



## SMART Air Curtains

Air curtains are used for protection against outer air inflow at doors and construction outer holes in shops, department stores, workshops etc. They are fitted for deriving and heating air from inside a room. The curtains are fitted for installation at doors high up to 2,5 m.

### PRODUCT DESCRIPTION

The curtains consist of:

- housing made of steel sheet
- electric or water heater
- fan

The curtains are made in three lengths 104, 156 and 200 cm.

### WORKING CONDITIONS

Water heaters are fed with water of 150°C or lower temperature and pressure of 1,5Mpa. Electric heater power supply is three-phase 400V. Curtains with 100cm length could be equipped with single phase electric heater with thermal power of 3kW. The heaters are equipped with protection against exceeding max. temperature of heaters operation.

# SMART-104-W

## DIMENSIONS



Parameters of fan in curtain	
Voltage [V]	230
Motor power [kW]	0,130
Current [A]	0,60
Revolutions [rpm]	1250

Air flow of the curtain with the water heater				
Air flow [m³/h]			1400	
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	11,5	28	2,1
	10	10,4	31	1,7
	15	9,4	34	1,4
	20	8,5	38	1,1
80/60	5	9,5	24	1,6
	10	8,5	27	1,3
	15	7,6	30	1,0
	20	6,7	34	0,8
70/50	5	7,7	20	1,3
	10	6,7	23	1,0
	15	5,8	27	0,8
	20	5,0	30	0,6

<b>60/40</b>	<b>5</b>	5,9	17	0,7
	<b>10</b>	5,0	20	0,5
	<b>15</b>	4,2	23	0,4
	<b>20</b>	3,4	28	0,3

Operational noise level [dB(A)]		
Selected speed	From distance of 1m	From distance of 3m
<b>3</b>	61	58
<b>2</b>	56	53
<b>1</b>	49	46
Curtain weight		
<b>Weight [kg]</b>	25	

## SMART-104-E

### DIMENSIONS



Parameters of fan in curtain	
Voltage [V]	230
Motor power [kW]	0,130
Current [A]	0,60
Revolutions [rpm]	1250

Thermal power and air flow of the curtain with the electric heaters	
Air flow [m³/h]	1750
Thermal power levels [kW]	1,5 / 3 / 4,5 1 / 2 / 3*

\* - single phase electric heater

Operational noise level [dB(A)]		
Selected speed	From distance of 1m	From distance of 3m
3	61	58
2	56	53
1	49	46
Curtain weight		
Weight [kg]	29	

# SMART-104-Z

## DIMENSIONS



Parameters of fan in curtain	
Voltage [V]	230
Motor power [kW]	0,130
Current [A]	0,60
Revolutions [rpm]	1250
Air flow [m <sup>3</sup> /h]	1850

Operational noise level [dB(A)]		
Selected speed	From distance of 1m	From distance of 3m
3	61	58
2	56	53
1	49	46
Curtain weight		
Weight [kg]	21	

# SMART-156-W

## DIMENSIONS



Parameters of fan in curtain	
Voltage [V]	230
Motor power [k]	0,130
Current [A]	0,60
Revolutions [rpm]	1250

Air flow of the curtain with the water heater				
Air flow [m³/h]		2300		
Thermal power [kW], outflow air temperature [oC] and resistance of water flow [kPa]				
Water temp. [°C]	Inflow air temp.[°C]	kW	°C	kPa
90/70	5	19,4	29	8,6
	10	17,6	32	7,0
	15	15,9	35	5,5
	20	14,3	38	5,0
80/60	5	16,2	25	5,9
	10	14,4	28	4,5
	15	12,5	31	3,8
	20	11,3	34	3,0
70/50	5	13,0	21	3,9
	10	11,4	24	3,0
	15	9,9	27	2,3
	20	8,4	31	1,6

<b>60/40</b>	<b>5</b>	<b>10,1</b>	<b>17</b>	<b>2,6</b>
	<b>10</b>	<b>8,5</b>	<b>20</b>	<b>1,7</b>
	<b>15</b>	<b>7,1</b>	<b>24</b>	<b>1,0</b>
	<b>20</b>	<b>5,7</b>	<b>27</b>	<b>1,0</b>

Operational noise level [dB(A)]		
Selected speed	From distance of 1m	From distance of 3m
<b>3</b>	<b>61</b>	<b>58</b>
<b>2</b>	<b>56</b>	<b>53</b>
<b>1</b>	<b>48</b>	<b>45</b>
Curtain weight		
<b>Weight [kg]</b>	<b>35</b>	

## SMART-156-E

### DIMENSIONS



Parameters of fan in curtain	
Voltage [V]	230
Motor power [kW]	0,130
Current [A]	0,60
Revolutions [rpm]	1250

Thermal power and air flow of the curtain with the electric heaters	
Air flow [m <sup>3</sup> /h]	2800
Thermal power levels [kW]	3 / 6 / 9

