

**8/S2**  
v 1.0 (en)



# AIR CURTAINS

## GRAND, GRAND CASSETTE

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**AIR CURTAIN GRAND**

Air curtain series Grand from Klimaoprema Quant Line programme are intended for installation in areas with high estetical demands.

With its oval casing it will elegantly blend into areas like hotels, banks, malls etc.

- Length: 1, 1.5, 2 and 2.5 m
- **Airflow up to 6300m<sup>3</sup>/h**
- Intake grill with filter
- Universal connection for control modules(SM, DM, DA)
- Installation height **up to 5 m**
- Standard powdercoated to RAL 9010 (all other colours are available on request)



No heater



Water heater



Electric heater

**TECHNICAL CHARACTERISTICS**
**Grand 40**

Type	Installation height [m]*	Air output [m <sup>3</sup> /h]			Sound pressure [dB(A)]**			Heater power output [kW]	Heater consumption [V/A]	Fan consumption [V/A]	Weight [kg]
		3 Speed	2 Speed	1 Speed	3 Speed	2 Speed	1 Speed				
40-10-N	4,0	2200	1600	1100	56,0	47,9	39,8	-	-	230/2,25	42
40-15-N		3400	2400	1700	58,7	50,9	43,2	-	-	230/3,50	59
40-20-N		4550	3150	2200	59,7	51,8	43,8	-	-	230/4,70	76
40-25-N		5500	4000	2850	60,8	53,4	44,8	-	-	230/5,60	93
40-10-E-10		2150	1550	1100	56,0	47,9	39,8	9,5	400/13,7	230/2,25	46
40-15-E-15		3350	2300	1650	58,7	50,9	43,2	15	400/21,7	230/3,50	63
40-20-E-19		4550	3100	2150	59,7	51,8	43,8	19	400/27,5	230/4,70	81
40-25-E-25		5400	3950	2800	60,8	53,4	44,8	24,5	400/35,4	230/5,60	99
40-10-W		2100	1500	1050	55,8	47,9	39,7	16,97***	-	230/2,25	48
40-15-W		3300	2250	1600	57,6	49,4	41,6	38,47***	-	230/3,50	65
40-20-W		4400	2950	2100	59,3	51,0	42,9	52,64***	-	230/4,70	83
40-25-W		5250	3700	2550	60,6	52,7	45,4	65,46***	-	230/5,60	97

\* Limited distance when air flow speed decreases to app. 3 m/s.

\*\* Acoustic pressure measured at 3 and 5 m away from the device at maximum motor speed

\*\*\* Suction air temperature +18°C, at maximum heating level and highest fan speed.

**Grand 50**

Type	Installation height [m]*	Air output [m <sup>3</sup> /h]			Sound pressure [dB(A)]**			Heater power output [kW]	Heater consumption [V/A]	Fan consumption [V/A]	Weight [kg]
		3 Speed	2 Speed	1 Speed	3 Speed	2 Speed	1 Speed				
50-10-N	4,0	2850	2050	1450	59,6	51,7	43,6	-	-	230/3,30	48
50-15-N		4150	3000	2150	60,0	52,1	44,2	-	-	230/4,60	64
50-20-N		5150	3700	2600	60,3	52,6	44,5	-	-	230/5,55	80
50-25-N		6300	4500	3300	61,1	53,4	45,6	-	-	230/6,90	98
50-10-E-10		2800	2000	1400	59,6	51,7	43,6	9,5	400/13,7	230/3,30	53
50-15-E-15		4050	2950	2100	60,0	52,1	44,2	15	400/21,7	230/4,60	68
50-20-E-19		5050	3650	2550	60,3	52,6	44,5	19	400/27,5	230/5,55	86
50-25-E-25		6050	4400	3200	61,1	53,4	45,6	24,5	400/35,4	230/6,90	110
50-10-W		2750	1950	1380	59,1	51,4	42,9	20,80***	-	230/3,30	55
50-15-W		3900	2700	2000	59,7	52,2	43,9	43,87***	-	230/4,60	70
50-20-W		4800	3450	2400	60,2	52,6	44,8	56,21***	-	230/5,55	88
50-25-W		5950	4250	3000	60,7	53,3	45,5	72,12***	-	230/6,90	108

\* Limited distance when air flow speed decreases to app. 3 m/s.

\*\* Acoustic pressure measured at 3 and 5 m away from the device at maximum motor speed

\*\*\* Suction air temperature +18°C, at maximum heating level and highest fan speed.

## AIR CURTAINS GRAND AND GRAND CASSETTE

### Technical characteristics of electric heater

Type	Air flow [m <sup>3</sup> /h]	Heater output [kW]	Temperature difference $\Delta t$ [°C]
40-10-E-10	2150	9,5	13,19
40-15-E-15	3350	15	13,36
40-20-E-19	4550	19	12,46
40-25-E-25	5400	24,5	13,54
50-10-E-10	2800	9,5	10,12
50-15-E-15	4050	15	11,05
50-20-E-19	5050	19	11,23
50-25-E-25	6050	24,5	12,08

### Water exchanger parameters for water temperature gradient of 60/40 °C

Type	Air flow [m <sup>3</sup> /h]	Heat output [kW]	Outlet temperature [°C]	Water flow [l/s]	Pressure loss [kPa]
40-10-W	2100	8,21	30	0,10	1,33
40-15-W	3300	18,72	36	0,22	2,57
40-20-W	4400	25,83	37	0,31	3,49
40-25-W	5250	32,13	37	0,38	5,47
50-10-W	2750	10,00	30	0,12	1,79
50-15-W	3900	21,23	35	0,25	2,94
50-20-W	4800	27,48	36	0,33	3,83
50-25-W	5950	35,22	37	0,42	6,34

\* Temperature of intake air: +18 °C

### Water exchanger parameters for water temperature gradient of 70/50 °C

Type	Air flow [m <sup>3</sup> /h]	Heat output [kW]	Outlet temperature [°C]	Water flow [l/s]	Pressure loss [kPa]
40-10-W	2100	11,05	35	0,13	2,09
40-15-W	3300	25,15	43	0,30	3,54
40-20-W	4400	34,60	43	0,41	5,48
40-25-W	5250	43,03	44	0,51	8,82
50-10-W	2750	13,50	34	0,16	2,88
50-15-W	3900	28,58	42	0,34	4,08
50-20-W	4800	36,86	43	0,44	6,06
50-25-W	5950	47,25	44	0,56	10,30

