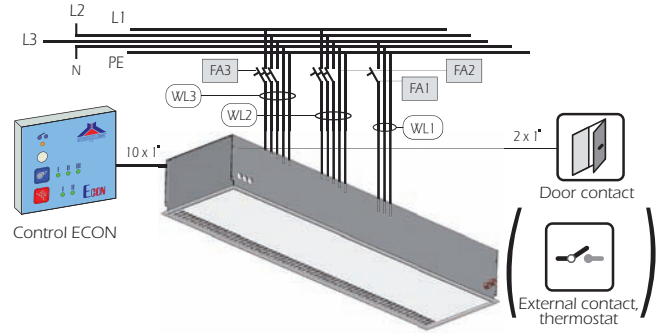
	Free potential door contact incl. adjustable delay of the unit	<b>standard</b>		Small control dimensions, wall mounting, ergonomical design	<b>standard</b>
	Processor control of the unit against overheating of the electro heater	<b>standard</b>		Possibility of electrothermic valve control	<b>standard</b>
	Room thermostat, control via external remote contact	<b>standard</b>		Chaining possibility in the system Master/Slave	<b>is not possible</b>

# Air curtain Econ-C

Water heated air curtains – diagram



Electric air curtains – diagram



## Order key:

Econ-C - 100 - W

100; 150; 200

100 - unit length 1000mm

150 - unit length 1500mm

200 - unit length 2000mm

W - heat exchanger 80/60°C event. 60/40°C  
 S - ambient unit without heater  
 E 5 - electric heater 400V - 5kW; unit length 1m  
 E 7,5 - electric heater 400V - 7,5kW; unit length 1m  
 E 9 - electric heater 400V - 9kW; unit length 1,5m  
 E 10 - electric heater 400V - 10kW; unit length 1 and 2m  
 E 13 - electric heater 400V - 13,5kW; unit length 1,5m  
 E 14,5 - electric heater 400V - 15kW; unit length 2m  
 E 16 - electric heater 400V - 16,5kW; unit length 1,5m  
 E 19,5 - electric heater 400V - 19,5kW; unit length 2m

Tablet of cables and protection for water heated models

FA1	1 X 10A/C	WL1	3Cx 1,5 (2,5)
FA2	See tablet. EO	WL2	See tablet. EO
FA3	See tablet. EO	WL3	See tablet. EO

Tablet of cables and protection for electric heated models

Electric heater	cable (WL2)	circuit breaker (FA2)	cable (WL3)	circuit breaker (FA3)
5 kW	5C x 4	3 x 16 A/B	5C x 4	3 x 16A/B
7,5 kW	5C x 4	3 x 16 A/B	5C x 4	3 x 16A/B
9 kW	5C x 2,5	3 x 10 A/B	5C x 2,5	3 x 10A/B
10 kW	5C x 4	3 x 16 A/B	5C x 4	3 x 16A/B
13 kW	5C x 4	3 x 16 A/B	5C x 4	3 x 16A/B
14,5 kW	5C x 4	3 x 16 A/B	5C x 6	3 x 25A/B
16 kW	5C x 4	3 x 16 A/B	5C x 6	3 x 25A/B
19,5 kW	5C x 4	3 x 16 A/B	5C x 6	3 x 25A/B

## Accessories:

- ◆ Flexible tubes
- ◆ Thermostatic valve
- ◆ Ceiling suspensions

