



## Air curtains

114 | **MRX** condensing gas air curtain **NEW**

118 | **MRA-H** gas air curtain

121 | **MRA-A** ventilation only air curtain **NEW**

122 | **SW / SE** hot water / electrical air curtain

124 | **SWR / SER** built-in hot water / electrical air curtain

Recommended use and operating limits available in the technical datasheets on our Internet site



MRX

CONDENSING GAS AIR CURTAIN

COMFORT AND COST-EFFECTIVE "PREMIUM" SOLUTION  
NEARBY DOORS FOR INDUSTRIAL BUILDINGS:

- Vertical mounting
- Hot air jet (less than 40 seconds)
- Recommended installation height: 3 to 6 metres



LAMINAR AIR JET (HOMOGENEOUS BLOWING)  
**GAS SAVINGS BETWEEN 15% AND 45%**

**RECORD COMBUSTION EFFICIENCY OF 107 %**

Continuous modulation from 30% to 100%  
**Ultra-fast warm-up time**

**Absolute safety (no flames or combustion gases in the air flow)**

**Corrosion-resistant components**

NO RISK OF POLLUTING THE REHEATED AIR BECAUSE OF SEPARATION OF THE COMBUSTION PART/AIR CIRCUIT  
SHUT-DOWN ON FULL POWER TOLERATED BY DAMP COMBUSTION CHAMBER AND HOT WATER HEAT EXCHANGER



\* Class 5 : < 50 mg/kWh

Complete pre-adjusted mini-boiler

Stainless heating body with cold door (guaranteed lifetime)

Pre-mixing modulating burner (power modulation from 30% to 100%)

Automatic air / flue gas adaptation (no flue calculations required)

Copper tube heat exchanger of high thermal conductivity  
- 330 W/m<sup>2</sup>/°C

Permanent optimisation of power level with ECO-TEC electronic card

Aerodynamically profiled crescent-shaped fan blades

Single deflection blower grille (RAL 9006)

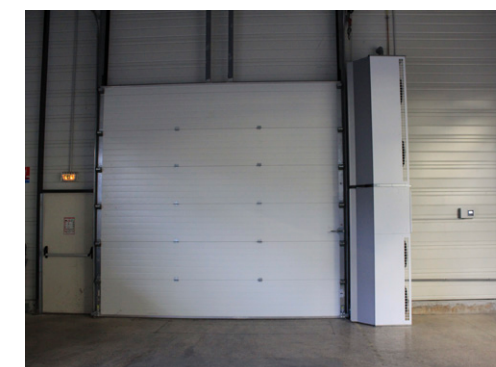
Laminar air jet diffuser (fitted with an orientable vent)

Flue pipes in high density polypropylene (maximum flue gas  
temperature 90°C)

Condensate removal from the rear (1 single siphon diameter 32)

Regulation settings:

- Weekly timer
- 2 levels of temperature setting (day and night)
- Function selection (Off / Automatic running / Ventilation / Forced)
- Burner reset
- Possibility of connection to door opening detection



**98%**

efficiency at  
full load

**6 000 m<sup>3</sup>/h**

air flow rate

**20 mg/kWh**

NOx emission

**90°C**

maximum flue gas  
temperature

VERTICAL MOUNTING

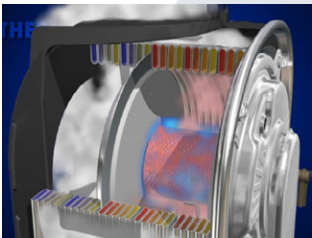
Up to 3 hot air curtains can be superposed, according to the following configurations:

- 2 gas condensation hot air curtains MRX + 1 ambient air curtain MRA-A (cf. page 121)
- 1 gas condensation hot air curtain MRX + 2 ambient air curtain MRA-A

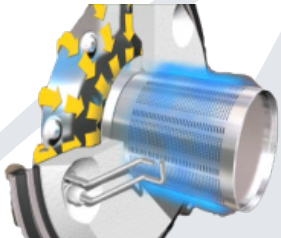
MAIN COMPONENTS



- 1 Mini heater (burner/chamber)
- 2 Exchanger battery
- 3 Ventilators
- 4 Air diffuser
- 5 Smoke evacuation



