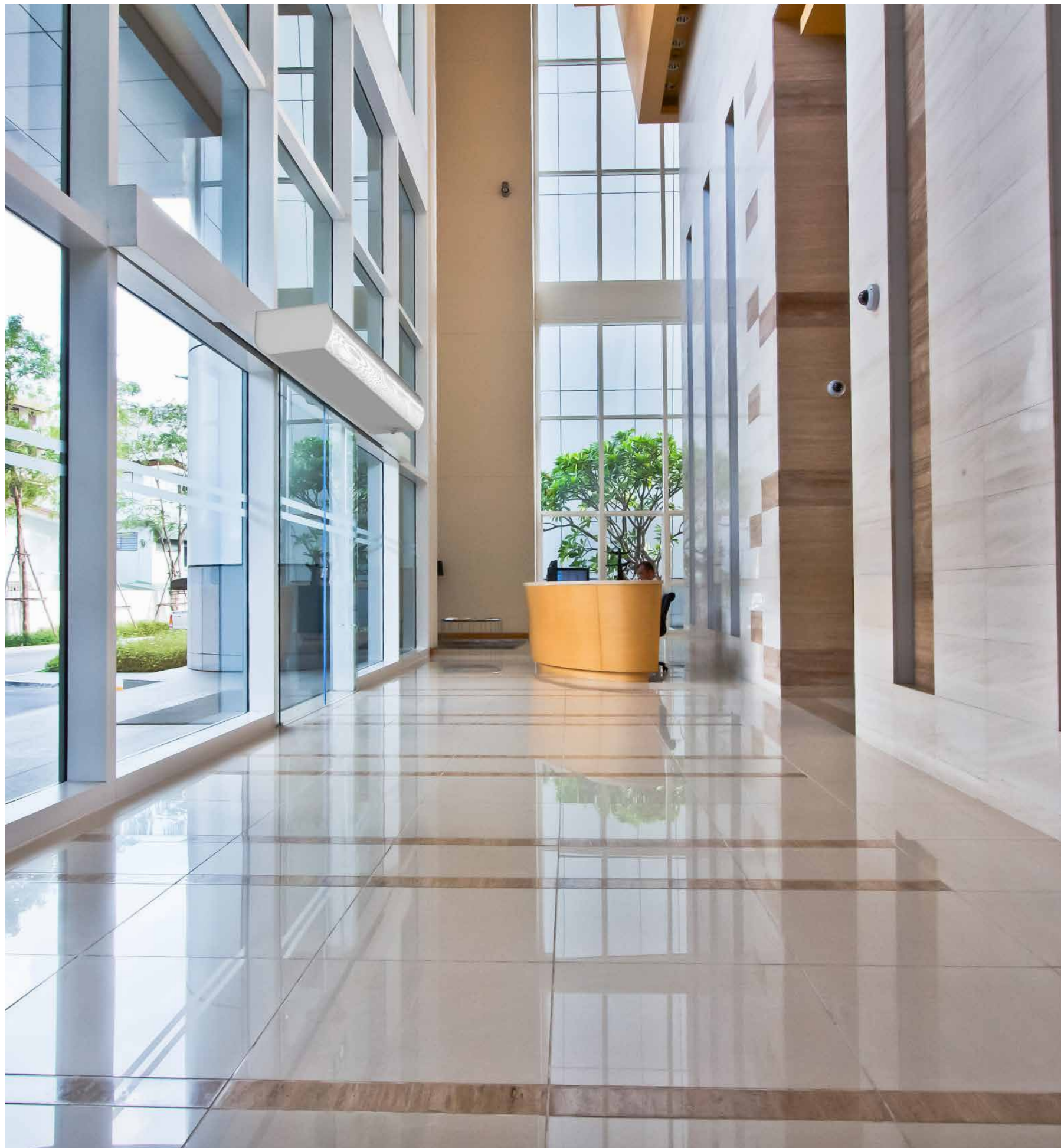




Product manual

Air curtains

GRAND-EC

Air distribution

Version 1.0.1
Date: 08.01.2026

GRAND-EC

- Lengths: 1; 1.5; 2 and 2.5 m
- **Air flow up to 5090 m³/h** (ISO 27 327-1)
- Very low noise level
- FACE ^{2 in 1} – suction grille + filter = 2 in 1
- Universal interface for AirGENIO control module connection (BA, CO, SU)
- Easy installation and service
- Standard colour RAL 9016 (any RAL – based colours may be provided on customer's request)

The **GRAND-EC** is an extraordinary high-performance and visually attractive comfortable air curtain for use in representative premises, such as **banks, luxury shops, shopping centres, airports and administrative buildings** with a recommended installation height up to 5 m. The air curtain shall be installed indoor in a dry area with ambient temperatures ranging from 0 °C up to +35 °C and relative humidity of up to 80 %. It is designed for conveying air free of rough dust, grease, chemical fumes, and other impurities. IP rating of the air curtain is IP 20. **The air curtain project shall always be developed by the HVAC designer.**



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PRODUCT OVERVIEW

- ✕ air-only
- ≡ water heater
- ⚡ electric wire heater

PRIMARY PARAMETERS

Air curtains with electric heater are fitted with automatic heat thermostat and emergency thermostat with manual reset. Air curtains with LPHW coil are designed for the maximum operating water temperature of +100 °C and maximum operating pressure of 1.6 MPa.

Type	Recommended installation height [m]	Air output [m3/h] *1				
		100%	80%	60%	40%	20%
GRAND-40-10-N-EC	4,0	1900	1750	1600	1350	950
GRAND-40-15-N-EC		2800	2650	2380	2000	1450
GRAND-40-20-N-EC		3800	3570	3200	2750	1950
GRAND-40-25-N-EC		4700	4470	4000	3400	2400
GRAND-40-10-E10-EC		1900	1750	1600	1350	950
GRAND-40-15-E15-EC		2800	2650	2380	2000	1450
GRAND-40-20-E19-EC		3800	3570	3200	2750	1950
GRAND-40-25-E25-EC		4700	4470	4000	3400	2400
GRAND-40-10-2W-EC		1850	1700	1550	1300	900
GRAND-40-15-2W-EC		2700	2500	2270	1920	1400
GRAND-40-20-2W-EC		3700	3470	3140	2650	1900
GRAND-40-25-2W-EC		4500	4200	3800	3200	2330
GRAND-50-10-N-EC	5,0	2550	2400	2150	1800	1270
GRAND-50-15-N-EC		3650	3400	3100	2600	1850
GRAND-50-20-N-EC		4650	4350	3900	3300	2400
GRAND-50-25-N-EC		6400	6000	5350	4500	3150
GRAND-50-10-E10-EC		2550	2400	2150	1800	1270
GRAND-50-15-E15-EC		3650	3400	3100	2600	1850
GRAND-50-20-E19-EC		4650	4350	3900	3300	2400
GRAND-50-25-E25-EC		6400	6000	5350	4500	3150
GRAND-50-10-2W-EC		2450	2300	2050	1750	1200
GRAND-50-15-2W-EC		3500	3250	2900	2400	1800
GRAND-50-20-2W-EC		4550	4150	3700	3150	2250
GRAND-50-25-2W-EC		5900	5500	4950	4200	2850
GRAND-50-15-3W-EC		3450	3200	2900	2400	1750
GRAND-50-20-3W-EC		4450	4100	3650	3100	2200
GRAND-50-25-3W-EC		5860	5450	4900	4150	2800

*1 Airflow volume according ISO27327-1
*2 Acoustic pressure values at 3 m distance for maximum speed.
Directional factor: Q=2.
*3 Sound power (LWA) measurements according to ISO 27327-2.

