

PROTON[®]

AIR CURTAIN

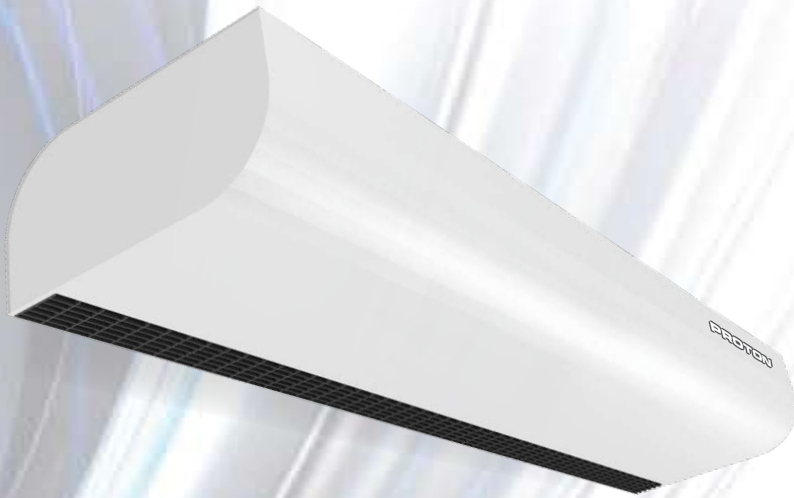
PROTON HD C1



AIR CURTAIN



Air curtain is the unit specially designed for doorway and entrance opening. It prevents the infiltration of cooled air in winter and hot in summer. Air curtain saves the heat/cool air conditioning and prevents from insects and dust, thereby creates the correct indoor climate.

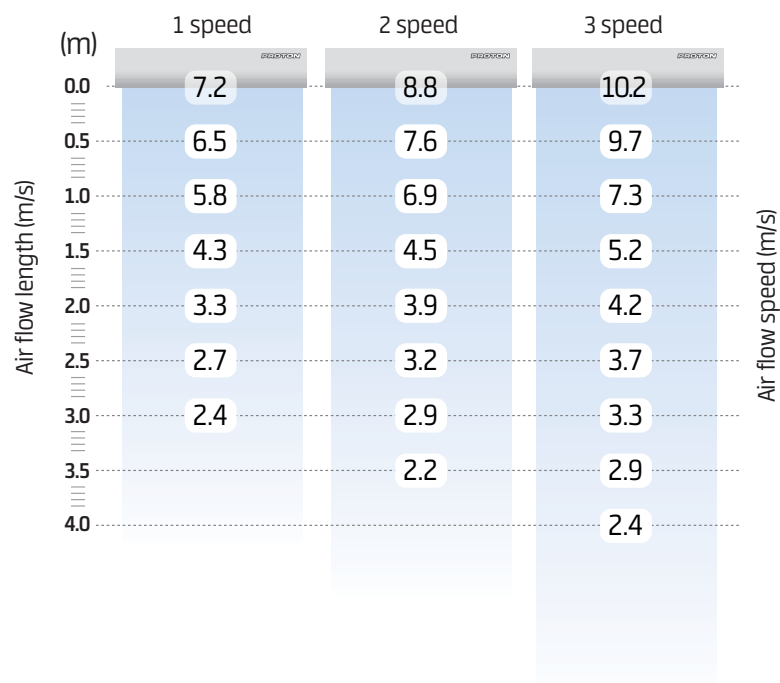



AIR CURTAIN

PROTON HD C1

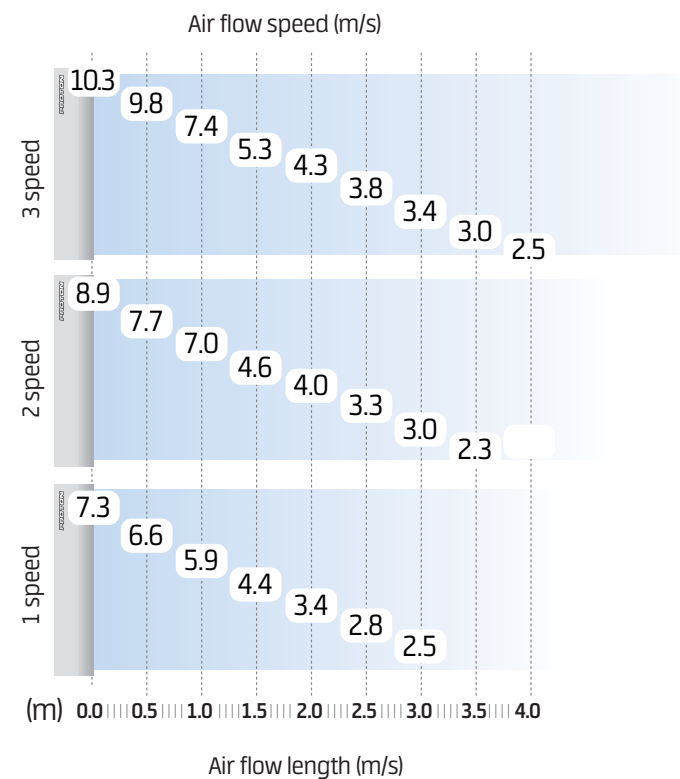
The scope of application of model PROTON HD C1 is commercial buildings. Specifically are: hotel lobbies, trade and office entrances. C1 is a unique solution for various types of the buildings.

