



## KP/DB Air Curtains

Air curtains for doors and gates are used for protection against uncontrolled air intake at doors, gates and outer constructional holes in shops, department stores, workshops, storerooms etc. . They are intended for deriving and heating air from inside of a room. They may also be used without air heating as so called "cold" curtains. The curtains are fitted for installation at doors, gates at the height of 2,0 ÷ 4,0m. They may be positioned above gates (horizontal operation position) or at the gates sides (vertical operation position). Several curtains in a row may be used with bigger heights and widths. On demand KP/DB air curtains could be delivered with housing made for mounting in false ceiling.

### PRODUCT DESCRIPTION

Curtains consist of:

- housing made of painted steel sheet metal with slot on the whole length
- electric or water heater
- centrifugal, two-sidedly sucking fans (2 or 3)

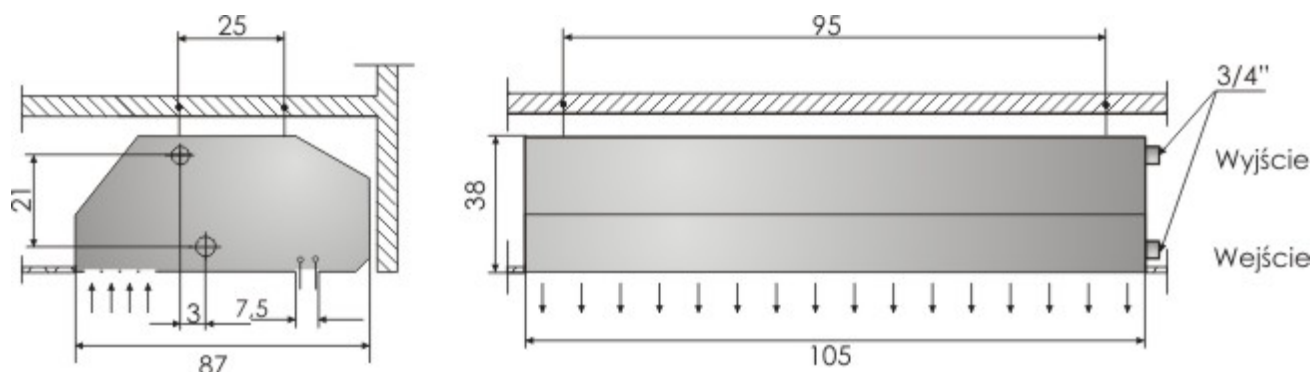
The curtains are suspended from the ceiling of a room with use of threaded bars mounted to the housing. The curtains are offered in two sizes and six types differing in number and size of fans and length of outflow air slot. Electric heater is provided with protection against exceeding the max. operation temperature.

### WORKING CONDITIONS

The water heaters are supplied with water with the temperature of 150°C or lower and the pressure of up to 1,5MPa. Electric heater feeding is three-phase 400 V. During selection of the curtains air speed at the floor should be taken into consideration. The speed should not be lower than 3m/s.

## KP/DB-1N-105-W

### DIMENSIONS



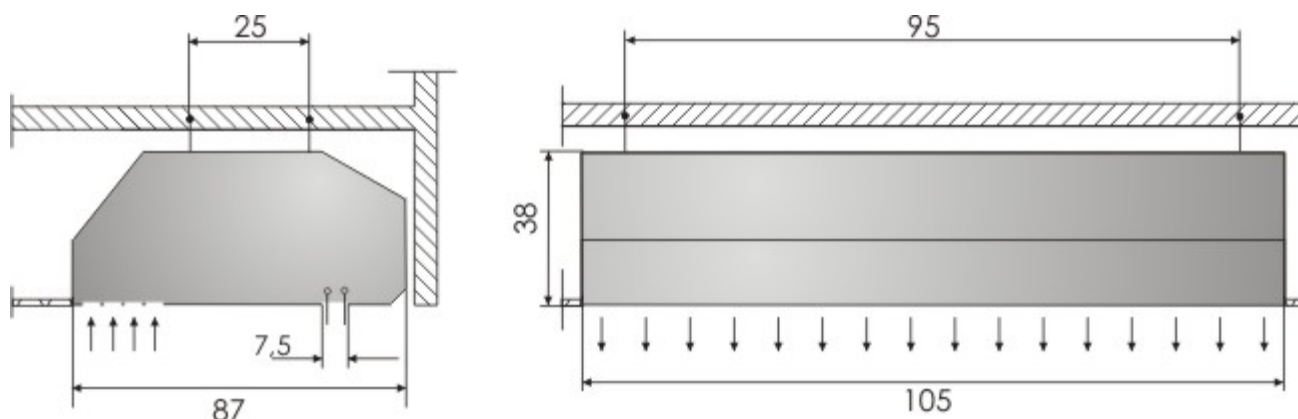
Parameters of fan in curtain	
Number of fans	2
Voltage [V]	230
Motor power [kW]	0,074
Current [A]	1,0
Revolutions [rpm]	960