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PRODUCT OVERVIEW

Type	Sound power [dB(A)]*1					Acoustic pressure at 3 m [dB(A)]*2				
	Fan speed									
	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%
GRAND-40-10-N-EC	75	73	71	68	64	53	52	50	47	42
GRAND-40-15-N-EC	76	74	72	69	60	54	53	50	47	38
GRAND-40-20-N-EC	78	76	74	70	62	56	55	52	48	40
GRAND-40-25-N-EC	80	78	75	72	63	58	56	53	50	41
GRAND-40-10-E10-EC	75	73	71	68	64	53	52	50	47	42
GRAND-40-15-E15-EC	76	74	72	69	60	54	53	50	47	38
GRAND-40-20-E19-EC	78	76	74	70	62	56	55	52	48	40
GRAND-40-25-E25-EC	80	78	75	72	63	58	56	53	50	41
GRAND-40-10-2W-EC	74	73	71	68	63	53	51	50	47	42
GRAND-40-15-2W-EC	76	74	73	69	60	55	53	51	47	38
GRAND-40-20-2W-EC	77	76	73	70	61	56	54	52	48	40
GRAND-40-25-2W-EC	79	77	75	71	62	57	55	53	49	40
GRAND-50-10-N-EC	77	75	73	69	61	56	54	51	47	39
GRAND-50-15-N-EC	78	77	76	71	65	57	55	54	50	43
GRAND-50-20-N-EC	80	78	76	73	68	58	57	54	51	46
GRAND-50-25-N-EC	81	79	77	73	64	59	57	55	51	42
GRAND-50-10-E10-EC	77	75	73	69	61	56	54	51	47	39
GRAND-50-15-E15-EC	78	77	76	71	65	57	55	54	50	43
GRAND-50-20-E19-EC	80	78	76	73	68	58	57	54	51	46
GRAND-50-25-E25-EC	81	79	77	73	64	59	57	55	51	42
GRAND-50-10-2W-EC	78	77	76	75	63	57	56	55	53	42
GRAND-50-15-2W-EC	78	77	75	72	65	57	56	54	51	43
GRAND-50-20-2W-EC	79	77	76	73	67	58	56	54	51	46
GRAND-50-25-2W-EC	80	78	76	72	64	58	56	54	50	42
GRAND-50-15-3W-EC	78	77	75	72	65	57	56	54	51	43
GRAND-50-20-3W-EC	79	77	76	73	67	58	56	54	51	46
GRAND-50-25-3W-EC	80	78	76	72	64	58	56	54	50	42

*1 Sound power (LWA) measurements according to ISO 27327-2.
*2 Acoustic pressure values at 3 m distance for maximum speed. Directional factor: Q=2.

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Type	Heater power output [kW]		Total power input [kW]	Total voltage/ current [V/A]	Motors voltage/ current [V/A]	Temperature increase Δt [°C]	Frequency [Hz]	Weight [kg] *
	1st level	2st level						
GRAND-40-10-N-EC	-	-	0,34	230/2,4	230/2,4	-	50/60	38
GRAND-40-15-N-EC	-	-	0,5	230/3,4	230/3,4	-	50/60	53
GRAND-40-20-N-EC	-	-	0,68	230/4,4	230/4,4	-	50/60	68
GRAND-40-25-N-EC	-	-	0,85	230/5,4	230/5,4	-	50/60	83
GRAND-40-10-E10-EC	4,6	9,4	9,74	400/16	230/2,4	14,7	50/60	42
GRAND-40-15-E15-EC	7,6	15	15,5	400/25,1	230/3,4	16	50/60	57
GRAND-40-20-E19-EC	9,8	19	19,68	400/31,9	230/4,4	14,9	50/60	73
GRAND-40-25-E25-EC	12,5	24,5	25,35	400/40,8	230/5,4	15,5	50/60	89
GRAND-40-10-2W-EC	-	-	0,34	230/2,4	230/2,4	6,1 ^{*2}	50/60	44
GRAND-40-15-2W-EC	-	-	0,5	230/3,4	230/3,4	17,1 ^{*2}	50/60	59
GRAND-40-20-2W-EC	-	-	0,68	230/4,4	230/4,4	31,4 ^{*2}	50/60	75
GRAND-40-25-2W-EC	-	-	0,85	230/5,4	230/5,4	43 ^{*2}	50/60	87
GRAND-50-10-N-EC	-	-	0,50	230/3,3	230/3,3	-	50/60	42
GRAND-50-15-N-EC	-	-	0,68	230/4,5	230/4,5	-	50/60	57
GRAND-50-20-N-EC	-	-	0,84	230/5,3	230/5,3	-	50/60	71
GRAND-50-25-N-EC	-	-	1,20	230/7,2	230/7,2	-	50/60	89
GRAND-50-10-E10-EC	4,6	9,4	9,9	400/16,9	230/3,3	11,6	50/60	47
GRAND-50-15-E15-EC	7,6	15	15,68	400/21,2	230/4,5	12,3	50/60	61
GRAND-50-20-E19-EC	9,8	19	19,84	400/32,8	230/5,3	10	50/60	77
GRAND-50-25-E25-EC	12,5	24,5	25,7	400/42,6	230/7,2	11,4	50/60	101
GRAND-50-10-2W-EC	-	-	0,50	230/3,3	230/3,3	34,5	50/60	49
GRAND-50-15-2W-EC	-	-	0,68	230/4,5	230/4,5	34,7	50/60	63
GRAND-50-20-2W-EC	-	-	0,84	230/5,3	230/5,3	36,7	50/60	79
GRAND-50-25-2W-EC	-	-	1,20	230/7,2	230/7,2	36,1	50/60	99
GRAND-50-15-3W-EC	-	-	0,68	230/4,5	230/4,5	13,1 ^{*3}	50/60	67
GRAND-50-20-3W-EC	-	-	0,84	230/5,3	230/5,3	13,1 ^{*3}	50/60	83
GRAND-50-25-3W-EC	-	-	1,20	230/7,2	230/8,7	13 ^{*3}	50/60	103

* At the maximum air flow and maximum heater power
*2 Intake air temperature +18°C, water temperature gradient of 90/70 °C and highest fan speed.
*3 Intake air temperature +18°C, water temperature gradient of 40/30 °C and highest fan speed.
*4 Weight without controls.

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PRODUCT OVERVIEW

LPHW coil parameters for water temperature gradient 90 / 70 °C

Type	Air output	Heat output	Temperature at exhaust	Pressure loss	Water flow
	[m³/h]	[kW]	[°C]	[kPa]	[l/s]
GRAND-40-10-2W-EC	1850	24,1	56,6	8,2	0,30
GRAND-40-15-2W-EC	2700	35,1	56,5	5,5	0,43
GRAND-40-20-2W-EC	3700	49,4	57,6	11,6	0,61
GRAND-40-25-2W-EC	4500	61	58,1	18,4	0,75
GRAND-50-10-2W-EC	2450	28,5	52,5	11,3	0,35
GRAND-50-15-2W-EC	3500	41,0	52,7	7,5	0,51
GRAND-50-20-2W-EC	4450	55,8	54,7	14,6	0,69
GRAND-50-25-2W-EC	5900	72,0	54,1	25,3	0,89

* Temperature of intake air: +18 °C

LPHW coil parameters for water temperature gradient 80 / 60 °C

Type	Air output	Heat output	Temperature at exhaust	Pressure loss	Water flow
	[m³/h]	[kW]	[°C]	[kPa]	[l/s]
GRAND-40-10-2W-EC	1850	19,7	49,5	5,7	0,24
GRAND-40-15-2W-EC	2700	28,5	49,2	3,8	0,35
GRAND-40-20-2W-EC	3700	40,5	50,4	8,1	0,50
GRAND-40-25-2W-EC	4500	50,2	51,0	12,9	0,62
GRAND-50-10-2W-EC	2450	23,3	46,1	7,8	0,29
GRAND-50-15-2W-EC	3500	33,2	46,1	5,0	0,41
GRAND-50-20-2W-EC	4450	45,6	48,0	10,1	0,56
GRAND-50-25-2W-EC	5900	59,1	47,7	17,6	0,73

* Temperature of intake air: +18 °C

LPHW coil parameters for water temperature gradient 70 / 50 °C

Type	Air output	Heat output	Temperature at exhaust	Pressure loss	Water flow
	[m³/h]	[kW]	[°C]	[kPa]	[l/s]
GRAND-40-10-2W-EC	1850	15,3	42,4	3,6	0,19
GRAND-40-15-2W-EC	2700	21,8	41,9	2,3	0,27
GRAND-40-20-2W-EC	3700	31,5	43,2	5,1	0,38
GRAND-40-25-2W-EC	4500	39,3	43,9	8,2	0,48
GRAND-50-10-2W-EC	2450	18,0	39,7	4,9	0,22
GRAND-50-15-2W-EC	3500	25,4	39,5	3,1	0,31
GRAND-50-20-2W-EC	4450	35,3	41,3	6,3	0,43
GRAND-50-25-2W-EC	5900	46,1	41,2	11,1	0,56

