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Product manual

Air curtains

GRAND 5-EC

Air distribution

Version 1.0.2
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GRAND 5-EC

The air curtain **GRAND is** elegant delivering confident, high-performance operation. Its refined and attractive design makes it an ideal solution for representative commercial interiors such as **banks, luxury boutiques, shopping centres, airports, and administrative buildings.**
The air curtain shall be installed indoors in a dry environment, with ambient temperatures ranging from 0 °C up to +40 °C and relative humidity of up to 80%. It is designed to convey air free of fine dust, grease, chemical fumes, and other impurities. The IP rating of the air curtain is IP20. **To ensure optimal performance, it is recommended that air curtain projects be developed by an HVAC designer or engineer.**

EC version airflow up to 6. 400 m3/h (ISO 27 327-1) and installation height is up to 5 m.

An integrated control system ensures efficient operation.
Two control options are available:

- BASIC control- simple power control.
- PRIME control – an advanced control system that optimizes operation for interior comfort while minimizing energy costs.

Other features

- Lengths: 1.0; 1.5; 2.0; 2.5 m.
- Standard colour RAL 9016 (any RAL – based colors may be provided on customer's request)
- 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.

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					Acoustic pressure at 3 m [dB(A)]*2					Sound power [dB(A)]*3
		100%	80%	60%	40%	20%	100%	80%	60%	40%	20%	
GRAND-5-40-10-N-EC	4,0	1900	1750	1600	1350	950	53	52	50	47	42	75
GRAND-5-40-15-N-EC		2800	2650	2380	2000	1450	54	53	50	47	38	76
GRAND-5-40-20-N-EC		3800	3570	3200	2750	1950	56	55	52	48	40	78
GRAND-5-40-25-N-EC		4700	4470	4000	3400	2400	58	56	53	50	41	80
GRAND-5-40-10-E1-EC		1900	1750	1600	1350	950	53	52	50	47	42	75
GRAND-5-40-15-E1-EC		2800	2650	2380	2000	1450	54	53	50	47	38	76
GRAND-5-40-20-E1-EC		3800	3570	3200	2750	1950	56	55	52	48	40	78
GRAND-5-40-25-E1-EC		4700	4470	4000	3400	2400	58	56	53	50	41	80
GRAND-5-40-10-W2-EC		1850	1700	1550	1300	900	53	51	50	47	42	74
GRAND-5-40-15-W2-EC		2700	2500	2270	1920	1400	55	53	51	47	38	76
GRAND-5-40-20-W2-EC		3700	3470	3140	2650	1900	56	54	52	48	40	77
GRAND-5-40-25-W2-EC		4500	4200	3800	3200	2330	57	55	53	49	40	79
GRAND-5-50-10-N-EC	5,0	2550	2400	2150	1800	1270	56	54	51	47	39	77
GRAND-5-50-15-N-EC		3650	3400	3100	2600	1850	57	55	54	50	43	78
GRAND-5-50-20-N-EC		4650	4350	3900	3300	2400	58	57	54	51	46	80
GRAND-5-50-25-N-EC		6400	6000	5350	4500	3150	59	57	55	51	42	81
GRAND-5-50-10-E1-EC		2550	2400	2150	1800	1270	56	54	51	47	39	77
GRAND-5-50-15-E1-EC		3650	3400	3100	2600	1850	57	55	54	50	43	78
GRAND-5-50-20-E1-EC		4650	4350	3900	3300	2400	58	57	54	51	46	80
GRAND-5-50-25-E1-EC		6400	6000	5350	4500	3150	59	57	55	51	42	81
GRAND-5-50-10-W2-EC		2450	2300	2050	1750	1200	57	56	55	53	42	78
GRAND-5-50-15-W2-EC		3500	3250	2900	2400	1800	57	56	54	51	43	78
GRAND-5-50-20-W2-EC		4550	4150	3700	3150	2250	58	56	54	51	46	79
GRAND-5-50-25-W2-EC		5900	5500	4950	4200	2850	58	56	54	50	42	80
GRAND-5-50-10-W3-EC		2400	2250	2000	1750	1200	56	56	55	53	42	77
GRAND-5-50-15-W3-EC		3450	3200	2900	2400	1750	57	56	54	51	43	78
GRAND-5-50-20-W3-EC		4450	4100	3650	3100	2200	58	56	54	51	46	79
GRAND-5-50-25-W3-EC		5850	5450	4900	4150	2800	58	56	54	50	42	80

*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.

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-5-40-10-N-EC	-	-	0,34	230/2,4	230/2,4	-	50/60	40
GRAND-5-40-15-N-EC	-	-	0,50	230/3,4	230/3,4	-	50/60	55
GRAND-5-40-20-N-EC	-	-	0,68	230/4,4	230/4,4	-	50/60	70
GRAND-5-40-25-N-EC	-	-	0,85	230/5,4	230/5,4	-	50/60	85
GRAND-5-40-10-E1-EC	4,6	9,4	9,74	400/16,0	230/2,4	14,7	50/60	45
GRAND-5-40-15-E1-EC	7,6	15,0	15,50	400/25,1	230/3,4	16,0	50/60	60
GRAND-5-40-20-E1-EC	9,8	19,0	19,68	400/31,9	230/4,4	14,9	50/60	76
GRAND-5-40-25-E1-EC	12,5	24,5	25,35	400/40,8	230/5,4	15,5	50/60	92
GRAND-5-40-10-W2-EC	-		0,34	230/2,4	230/2,4	38,6*2	50/60	46
GRAND-5-40-15-W2-EC	-		0,50	230/3,4	230/3,4	38,5*2	50/60	61
GRAND-5-40-20-W2-EC	-		0,68	230/4,4	230/4,4	39,6*2	50/60	77
GRAND-5-40-25-W2-EC	-		0,85	230/5,4	230/5,4	40,1*2	50/60	89
GRAND-5-50-10-N-EC	-	-	0,50	230/3,3	230/3,3	-	50/60	44
GRAND-5-50-15-N-EC	-	-	0,68	230/4,5	230/4,5	-	50/60	59
GRAND-5-50-20-N-EC	-	-	0,84	230/5,3	230/5,3	-	50/60	73
GRAND-5-50-25-N-EC	-	-	1,20	230/7,2	230/7,2	-	50/60	91
GRAND-5-50-10-E1-EC	4,6	9,9	9,90	400/16,9	230/3,3	11,6	50/60	50
GRAND-5-50-15-E1-EC	7,6	15,0	15,68	400/21,2	230/4,5	12,3	50/60	64
GRAND-5-50-20-E1-EC	9,8	19,0	19,84	400/32,8	230/5,3	10,0	50/60	80
GRAND-5-50-25-E1-EC	12,5	24,5	25,70	400/42,6	230/7,2	11,4	50/60	104
GRAND-5-50-10-W2-EC	-		0,50	230/3,3	230/3,3	34,5*2	50/60	51
GRAND-5-50-15-W2-EC	-		0,68	230/4,5	230/4,5	34,7*2	50/60	65
GRAND-5-50-20-W2-EC	-		0,84	230/5,3	230/5,3	36,9*2	50/60	81
GRAND-5-50-25-W2-EC	-		1,20	230/7,2	230/7,2	36,1*2	50/60	101
GRAND-5-50-10-W3-EC	-		0,50	230/3,3	230/3,3	12,0*2	50/60	53
GRAND-5-50-15-W3-EC	-		0,68	230/4,5	230/4,5	12,9*3	50/60	69
GRAND-5-50-20-W3-EC	-		0,84	230/5,3	230/5,3	13,2*3	50/60	85
GRAND-5-50-25-W3-EC	-		1,20	230/7,2	230/8,7	13,1*3	50/60	104

* 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.

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-5-40-10-W2-EC	1850	24,1	56,6	8,2	0,30
GRAND-5-40-15-W2-EC	2700	35,1	56,5	5,5	0,43
GRAND-5-40-20-W2-EC	3700	49,4	57,6	11,6	0,61
GRAND-5-40-25-W2-EC	4500	61	58,1	18,4	0,75
GRAND-5-50-10-W2-EC	2450	28,5	52,5	11,3	0,35
GRAND-5-50-15-W2-EC	3500	41,0	52,7	7,5	0,51
GRAND-5-50-20-W2-EC	4450	55,8	54,7	14,6	0,69
GRAND-5-50-25-W2-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-5-40-10-W2-EC	1850	19,7	49,5	5,7	0,24
GRAND-5-40-15-W2-EC	2700	28,5	49,2	3,8	0,35
GRAND-5-40-20-W2-EC	3700	40,5	50,4	8,1	0,50
GRAND-5-40-25-W2-EC	4500	50,2	51,0	12,9	0,62
GRAND-5-50-10-W2-EC	2450	23,3	46,1	7,8	0,29
GRAND-5-50-15-W2-EC	3500	33,2	46,1	5,0	0,41
GRAND-5-50-20-W2-EC	4450	45,6	48,0	10,1	0,56
GRAND-5-50-25-W2-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-5-40-10-W2-EC	1850	15,3	42,4	3,6	0,19
GRAND-5-40-15-W2-EC	2700	21,8	41,9	2,3	0,27
GRAND-5-40-20-W2-EC	3700	31,5	43,2	5,1	0,38
GRAND-5-40-25-W2-EC	4500	39,3	43,9	8,2	0,48
GRAND-5-50-10-W2-EC	2450	18,0	39,7	4,9	0,22
GRAND-5-50-15-W2-EC	3500	25,4	39,5	3,1	0,31
GRAND-5-50-20-W2-EC	4450	35,3	41,3	6,3	0,43
GRAND-5-50-25-W2-EC	5900	46,1	41,2	11,1	0,56

* Temperature of intake air: +18 °C

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-5-40-10-W2-EC	1850	10,8	35,2	1,9	0,13
GRAND-5-40-15-W2-EC	2700	15,1	34,5	1,2	0,18
GRAND-5-40-20-W2-EC	3700	22,3	35,9	2,7	0,27
GRAND-5-40-25-W2-EC	4500	28,2	36,6	4,5	0,34
GRAND-5-50-10-W2-EC	2450	12,6	33,2	2,6	0,15
GRAND-5-50-15-W2-EC	3500	17,4	32,7	1,5	0,21
GRAND-5-50-20-W2-EC	4450	25,0	34,4	3,3	0,30
GRAND-5-50-25-W2-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-5-50-10-W3-EC	2400	11,4	32,1	2,9	0,14
GRAND-5-50-15-W3-EC	3450	18,2	33,6	5,6	0,22
GRAND-5-50-20-W3-EC	4450	24,0	33,9	5,9	0,29
GRAND-5-50-25-W3-EC	5850	31,8	34,1	11,0	0,38

* 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-5-50-10-W3-EC	2400	9,7	30,0	7,8	0,24
GRAND-5-50-15-W3-EC	3450	15,0	30,9	14,4	0,36
GRAND-5-50-20-W3-EC	4450	19,8	31,2	15,1	0,48
GRAND-5-50-25-W3-EC	5850	25,9	31,1	27,6	0,63

* 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-5-50-10-W3-EC	2400	6,2	25,7	3,5	0,15
GRAND-5-50-15-W3-EC	3450	9,8	26,4	6,8	0,24
GRAND-5-50-20-W3-EC	4450	13,0	26,6	7,1	0,31
GRAND-5-50-25-W3-EC	5850	17,3	26,7	13,3	0,41

* Temperature of intake air: +18 °C

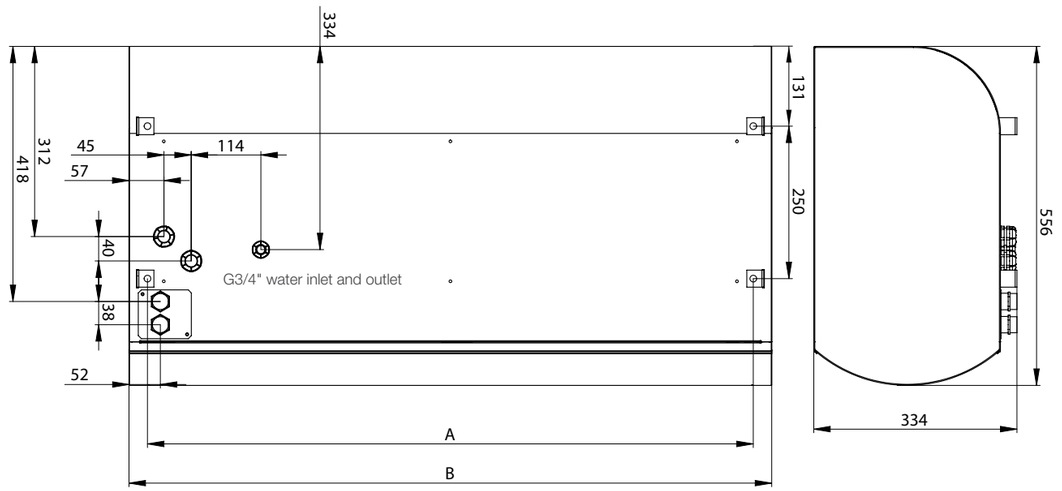
Recommended mixing points for LPHW coil
3-way valve

Type	Control module	90/70 °C	80/60 °C	70/50 °C	60/40 °C	40/30 °C	35/25 °C
		3-way valve					
GRAND-5-40-10-W2-EC	BASIC / PRIME (ON/OFF)	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		
	PRIME (0-10V)	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20		
GRAND-5-40-15-W2-EC	BASIC / PRIME (ON/OFF)	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		
	PRIME (0-10V)	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20		
GRAND-5-40-20-W2-EC	BASIC / PRIME (ON/OFF)	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		
	PRIME (0-10V)	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20		
GRAND-5-40-25-W2-EC	BASIC / PRIME (ON/OFF)	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		
	PRIME (0-10V)	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20		
GRAND-5-50-10-W2-EC	BASIC / PRIME (ON/OFF)	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		
	PRIME (0-10V)	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20	ZV3-024-04,0-20		
GRAND-5-50-15-W2-EC	BASIC / PRIME (ON/OFF)	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		
	PRIME (0-10V)	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20		
GRAND-5-50-20-W2-EC	BASIC / PRIME (ON/OFF)	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		
	PRIME (0-10V)	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20		
GRAND-5-50-25-W2-EC	BASIC / PRIME (ON/OFF)	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		
	PRIME (0-10V)	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20	ZV3-024-06,3-20		
GRAND-5-50-10-W3-EC	BASIC / PRIME (ON/OFF)					ZV3-230-04,0-20	ZV3-230-04,0-20
						RT-3-07	RT-3-07
	PRIME (0-10V)					ZV3-024-04,0-20	ZV3-024-04,0-20
GRAND-5-50-15-W3-EC	BASIC / PRIME (ON/OFF)					ZV3-230-04,0-20	ZV3-230-04,0-20
						RT-3-07	RT-3-07
	PRIME (0-10V)					ZV3-024-04,0-20	ZV3-024-04,0-20
GRAND-5-50-20-W3-EC	BASIC / PRIME (ON/OFF)					ZV3-230-04,0-20	ZV3-230-04,0-20
						RT-3-07	RT-3-07
	PRIME (0-10V)					ZV3-024-06,3-20	ZV3-024-06,3-20
GRAND-5-50-25-W3-EC	BASIC / PRIME (ON/OFF)					ZV3-230-21,0-20	ZV3-230-04,0-20
						RT-3-07	RT-3-07
	PRIME (0-10V)					ZV3-024-06,3-20	ZV3-024-06,3-20