\* Temperature of intake air: +18 °C

### Water exchanger parameters for water temperature gradient of 80/60 °C

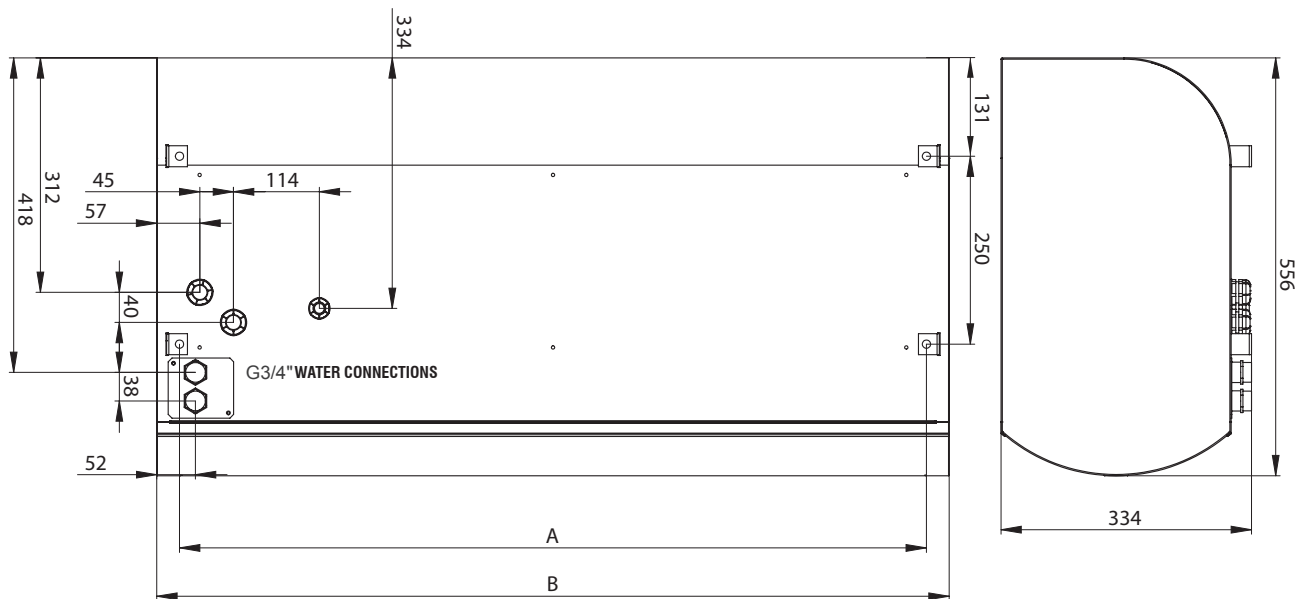
Type	Air flow [m <sup>3</sup> /h]	Heat output [kW]	Outlet temperature [°C]	Water flow [l/s]	Pressure loss [kPa]
40-10-W	2100	13,97	40	0,17	3,04
40-15-W	3300	31,72	49	0,38	4,58
40-20-W	4400	43,52	50	0,52	7,93
40-25-W	5250	54,13	52	0,64	12,96
50-10-W	2750	17,09	38	0,20	4,24
50-15-W	3900	36,12	48	0,43	5,31
50-20-W	4800	46,42	49	0,55	8,82
50-25-W	5950	59,54	51	0,71	15,26

\* Temperature of intake air: +18 °C

### Water exchanger parameters for water temperature gradient of 90/70 °C

Type	Air flow [m <sup>3</sup> /h]	Heat output [kW]	Outlet temperature [°C]	Water flow [l/s]	Pressure loss [kPa]
40-10-W	2100	16,97	45	0,20	4,19
40-15-W	3300	38,47	56	0,46	5,72
40-20-W	4400	52,64	57	0,63	10,90
40-25-W	5250	65,46	59	0,78	17,98
50-10-W	2750	20,80	43	0,25	5,92
50-15-W	3900	43,87	55	0,52	6,66
50-20-W	4800	56,21	57	0,67	12,19
50-25-W	5950	72,12	58	0,86	21,29

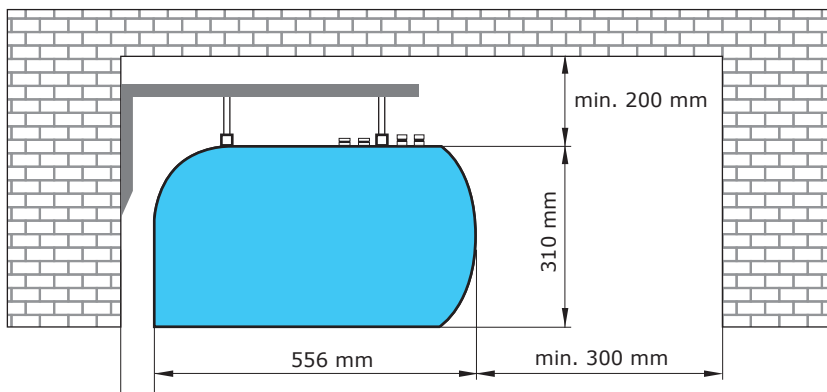
\* Temperature of intake air: +18 °C

**DIMENSIONS**


Type	Hole distance A [mm]	Width B [mm]
40-10- X..	994	1054
40-15- X..	1494	1554
40-20- X..	1994	2054
40-25- X..	2394	2454

**INSTALLATION**

- The air curtain shall be installed in a horizontal position only.
- The air curtain shall be located as close to the top edge of the doorway as possible, see figure.
- To ensure a correct function it is recommended that the air curtain overlaps the doorway by 100 mm on both sides.
- Correct operation of the air curtain requires that specified distances from the surrounding objects are observed, see figure.
- Position of the heating water and power supply connections shall be taken into consideration during installation.
- Suspension holders are used for installing the air curtains see ACCESSORIES.



**CONTROL**

**SM**

**DM**

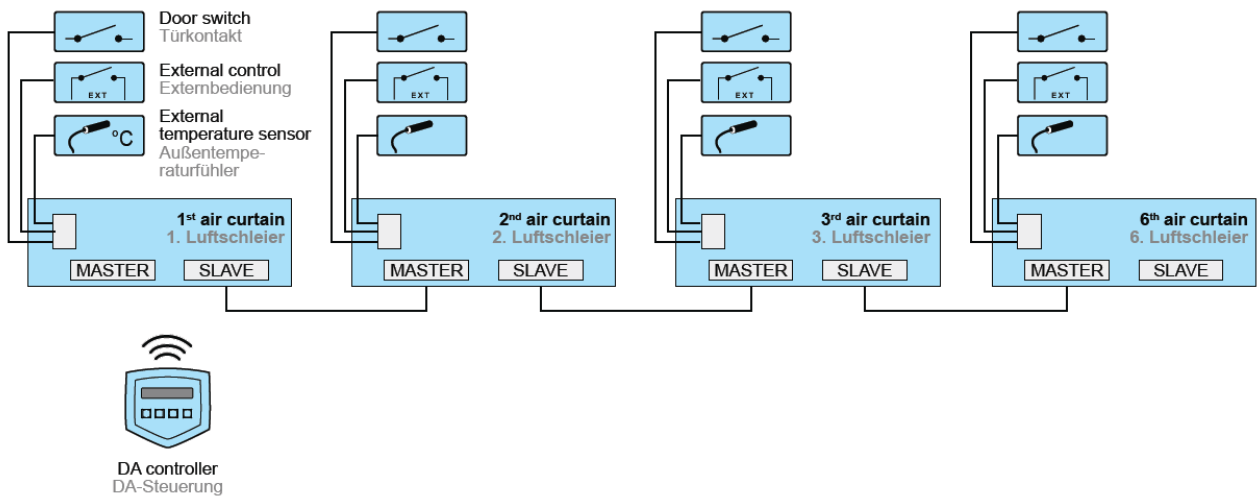
**DA**

	<b>SM</b>	<b>DM</b>	<b>DA</b>
Type of controller	Manual	Manual	Manual / Automatic
Regulation of air output	3 speeds	3 speeds	3 speeds
Regulation of electric heater	2 levels	2 levels	3 levels / Continuous
Regulation of water heater	Thermostatic valve	Zone valve (ON/OFF – redirection)	Mixing valve
Possibility of connecting a door contact	YES	YES	YES
Temperature measurement	NO	YES (room thermostat)	YES (2 internal sensors, 1 external sensor)
External control	NO	NO	YES (Internal – Day/Week)
External temperature sensor	NO	NO	YES
Air curtain cleaning interval indication based on operating hours	NO	NO	YES
Fan behavior with door switch	NO	NO	YES
Aftercooling electric heater	NO	30 s	30 s
Chaining air curtains	NO	YES	YES
Light indication of selected function	NO	YES	YES
Controller connection to air curtain	Power cable (230 V) with max. length of 100 m	Radio signal (range in open space 100 m)	Radio signal (range in open space 100 m)
Radio signal indication	NO	LED/ BEEP sound	LED/ BEEP sound

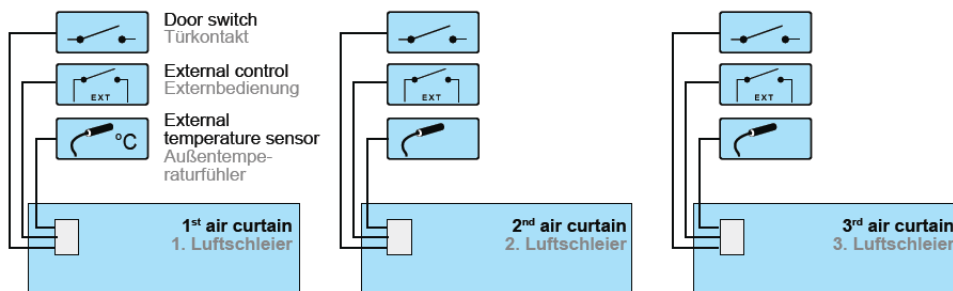
**CONTROL**

One external switching element can be connected to air curtains with the SM and DM control module (door contact). Such external switching element activates and deactivates complete air curtain. Air curtains fitted with the DA control module has outdoor temperature sensor connected and allows to connect two external switching elements (door switch, external switch).