* Temperature of intake air: +18 °C

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PRODUCT OVERVIEW

LPHW coil parameters for water temperature gradient 60 / 40 °C

Type	Air output	Heat output	Temperature at exhaust	Pressure loss	Water flow
	[m³/h]	[kW]	[°C]	[kPa]	[l/s]
GRAND-40-10-2W-EC	1850	10,8	35,2	1,9	0,13
GRAND-40-15-2W-EC	2700	15,1	34,5	1,2	0,18
GRAND-40-20-2W-EC	3700	22,3	35,9	2,7	0,27
GRAND-40-25-2W-EC	4500	28,2	36,6	4,5	0,34
GRAND-50-10-2W-EC	2450	12,6	33,2	2,6	0,15
GRAND-50-15-2W-EC	3500	17,4	32,7	1,5	0,21
GRAND-50-20-2W-EC	4450	25,0	34,4	3,3	0,30
GRAND-50-25-2W-EC	5900	32,9	34,5	6,0	0,40

* Temperature of intake air: +18 °C

LPHW coil parameters for water temperature gradient 50 / 30 °C

Type	Air output	Heat output	Temperature at exhaust	Pressure loss	Water flow
	[m³/h]	[kW]	[°C]	[kPa]	[l/s]
GRAND-50-15-3W-EC	3450	17,7	33,1	7,5	0,21
GRAND-50-20-3W-EC	4450	23,1	33,3	6,8	0,28
GRAND-50-25-3W-EC	5850	30,6	33,4	12,8	0,40

* Temperature of intake air: +18 °C

LPHW coil parameters for water temperature gradient 40 / 30 °C

Type	Air output	Heat output	Temperature at exhaust	Pressure loss	Water flow
	[m³/h]	[kW]	[°C]	[kPa]	[l/s]
GRAND-50-15-3W-EC	3450	14,7	30,6	18,9	0,35
GRAND-50-20-3W-EC	4450	19,2	30,7	17,2	0,46
GRAND-50-25-3W-EC	5850	25,2	30,7	31,7	0,61

* Temperature of intake air: +18 °C

LPHW coil parameters for water temperature gradient 35 / 25 °C

Type	Air output	Heat output	Temperature at exhaust	Pressure loss	Water flow
	[m³/h]	[kW]	[°C]	[kPa]	[l/s]
GRAND-50-15-3W-EC	3450	9,6	26,2	9,1	0,23
GRAND-50-20-3W-EC	4450	12,6	26,3	8,2	0,30
GRAND-50-25-3W-EC	5850	16,7	26,4	15,5	0,40

* Temperature of intake air: +18 °C

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PRODUCT OVERVIEW

Recommended mixing points for LPHW coil
3-way valve

Type	Control module	90/70 °C	80/60 °C	70/50 °C	60/40 °C
		3-way valve			
GRAND-40-10-3W-EC	BASIC	ZV3-230-04,0-20	ZV3-230-04,0-20	ZV3-230-04,0-20	ZV3-230-04,0-20
		RT-3-07	RT-3-07	RT-3-07	RT-3-07
	COMFORT	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20
	SUPERIOR	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20
GRAND-40-15-3W-EC	BASIC	ZV3-230-04,0-20	ZV3-230-04,0-20	ZV3-230-04,0-20	ZV3-230-04,0-20
		RT-3-07	RT-3-07	RT-3-07	RT-3-07
	COMFORT	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20
	SUPERIOR	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20
GRAND-40-20-3W-EC	BASIC	ZV3-230-21,0-20	ZV3-230-21,0-20	ZV3-230-21,0-20	ZV3-230-21,0-20
		RT-3-07	RT-3-07	RT-3-07	RT-3-07
	COMFORT	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20
	SUPERIOR	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20
GRAND-40-25-3W-EC	BASIC	ZV3-230-21,0-20	ZV3-230-21,0-20	ZV3-230-21,0-20	ZV3-230-21,0-20
		RT-3-07	RT-3-07	RT-3-07	RT-3-07
	COMFORT	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20
	SUPERIOR	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20
GRAND-50-10-3W-EC	BASIC	ZV3-230-04,0-20	ZV3-230-04,0-20	ZV3-230-04,0-20	ZV3-230-04,0-20
		RT-3-07	RT-3-07	RT-3-07	RT-3-07
	COMFORT	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20
	SUPERIOR	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20
GRAND-50-15-3W-EC	BASIC	ZV3-230-04,0-20	ZV3-230-04,0-20	ZV3-230-04,0-20	ZV3-230-04,0-20
		RT-3-07	RT-3-07	RT-3-07	RT-3-07
	COMFORT	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20
	SUPERIOR	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20
GRAND-50-20-3W-EC	BASIC	ZV3-230-21,0-20	ZV3-230-21,0-20	ZV3-230-21,0-20	ZV3-230-21,0-20
		RT-3-07	RT-3-07	RT-3-07	RT-3-07
	COMFORT	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20
	SUPERIOR	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20
GRAND-50-25-3W-EC	BASIC	ZV3-230-21,0-20	ZV3-230-21,0-20	ZV3-230-21,0-20	ZV3-230-21,0-20
		RT-3-07	RT-3-07	RT-3-07	RT-3-07
	COMFORT	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20
	SUPERIOR	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20

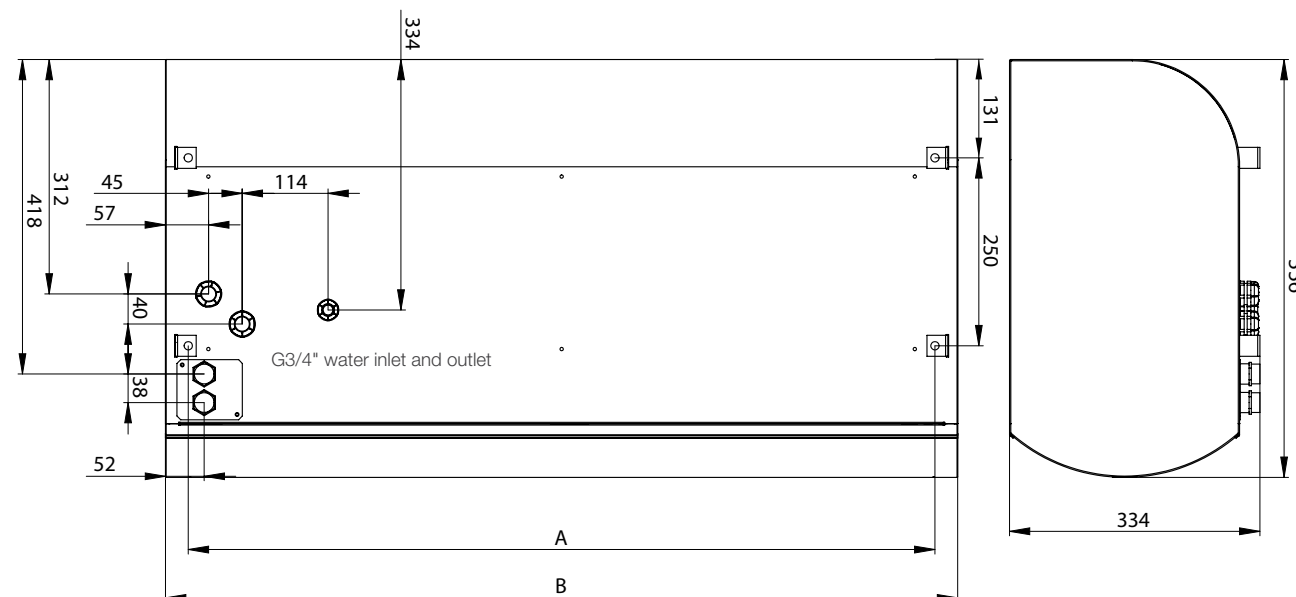
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Recommended mixing points for LPHW coil
2-way valve

Type	Control module	90/70 °C	80/60 °C	70/50 °C	60/40 °C
		2-way valve			
GRAND-40-10-2W-EC	BASIC	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20
	COMFORT	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20
	SUPERIOR	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20
GRAND-40-15-2W-EC	BASIC	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20
	COMFORT	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20
	SUPERIOR	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20
GRAND-40-20-2W-EC	BASIC	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20
	COMFORT	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20
	SUPERIOR	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20
GRAND-40-25-2W-EC	BASIC	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20
	COMFORT	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20
	SUPERIOR	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20
GRAND-50-10-2W-EC	BASIC	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20
	COMFORT	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20
	SUPERIOR	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20
GRAND-50-15-2W-EC	BASIC	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20
	COMFORT	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20
	SUPERIOR	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20
GRAND-50-20-2W-EC	BASIC	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20
	COMFORT	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20
	SUPERIOR	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20
GRAND-50-25-2W-EC	BASIC	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20
	COMFORT	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20
	SUPERIOR	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20