Air flow of the curtain with the water heater				
Air flow [m³/h]		2 300		
Thermal power [kW], outflow air temperature [°C] and resistance of water flow [kPa]				
Water temp. [°C]	Inflow air temp [°C]	kW	°C	kPa
90/70	5	17,4	26	1,8
	10	15,8	29	1,5
	15	14,2	33	1,2
80/60	5	14,4	22	1,2
	10	12,9	25	1,0
	15	11,4	29	0,8
70/50	5	11,4	19	0,8
	10	10,0	22	0,6
	15	8,7	26	0,5
60/40	5	8,7	16	0,5
	10	7,4	19	0,4
	15	6,1	22	0,3

Operational noise level [dB(A)]	
Noise level at distance of 1m	63
Noise level at distance of 3m	59
Curtain weight	
Weight [kg]	65

## KP/DB-1N-105-E

### DIMENSIONS



Parameters of fan in curtain	
Number of fans	2
Voltage [V]	230
Motor power [kW]	0,074
Current [A]	1,0
Revolutions [rpm]	960

Thermal power and air flow of the curtain with the electric heaters	
Air flow [m <sup>3</sup> /h]	2 300
Thermal power levels [kW]	9

Operational noise level [dB(A)]	
From distance of 1m	63
From distance of 3m	59
Curtain weight	
Weight [kg]	66

## KP/DB-1N-105-Z

### DIMENSIONS



Parameters of fans in curtain	
Number of fans	2
Voltage [V]	230
Motor power [kW]	0,074
Current [A]	1,0
Revolutions [rpm]	960
Air flow [m <sup>3</sup> /h]	2 300

Operational noise level [dB(A)]	
From distance of 1m	63
From distance of 3m	59
Curtain weight	
Weight [kg]	58

## KP/DB-1N-158-W

### DIMENSIONS



Parameters of fan in curtain	
Number of fans	3
Voltage [V]	230
Motor power [kW]	0,074
Current [A]	1,0
Revolutions [rpm]	960

Air flow of the curtain with the water heater				
Air flow [m³/h]		3 450		
Thermal power [kW], outflow air temperature [°C] and resistance of water flow [kPa]				
Water temp. [°C]	Inflow air temp [°C]	kW	°C	kPa
90/70	5	30,9	30	2,1
	10	28,1	33	7,7
	15	25,4	36	6,3
80/60	5	25,0	26	6,4
	10	22,9	29	5,1
	15	20,4	32	4,0
70/50	5	20,0	21	4,1
	10	18,0	25	3,1
	15	15,6	28	2,3
60/40	5	15,7	17	2,4
	10	13,3	21	1,7
	15	11,0	24	1,1

Operational noise level [dB(A)]	
Noise level at distance of 1m	64
Noise level at distance of 3m	60
Curtain weight	
Weight [kg]	94

## KP/DB-1N-158-E

### DIMENSIONS



Parameters of fan in curtain	
Number of fans	3
Voltage [V]	230
Motor power [kW]	0,074
Current [A]	1,0
Revolutions [rpm]	960

Thermal power and air flow of the curtain with the electric heaters	
Air flow [m <sup>3</sup> /h]	3 450
Thermal power levels [kW]	13,5

Operational noise level [dB(A)]	
From distance of 1m	64
From distance of 3m	60
Curtain weight	
Weight [kg]	95