Air curtain with the DA control regulates the fan speed and output of heater depending on the outdoor temperature and room temperature. DA control module has integrated timer controlled from control panel. Detailed description of the air curtain with DA control module and its function in the automatic mode is available in the instruction manual for DA control module.



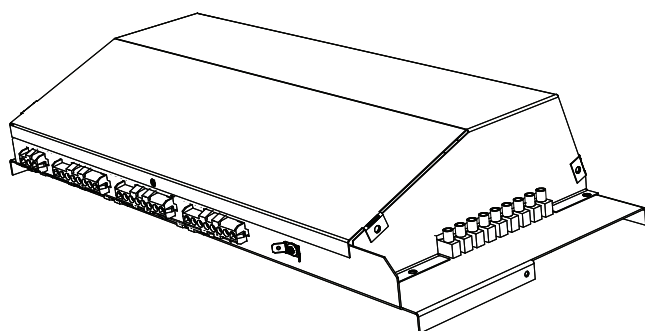
(for DM only door switch)  
bei DM nur Türkontakt



**ACCESSORIES**
**CONTROL MODULE (required accessories)**

A control module is an required accessorie for STANDESSE air curtain and shall be ordered for each air curtain. Control panel is included in delivery of control module. External temperature sensor is included in delivery with DA control module. The ordering key for control modules is provided below.

Control panels of DM and DA control modules use radio signal communication. If Modbus RTU is used the connection of DA control module with BMS is made by straight communication cable with RJ12 connector. Communication cable has to be ordered separatelly as an optional accessorie.


**CONTROLLER OREDERING KEY**

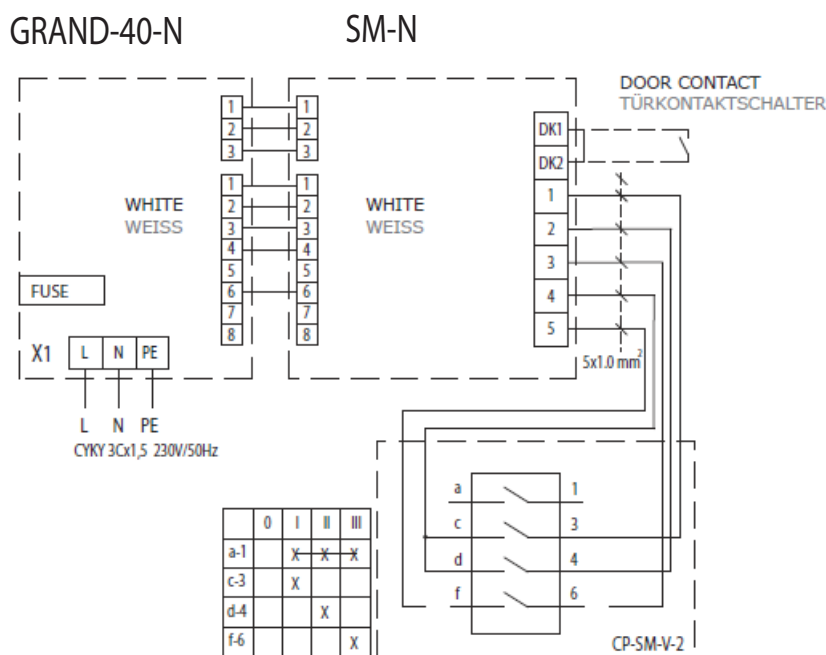
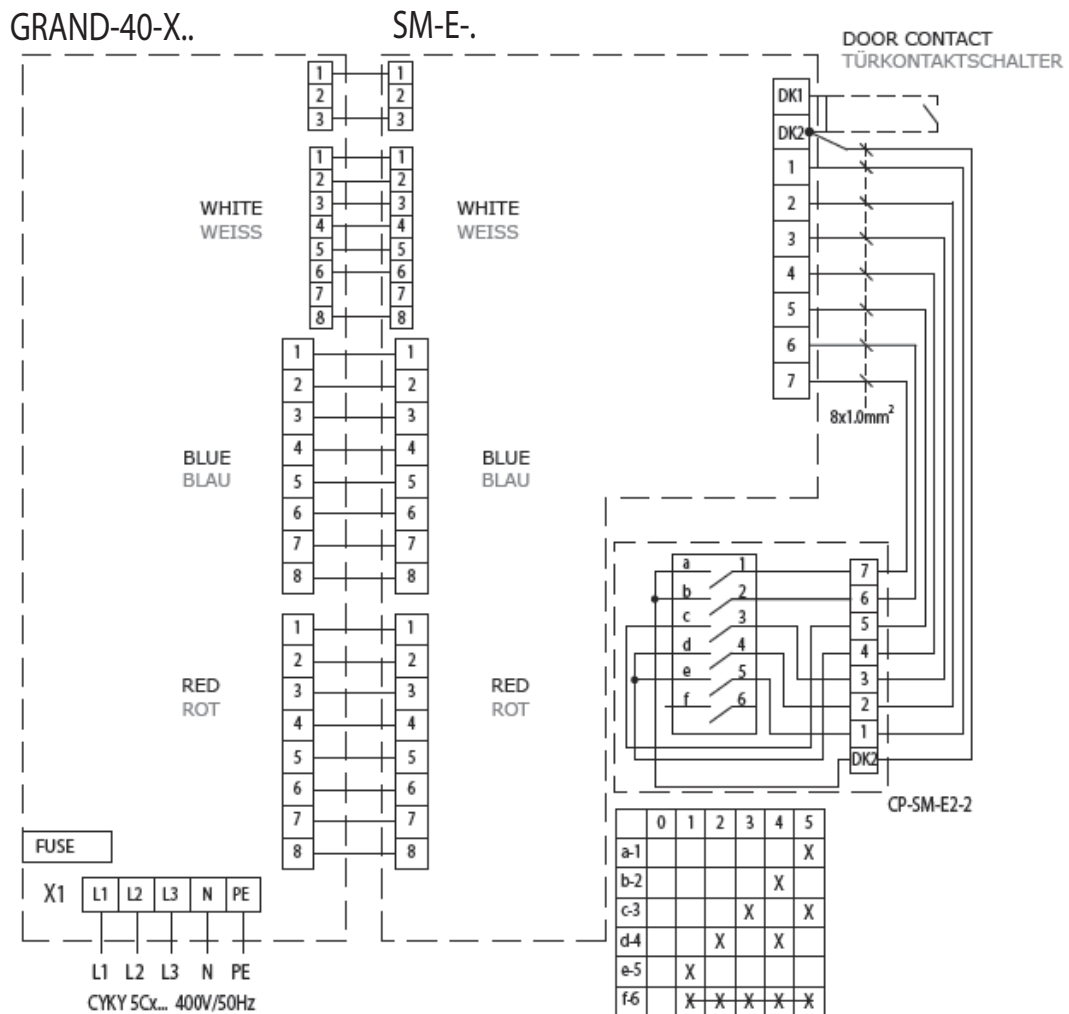
Air curtain type	<b>GRAND - DA - E</b>
Grand	
Grand Cassette	
Controller type	
<b>DA</b> - digital automatic control	
<b>DM</b> - digital manual control	
<b>SM</b> - simple manual control	
Heater type	
<b>S</b> - without heating regulation (only SM and DM)	
<b>E</b> - with electric heater regulation	
<b>V</b> - with water heater regulation	