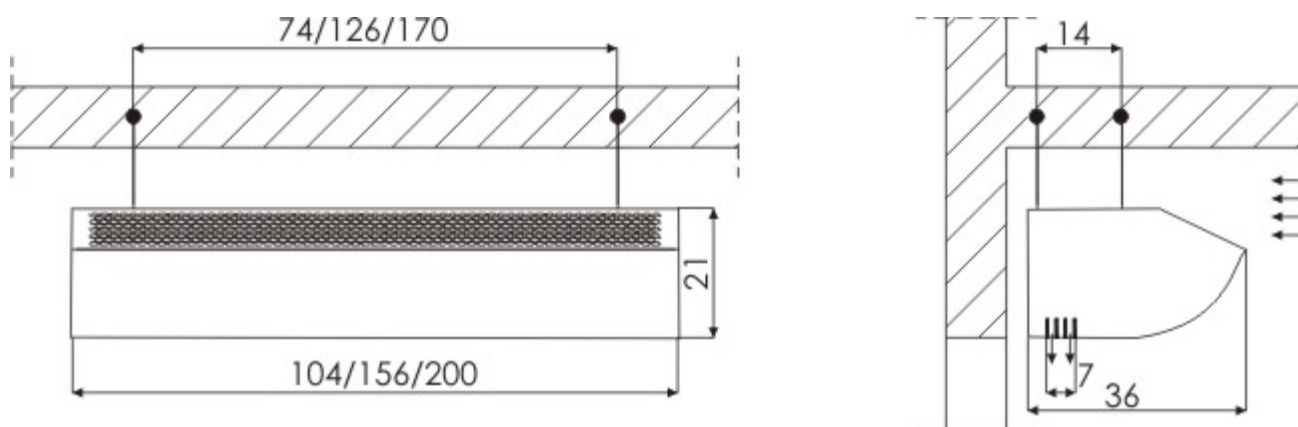
Operational noise level [dB(A)]		
Selected speed	From distance of 1m	From distance of 3m
3	61	58
2	56	53
1	48	45

Curtain weight	
Weight [kg]	37



## SMART-156-Z

### DIMENSIONS



Parameters of fan in curtain	
Voltage [V]	230
Motor power [kW]	0,130
Current [A]	0,60
Revolutions [rpm]	1250
Air flow [m <sup>3</sup> /h]	3100

Operational noise level [dB(A)]		
Selected speed	From distance of 1m	From distance of 3m
3	61	58
2	56	53
1	48	45
Curtain weight		
Weight [kg]	29	

## SMART-200-W

### DIMENSIONS



Parameters of fan in curtain	
Voltage [V]	230
Motor power [kW]	0,130×2
Current [A]	0,60×2
Revolutions [rpm]	1250

Air flow of the curtain with the water heater				
Air flow [m³/h]			2900	
Thermal power [kW], outflow air temperature [oC] and resistance of water flow [kPa]				
Water temp. [°C]	Inflow air temp.[°C]	kW	°C	kPa
90/70	5	23,5	27	1,7
	10	21,5	31	1,3
	15	19,4	34	1,1
	20	17,4	38	1,0
80/60	5	19,5	24	1,5
	10	17,6	27	1,1
	15	15,6	30	0,9
	20	13,8	34	0,7
70/50	5	15,7	20	1,1
	10	13,9	24	0,9
	15	12,7	27	0,7
	20	10,3	30	0,5

<b>60/40</b>	<b>5</b>	12,1	17	0,7
	<b>10</b>	10,4	20	0,4
	<b>15</b>	8,6	23	0,3
	<b>20</b>	7,0	27	0,2

Operational noise level [dB(A)]		
Selected speed	From distance of 1m	From distance of 3m
<b>3</b>	62	59
<b>2</b>	57	54
<b>1</b>	51	48
Curtain weight		
<b>Weight [kg]</b>	44	

## SMART-200-E

### DIMENSIONS



Parameters of fan in curtain	
Voltage [V]	230
Motor power [kW]	0,130×2
Current [A]	0,60×2
Revolutions [rpm]	1250

Thermal power and air flow of the curtain with the electric heaters	
Air flow [m³/h]	3620
Thermal power levels [kW]	4 / 8 / 12

\* - single phase electric heater

Operational noise level [dB(A)]		
Selected speed	From distance of 1m	From distance of 3m
3	62	59
2	57	54
1	51	48
Curtain weight		
Weight [kg]	46	

## SMART-200-Z

### DIMENSIONS



Parameters of fan in curtain	
<b>Voltage [V]</b>	230
<b>Motor power [kW]</b>	0,130×2
<b>Current [A]</b>	0,60×2
<b>Revolutions [rpm]</b>	1250
<b>Air flow [m<sup>3</sup>/h]</b>	3900

Operational noise level [dB(A)]		
Selected speed	From distance of 1m	From distance of 3m
<b>3</b>	62	59
<b>2</b>	57	54
<b>1</b>	51	48
Curtain weight		
<b>Weight [kg]</b>	38	