## KP/DB-1N-158-Z

### DIMENSIONS

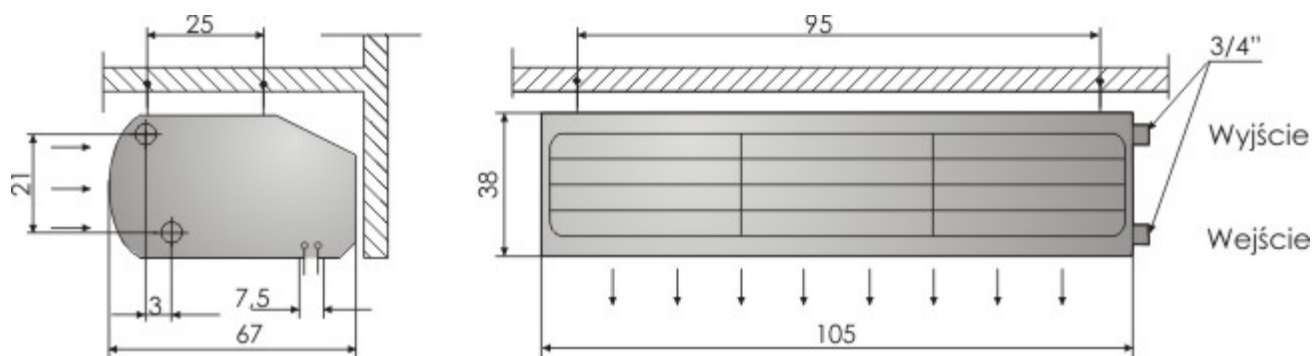


Parameters of fans in curtain	
Number of fans	3
Voltage [V]	230
Motor power [kW]	0,074
Current [A]	1,0
Revolutions [rpm]	960
Air flow [m <sup>3</sup> /h]	3 450

Operational noise level [dB(A)]	
From distance of 1m	64
From distance of 3m	60
Curtain weight	
Weight [kg]	83

## KP/DB-1P-105-W

### DIMENSIONS



Parameters of fan in curtain	
Number of fans	2
Voltage [V]	230
Motor power [kW]	0,15
Current [A]	1,5
Revolutions [rpm]	1350

Air flow of the curtain with the water heater				
Air flow [m³/h]			2700	
Thermal power [kW], outflow air temperature [°C] and resistance of water flow [kPa]				
Water temp. [°C]	Inflow air temp [°C]	kW	°C	kPa
90/70	5	19,2	24	2,2
	10	17,4	28	1,8
	15	15,7	31	1,5
80/60	5	15,8	21	1,5
	10	14,1	25	1,2
	15	12,5	28	1,0
70/50	5	12,6	18	0,9
	10	11,0	21	0,8
	15	9,5	25	0,5
60/40	5	9,6	15	0,6
	10	8,1	18	0,4
	15	6,7	22	0,3

Operational noise level [dB(A)]	
Noise level at distance of 1m	66
Noise level at distance of 3m	62
Curtain weight	
Weight [kg]	60

## KP/DB-1N-105-E

### DIMENSIONS



Parameters of fan in curtain	
Number of fans	2
Voltage [V]	230
Motor power [kW]	0,15
Current [A]	1,5
Revolutions [rpm]	1350

Thermal power and air flow of the curtain with the electric heaters	
Air flow [m³/h]	2 300
Thermal power levels [kW]	9

Operational noise level [dB(A)]	
From distance of 1m	66
From distance of 3m	62
Curtain weight	
Weight [kg]	53

## KP/DB-1P-105-Z

### DIMENSIONS

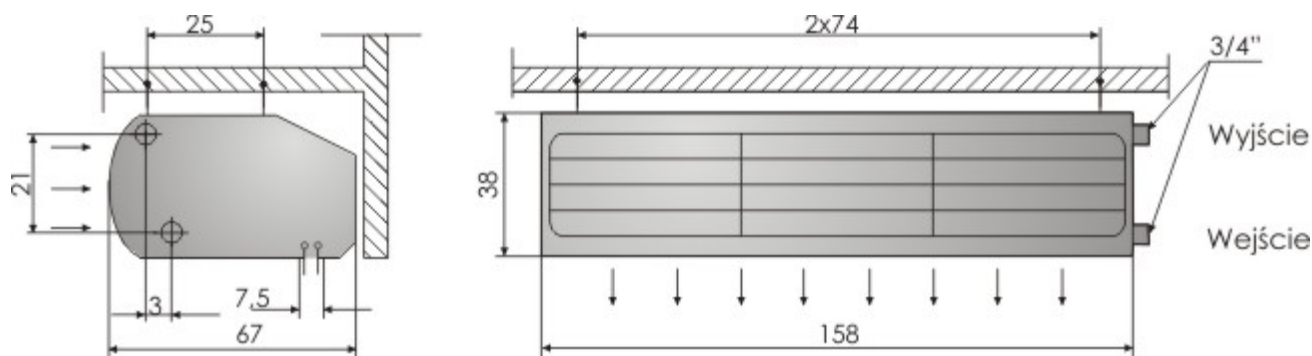


Parameters of fans in curtain	
Number of fans	2
Voltage [V]	230
Motor power [kW]	0,15
Current [A]	1,5
Revolutions [rpm]	1350
Air flow [m <sup>3</sup> /h]	2 300