**Other accessories**

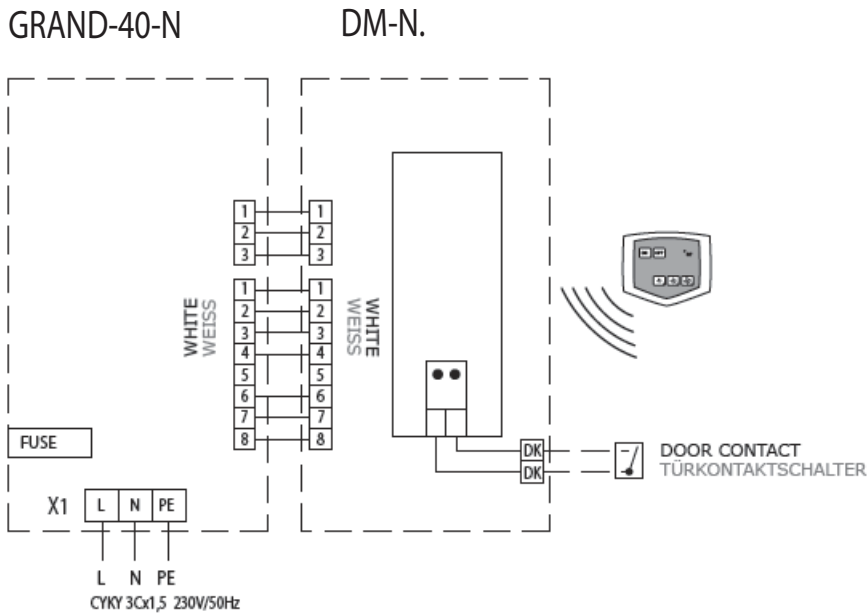
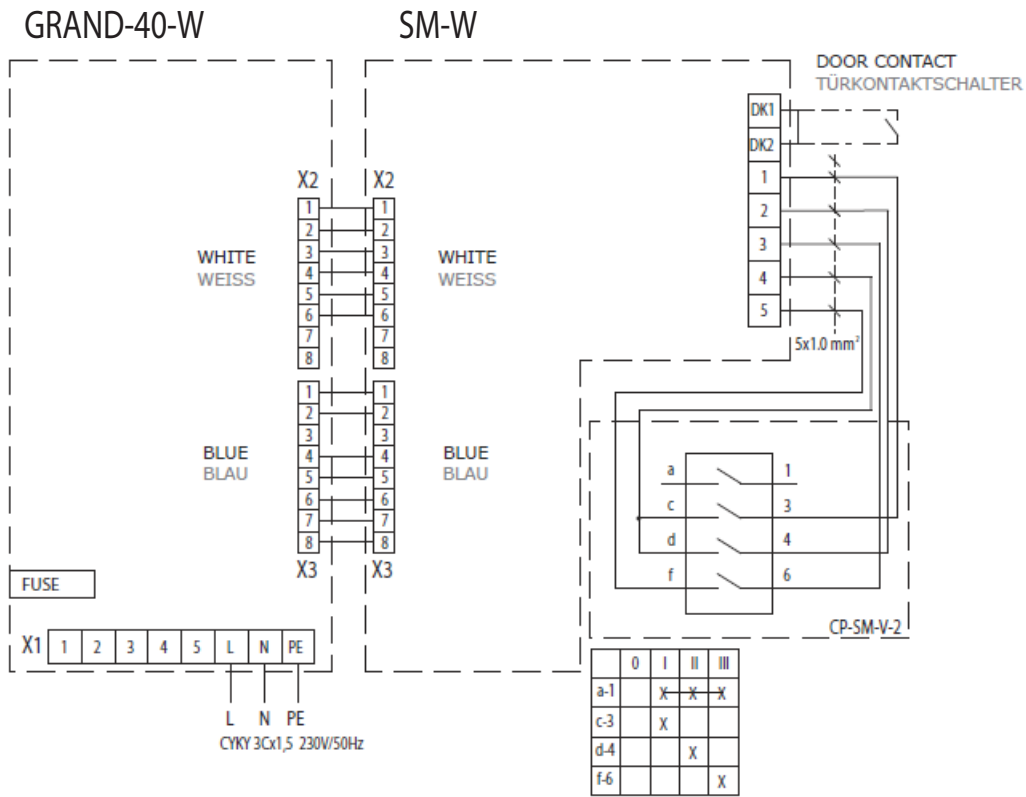
Image	Description	Code	Comaptible with
	Thermostatic valve	QL-540	All models
	Zone valve drive	QL-566	All models
	End switch	QL-580	All models
	Magnetic switch	QL-572	All models
	Room thermostat	QL-526	All models
	3-way valve	QL-548	All models
	Flexible couplings	QL-554	All models



