

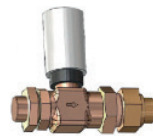
Controllers functions

Comparison of Econ and Ditronic Touch controller

	Econ	Ditronic Touch
 Wall-mounted control panel	✓	✓
 Local fan revolutions control	✓	✓
 Global system fan revolutions control – 3-step	X	✓
 Global system fan revolutions control – 0–10V signal	X	✓*
 ModBUS protocol fan revolutions control	X	✓
 Fan revolutions control based on outdoor temperature	X	✓
 Local heating control	✓	✓
 Global system heating control – 3-step	X	✓
 Global system heating control – 0–10V signal	X	✓*
 ModBUS protocol heating control	X	✓
 Heating control based on room or exhaust temperature	X	✓
 Operation and failure signalling to the global system	X	✓
 Week time hours	X	✓
 Anti-freeze heat exchanger protection	X	✓
 Heat up mode selection – winter/summer	X	✓
 Keyboard lock to protect against unintentional change	X	✓
 MASTER/SLAVE concatenation	✓**	✓
 Optional connection of external contact	X	✓
 Limiting exterior thermostat	X	✓
 Device automatic operation	X	✓
 Valve function configuration for door interlock	X	✓
 Remote radio control	X	✓
 Exhaust and room temperature display, medium temperature display	X	✓
 Air curtain heating up mode	X	✓
 Filter maintenance notice display	X	✓
 HELPTRONIC function – interactive guide for connection of the air curtain and the controller setup	X	✓

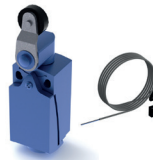
* with an external module / ** Econ Dual controller

Accessories and order key



Valves

As required by the customer, a built-in 2-way or 3-way valve with control actuator can be supplied for the hot water heat exchanger. The valve actuator can be supplied a automatic (thermostatic) or electrothermic. Opening time approx. 4 min. when starting from a cold state. When the supply voltage is interrupted, the thermal actuator or valve opens smoothly. The actuator is always delivered in "normally open" (NO – 230V/3W) version).



Door contact: 24 V

DKM - mechanical door contact
DKMG - magnetic door contact



Room thermostat: 230V

- wall mounting
- basic version, with a switch, digital or industry with IP54



Communication cable PK 8/x

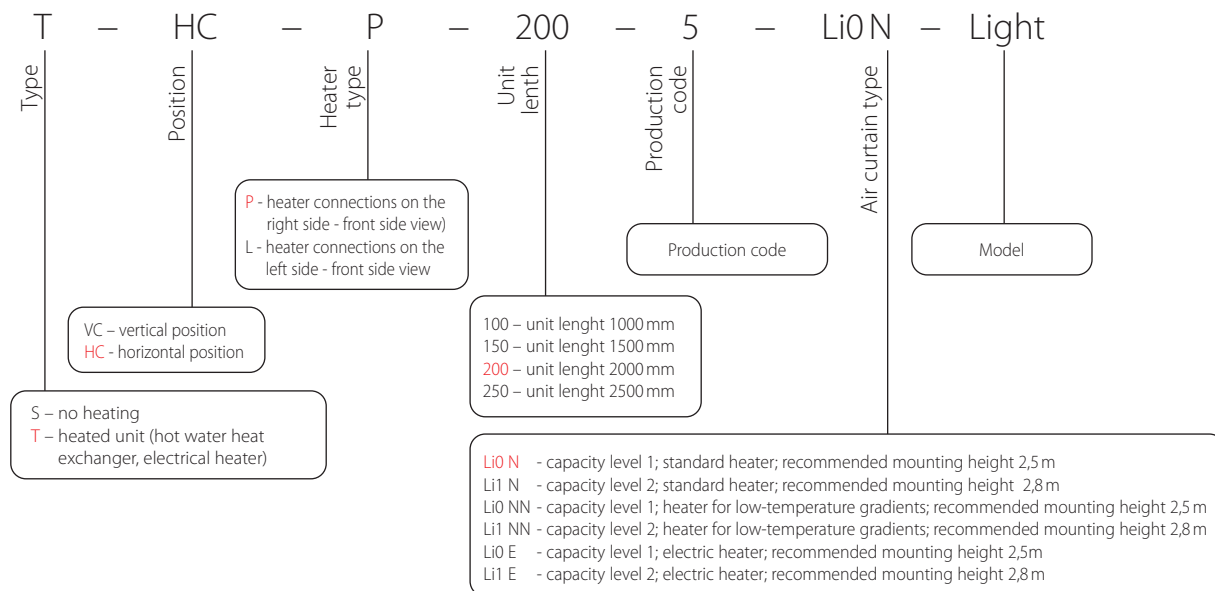
- connecting communication cable between the air curtain and the controller
- available in lengths from 1m up to 20m