Operational noise level [dB(A)]	
From distance of 1m	66
From distance of 3m	62
Curtain weight	
Weight [kg]	45

## KP/DB-1P-158-W

### DIMENSIONS



Parameters of fan in curtain	
Number of fans	3
Voltage [V]	230
Motor power [kW]	0,15
Current [A]	1,5
Revolutions [rpm]	1350

Air flow of the curtain with the water heater				
Air flow [m³/h]			4 050	
Thermal power [kW], outflow air temperature [°C] and resistance of water flow [kPa]				
Water temp. [°C]	Inflow air temp [°C]	kW	°C	kPa
90/70	5	34,0	28	11,3
	10	30,0	32	9,3
	15	27,9	35	7,6
80/60	5	28,2	24	7,7
	10	25,2	28	6,1
	15	22,3	31	4,8
70/50	5	22,5	20	4,9
	10	19,7	24	3,8
	15	17,0	27	2,8
60/40	5	17,2	17	2,8
	10	14,6	20	2,0
	15	12,1	23	1,4

Operational noise level [dB(A)]	
Noise level at distance of 1m	67
Noise level at distance of 3m	63
Curtain weight	
Weight [kg]	85

## KP/DB-1P-158-E

### DIMENSIONS



Parameters of fan in curtain	
Number of fans	3
Voltage [V]	230
Motor power [kW]	0,15
Current [A]	1,5
Revolutions [rpm]	1350

Thermal power and air flow of the curtain with the electric heaters	
Air flow [m <sup>3</sup> /h]	4 050
Thermal power levels [kW]	13,5

Operational noise level [dB(A)]	
From distance of 1m	67
From distance of 3m	63
Curtain weight	
Weight [kg]	86



## KP/DB-1P-158-Z

### DIMENSIONS

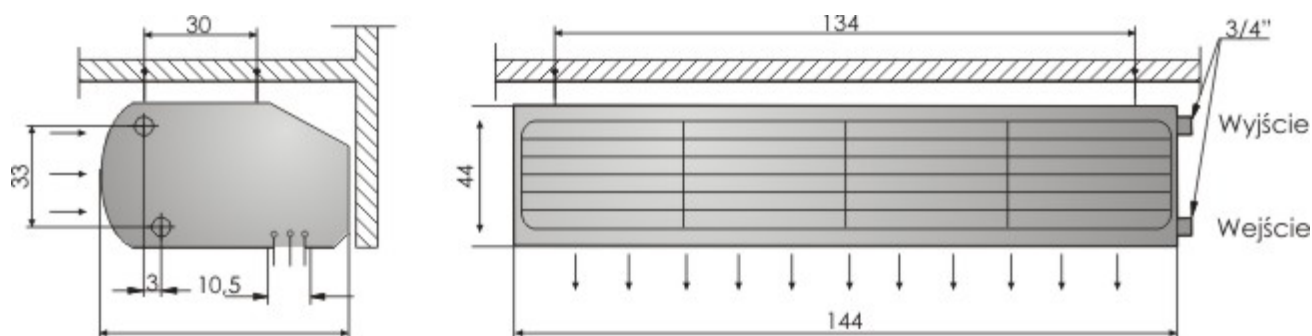


Parameters of fans in curtain	
Number of fans	3
Voltage [V]	230
Motor power [kW]	0,15
Current [A]	1,5
Revolutions [rpm]	1350
Air flow [m <sup>3</sup> /h]	4 050

Operational noise level [dB(A)]	
From distance of 1m	67
From distance of 3m	63
Curtain weight	
Weight [kg]	74

## KP/DB-2-144-W

### DIMENSIONS



Parameters of fan in curtain	
Number of fans	2
Voltage [V]	230
Motor power [kW]	0,45
Current [A]	2,0
Revolutions [rpm]	790