Detail of heater body

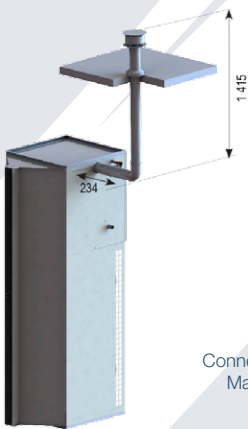


Detail of PREMIX burner

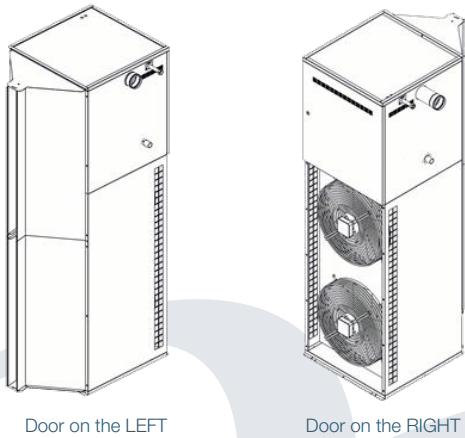
SMOKE EVACUATION CONNECTION



Connection type B23 Horizontal  
Maximum length: 12 m



Connection type B23 Vertical  
Maximum length: 12 m

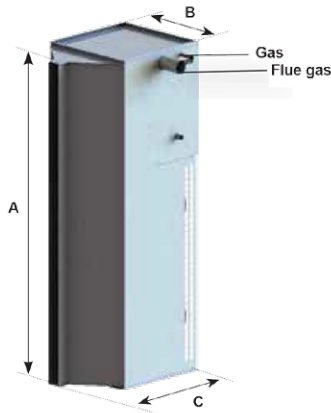


TECHNICAL SPECIFICATIONS

		MRX50
Heating value LHV	kW	11 – 45
Rated power	kW	11.9 – 43.7
Efficiency at full load	%	98
Efficiency at minimum load	%	107
Air flow rate at 15°C	m³/h	6 000
ΔT air ranges	°C	8 – 24
NOx: Class 5	m³/h	4.77
G20 gas flow rate	m³/h	5.23
G25 gas flow rate	kg/h	3.51
G31 propane flow rate	m³/h	100
Condensate flow rate	litre/h	2.5
Flue gas temperature	°C	50 – 100
Electrical supply		1 x 230 V + N - 50 Hz
Range of operating temperature		-15°C / +40°C
Condensate connection diameter	W	420
Motor speed	tr/min	1 400
Electrical power	W	640

DIMENSIONS

		MRX50
Width A	mm	2 080
Height B	mm	650
Depth C	mm	866
Flue diameter	mm	80
Condensate connection diameter	mm	32
Gas connection		1/2" gas pitch
Volume of circuit (water with glycol - 15°C)	litre	12
Mass	kg	120

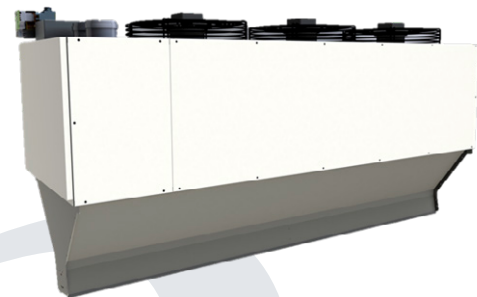


For more information on the **MRX condensing gas air curtain**, scan this QR code with your smartphone or see our Internet site



## COMFORT AND COST-EFFECTIVE SOLUTION NEARBY DOORS FOR INDUSTRIAL BUILDINGS

- 2 models: MRA-H (with a gas burner of 45 kW), MRA-A (only ventilation)
- MRA-H: horizontal mounting only
- MRA-A: horizontal or vertical mounting
- Air diffuser with high speed laminar air flow
- Recommended height of installation: 4 to 6 m



"The first criterion that made us choose the MRA-45H air curtain was the quality/price ratio right in line with our budget. Second was reactivity to successive requests in order to adjust the offers to the site constraints. Third was the ease of communication with the sales department who remains available to all reminders and can react in the case of error. A company to recommend overall."