DIMENSIONS



Type	Spacing of installation holes A [mm]	Width B [mm]
GRAND-50-10	994	1054
GRAND-50-15	1494	1554
GRAND-50-20	1994	2054
GRAND-50-25	2394	2454

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ORDERING KEY

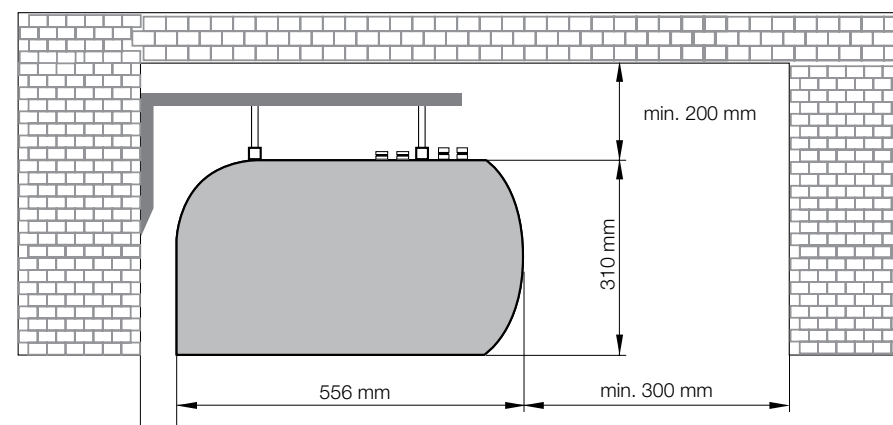
AIR CURTAINS

ORDERING KEY

(1) Air curtain		(2) Installation height		(3) Width [mm]		(4) Heating		(5) Control	(6) Slave/Master		(7) Motor
Grand		-	40	-	10	-	W				
(1) Air curtain: Grand				(4) N – without heating regulation E – with electric heater regulation 2W – 2 row water heater regulation 3W – 3 row water heater regulation				SU	-	MA	- EC
(2) Recommended installation height: 40 - 4m installation height 50 - 5m installation height								(5) BA – Basic control (mechanical) CO – Comfort control (touch screen) SU – Superior control (touch screen)			
(3) 10 – 1000mm Width 15 – 1500mm Width 20 – 2000mm Width 25 – 2500mm Width								(6) SL – SLAVE (only for CO, SU) MA – MASTER (only for CO, SU)			
								(7) EC – EC motor			

INSTALLATION AND ASSEMBLY

- 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.



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INSTALLATION

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CONTROL

CONTROL

The **GRAND-EC** air curtains are produced with universal interface for control module connection. There are three types of control modules available (BA, CO and SU). Control module is a required accessory for each air curtain. Additional change of control system is available. Control module is connected with air curtain by quick connection sockets. The basic differences among individual control module types are given in table underneath.

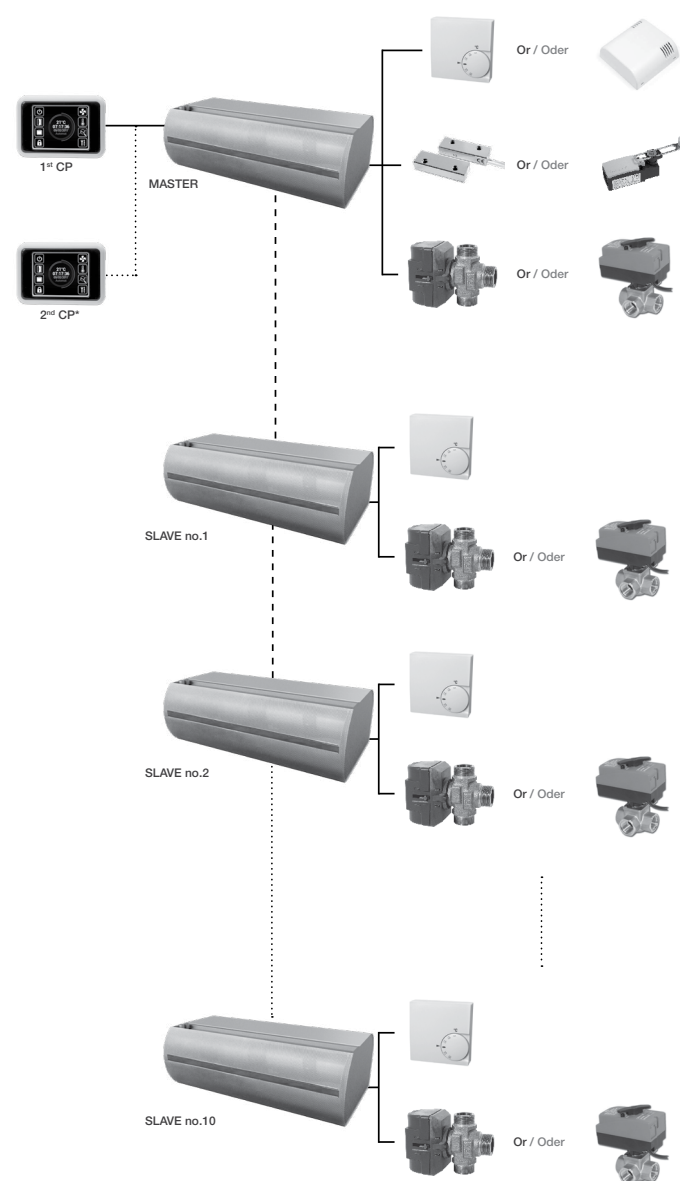
		  		
Control		BASIC	COMFORT	SUPERIOR
	Type of controller	Manual	Touch screen	Touch screen
	Mode	Manual	Manual / Auto	Manual / Auto
	Control of air output	3 speeds	3 speeds	3 speeds (AC)
	Control of electric heater	OFF / Level1 / Level2	OFF / Level1 / Level2	YES (PWM)
	Control of water heater	ON/OFF	ON/OFF	0-10V
	Antifreeze protection of LPHW	NO	YES	YES
	Possibility of connecting a door contact	YES (230V)	YES (12V)	YES (12V)
	External control	NO	YES	YES
	Temperature measurement	NO	YES (NTC)*	YES (NTC)*
	Chaining air curtains	NO	YES – max 10+1 pcs	YES – max 10+1 pcs
	Indication of selected function	YES	YES (Display)	YES (Display)
	Controller connection to air curtain	Power wire	Communication cable (UTP)	Communication cable (UTP)
	Self learning mode Selbstlernmodus	NO NEIN	NO NEIN	YES JA
	BMS connection	NO	Modbus RTU	Modbus RTU, Modbus TCP, BACnet
	Error contact	NO	YES	YES
	2 nd control panel ready	NO	YES	YES

* Temperature sensor included in standard. Temperature shown on display.

CHAINING EXAMPLE

COMFORT / SUPERIOR

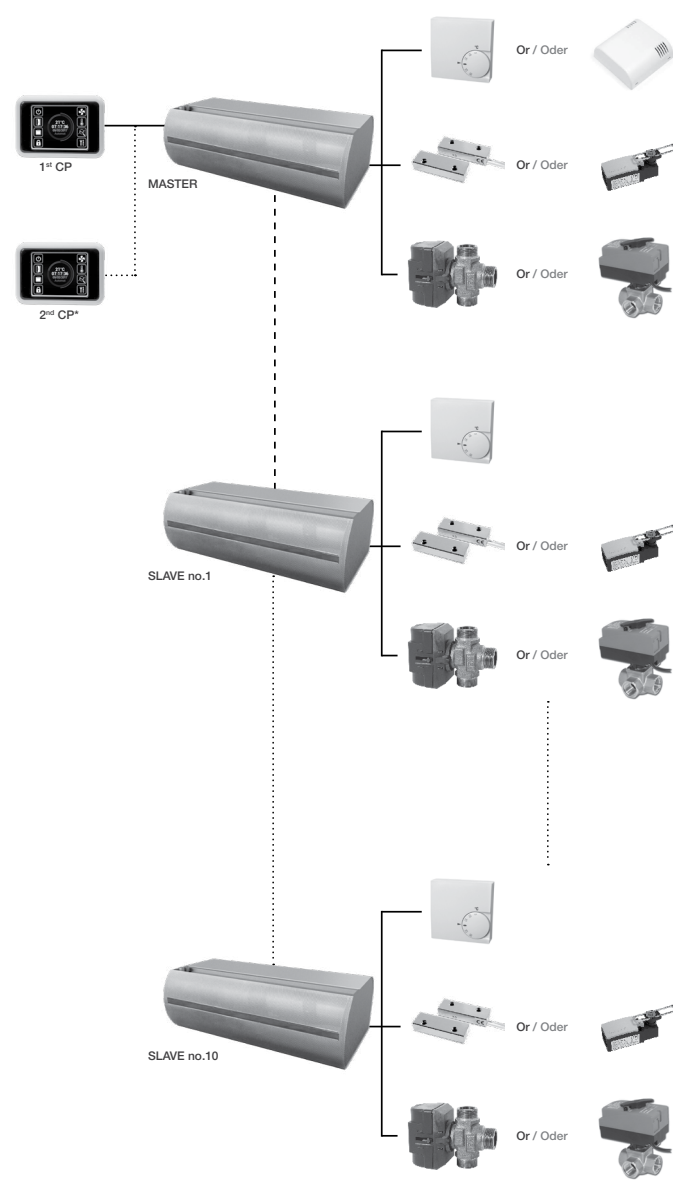
Global Door contact function active



¹⁾ Optional accessories

COMFORT / SUPERIOR

Global Door contact function not active



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CONTROL

ACCESSORIES

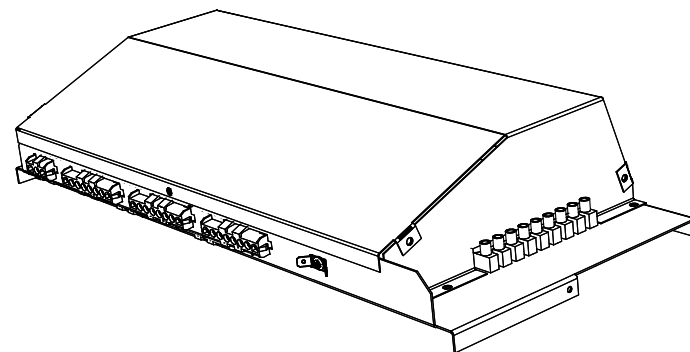
REQUIRED ACCESSORIES

These accessories shall be ordered to make the air curtain functional.

Control module

A control module is a required accessory for air curtain and shall be ordered for each air curtain. Control panel is included in delivery of control module. The ordering key for control modules is provided below.

Communication cable has to be ordered separately as an optional accessory.

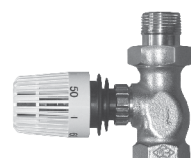


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ACCESSORIES

OPTIONAL ACCESSORIES

Thermostatic valve TV-1-1/1
TV-1-1/1



2-way or 3-way valve with servo drive (230V)
ZV2-230-xx,x-xx
ZV3-230-xx,x-xx
(for BA, CO)



3-way valve with servo drive RT
RT-3-07 (K_{vs} 07)
(for control BA, CO)



2way or 3-way valve with servo drive
(0-10V)
ZV2-024-xx,x-xx
ZV3-024-xx,x-xx
(for control SU)



Mixing node
SMU2-230-xx (for control BA, CO)
SMU2-024-xx (for control SU)



Room thermostat
TER-P



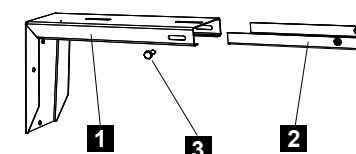
Room temperature sensor
CT-ROOM



Wall mounting bracket

Bracket designed for mounting the air curtain to the wall.

- 1 Bracket
- 2 Hanging strip
- 3 Securing screw



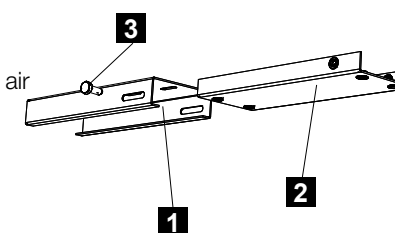
VCS4-KONZ-STE

- for B and C air curtains (2 pcs. in package)
- wall mounting bracket

Ceiling holder

The holder is designed for attaching the air curtain to a ceiling.

- 1 Ceiling bracket
- 2 Hanging strip
- 3 Securing screw



VCS4-KONZ-STR

- for B and C air curtains (2 pcs. in package)
- ceiling holder

Exit sign for marking of emergency exits.

Suitable for all types of air curtains.

VCS4-EXIT



Mechanical industry door switch

DS

Heavy-duty door contact for industry use



Magnetic door contact

Magnetic door contact in metal housing with higher protection against mechanical damage

DK-B-3



2nd Control panel

ND-REMOTE-CONTROL (for control CO, SU)



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ACCESSORIES

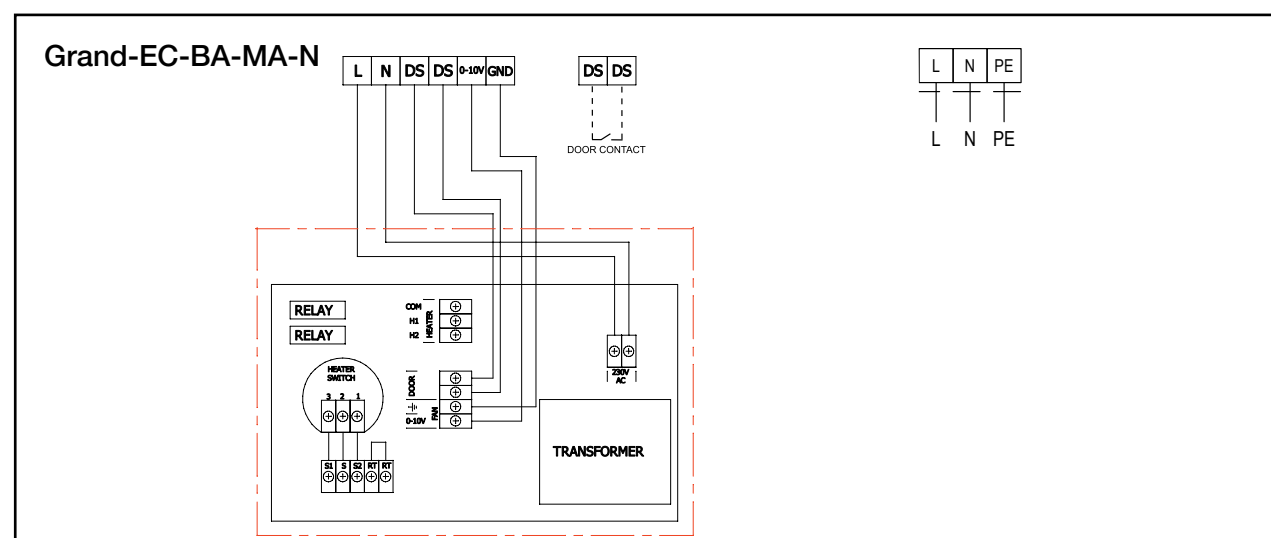
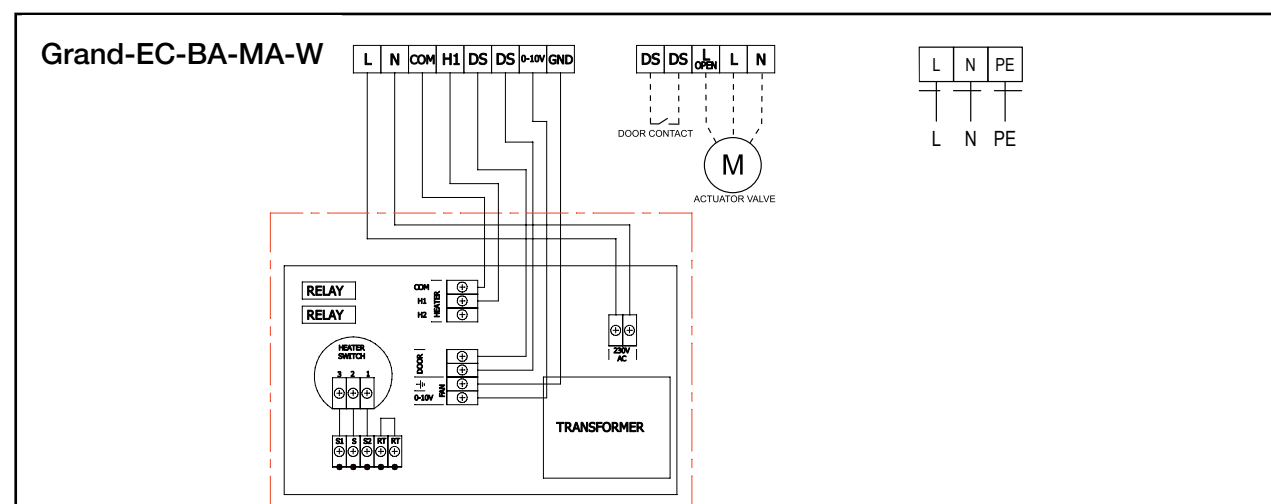
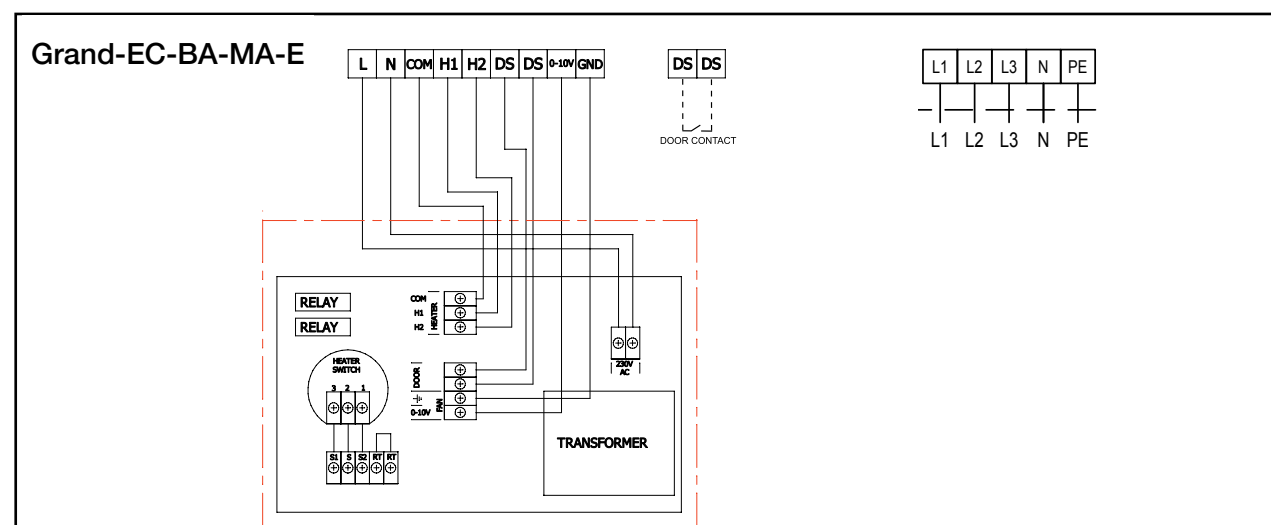
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DIAGRAMS