VERTICAL AIR FLOW

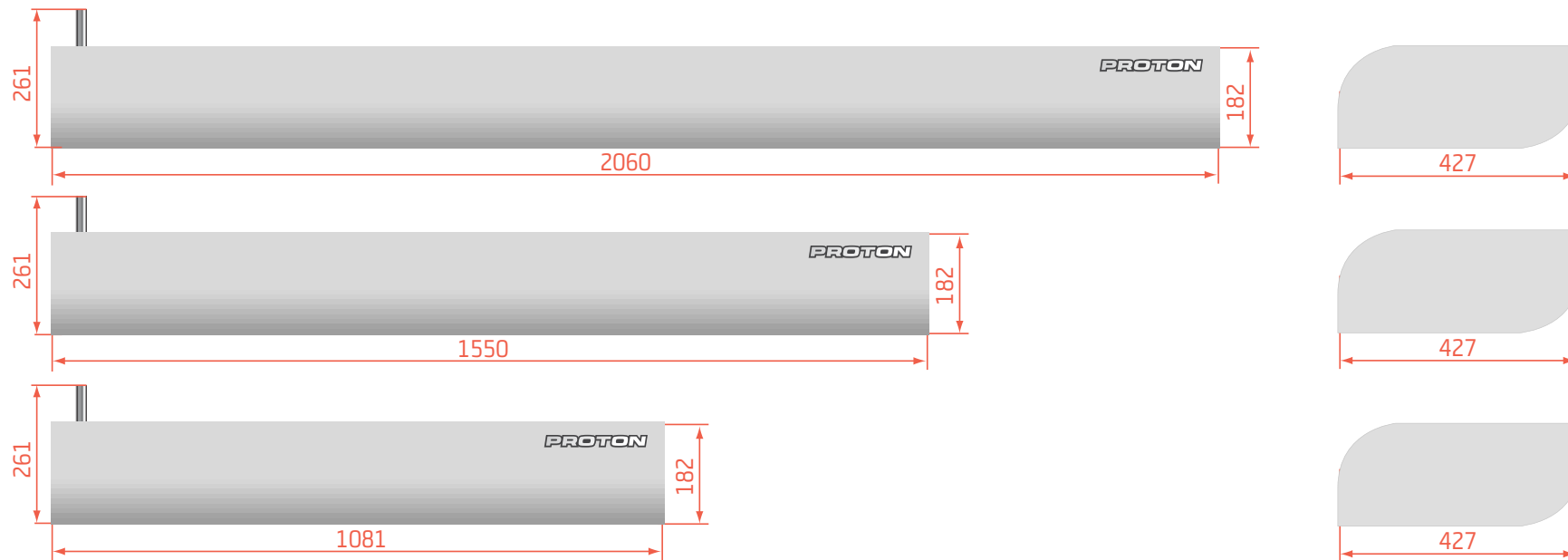


 Electric heated air curtains can be installed horizontally only. Vertical mounting available on request.

HORIZONTAL AIR FLOW



DIMENSIONS



TECHNICAL CHARACTERISTICS



WATER HEATING

		HDC1-T-3510	HDC1-T-3515	HDC1-T-3520
Doorway width, max. (1 curtain)	mm	1000	1500	2000
Number of heat exchanger rows	R	2	2	2
Air capacity (1/2/3 speed)	m ³ /h	1200/1450/1900	1800/2200/2700	2200/2900/3400
Heating power ¹	kW	13.9	20.7	27.8
Air flow distance, max.	m	3.5	3.5	3.5
Volume of water in heat exchanger	dm ³	0.9	1.3	1.6
Noise level ²	dB	56	58	59
Temperature of heating medium, max.	°C	90	90	90
Operational pressure, max.	MPa	1.6	1.6	1.6
Connection stub pipe diameter	inch	3/4	3/4	3/4
Supply voltage of curtain	V/Hz	230/50	230/50	230/50
Rated current of curtain	A	1.3	1.5	1.6
Motor power	W	280	310	360
Ingress protection of motor	IP	20	20	20
Net weight	kg	22.3	29.1	35.3
Gross weight	kg	25.8	33.2	39.8
Net dimensions (WxHxL)	mm	1081x261x427	1550x261x427	2060x261x427
Gross dimensions (WxHxL)	mm	1135x310x495	1605x310x495	2115x310x495

¹ Data are indicated for water temperature of 90/70°C, and air temperature at the inlet of 18 °C.