Alain CHATELIER, Business manager, EIFFAGE ENERGIE

**91%**  
combustion  
efficiency

**10 500 m³/h**

air flow rate

**2**  
diffuser sizes  
(MRA-A)

**1.5 mm**  
exchanger  
thickness

## LAMINAR AIR FLOW (HOMOGENEOUS BLOWING) MULTI-TORCH BURNER Double gas solenoid

2 MM THICK WELDLESS TUBULAR EXCHANGER IN ALUMINISED STEEL

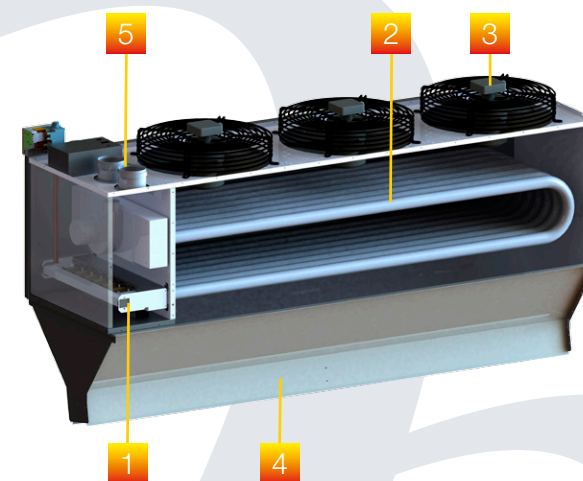
Aluminium tinted front diffuser with adjustable vents  
Automatic ignition by electrode  
2-channel weldness tubular exchanger

Ionisation probe flame control

CASE IN SHEET STEEL WITH OVEN-BAKED EPOXY PAINT  
REMOTE RESETTING WITH CONTROL UNIT

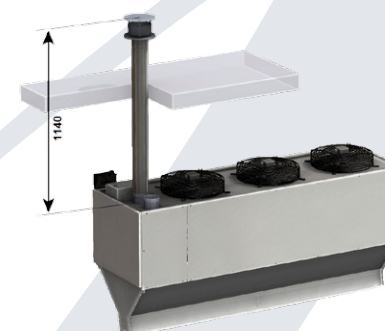


### MAIN COMPONENTS

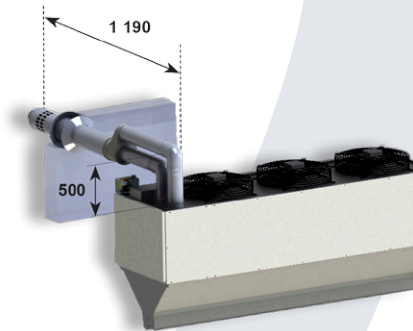


- 1 Multi-torch burner
- 2 Tubular heat exchanger
- 3 Blowing fan
- 4 Air diffuser
- 5 Flue gas extractors