WIRING DIAGRAMS

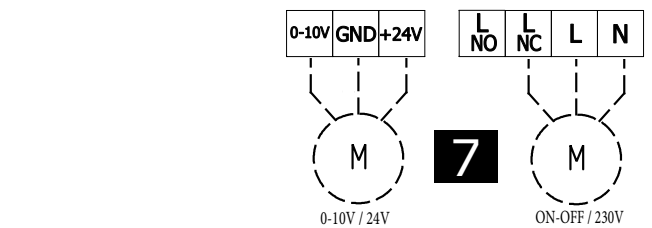
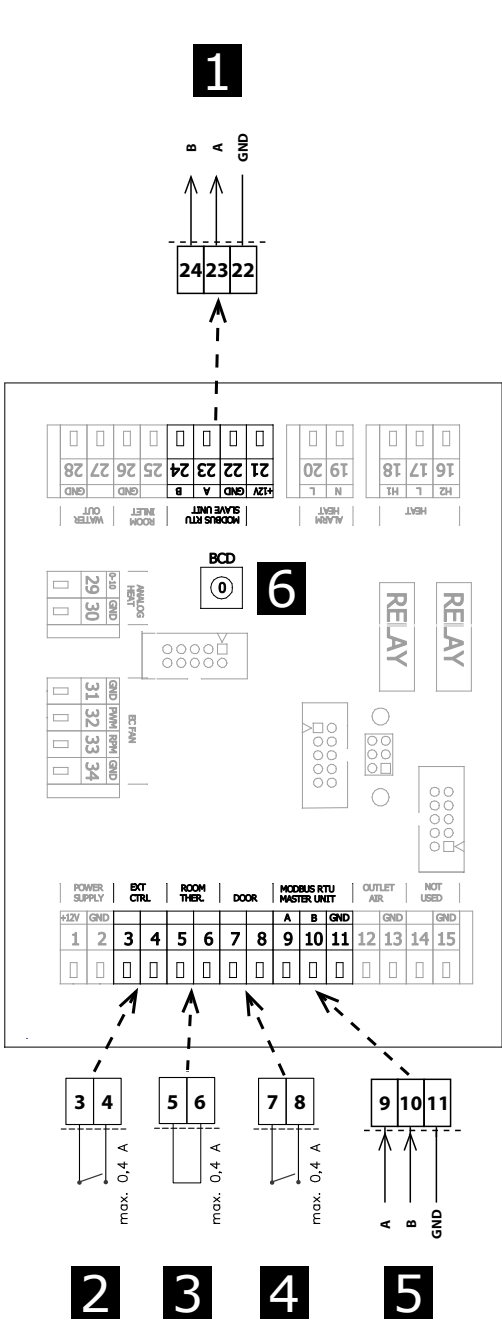
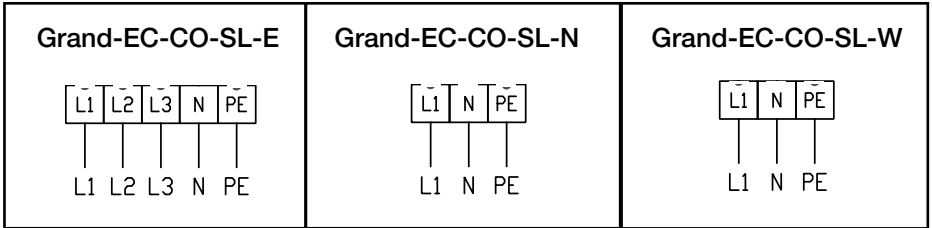
The recommended cross-section of the main power supply cables is stated in the Instruction Manual.

All wiring diagrams provided in the technical catalog are indicative only. When assembling the product, carefully observe the nameplate ratings as well as directions and diagrams affixed directly to the product or enclosed with the product.



WIRING DIAGRAMS

AirGENIO COMFORT SLAVE



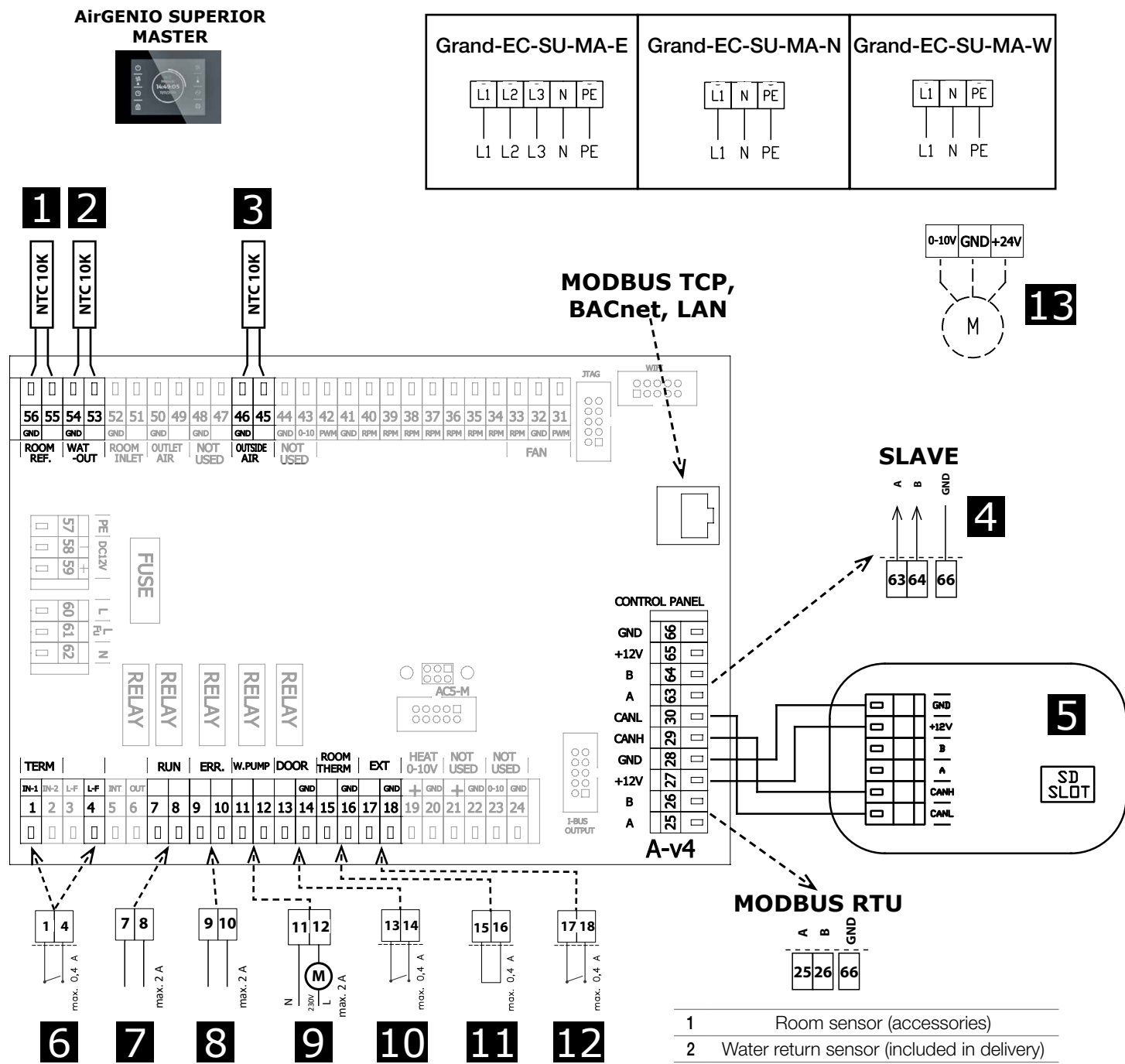
1	Signal to SLAVE unit
2	External control - ON/OFF
3	Room thermostat (input)
4	DOOR contact (input)
5	Signal from MASTER unit
6	Address of the slave air curtain

