



Suspended ceiling
air curtain

Econ C

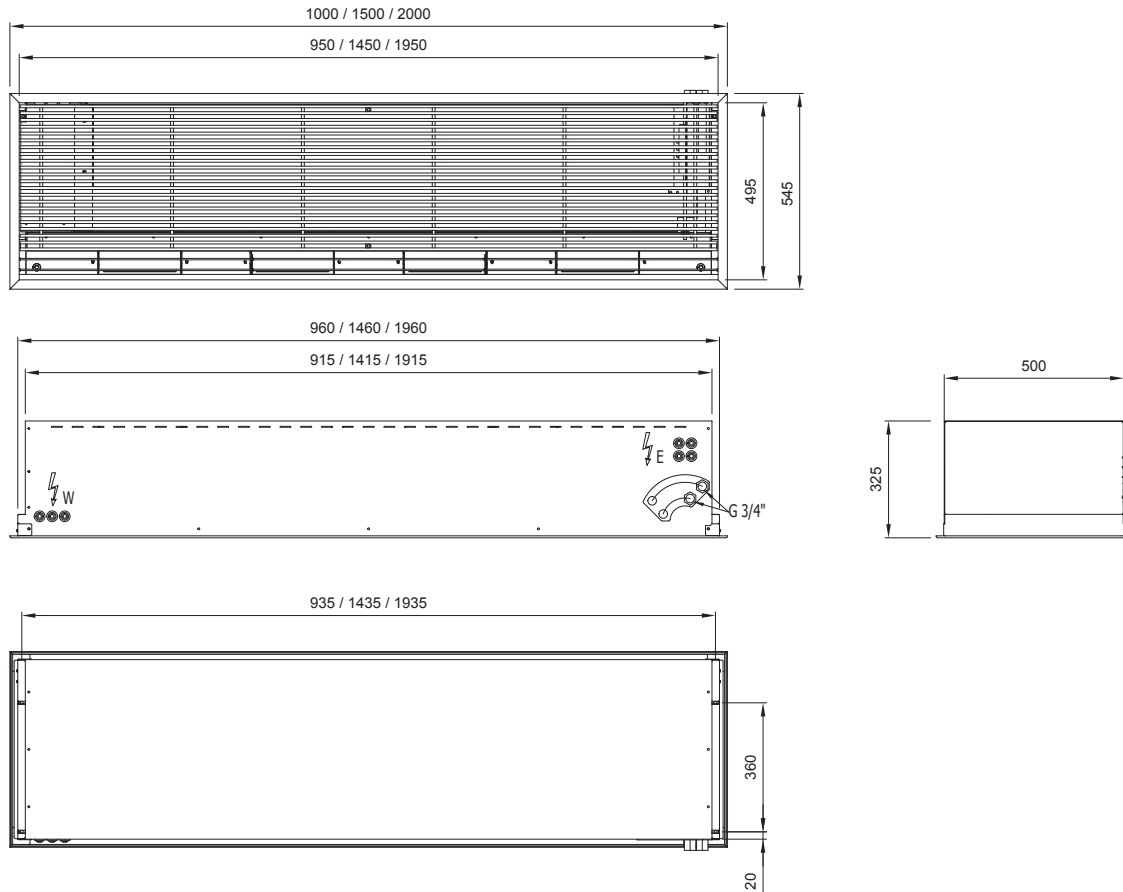


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Description and technical data

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.