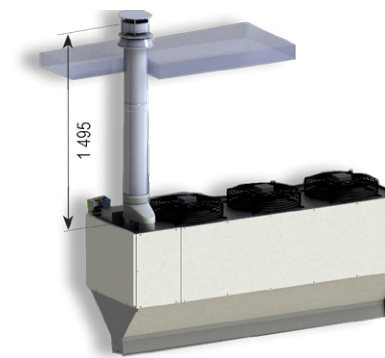
### FLUE CONNECTION



B22 flue kit



C12 balanced flue kit



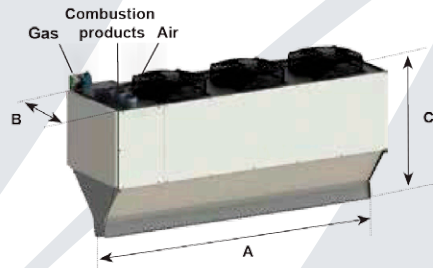
C32 balanced flue kit

TECHNICAL SPECIFICATIONS

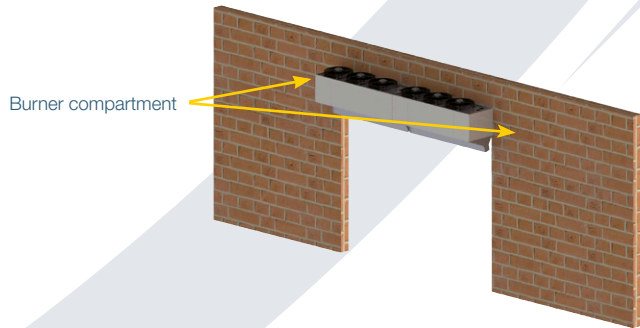
		MRA 45-H
Heating capacity (LHV)	kW	44
Heat output	kW	40.5
Combustion efficiency	%	91
Air flow rate at 15°C (HS)	m³/h	10 500
Air flow rate at 15°C (LS)	m³/h	8 200
Air ΔT range HS/LS	°C	12 / 15
G20 gas flow rate	m³/h	4.63
G25 gas flow rate	m³/h	5.17
G31 gas flow rate	kg/h	3.52
Minimum air flow rate	m³/h	100
Electrical supply	1 x 230 V + N - 50 Hz	
Range of operating temperature	-15°C / +40°C	
Gas connection	3/4" gas pitch	
Type and number of fans	3 x 450 mm	
Motor speed HS/LS	tr/min	1 350 / 1 050
Electrical power	W	1 350

DIMENSIONS

		MRA 45-H
Length A	mm	1 980
Width B	mm	610
Height C	mm	1 000
Diameter of air inlet connection	mm	100
Diameter of flue outlet connection	mm	100
Fixing points	4 x M8	
Fixing centre distance	mm	1 640 x 500
Mass	kg	173



SIDE BY SIDE MOUNTING POSSIBLE



No more than 2 curtains can be installed side by side

MRA-A – VENTILATION ONLY AIR CURTAIN

- Effective and economical solution against external air entry on passing through doors
- 2 models: 1.5 and 2 m
- Horizontal or vertical mounting
- Pre-lacquered white body RAL 9003

SEVERAL APPLIANCES CAN BE INSTALLED IN LINE DEPENDING ON THE DOOR DIMENSIONS:



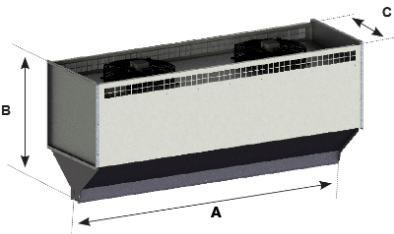
Horizontal



Vertical

TECHNICAL SPECIFICATIONS AND DETAILS

		MRA 1,5A	MRA 2A
Diffuser	m	1.5	2
Air flow rate	m³/h	5 000	6 680
Max. installation height	m	6	6
Electrical supply		1 x 230 V + N - 50Hz	
Electrical power	W	620	850
Length A	m	1 472	2 002
Height B	m	1 050	1 050
Width C	m	610	610
Mass	kg	55	73



For further information on **MRA-H / MRA-A gas air curtain / ventilation air curtain**, scan the QR code with your smartphone or go to our Internet site

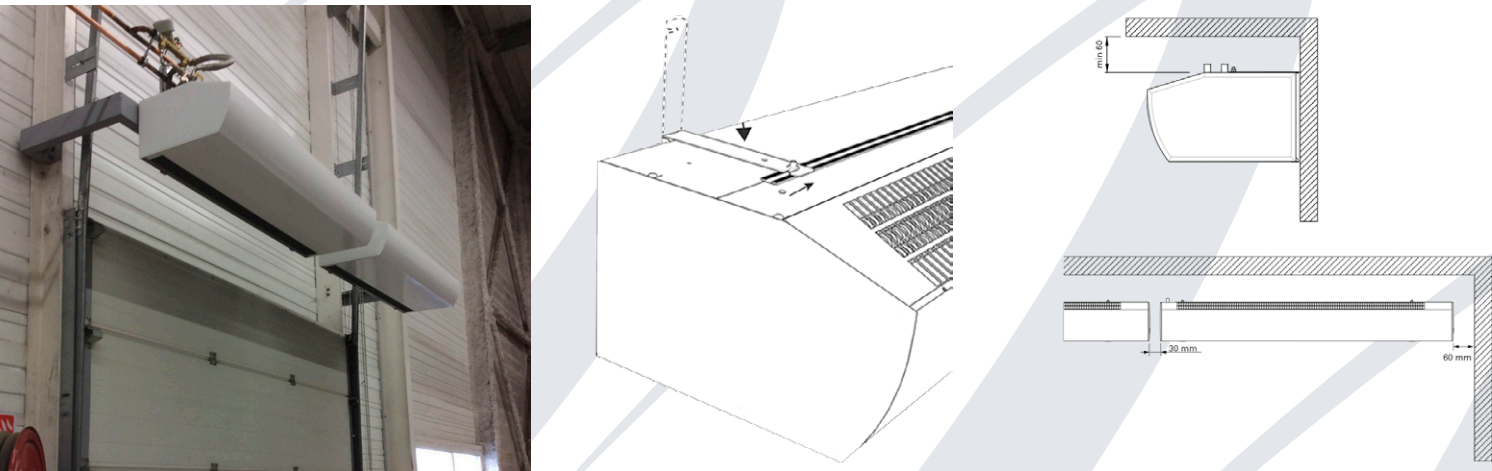


COMFORT AND COST-EFFECTIVE SOLUTION NEARBY DOORS

- Recommended installation height: 2 to 3.5 m
  - Horizontal mounting
  - Lengths: 1, 1.5 and 2 m
  - Careful design (carrosserie RAL 9016)
  - Adjustable air blowing grid
- Hot water type from 5 to 31.2 kW (SW)
  - Electrical type from 3.3 to 16 kW (SE)
  - Integrated control (right side face)
  - Supplied remote control
  - Wall mounting brackets

Available accessories: door contact, suspended mounting brackets, hydraulic kit

INSTALLATION PRINCIPLE



TECHNICAL SPECIFICATIONS

		SW 101	SW 151	SW 201	SW 103	SW 153	SW 203
Max. / min. thermal power (2-stage battery)	kW	6.9 / 5	11.1 / 7.8	14.4 / 10.5	14.6 / 10.6	24.7 / 19.2	31.2 / 23.7
Max. / min. air flow rate	m³/h	1 200 / 700	1 800 / 1 000	2 400 / 1 400	1 700 / 1 050	2 700 / 1 850	3 300 / 2 200
Electrical power		1 x 230 V + N - 50 Hz			1 x 230 V + N - 50 Hz		
Current absorbed	A	0.4	0.5	0.8	0.65	0.7	1.3
Sound level PV / GV at 5 m	dB <sub>A</sub>	39 / 52	37 / 53	40 / 53	45 / 55	46 / 57	49 / 58
Water flow rate / max. loss of water head	(l/s) / kPa	0.08 / 7.2	0.14 / 9.6	0.18 / 7.9	0.18 / 8.5	0.3 / 16.8	0.38 / 19
Min. / max. air outlet temperature	°C	35 / 39	36 / 40	35 / 40	43 / 48	45 / 49	46 / 50
Mass	kg	17	26	35	26	36	48
Length	mm	1 026	1 536	2 026	1 045	1 555	2 045
Maximum installation height	m	2.5	2.5	2.5	3.5	3.5	3.5

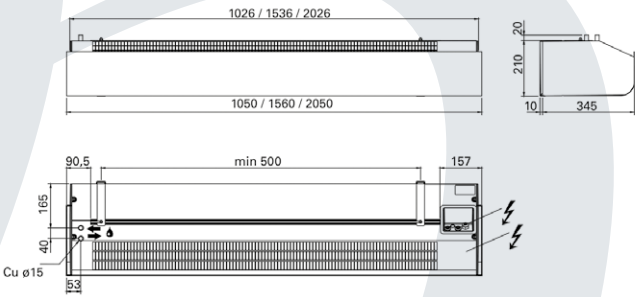
Running at 80/60°C, air temperature 18°C, RH 50%, protection index: IP21