6	BCD
SLAVE	⑩
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	A

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WIRING DIAGRAMS



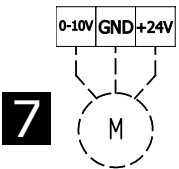
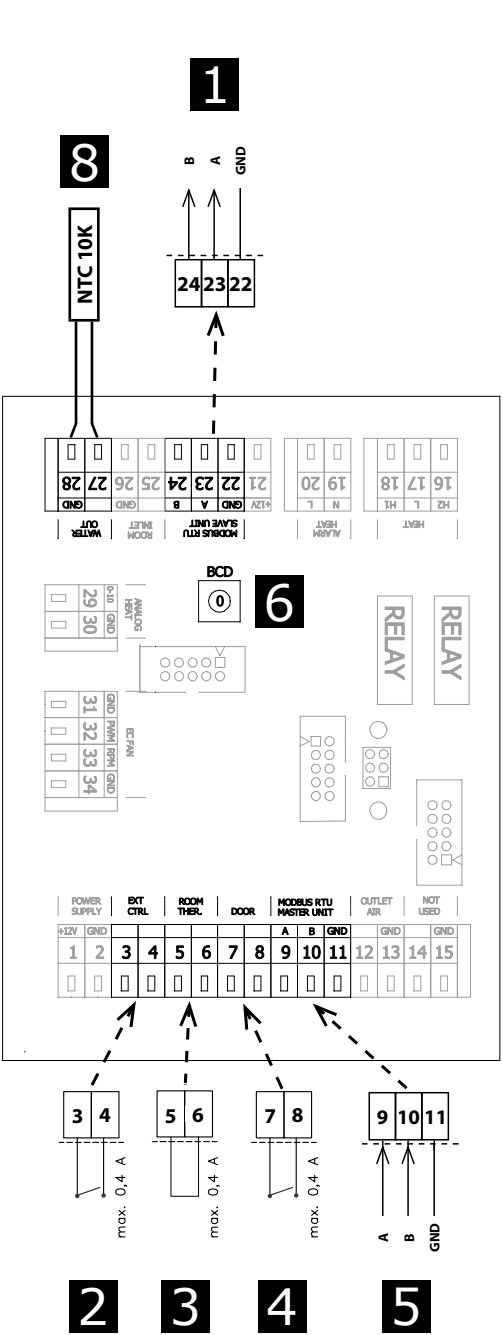
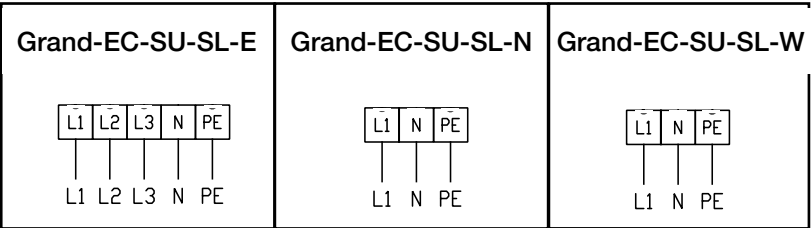
- | | |
|----|--|
| 1 | Room sensor (accessories) |
| 2 | Water return sensor (included in delivery) |
| 3 | Outside air sensor (included in delivery) |
| 4 | Signal to SLAVE unit |
| 5 | Control panel |
| 6 | Antifreeze thermostat (NC) |
| 7 | RUN contact (relay contact, NO/NC) |
| 8 | ERROR contact (relay contact, NO/NC) |
| 9 | Water pump (relay contact) |
| 10 | DOOR contact (input, NO/NC) |
| 11 | Room thermostat (input, NO/NC) |
| 12 | External control (input, NO/NC) |

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DIAGRAMS

WIRING DIAGRAMS

AirGENIO SUPERIOR
SLAVE



1	Signal to SLAVE unit
2	External control - ON/OFF
3	Room thermostat (input)
4	DOOR contact (input)
5	Signal from MASTER unit
6	Address of the slave air curtain
7	Water valve control (0-10 V, 24 V)*
8	Water return sensor (included in delivery)

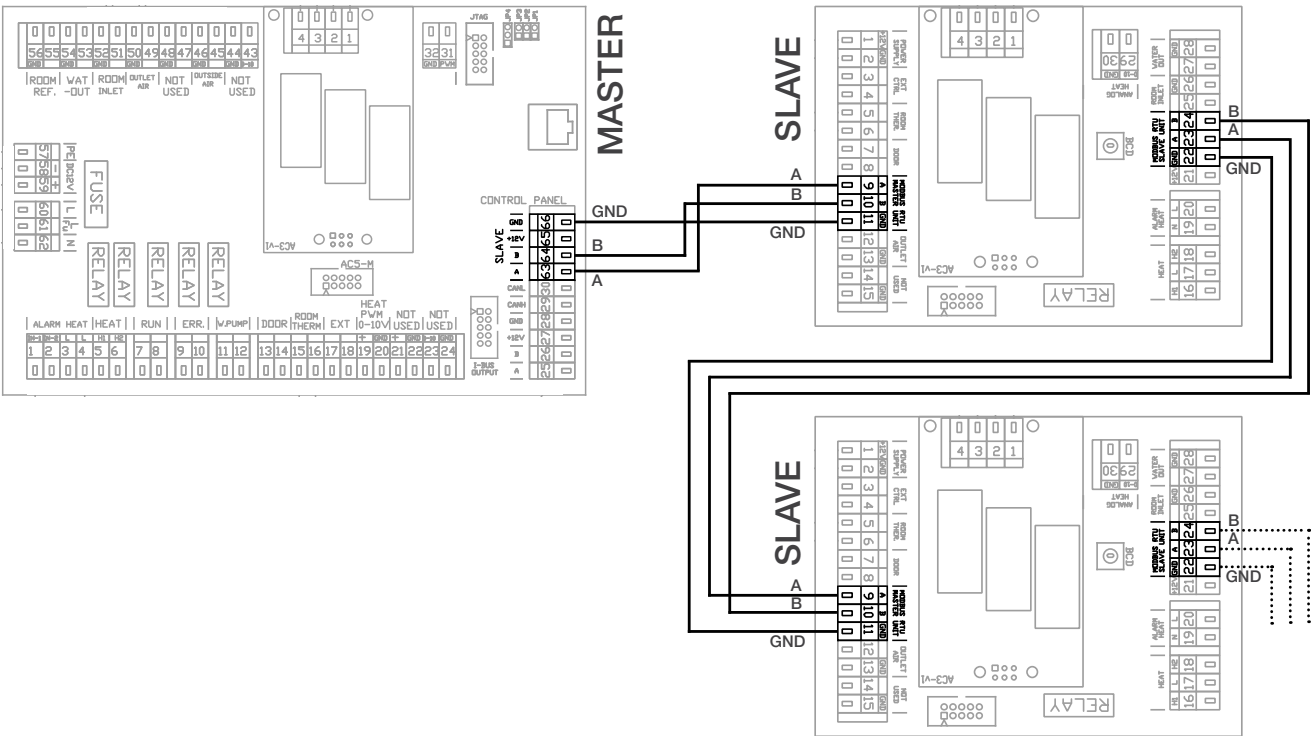
6	BCD
SLAVE	⑩
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	A