Technical data	Econ C 100 S	Econ C 150 S	Econ C 200 S	Econ C 100 W	Econ C 150 W	Econ C 200 W	Econ C 100 E5	Econ C 100 E7,5	Econ C 100 E10	Econ C 150 E10	Econ C 150 E12,5	Econ C 150 E15	Econ C 150 E17,5	Econ C 200 E10	Econ C 200 E12,5	Econ C 200 E15	Econ C 200 E17,5	Econ C 200 E20	
Airflow [m³/h]	2150	3100	4400	2000	3000	4300	2100	2100	2100	3050	3050	3050	3050	4300	4300	4300	4300	4300	
Water coil heating capacity [kW]	-	-	-	11,5	20	28,7	-	-	-	-	-	-	-	-	-	-	-	-	
water 80/60°C./t=18°C. water pressure drop [kPa]	-	-	-	1,8	6,8	5,8	-	-	-	-	-	-	-	-	-	-	-	-	
Water Flow [m³/h]	-	-	-	0,5	0,9	1,2	-	-	-	-	-	-	-	-	-	-	-	-	
Water Connection size [DN]	-	-	-	20	20	20	-	-	-	-	-	-	-	-	-	-	-	-	
Electric coil Max. heating capacity [kW]	-	-	-	-	-	-	5	7,5	10	10	12,5	15	17,5	10	12,5	15	17,5	20	
mains voltage [V]	-	-	-	-	-	-	400	400	400	400	400	400	400	400	400	400	400	400	
Fan electrical data for air curtains with coil N and ambient air curtains.																			
power [W]	540	810	1080	540	810	1080	540	540	540	810	810	810	810	1080	1080	1080	1080	1080	
current [A]	2,4	3,6	4,8	2,4	3,6	4,8	2,4	2,4	2,4	3,6	3,6	3,6	3,6	4,8	4,8	4,8	4,8	4,8	
voltage [V]	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	
Control type	Econ, Econ Dual, Ditronic Touch																		
Protection class	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	IP22	
Sound level* dB (A)	56	58	59	56	58	59	56	56	56	58	58	58	58	59	59	59	59	59	
Weight [kg]	29	43	52	41	62	79	36	36	36	62	62	62	62	79	79	79	79	79	

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

Controller: Econ

Controller description: Econ is intended for fan and heater (water heated or ambient) control, with connection possibility of external elements (door contact, room or outlet thermostat).

Dimensions: w. 71 x h. 71 x d. 25 mm
The controller is intended only for wall mounting. IP 20



Functions of Econ control:

	Free potential door contact incl. time delay	standard
	Connection in Master / Slave	with controller Econ Dual only
	Room thermostat, control via external remote contact	standard
	Small control dimensions, wall mounting	standard
	Possibility of electrothermic valve control	standard
	Processor control of the unit against overheating of the electro heater	standard

Controller: Ditrionic Touch

Ditrionic 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 intended for wall mounting IP 20. Control connection via cable with connector RJ 45, see pic.



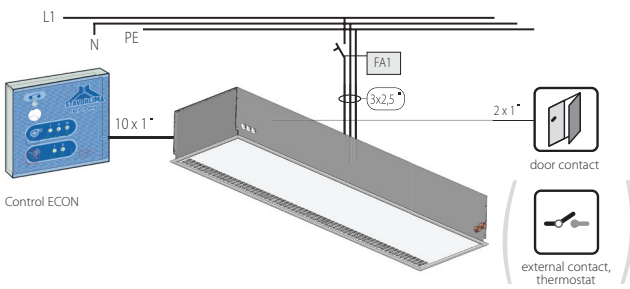
Dimensions:
w. 125 x h. 90 x d. 32 deep

Functions of Ditrionic Touch:

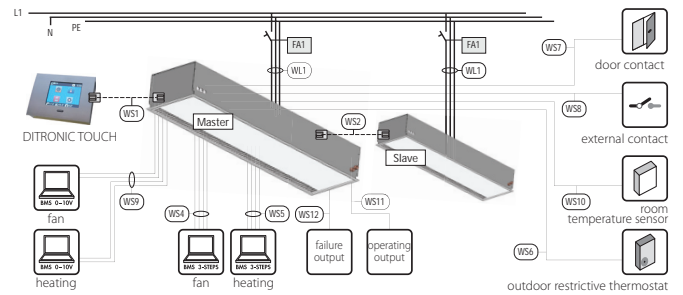
- control of the air curtain according to the room or outlet air temperature
- setting the valve function for door contact
- automatic mode
- room anti-frost protection
- week time clock.

For other functions see catalogue **Li**.