PPH 3/4":

- 300mm long flexible connection pipes with stainless steel or braided reinforcement for easy connection of heat exchanger
- set consists of 2 pieces, DN 20

Order key



Li-light ERP 03/2021 An



Comfort Door Air Curtain

Li-light

LYNGSON



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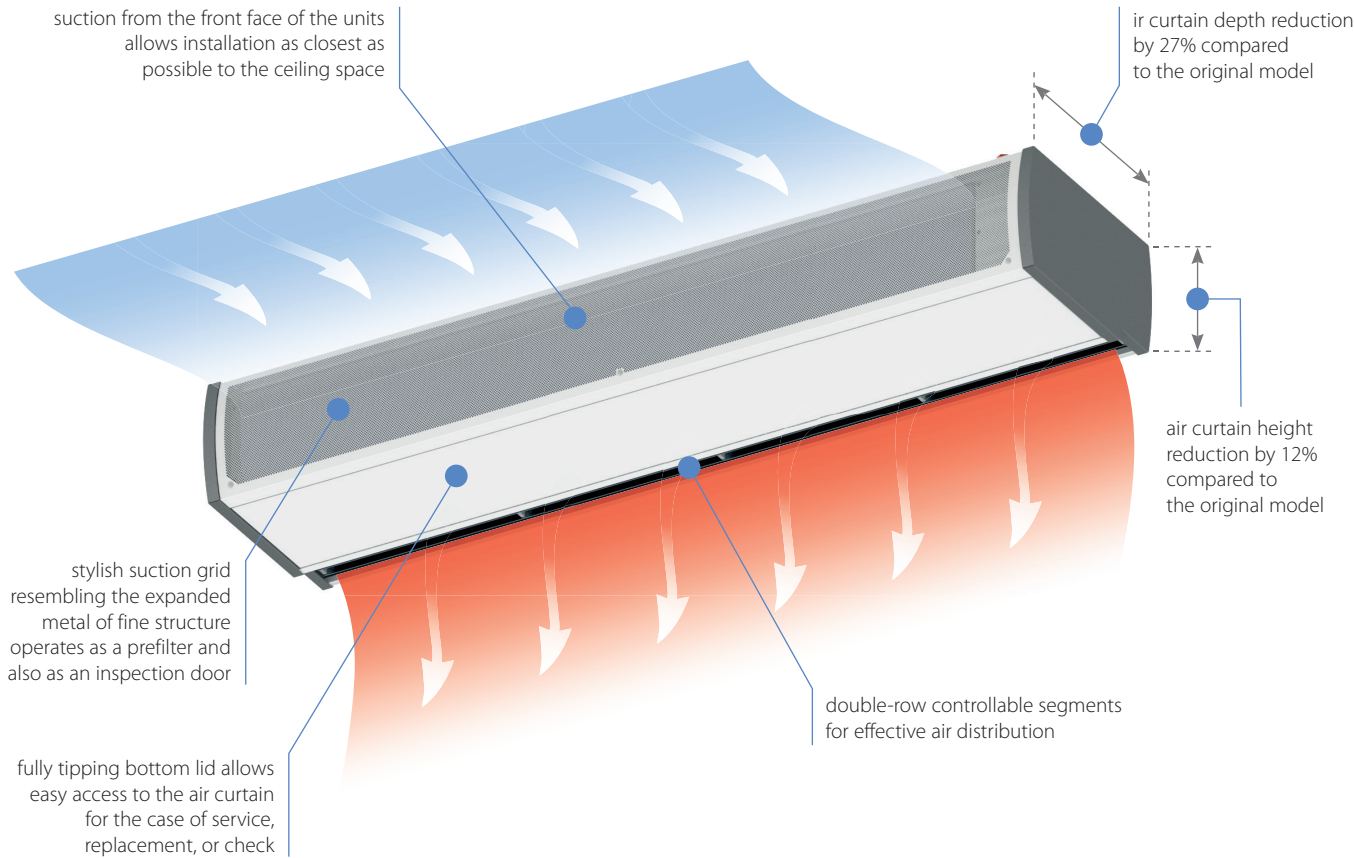
Description

The Li-Light air curtain is a light version of the Li air curtain but for at excellent price and at identical output parameters. Owing to its design and compact dimensions, the air curtain is suitable for interiors of high appearance standards, such as shop units in the shopping malls, boutiques, restaurants, banks, or hotel lobbies or lobbies of the office buildings.

The air curtain is a device, which produces a natural air barrier against penetration of cold air into heat environment; in summer, it operates as a protection against penetration of hot summer air to the spaces being air conditioned. The use of the air curtain can save high cooling costs in the air conditioned spaces. To control the air curtain, offered is the variant of the wall mounted Econ

controller with basic functions, or technologically advanced Ditronic Touch controller with a touch display and a wide range of advanced functions, including connection to superior control system (BMS or Modbus).

The Li-Light air curtains are available in lengths from 1,0m to 2,5m, and recommended for installation height no more than 2,8m, and hot-water, electric, or no-heating option is available. Included in each model is an adjustable slat for optimum air flow setting. A wide range of accessories is available for the unit, for example, thermostatic valve, exhaust or room thermostat, or a door contact. The air curtain colour design is RAL 9010 with side bars in RAL 9007.



The Li-Light door air curtains are in particular designed for:

- banks and hotels
- office buildings
- restaurants
- museums and libraries
- shops and supermarkets
- clinics and residential buildings

For curtaining, the following may be used:

- circulating air - at room temperature
- circulating air - heated by hot-water or electric heater

Technical data

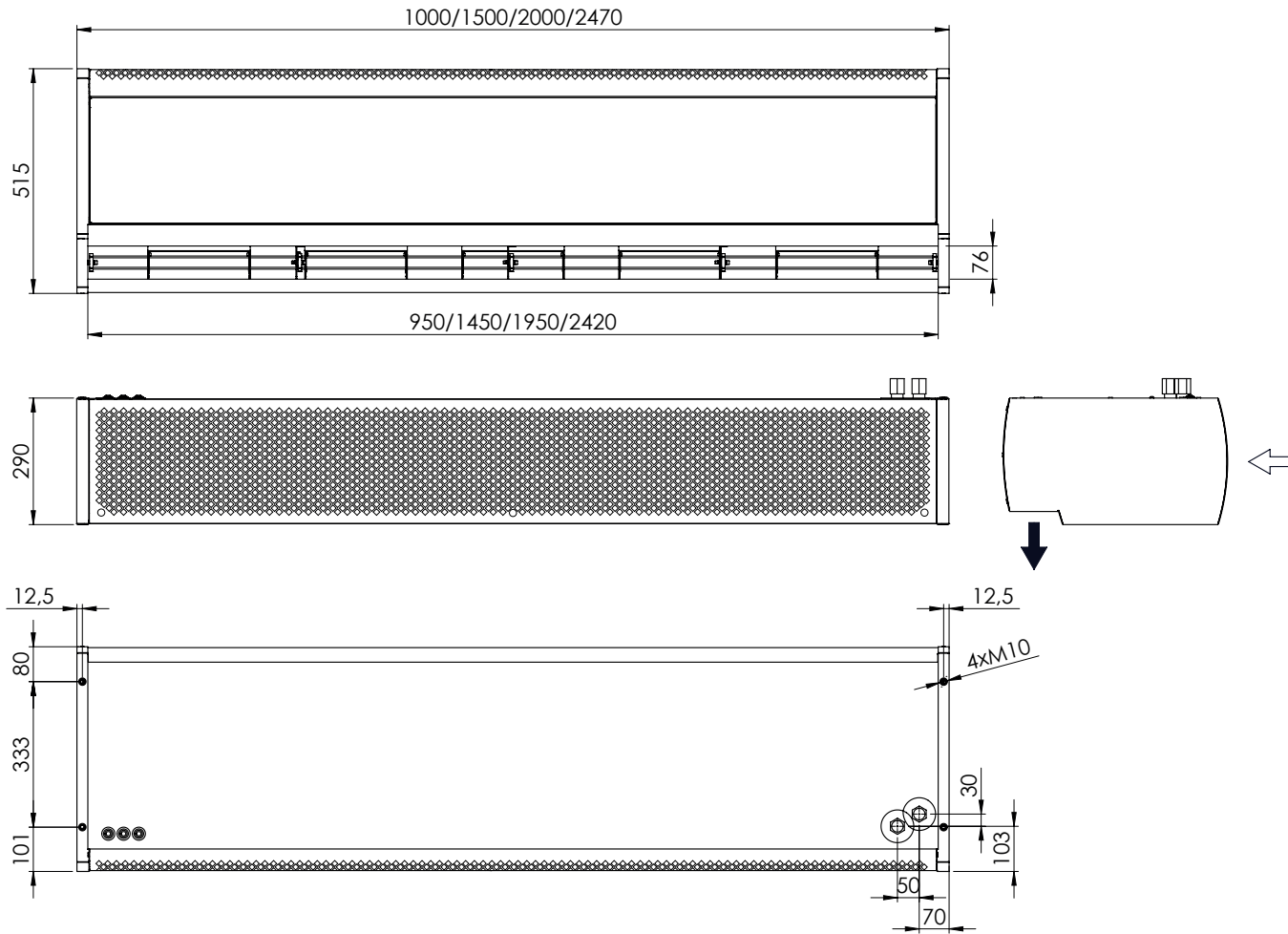
Technical data N / E	THCP 100-5-Li0 N(E) Light	THCP 150-5-Li0 N(E) Light	THCP 200-5-Li0 N(E) Light	THCP 250-5-Li0 N(E) Light	THCP 100-5-Li1 N(E) Light	THCP 150-5-Li1 N(E) Light	THCP 200-5-Li1 N(E) Light	THCP 250-5-Li1 N(E) Light
Air volume [m³/h]	2100	3200	4300	5400	2600	3650	5250	6380
Hot-water coil N (water 80/60°C, ti=18°C)								
capacity [kW]	13,5	22,5	32,3	40,9	15,1	24,3	36,2	45
pressure loss [kPa]	7	5,1	12,6	9,7	8,6	5,8	15,5	11,5
flow volume rate [m³/h]	0,58	0,94	1,37	1,73	0,65	1	1,55	1,9
Hot-water coil N (water 60/40°C, ti=18°C)								
capacity [kW]	7,5	12,6	18,6	23,4	8,3	13,5	20,7	25,6
pressure loss [kPa]	2,6	1,9	5	3,8	3,2	2,2	6,1	4,5
flow volume rate [m³/h]	0,29	0,54	0,79	0,97	0,32	0,58	0,86	1,08
Connection [DN]	20	20	20	20	20	20	20	20
Electric heater								
capacity alt 1 Max. [kW]	5	7,5	12,5	15	5	7,5	15	17,5
capacity alt 2 Max. [kW]	7,5	10	15	17,5	7,5	10	17,5	20
capacity alt 3 Max. [kW]	-	12,5	17,5	20	-	12,5	20	25
capacity alt 4 Max. [kW]	-	15	20	22,5	-	15	22,5	27,5
power supply [V]	3x 230	3x 230	3x 230	3x 230	3x 230	3x 230	3x 230	3x 230
Fan								
fan power input [W]	540	810	1080	1350	810	1080	1350	1620
fan current [A]	2,4	3,6	4,8	6	3,6	4,8	6	7,2
fan voltage [V]	230	230	230	230	230	230	230	230
Controller ECON, DITRONIC TOUCH								
Protection degree	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Noise level* dB (A)	55	58	61	63	59	62	62	65
Weight [kg]	44	67	85	110	45	69	86	111