ELECTRICAL SCHEME



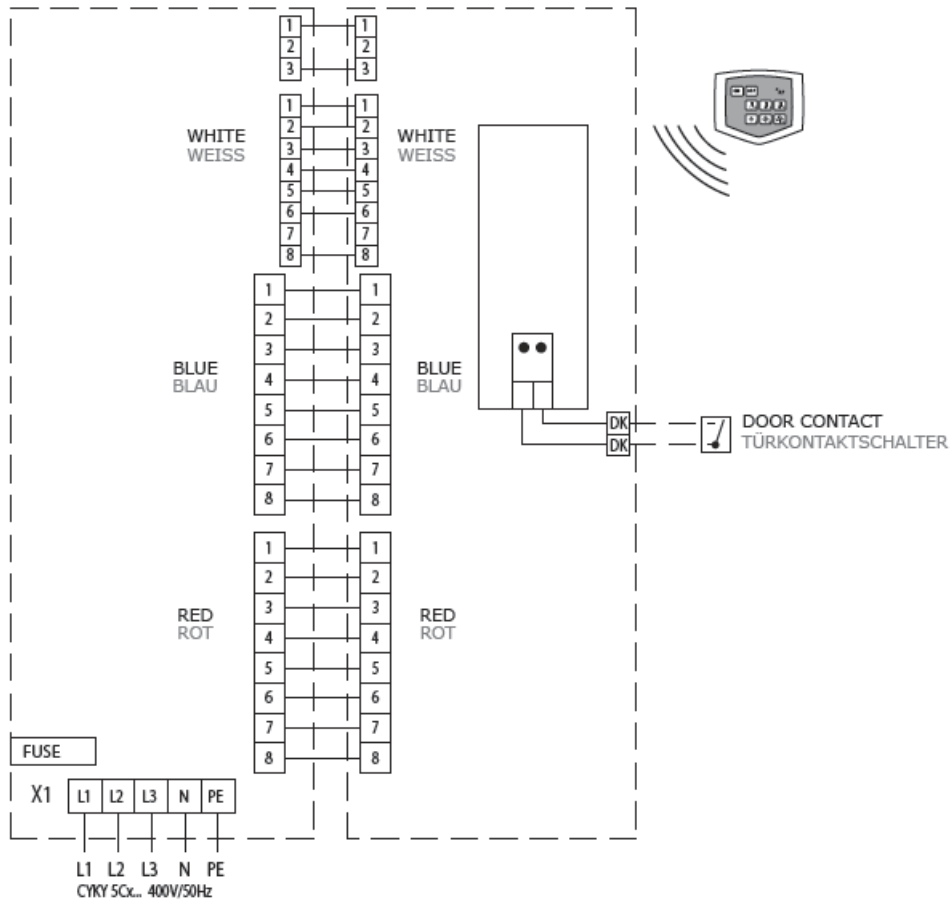
ELECTRICAL SCHEME



ELECTRICAL SCHEME

GRAND-40-E

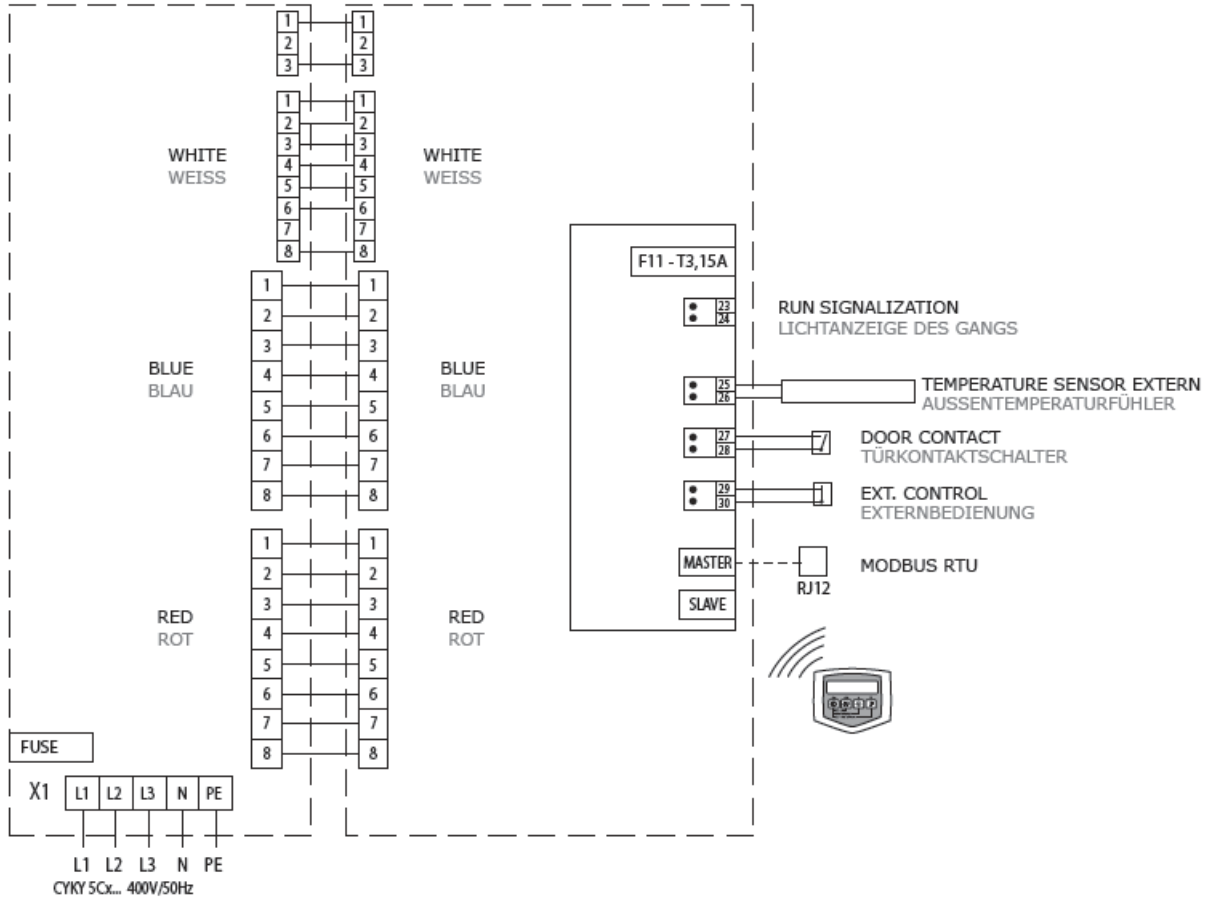
DM-E.



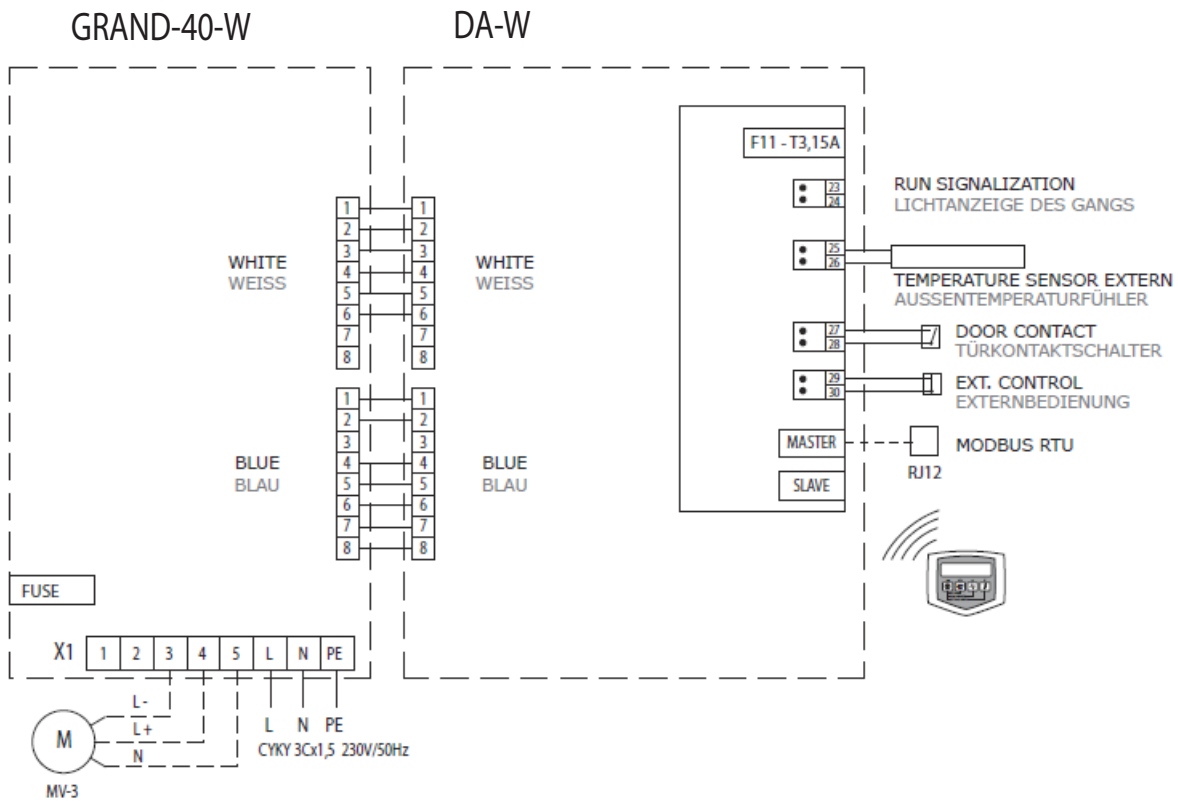
ELECTRICAL SCHEME

GRAND-40-E

DA-E.



ELECTRICAL SCHEME



ORDERING KEY

Air curtain type	<b>GRAND - 40 - 20 - E - 10</b>
Installation height	40 - 4,0 [m] 50 - 5,0 [m]
Curtain width	10 = 1 [m] 15 = 1,5 [m] 20 = 2 [m] 25 = 2,5 [m]
Heater type	N - no heater E - electric heater W - water heater
Power output	

**AIR CURTAIN GRAND CASSETTE**

Air curtains from Grand Cassette series are intended for ceiling installation.



No heater



Water heater



Electric heater

- Lengths: 1, 1.5, 2, 2.5 m
- **Airflow up to 6100m<sup>3</sup>/h**
- Universal connection for control module (SM, DM, DA)
- Simple installation
- Standard powdercoated RAL 9010 (all other colours available on request)

**TECHNICAL CHARACTERISTICS**
**Grand Cassette-40**

Type	Installation height [m]*	Air output [m <sup>3</sup> /h]			Sound pressure [dB(A)]**			Heater power output [kW]	Heater consumption [V/A]	Fan	Weight [kg]	Frekvencija [Hz]	Težina [kg]
		3 Speed	2 Speed	1 Speed	3 Speed	2 Speed	1 Speed						
40-10-E-10	4,0	2250	1540	1030	57,9	49,6	41,5	9,5	400/15,5	230/2,2	12,1	50	39,5
40-15-E-15		3230	2200	1430	60,2	52,1	42,6	15	400/25,2	230/3,3	13,5	50	54,5
40-20-E-19		4360	2920	1880	61,2	53,3	44,3	19	400/31,3	230/4,4	13,1	50	71,0
40-25-E-25		5300	3600	2380	62,8	54,5	45,3	24,5	400/41,1	230/5,4	13,8	50	85,0
40-10-W		2140	1450	960	57,5	49,6	41,2	24,77***	-	230/2,2	36,4	50	41,0
40-15-W		3100	2080	1370	59,6	51,6	42,3	38,77***	-	230/3,3	39,3	50	56,0
40-20-W		4280	2870	1800	61	53,3	44,1	52,61***	-	230/4,3	38,7	50	73,0
40-25-W		5140	3500	2310	62,5	54,4	45,3	62,29***	-	230/5,4	38,1	50	87,0
40-10-N		2270	1550	1040	58,3	50,3	42,3	-	-	230/2,2	-	50	37,5
40-15-N		3280	2240	1510	60,2	52,1	42,8	-	-	230/3,4	-	50	51,0
40-20-N		4400	3040	2100	61,5	53,7	44,6	-	-	230/4,2	-	50	66,0
40-25-N		5460	3670	2480	62,7	54,4	45,3	-	-	230/5,4	-	50	80,0

\* Limited distance when air flow speed decreases to app. 3 m/s.  
 \*\* Acoustic pressure measured at 3 and 5 m away from the device at maximum motor speed  
 \*\*\* Suction air temperature +18°C, at maximum heating level and highest fan speed.

**Grand Cassette-50**

Type	Installation height [m]*	Air output [m <sup>3</sup> /h]			Sound pressure [dB(A)]**			Heater power output [kW]	Heater consumption [V/A]	Fan consumption [V/A]	Weight [kg]	Težina [kg]	
		3 Speed	2 Speed	1 Speed	3 Speed	2 Speed	1 Speed						
50-10-E-10	5,0	2960	2090	1410	61,2	53,5	44,6	9,4	400/17,9	230/4,0	9,7	50	44,0
50-15-E-15		4080	2810	1880	62,7	55,2	46,0	15,0	400/27,2	230/5,2	10,7	50	60,0
50-20-E-19		5180	3660	2450	64,0	56,3	47,3	19,0	400/34,3	230/6,8	10,9	50	75,5
50-25-E-25		6020	4350	2910	65,8	58,2	49,1	24,5	400/42,8	230/7,9	11,7	50	90,0
50-10-W		2800	2020	1360	61,2	54,0	45,3	29,13***	-	230/3,8	32,7	50	45,5
50-15-W		3900	2810	1880	62,5	55,4	46,4	44,57***	-	230/5,2	36,0	50	61,0
50-20-W		5070	3700	2440	63,7	56,4	47,5	56,99***	-	230/6,5	35,4	50	77,0
50-25-W		5860	4230	2800	65,6	58,7	49,6	67,30***	-	230/7,6	36,1	50	91,5
50-10-W-6r		2530	1900	1250	61,6	55,6	47,1	13,47#	-	230/3,6	15,87#	50	51,5
50-15-W-6r		3500	2630	1770	62,6	56,8	48,0	19,03#	-	230/4,8	16,20#	50	70,5
50-20-W-6r		4670	3400	2670	63,7	57,4	48,7	25,71#	-	230/6,0	16,41#	50	89,0
50-25-W-6r		5260	3930	2580	65,2	59,4	50,8	29,81#-	-	230/7,1	16,89#	50	106
50-10-N		3020	2120	1460	61,9	54,2	45,2	-	-	230/3,9	-	50	42,0
50-15-N		4160	2830	1950	63,0	55,4	46,2	-	-	230/5,2	-	50	56,5
50-20-N		5270	3780	2500	64,2	56,5	47,4	-	-	230/6,7	-	50	71,0
50-25-N		6100	4440	3000	65,7	58,3	49,2	-	-	230/7,9	-	50	84,0

**Water exchanger parameters for water temperature gradient of 90/70 °C**

Type	Air flow [m³/h]	Heat output [kW]	Outlet temperature [°C]	Water flow [l/s]	Pressure loss [kPa]
40-10-W	2140	24,7	52,7	0,2	12,0
40-15-W	3100	38,7	55,5	0,4	29,1
40-20-W	4280	52,6	54,9	0,6	24,1
40-25-W	5140	62,2	54,4	0,7	17,8
50-10-W	2800	29,1	49,2	0,3	14,5
50-15-W	3900	44,5	52,3	0,5	35,1
50-20-W	5070	56,9	51,7	0,6	27,0
50-25-W	5860	62,2	54,4	0,7	17,8

**Water exchanger parameters for water temperature gradient of 80/60 °C**

Type	Air flow [m³/h]	Heat output [kW]	Outlet temperature [°C]	Water flow [l/s]	Pressure loss [kPa]
40-10-W	2140	20,2	46,4	0,2	8,8
40-15-W	3100	31,7	48,8	0,3	20,8
40-20-W	4280	43,1	48,3	0,5	17,7
40-25-W	5140	51,0	47,8	0,6	13,4
50-10-W	2800	23,8	43,6	0,2	10,9
50-15-W	3900	36,5	46,1	0,4	25,3
50-20-W	5070	46,7	45,6	0,5	19,8
50-25-W	5860	51,0	47,8	0,6	13,4

**Water exchanger parameters for water temperature gradient of 70/50 °C**

Type	Air flow [m³/h]	Heat output [kW]	Outlet temperature [°C]	Water flow [l/s]	Pressure loss [kPa]
40-10-W	2140	15,9	40,4	0,1	6,2
40-15-W	3100	25,0	42,3	0,3	14,2
40-20-W	4280	34,0	41,9	0,4	12,4
40-25-W	5140	40,2	41,5	0,4	9,7
50-10-W	2800	18,8	38,2	0,2	7,9
50-15-W	3900	28,8	40,2	0,3	17,2
50-20-W	5070	36,8	39,8	0,4	13,8
50-25-W	5860	40,2	41,5	0,4	9,7

**Water exchanger parameters for water temperature gradient of 60/40 °C**

Type	Air flow [m³/h]	Heat output [kW]	Outlet temperature [°C]	Water flow [l/s]	Pressure loss [kPa]
40-10-W	2140	11,8	34,6	0,1	4,1
40-15-W	3100	18,5	36,0	0,2	8,8
40-20-W	4280	25,5	35,7	0,3	8,1
40-25-W	5140	29,8	35,4	0,3	6,6
50-10-W	2800	13,9	32,9	0,1	5,4
50-15-W	3900	21,4	34,5	0,2	10,8
50-20-W	5070	27,2	34,1	0,3	8,9
50-25-W	5860	29,8	35,4	0,3	6,6

**Water exchanger parameters for water temperature gradient of 40/30 °C**

Type	Air flow [m³/h]	Heat output [kW]	Outlet temperature [°C]	Water flow [l/s]	Pressure loss [kPa]
50-10-W	2530	13,47	34,0	0,2	13,2
50-15-W	3500	19,03	34,3	0,4	14,1
50-20-W	4670	25,71	34,5	0,5	13,3
50-25-W	5260	29,81	35,0	0,6	16,3

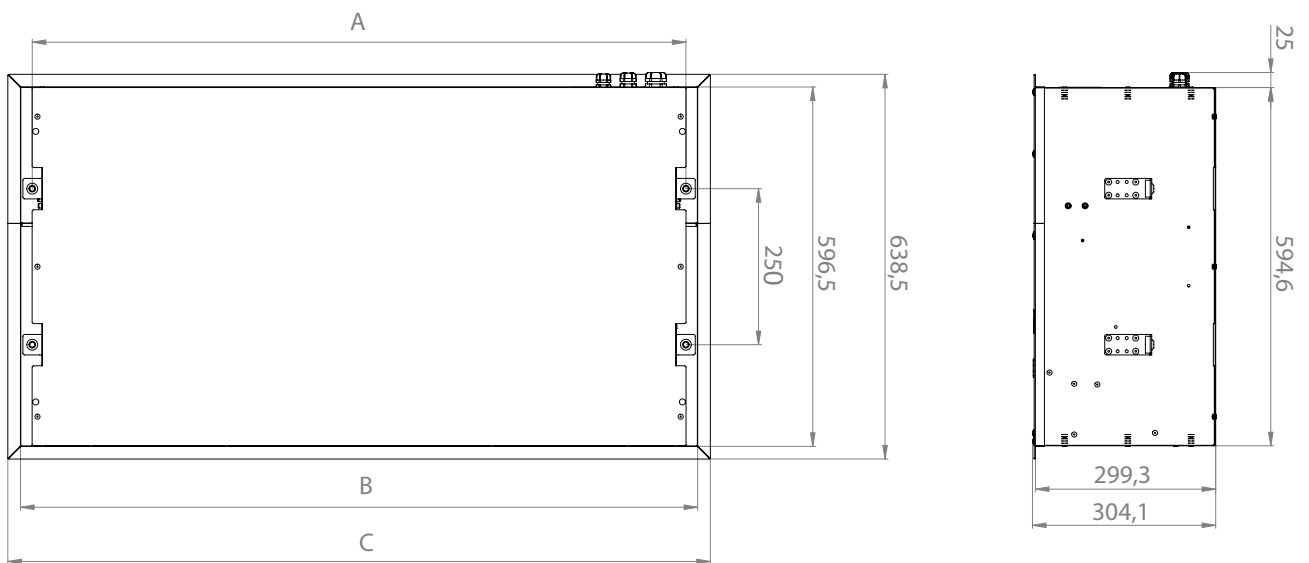
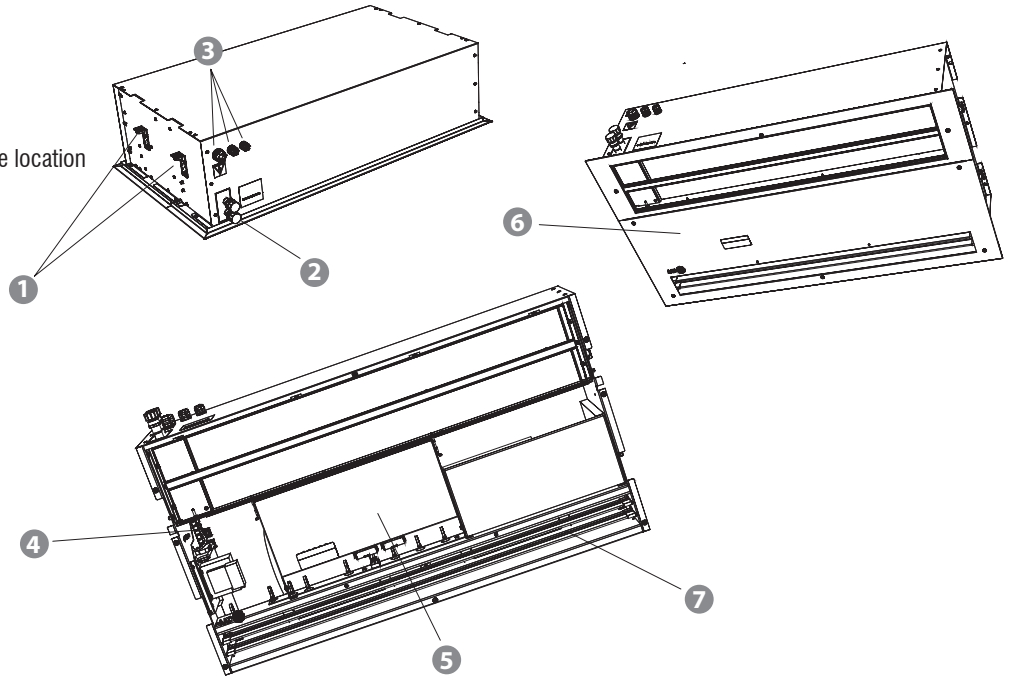
**Water exchanger parameters for water temperature gradient of 35/25 °C**

Type	Air flow [m³/h]	Heat output [kW]	Outlet temperature [°C]	Water flow [l/s]	Pressure loss [kPa]
50-10-W	2530	9,4	29,2	0,2	8,6
50-15-W	3500	13,3	29,4	0,3	8,2
50-20-W	4670	18,0	29,6	0,3	8,4
50-25-W	5260	21,0	30,0	0,4	9,4

\* Temperature of intake air: +18 °C

**DIMENSIONS**

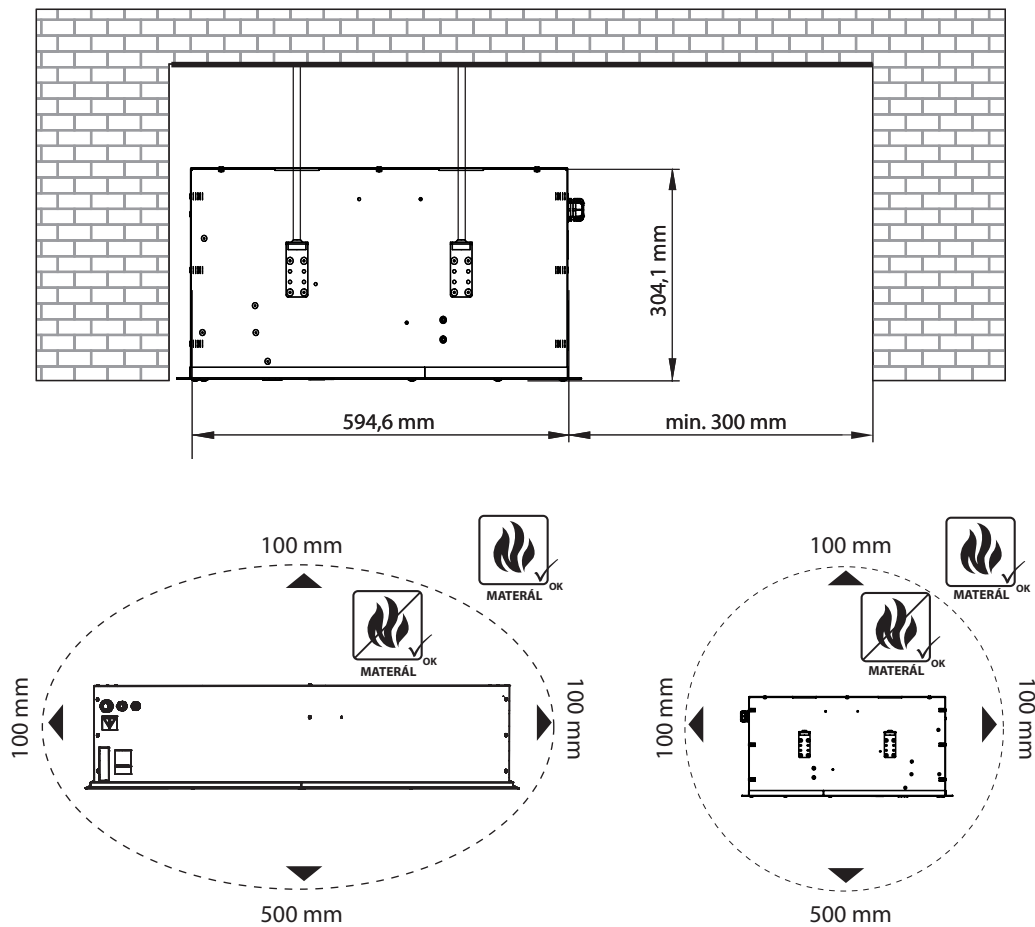
- ① Suspension holders
- ② Water coil connection  $\frac{3}{4}$ "
- ③ Power supply cable plug
- ④ Power supply connectors and fusse location
- ⑤ Control modul socket
- ⑥ Inlet face cover
- ⑦ Outlet grid





**INSTALLATION**

- The air curtain must be installed only in a horizontal position!
- The curtain can be installed over the door opening. All separation distances for flammable materials and safe use of air curtain has to be kept.
- The installed position of the air curtain can be chosen to accommodate the service hood.
- It must be operated in dry, covered indoor spaces with an ambient temperature between +5° C and +40° C and relative humidity up to 80%
- The air curtain is not intended for moving air that contains combustible or explosive mixtures, chemical fumes, coarse dust, soot, grease, poisons, infectious germs, etc.