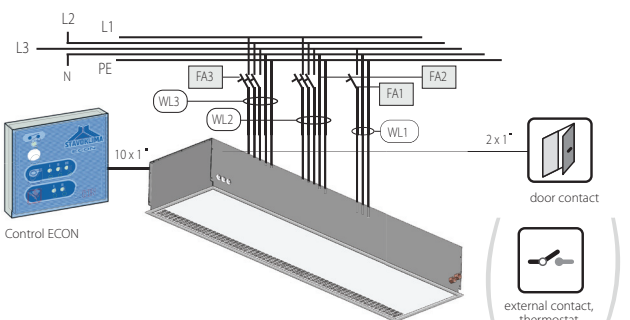
Water heated air curtains – diagram



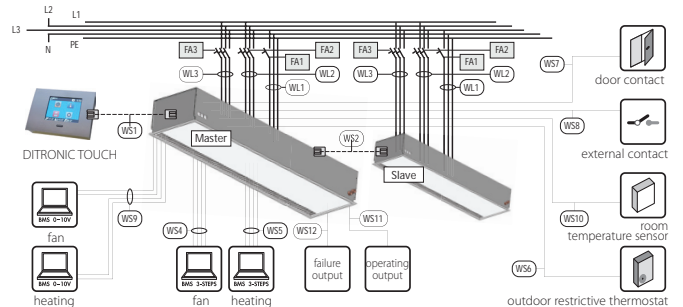
Water heated air curtains – diagram



Electrically heated air curtain



Electrically heated air curtain



Accessories, order key

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.

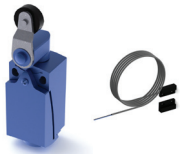
Temperature regulation



Thermostatic head for 2-way valve or 3 way valve



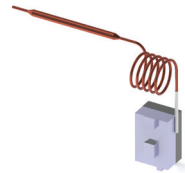
Thermoelectric gearing for 2-way or 3-way valve



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



PPH 3/4":
flexible pressure tubes with stainless or reinforced sleeve for easy & comfortable-connection of the water heat exchanger with a female thread, set of 2 pieces, length 300mm, DN 20.



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



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

Wall suspension ZS

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 alternatively 60/40°C
S	- ambient unit without heat exchanger
E 5	- electric heater 400V - 5 kW; unit length 1000 mm
E 7,5	- electric heater 400V - 7,5 kW; unit length 1000 mm
E 10	- electric heater 400V - 10 kW; unit length 1500 mm
E 10	- electric heater 400V - 10 kW; unit length 1000 a 2000 mm
E 12,5	- electric heater 400V - 12,5 kW; unit length 1500 mm
E 15	- electric heater 400V - 15 kW; unit length 1500 mm
E 17,5	- electric heater 400V - 17,5 kW; unit length 2000 mm
E 10	- electric heater 400V - 10 kW; unit length 2000 mm
E 12,5	- electric heater 400V - 12,5 kW; unit length 2000 mm
E 15	- electric heater 400V - 15 kW; unit length 2000 mm
E 17,5	- electric heater 400V - 17,5 kW; unit length 2000 mm
E 20	- electric heater 400V - 20 kW; unit length 2000 mm

Table of cables and protection for water heated models

FA1	1 x 10A/C	WL1	3Cx 1,5 (2,5)
FA2	see table EO	WL2	see table EO
FA3	see table EO	WL3	see table EO

Table of cables and protection for electric heated models

	electric heater	cable (WL2)	Circuit breaker (FA2)	cable (WL3)	Circuit breaker (FA3)
Air Curtain 100	5 kw	5Cx4	3x16A/B	5Cx4	3x16A/B
	7,5 kw	5Cx4	3x16A/B	5Cx4	3x16A/B
	10 kw	5Cx4	3x16A/B	5Cx4	3x16A/B
Air Curtain 150	10 kw	5Cx4	3x16A/B	5Cx4	3x16A/B
	12,5 kw	5Cx4	3x16A/B	5Cx4	3x16A/B
	17,5 kw	5Cx4	3x16A/B	5Cx6	3x32A/B
Air Curtain 200	10 kw	5Cx4	3x16A/B	5Cx4	3x16A/B
	12,5 kw	5Cx4	3x16A/B	5Cx4	3x16A/B
	15 kw	5Cx4	3x16A/B	5Cx4	3x16A/B
	17,5 kw	5Cx4	3x16A/B	5Cx6	3x32A/B
	20 kw	5Cx4	3x16A/B	5Cx6	3x32A/B

Representative: