

ErP conform



consultation
and aperture
design
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consultation
regulation on
phone 602 679 469

* door height

** design with increased performance (E1 / W1)

Technical parameters

Cabinet

is made of galvanized sheet metal, painted in RAL 9010 (white). Other colours and stainless steel on request. The exhaust section is thermally and acoustically insulated and is finished with an adjustable aluminium louvre in RAL 9005. The water heater screens include an inlet filter.

Fans

Direct-drive radial fans are used. Single-phase asynchronous motors with thermocontacts in the output allow control by changing the voltage. Protection IP22, on request EC motors also available on request.

Regulation

is done with the DR-CP4 controller, to which only 1 aperture can be connected. The controller is designed for AC motors and allows the connection of a door contact and a room thermostat. Alternatively, a controller is available that allows the connection of a touch panel DR-CPhr, which is designed for AC and EC motors, allows manual control as well as control from higher-level systems (Modbus, BMS) and is equipped with other additional functions (time clock, frost protection, door contact, curtain chaining, etc.).

Frost protection

The supplied screens are circulation screens with air intake from the room and are therefore not equipped with frost protection.

Heater

is electric or water, also without heater on request. The water heaters are equipped as standard with drainage and automatic vent valves. A built-in thermoelectric valve is fitted to regulate the temperature of the blowing air. EU3 quality filters are fitted as standard.

Electrical connection

Cable glands are located in the lower part of the cabinet, on request also in the upper part.

Mounting

The screens can be mounted on the floor using a reinforced integrated anchor plate ensuring very good stability. The recommen-

ded door widths are 2 and 2.5 m, where the screen can be selected in right or left-hand version (depending on the interior view). The recommended door height is 2.2 and 2.5 m. For larger door widths it is advisable to use a double-sided door screen. The heat exchanger connection is located at the bottom of the cabinet, on request also at the top. The screen has a revision door and an opening grille for easy maintenance.

Accessories

- DR-CPhr touch programmable controller with LCD panel
- DR-CP4 standard controller for 1 aperture
- DR-MAGNET door contact
- DR-C5, C10 curtain/controller connection cable
- DR-CC5, CC10 interconnecting cable shutter/curtain
- DR-TR room thermostat
- DR-RFC wireless controller
- DR-BMS remote control module (0-10 V)

Information

Air door screen in a design with easy installation suitable for commercial premises and industrial buildings such as banks, hotels, administrative premises, light industry, supermarkets and others.

Type key

DOR-V-W-38-P-2200-4 RAL 9010

- | | | | | | | |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
- 1 – aperture type
 - 2 – type of heater
W – water
W1 – water with increased power
E – electric
E1 – electric with increased power
 - 3 – performance (kW)
 - 4 – performance, viewed from the interior P (right) or L (left)
 - 5 – door height (2200, 2500 mm)
 - 6 – control method
4 – control for DR-CP4 controller
without marking – control for touch DR-CPhr touch panel
 - 7 – colour, standard RAL 9010

Additional illustrations



wall-mounted remote control DR-CP4



DR-CPhr programmable touch controller with LCD panel



DR-MAGNET door contact



electrothermal actuator for 2-way or 3-way valve

Characteristics

Technical data

Type		DOR-V-E-XX-2200	DOR-V-E1-XX-2200	DOR-V-E-XX-2500	DOR-V-E1-XX-2500
door height	mm	2200	2200*	2500	2500*
air flow	m ³ /h	3700	5400	4200	6080
acoustic performance	dB(A)	57	60	59	62
weight	kg	90	105	100	115

ventilator

input power	W	850	1350	1010	1620
current	A	4.5	7.2	5.4	8.7
voltage	V	230	230	230	230

electric heater

electric size heaters 1	kW	10.0	12.5	12.5	15.0
electric size heaters 2	kW	12.5	15.0	15.0	17.5
electric size heaters 3	kW	15.0	17.5	17.5	22.5
electric size heaters 4	kW	17.5	20.0	22.5	25.0
voltage	V	400	400	400	400

Type		DOR-V-W-38-2200	DOR-V-W1-50-2200	DOR-V-W-45-2500	DOR-V-W1-57-2500
door height	mm	2200	2200*	2500	2500*
air flow	m ³ /h	3480	5100	4150	5750
acoustic performance	dB(A)	57	60	59	62
weight	kg	90	110	100	120

ventilator

input power	W	850	1350	1010	1620
current	A	4.5	7.2	5.4	8.7
voltage	V	230	230	230	230

water heater 80/60 °C **

performance	kW	38.4	50.5	45.2	57.4
pressure loss	kPa	27.1	48.0	11.9	19.7
water flow	m ³ /h	1.7	22	2.0	2.5
connect	DN	25	25	25	25