² Measurement performed at 3 m from curtain.

TECHNICAL CHARACTERISTICS



ELECTRIC HEATING

		HDC1-E-3510	HDC1-E-3515	HDC1-E-3520
Doorway width, max. (1 curtain)	mm	1000	1500	2000
Air capacity (1/2/3 speed)	m ³ /h	1300/1550/2000	1900/2350/2900	2300/3100/3700
Heating power (1/2/3 stage)	kW	2.8/5.2/8.0	4.2/7.8/12.0	5.6/10.4/16.0
Air flow distance, max.	m	3.5	3.5	3.5
Noise level ¹	dB	57	59	60
Supply voltage of curtain	V/Hz	400/50	400/50	400/50
Rated current of curtain	A	12	18	24
Motor power	W	280	310	360
Ingress protection of motor	IP	20	20	20
Net weight	kg	23.2	30.2	36.9
Gross weight	kg	26.7	34.3	41.4
Net dimensions (WxHxL)	mm	1081x182x427	1550x182x427	2060x182x427
Gross dimensions (WxHxL)	mm	1135x310x495	1605x310x495	2115x310x495

¹ Measurement performed at 3 m from curtain.

TECHNICAL CHARACTERISTICS



WITHOUT HEATING

		HDC1-F-3510	HDC1-F-3515	HDC1-F-3520
Doorway width, max. (1 curtain)	mm	1000	1500	2000
Air capacity (1/2/3 speed)	m ³ /h	1350/1600/2050	1950/2400/2950	2350/3150/3750
Air flow distance, max.	m	3.7	3.7	3.7
Noise level ¹	dB	58	60	61
Supply voltage of curtain	V/Hz	230/50	230/50	230/50
Rated current of curtain	A	1.3	1.5	1.6
Motor power	W	280	310	360
Ingress protection of motor	IP	20	20	20
Net weight	kg	20.1	26.6	32.6
Gross weight	kg	23.6	30.7	37.3
Net dimensions (WxHxL)	mm	1081x182x427	1550x182x427	2060x182x427
Gross dimensions (WxHxL)	mm	1135x310x495	1605x310x495	2115x310x495

¹ Measurement performed at 3 m from curtain.

ECOMATIC PRO



RTS10

RTS10 – is a panel for switching temperature and AC-fan rotation speeds.

- Convenient control of temperature with 1.0°C accuracy
- Temperature control range +5°C ... +30°C
- Manual mode of control of rotation speed of three-speed AC-fan
- Control of required temperature
- Noise reduction
- Operation at heating and cooling modes
- Possibility of operation with valve with actuator **SRV2**
- Protection class IP20
- Weight (net/gross) – 0.19/0.23 kg
- Net dimensions (WxHxL) – (85x130x42) mm
- Gross dimension (WxHxL) – (90x133x50) mm



RTS40

RTS40 – is a programmable controller of temperature and AC-fan rotation speed.

- Programmability of temperature mode with accuracy up to 0.5°C
- Temperature control range +5°C ... +70°C
- Automatic and manual modes of control of rotation speed of three-speed AC-fan
- Week programmability 5+1+1
- Can be used with **RC30** remote controller
- Possibility of operation with door switch **DC230**
- Possibility to connect thermal sensor **NTC65**
- High level of energy savings
- Protection against indoor temperature drop lower than critical level
- Operation at heating and cooling modes
- MODBUS protocol
- Possibility of operation with valve with actuator **SRV2**
- Protection class IP20
- Weight (net/gross) – 0.21/0.30 kg
- Net dimensions (WxHxL) – (138x94x36) mm
- Gross dimension (WxHxL) – (156x120x46) mm

ECOMATIC PRO



SRV2

SRV2 – is a two-way valve with actuator allows to control the flow of coolant in automatic mode from a programmable controller **RTS 40** or mechanical remote control **RTS10**.