		SE 101	SE 151	SE 201	SE 103	SE 153	SE 203
Max. / min. thermal power	kW	5 / 3.3	8 / 4	10 / 5	8 / 5	12 / 8	16 / 10
Max. / min. air flow rate	m³/h	1 200 / 900	1 800 / 1 150	2 400 / 1 800	1 750 / 1 100	2 750 / 1 700	3 500 / 2 300
Electrical supply		3 x 400 V + N - 50 Hz			3 x 400 V + N - 50 Hz		
Current absorbed heating / motor	A	7.2 / 0.45	11.5 / 0.5	14.4 / 0.9	11.5 / 0.7	17.3 / 1.0	23.1 / 1.3
Sound level PV / GV at 5 m	dB <sub>A</sub>	42 / 51	40 / 52	43 / 53	46 / 57	46 / 59	50 / 60
Mass	kg	17	26	34	26	37	51
Length	mm	1 026	1 536	2 026	1 045	1 555	2 045
Maximum installation height	m	2.5	2.5	2.5	3.5	3.5	3.5

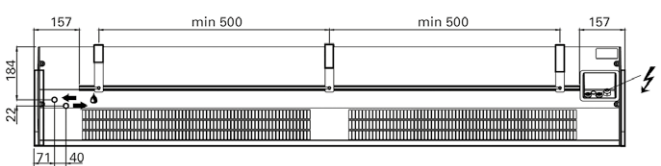
Protection index: IP20

DIMENSIONS

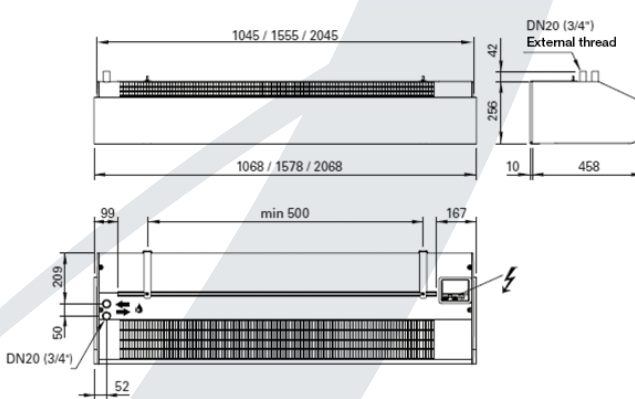
Dimensions SW / SE 101 and 151



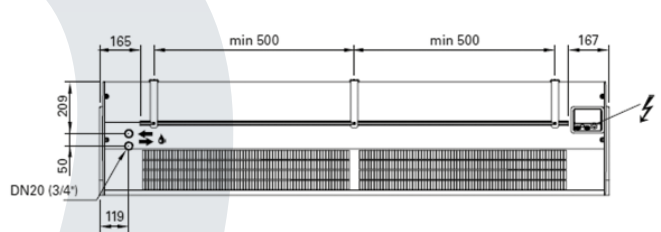
Dimensions SW / SE 201



Dimensions SW / SE 103 and 153



Dimensions SW / SE 203



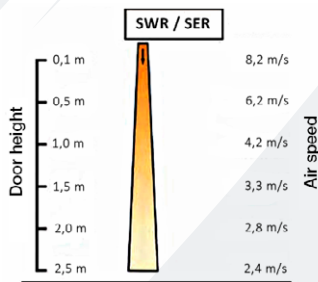
For further information on **SW / SE hot water / electrical air curtain**, scan the QR code with your smartphone or go to our Internet site

SOLUTION FOR COMFORT AND SAVINGS FOR FALSE CEILINGS

- Recommended installation height: 2.5 m
- Lengths: 1, 1.5 and 2 m
- Orientable jet blowing grille
- Hot water heating from 5.5 to 14 kW (SWR)
- Electric heating from 3 to 18 kW (SER)
- Thickness of built-in housing: 198 mm
- Under face in white lacquered aluminium RAL 9016
- Available accessories: control unit, thermostat 2 settings, door regulator



INSTALLATION PRINCIPLE



TECHNICAL SPECIFICATIONS

Built in hot water curtain SWR  
(connection 1/2" female left-hand)