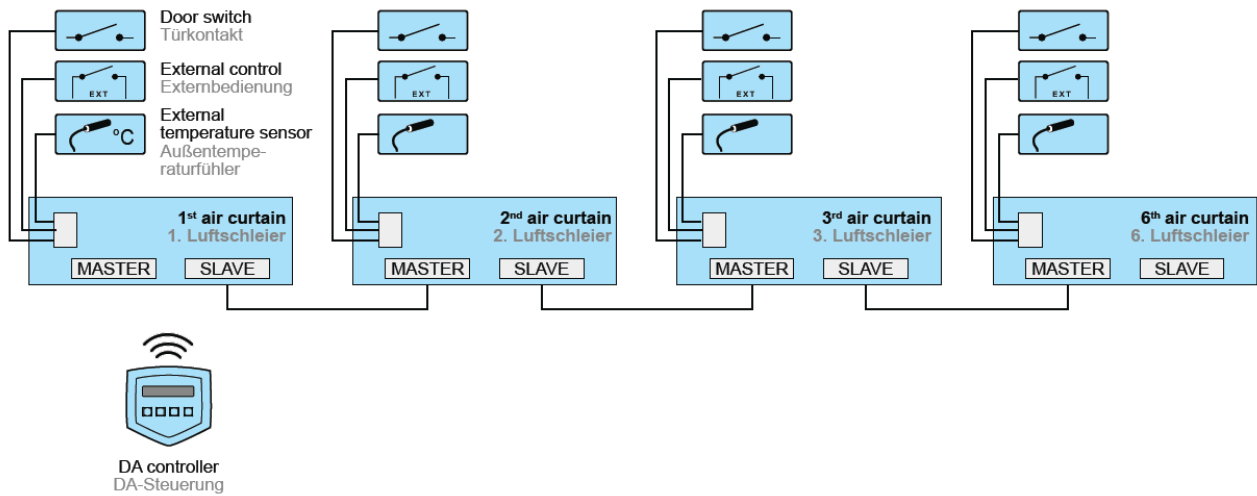
**CONTROL**

**SM**
**DM**
**DA**

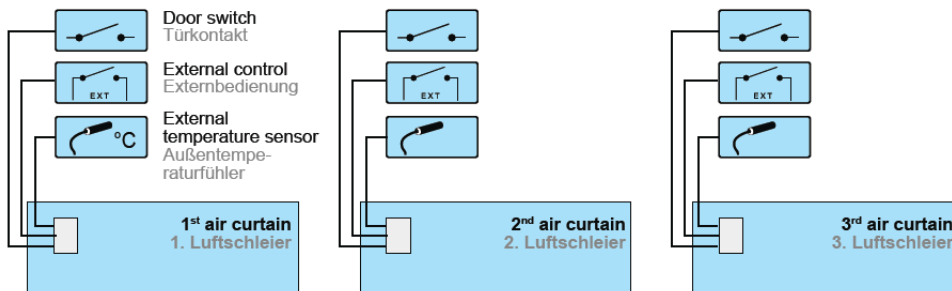
	<b>SM</b>	<b>DM</b>	<b>DA</b>
Type of controller	Manual	Manual	Manual / Automatic
Regulation of air output	3 speeds	3 speeds	3 speeds
Regulation of electric heater	2 levels	2 levels	3 levels / Continuous
Regulation of water heater	Thermostatic valve	Zone valve (ON/OFF – redirection)	Mixing valve
Possibility of connecting a door contact	YES	YES	YES
Temperature measurement	NO	YES (room thermostat)	YES (2 internal sensors, 1 external sensor)
External control	NO	NO	YES (Internal – Day/Week)
External temperature sensor	NO	NO	YES
Air curtain cleaning interval indication based on operating hours	NO	NO	YES
Fan behavior with door switch	NO	NO	YES
Aftercooling electric heater	NO	30 s	30 s
Chaining air curtains	NO	YES	YES
Light indication of selected function	NO	YES	YES
Controller connection to air curtain	Power cable (230 V) with max. length of 100 m	Radio signal (range in open space 100 m)	Radio signal (range in open space 100 m)
Radio signal indication	NO	LED/ BEEP sound	LED/ BEEP sound

**CONTROL**

One external switching element can be connected to air curtains with the SM and DM control module (door contact). Such external switching element activates and deactivates complete air curtain. Air curtains fitted with the DA control module has outdoor temperature sensor connected and allows to connect two external switching elements (door switch, external switch). Air curtain with the DA control regulates the fan speed and output of heater depending on the outdoor temperature and room temperature. DA control module has integrated timer controlled from control panel. Detailed description of the air curtain with DA control module and its function in the automatic mode is available in the instruction manual for DA control module.



(for DM only door switch)  
bei DM nur Türkontakt

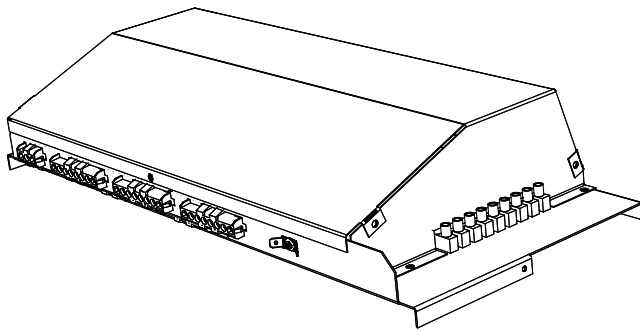


**ACCESSORIES**

**CONTROL MODULE (required accessories)**

A control module is an required accessorie for STANDESSE air curtain and shall be ordered for each air curtain. Control panel is included in delivery of control module. External temperature sensor is included in delivery with DA control module. The ordering key for control modules is provided below.

Control panels of DM and DA control modules use radio signal communication. If Modbus RTU is used the connection of DA control module with BMS is made by straight communication cable with RJ12 connector. Communication cable has to be ordered separatelly as an optional accessorie.



**CONTROLLER OREDERING KEY**

Air curtain type	<b>GRAND - DA - E</b>
Grand	
Grand Cassette	
Controller type	
<b>DA</b> - digital automatic control	
<b>DM</b> - digital manual control	
<b>SM</b> - simple manual control	
Heater type	
<b>S</b> - without heating regulation (only SM and DM)	
<b>E</b> - with electric heater regulation	
<b>V</b> - with water heater regulation	

**Other accessories**

Image	Description	Code	Comaptible with
	Thermostatic valve	QL-540	All models
	Zone valve drive	QL-566	All models
	End switch	QL-580	All models
	Magnetic switch	QL-572	All models
	Room thermostat	QL-526	All models
	3-way valve	QL-548	All models
	Flexible couplings	QL-554	All models

**ELECTRICAL SCHEME**

All electrical schemes are identical as for model GRAND. (pg. 9)

**ORDERING KEY**

Air curtain type	<b>GRAND CASSETTE</b>	<b>- 40</b>	<b>- 20</b>	<b>- E</b>	<b>- 10</b>
Installation height	40 - 4,0 [m]				
	50 - 5,0 [m]				
Air curtain width	10 = 1 [m]				
	15 = 1,5 [m]				
	20 = 2 [m]				
	25 = 2,5 [m]				
Heater type	N - no heater				
	E - electric heater				
	W - water heater				
Heater output power					