- Valve type - Normally Closed
- Energy savings
- Protection class IP54
- Power supply 230 V/50 Hz
- Weight (net/gross) – 0.42/0.46 kg
- Net dimensions (WxHxL) – (90x105x40) mm
- Gross dimension (WxHxL) – (105x100x70) mm



NTC65

NTC 65 – is a external thermal sensor. Checks indoor temperature and sends data to a programmable controller **RTS40**.

- High accuracy
- Possibility to connect a number of sensors for large buildings
- Possibility to use in explosive buildings
- Protection class IP65
- Weight (net/gross) – 0.09/0.10 kg
- Net dimensions (WxHxL) – (65x128x42) mm
- Gross dimension (WxHxL) – (70x150x50) mm

ECOMATIC PRO

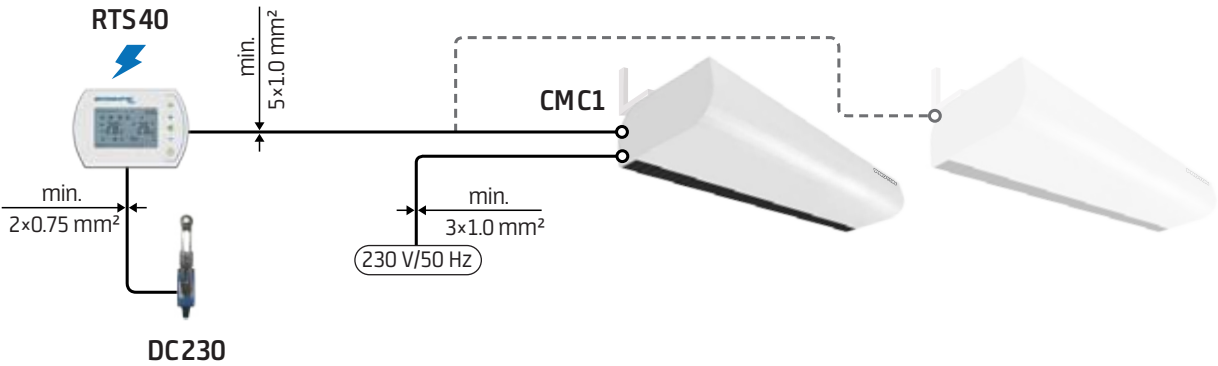


DC230

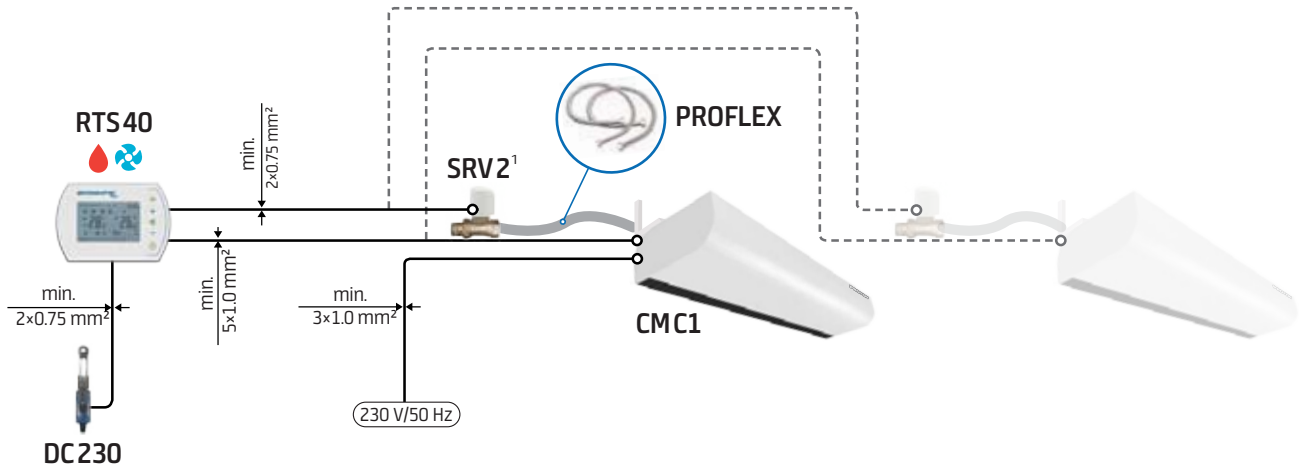
DC230 – is a device designed for automatic turn on of the mechanism (a curtain) when a moving part (door) reaches a certain place.