Air flow of the curtain with the water heater				
Air flow [m³/h]		5 400		
Thermal power [kW], outflow air temperature [°C] and resistance of water flow [kPa]				
Water temp. [°C]	Inflow air temp [°C]	kW	°C	kPa
90/70	5	45,1	28	7,9
	10	41,4	32	6,5
	15	37,1	35	5,3
80/60	5	37,1	24	5,4
	10	33,4	27	4,3
	15	29,7	31	3,4
70/50	5	29,9	20	3,5
	10	26,2	24	2,6
	15	22,6	27	2,0
60/40	5	22,8	17	2,0
	10	19,3	20	1,5
	15	16,0	23	1,0

Operational noise level [dB(A)]	
Noise level at distance of 1m	65
Noise level at distance of 3m	61
Curtain weight	
Weight [kg]	101

## KP/DB-2-144-E

### DIMENSIONS



Parameters of fan in curtain	
Number of fans	2
Voltage [V]	230
Motor power [kW]	0,45
Current [A]	2,0
Revolutions [rpm]	790

Thermal power and air flow of the curtain with the electric heaters	
Air flow [m <sup>3</sup> /h]	5 400
Thermal power levels [kW]	18

Operational noise level [dB(A)]	
From distance of 1m	65
From distance of 3m	61
Curtain weight	
Weight [kg]	101

## KP/DB-2-144-Z

### DIMENSIONS

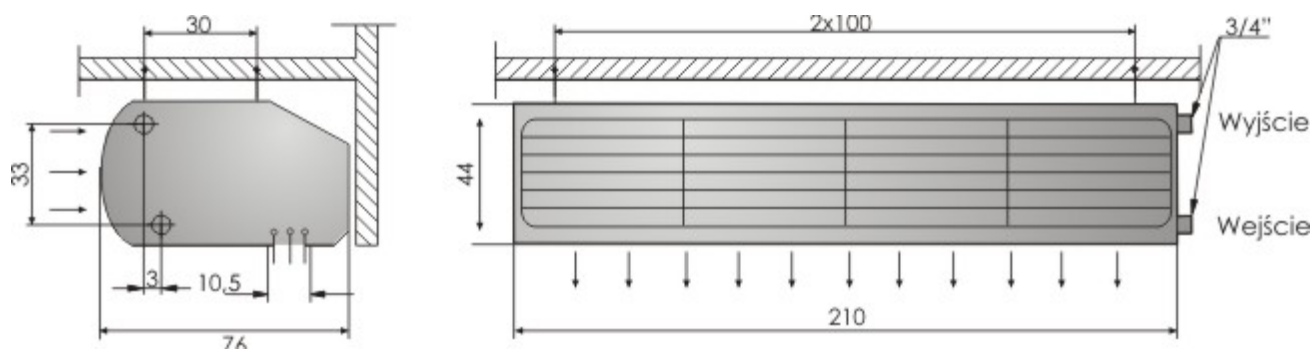


Parameters of fans in curtain	
Number of fans	2
Voltage [V]	230
Motor power [kW]	0,45
Current [A]	2,0
Revolutions [rpm]	790
Air flow [m <sup>3</sup> /h]	5 400

Operational noise level [dB(A)]	
From distance of 1m	65
From distance of 3m	61
Curtain weight	
Weight [kg]	88

## KP/DB-2-210-W

### DIMENSIONS



Parameters of fan in curtain	
Number of fans	3
Voltage [V]	230
Motor power [kW]	0,45
Current [A]	2,0
Revolutions [rpm]	790