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

Technical data „NN“	THCP 100-5-Li0 NN Light	THCP 150-5-Li0 NN Light	THCP 200-5-Li0 NN Light	THCP 250-5-Li0 NN Light	THCP 100-5-Li1 NN Light	THCP 150-5-Li1 NN Light	THCP 200-5-Li1 NN Light	THCP 250-5-Li1 NN Light
Air volume [m³/h]	2020	3100	4200	5250	2650	3925	5050	6150
Hot-water coil NN (water 70/50/18°C)								
capacity [kW]	15	25,8	36	45,2	17,7	29,8	40,3	49,9
pressure loss [kPa]	4,5	9,5	9,3	6,8	5,9	12,4	11,5	8,1
flow volume rate [m³/h]	0,61	1,08	1,51	1,91	0,76	1,26	1,73	2,12
Hot-water coil NN (water 60/40/18°C)								
capacity [kW]	10,8	18,9	26,5	33,2	12,7	21,8	29,6	36,5
pressure loss [kPa]	2,6	5,7	5,6	4	3,4	7,3	6,8	4,8
flow volume rate [m³/h]	0,43	0,79	1,11	1,4	0,54	0,9	1,26	1,55
Connection [DN]	20	20	20	20	20	20	20	20
Fan								
fan power input [W]	540	810	1080	1350	810	1080	1350	1620
fan current [A]	2,4	3,6	4,8	6	3,6	4,8	6	7,2
fan voltage [V]	230	230	230	230	230	230	230	230
Controller ECON, DITRONIC TOUCH								
Protection degree	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Noise level* dB (A)	55	58	61	63	59	62	62	65
Weight [kg]	45	68	87	112	47	71	88	113

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

Dimensions and control



Controller: Econ

Controller description: Econ is intended for fan and heater (water heated or electrical heated) 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	not possible
	Room thermostat, control via external remote contact	standard
	Small control dimensions, wall mounting	standard
	Possibility of electrothermic valve control	standard

Controller: Ditronic Touch

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



Dimensions of the controller: **DITRONIC TOUCH**
125 long x 90 high x 32 deep