- Control of door position of other moving elements
- Supply of signal to on/off the curtain PROTON HD C1
- Protection grade of the casing is IP65
- Mechanical wear-resistance is 1 000 000 hours

CONTROL SOLUTIONS



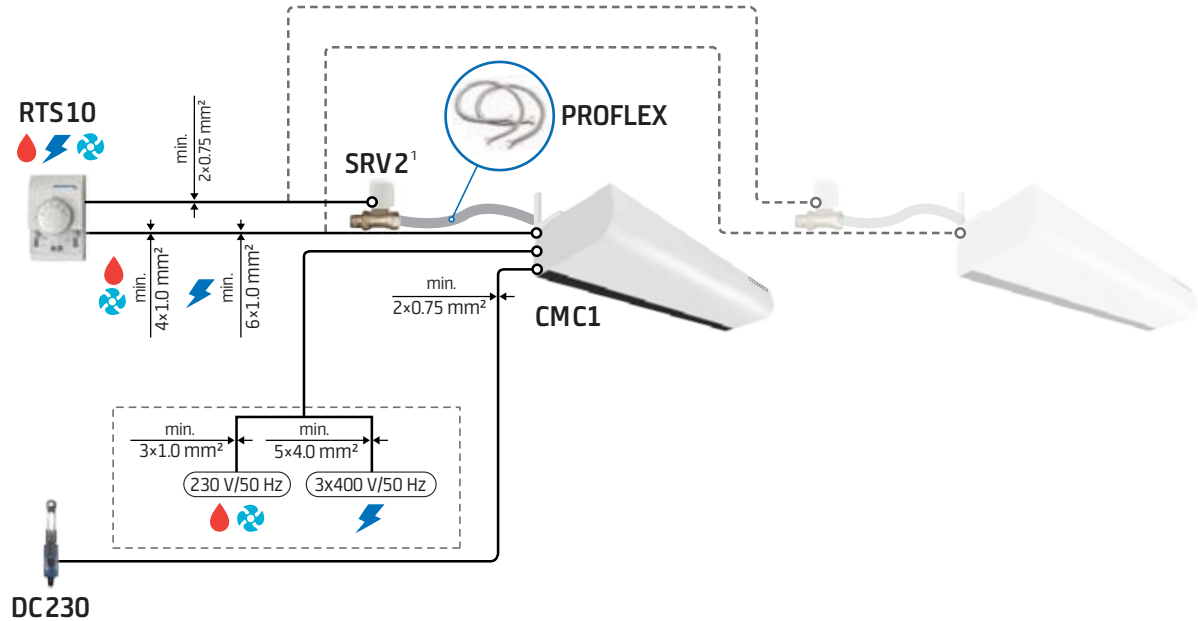
PROTON HD C1		SKU
HD C1-E-3510		210 001
HD C1-E-3515		210 002
HD C1-E-3520		210 003



PROTON HD C1		SKU
HD C1-F-3510		210 007
HD C1-F-3515		210 008
HD C1-F-3520		210 009
HD C1-T-3510		210 004
HD C1-T-3515		210 005
HD C1-T-3520		210 006

¹ For HD C1-T-35.

CONTROL SOLUTIONS



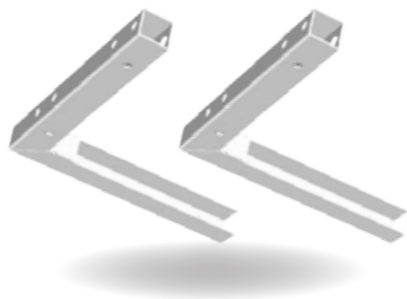
¹ For HD C1-T-35.

PROTON HD C1

SKU

HD C1-E-3510		210 001
HD C1-E-3515		210 002
HD C1-E-3520		210 003
HD C1-F-3510		210 007
HD C1-F-3515		210 008
HD C1-F-3520		210 009
HD C1-T-3510		210 004
HD C1-T-3515		210 005
HD C1-T-3520		210 006

ACCESSORIES



CMC1 MOUNTING CONSOLE

The mounting console is designed for mounting the PROTON HD C1 curtains. Original and patented construction enables to fix the curtains horizontally and vertically. Compact size and workability of the construction guarantee safe operation of PROTON HD C1 .

HD C1-3510 — 2 pcs.

HD C1-3515 — 3 pcs.

HD C1-3520 — 3 pcs.



PROFLEX FLEXIBLE HOSES

Corrosion-proof flexible hoses are used to connect various water-consuming equipment.

PROTON

IT'S SIMPLE AND EASY

PROTON GROUP LLC
03057, Ukraine, Kyiv, 3, Nesterova str., office 411
Tel.: +380 (44) 537 0930; fax: +380 (44) 537 0903
E-mail: proton@proton.kiev.ua; www.protongroup.org

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In exceptional cases the changes in equipment's characteristics are possible (structure, standard supply, technical parameters).