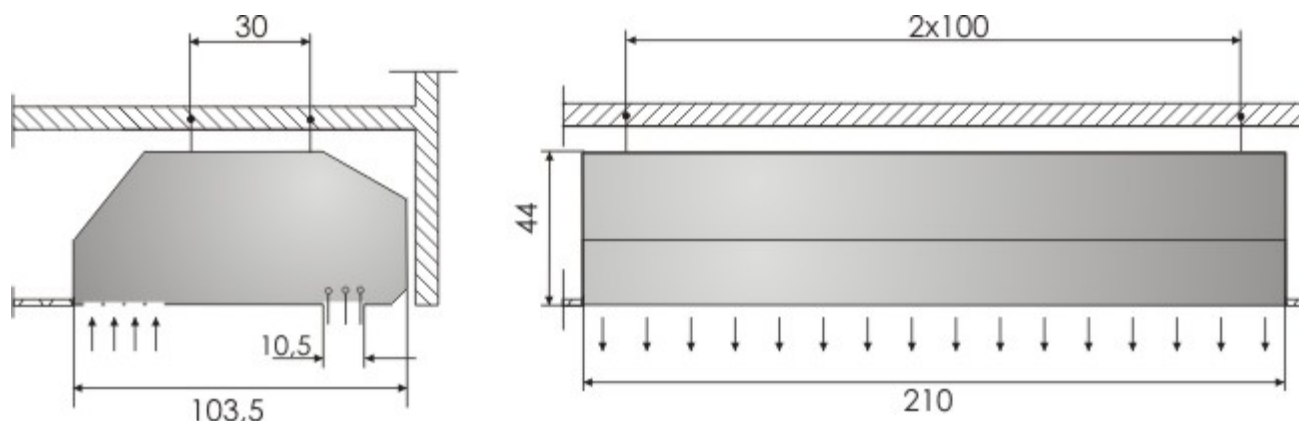
Air flow of the curtain with the water heater				
Air flow [m³/h]			8 100	
Thermal power [kW], outflow air temperature [°C] and resistance of water flow [kPa]				
Water temp. [°C]	Inflow air temp [°C]	kW	°C	kPa
90/70	5	62,8	26	3,0
	10	57,1	30	2,4
	15	51,5	33	1,9
80/60	5	51,9	23	2,0
	10	46,4	26	1,6
	15	41,2	30	1,3
70/50	5	41,5	19	1,3
	10	36,3	23	0,9
	15	31,4	26	0,8

<b>60/40</b>	<b>5</b>	31,6	16	0,8
	<b>10</b>	26,7	19	0,6
	<b>15</b>	22,2	23	0,4

<b>Operational noise level [dB(A)]</b>	
<b>Noise level at distance of 1m</b>	66
<b>Noise level at distance of 3m</b>	62
<b>Curtain weight</b>	
<b>Weight [kg]</b>	143

## KP/DB-2-210-E

### DIMENSIONS



Parameters of fan in curtain	
Number of fans	3
Voltage [V]	230
Motor power [kW]	0,45
Current [A]	2,0
Revolutions [rpm]	790

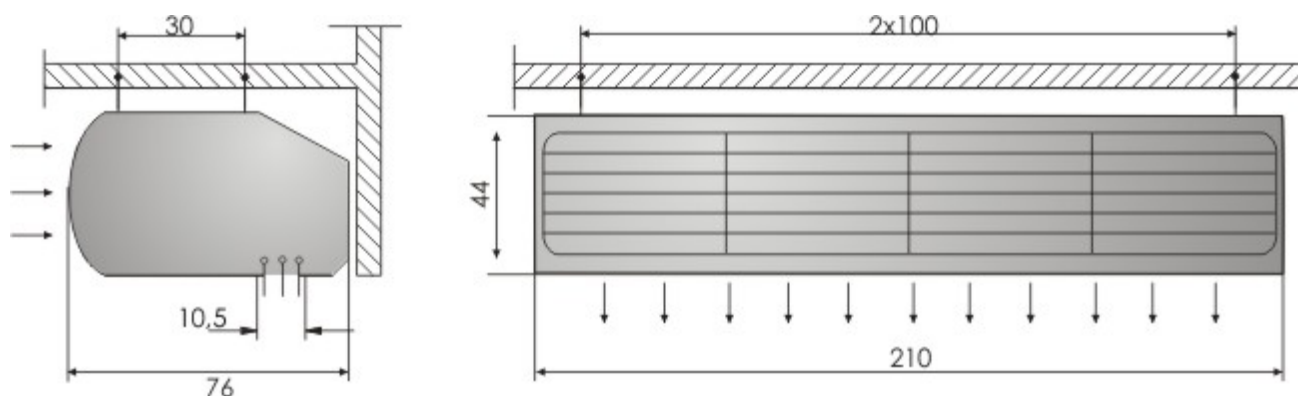
Thermal power and air flow of the curtain with the electric heaters	
Air flow [m <sup>3</sup> /h]	8 100
Thermal power levels [kW]	27

Operational noise level [dB(A)]	
From distance of 1m	66
From distance of 3m	62
Curtain weight	
Weight [kg]	143



## KP/DB-2-210-Z

### DIMENSIONS



Parameters of fans in curtain	
Number of fans	3
Voltage [V]	230
Motor power [kW]	0,45
Current [A]	2,0
Revolutions [rpm]	790
Air flow [m <sup>3</sup> /h]	8 100

Operational noise level [dB(A)]	
From distance of 1m	66
From distance of 3m	62
Curtain weight	
Weight [kg]	124