Type		DOR-V-W-28-2200	DOR-V-W1-40-2200	DOR-V-W-32-2500	DOR-V-W1-44-2500
door height	mm	2200	2200*	2500	2500*
air flow	m ³ /h	4150	6250	4150	6750
acoustic performance	dB(A)	59	61	59	63
weight	kg	100	120	110	130

ventilator

input power	W	1010	1620	1200	1890
current	A	5.4	8.7	6.3	10.0
voltage	V	230	230	230	230

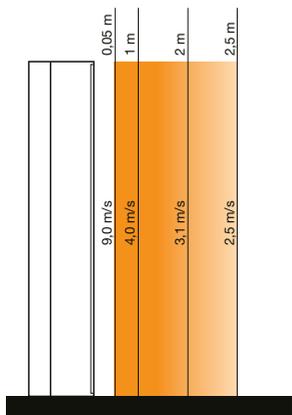
water heater 50/35 °C **

performance	kW	28.1	40.0	32.7	44.3
pressure loss	kPa	10.6	21.6	8.9	16.4
water flow	m ³ /h	1.6	2.3	1.9	2.5
connect	DN	25	25	25	25

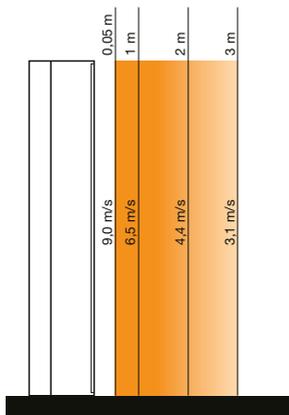
* variants with increased performance

** the parameters of the water heaters are calculated for the specified temperature gradients, inlet air temperature +18 °C and maximum air output

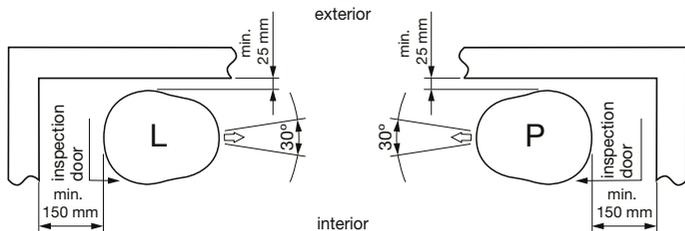
Additional illustrations



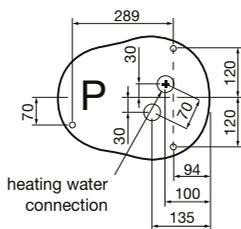
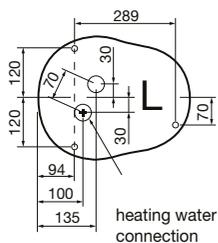
DOR-V-E, W
air velocity



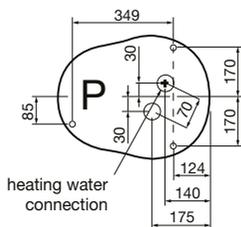
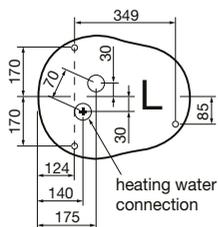
DOR-V-E1, W1
air velocity



minimum spacing from structures



DOR-V-W
connection dimensions with water heater



DOR-V-W1
connection dimensions with water heater

DR-CP4 – wall-mounted remote control



DR-CP4



DR-CP4 EC

The controller is designed to control one air curtain with AC fans without the possibility of chaining the curtains, with the possibility of connecting external elements.

The DR-CP4 EC controller is available for air curtains with EC fans.

- possibility of connecting a potential-free door contact, including adjustable device time
- possibility to connect a room thermostat
- control of the electrothermal valve
- IP20 cover
- dimensions W×H×D 71×71×25 mm
- surface mounting
- cable length max. 100 m

DR-CPhr – programmable touch panel



Intelligent touch panel developed to control air curtains with AC and EC fans. The panel offers the user the possibility to control the air curtain manually, from a higher-level system (BMS) or via Modbus protocol.

- aperture control according to discharge or room temperature
- weekly time clock
- possibility of connecting a potential-free door contact including adjustable device time
- fan and heating control from the BMS
- frost protection of the space
- MASTER/SLAVE serial air curtain chaining
- connection between screen and controller via UTP cable with RJ45 connector
- cover IP20
- dimensions W×H×D 125×90×32 mm
- wall mounting
- cable length max. 100 m