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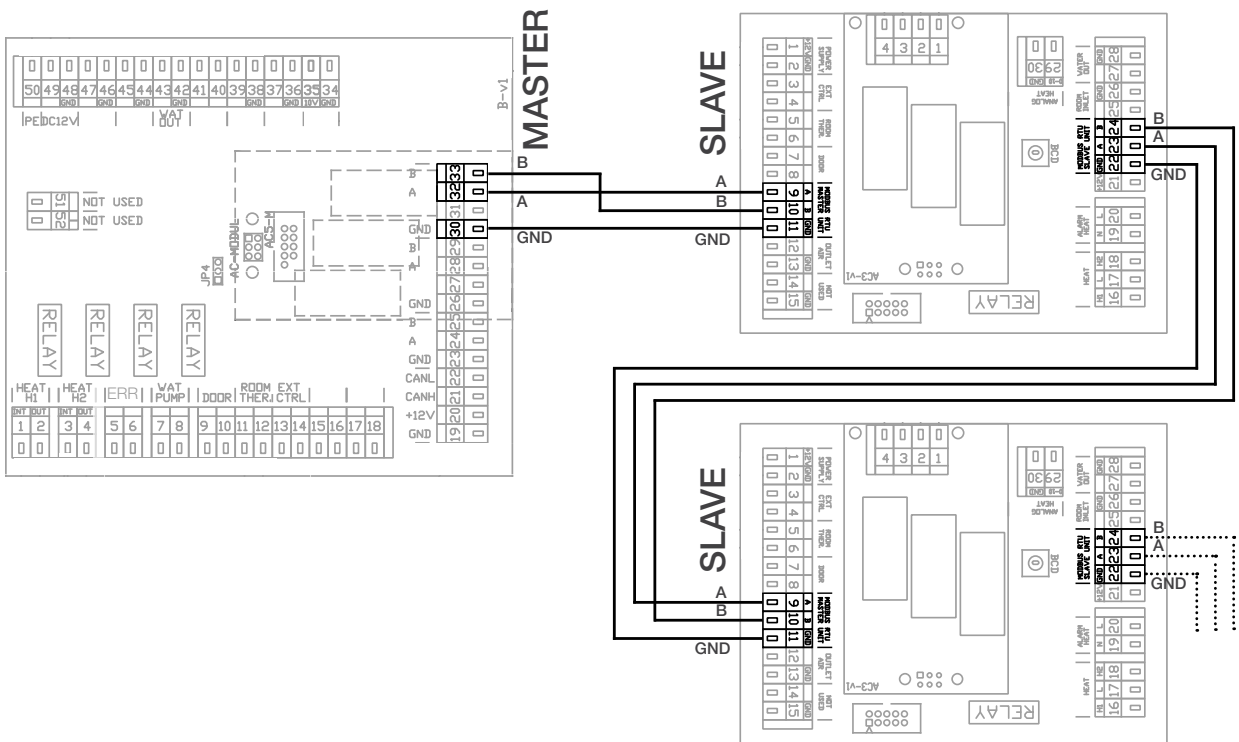
DIAGRAMS

WIRING DIAGRAMS

SUPERIOR

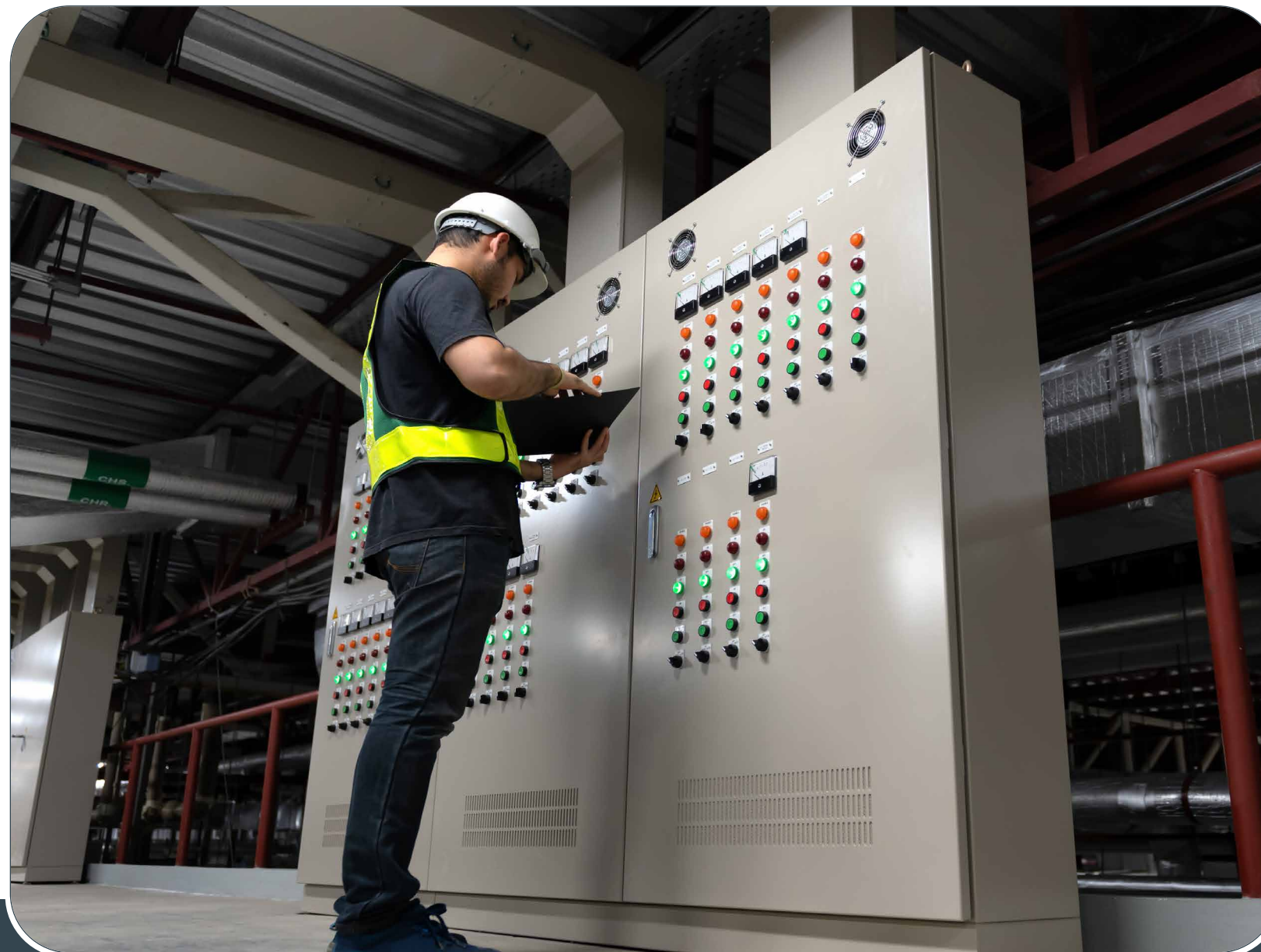


COMFORT



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MAINTENANCE

AIR CURTAINS

TRANSPORT

After arrival, check the product for transport damage and shortcomings. In case of any damage or shortcomings, immediately contact your supplier.

STORAGE

If the product is not installed immediately:

- Remove any wrapping.
- Protect product from dust and contamination.
- Do not expose the damper to the effects of weather, store the damper in a dry place.

Please properly dispose of packaging material!

MAINTENANCE AND OPERATION

Klimaoprema products are designed as such do not require cleaning and regular maintenance. However, mechanism should be systematically cleaned for proper operation.

- Provide a systematic cleaning of dust
- Cleaning instruction: clean with a sponge, with water or a mild detergent

COMMISSIONING

- Carefully unpack - be careful of sharp edges and do not use excessive force for unpacking
- Ensure that all grilles are clean and free from residues and foreign matter.
- Ensure that the devices have been correctly installed
- Before commissioning: check the product functions



AIR CURTAINS / LUFTSCHLEIER

Images are for informational purposes only and may differ from the actual product.
Follow the latest versions of the catalog on the website.

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-  www.klimaoprema.com