		SWR 210	SWR 215	SWR 220
Thermal power (*)	kW	7 / 5.5	11 / 8	14 / 11
Maximum / minimum air flow rate	m³/h	1 000 / 700	1 600 / 1 000	2 000 / 1 400
ΔT water (*,**)	°C	24 / 21	24 / 20	23 / 20
Water volume	l	0.5	0.9	1.1
Electrical supply		1 x 230 V + N - 50 Hz		
Current absorbed	A	0.4	0.6	1
Sound level PV / GV (***)	dB <sub>A</sub>	41 / 49	37 / 50	44 / 53
Grille length	mm	1 042	1 552	2 042
Grille width	mm	432		
Height	mm	198		
Mass	kg	21	30	42
Maximum installation height	m	2.5		

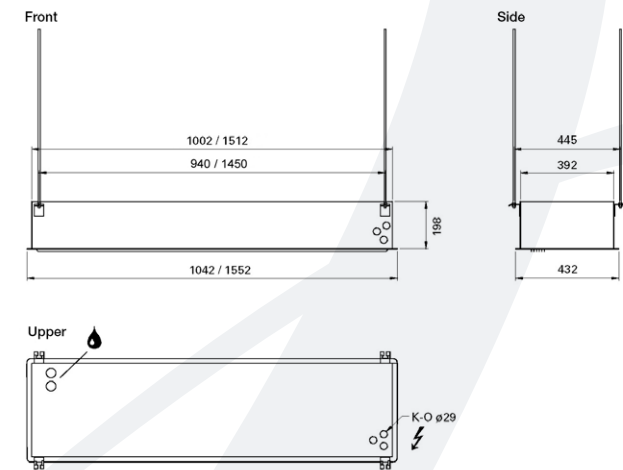
\* Water temperature 80/60 °C, air inlet temperature +15 °C  
Protection class: normal use (IP20)  
\*\* ΔT: for min/max flow rate  
\*\*\* Conditions: Distance 3 metres. Directional factor: 2. Equivalent absorption area: 200 m²

Built in electric curtain SER  
230 V single phase or 400 volt three-phase

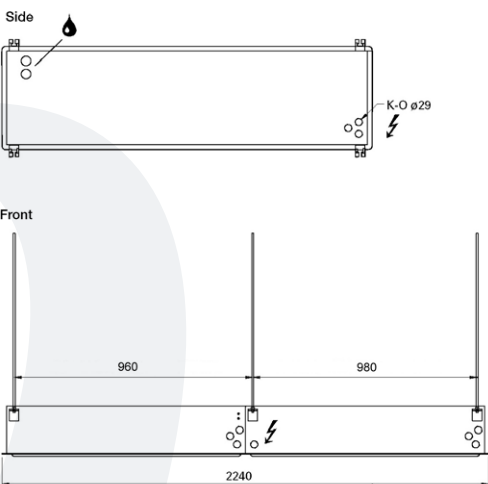
		SER 210	SER 215	SER 220
Thermal power (single phase 230 V)	kW	5 / 3	6.8 / 4.5	10 / 6
Thermal power (three-phase 400 V)	kW	9 / 6	11.3 / 6.8	18 / 12
Maximum / minimum air flow rate	m³/h	1 200 / 650	1 750 / 950	2 400 / 1 300
Electrical supply		3 x 400 V + N - 50 Hz ou 1 x 230 V + N - 50 Hz		
Current absorbed (single phase 230 V)	A	21.7	29.6	43.5
Current absorbed (three-phase 400 V)	A	13	16.3	26
Sound level PV / GV (***)	dB <sub>A</sub>	34 / 50	34 / 50	40 / 54
Grille length	mm	1 042	1 552	2 042
Grille width	mm	432		
Height	mm	198		
Mass	kg	22.5	32.3	43.5
Maximum installation height	m	2.5		

DIMENSIONS

SWR / SER 210 and 215



SWR / SER 220



For further information on **SWR / SER built-in hot water / electrical air curtain**, scan the QR code with your smartphone or go to our Internet site