Recommended mixing points for LPHW coil
2-way valve

Type	Control module	90/70 °C	80/60 °C	70/50 °C	60/40 °C	40/30 °C	35/25 °C
		2-way valve					
GRAND-5-40-10-W2-EC	BASIC / PRIME (ON/OFF)	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20		
	PRIME (0-10V)	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20		
GRAND-5-40-15-W2-EC	BASIC / PRIME (ON/OFF)	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20		
	PRIME (0-10V)	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20		
GRAND-5-40-20-W2-EC	BASIC / PRIME (ON/OFF)	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20		
	PRIME (0-10V)	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20		
GRAND-5-40-25-W2-EC	BASIC / PRIME (ON/OFF)	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20		
	PRIME (0-10V)	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20		
GRAND-5-50-10-W2-EC	BASIC / PRIME (ON/OFF)	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20		
	PRIME (0-10V)	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20		
GRAND-5-50-15-W2-EC	BASIC / PRIME (ON/OFF)	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20		
	PRIME (0-10V)	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20		
GRAND-5-50-20-W2-EC	BASIC / PRIME (ON/OFF)	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20		
	PRIME (0-10V)	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20		
GRAND-5-50-25-W2-EC	BASIC / PRIME (ON/OFF)	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20	ZV2-230-08,0-20		
	PRIME (0-10V)	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20	ZV2-024-08,0-20		
GRAND-5-50-10-W3-EC	BASIC / PRIME (ON/OFF)					ZV2-230-08,0-20	ZV2-230-08,0-20
	PRIME (0-10V)					ZV2-024-08,0-20	ZV2-024-08,0-20
GRAND-5-50-15-W3-EC	BASIC / PRIME (ON/OFF)					ZV2-230-08,0-20	ZV2-230-08,0-20
	PRIME (0-10V)					ZV2-024-08,0-20	ZV2-024-08,0-20
GRAND-5-50-20-W3-EC	BASIC / PRIME (ON/OFF)					ZV2-230-08,0-20	ZV2-230-08,0-20
	PRIME (0-10V)					ZV2-024-08,0-20	ZV2-024-08,0-20
GRAND-5-50-25-W3-EC	BASIC / PRIME (ON/OFF)					ZV2-230-08,0-20	ZV2-230-08,0-20
	PRIME (0-10V)					ZV2-024-08,0-20	ZV2-024-08,0-20

DIMENSIONS



Type	Spacing of installation holes A [mm]	Width B [mm]
GRAND-5-50-10	994	1054
GRAND-5-50-15	1494	1554
GRAND-5-50-20	1994	2054
GRAND-5-50-25	2394	2454

ORDERING KEY

(1) Air curtain		(2) Installation height		(3) Width [mm]		(4) Heating	(5) Fan motor type		(6) Fan motor type		(7) Finish:
GRAND-5	-	**40**	-	**10**	-	**W**	**EC**	-	**BA**	-	**0**

(1) Air curtain:
GRAND 5

(2) Recommended installation height:
40 - 4m installation height
50 - 5m installation height

(3) **10** – 1000 mm
15 – 1500 mm
20 – 2000 mm
25 – 2500 mm

(4) Type of heater:
N – without heating regulation
E1 – with electric heater regulation
W2 – 2 row water heater regulation
W3 – 3 row water heater regulation

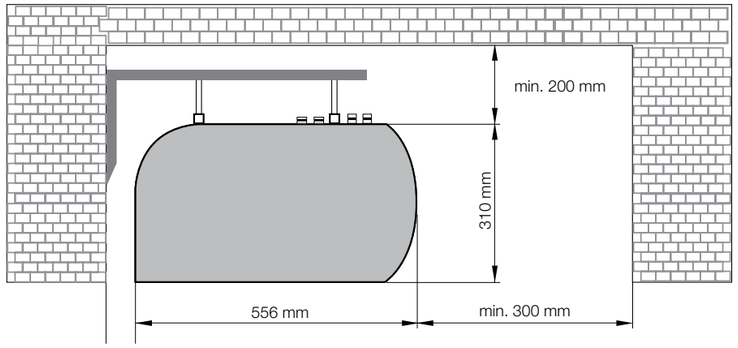
(5) Fan motor type:
EC – EC motor

(6) Controller:
BA – BASIC control integrated
PR – PRIME MASTER control panel integrated
PR – PRIME SLAVE without control paneL

(7) Finish:
0 – Standard RAL - 9016
9 – Any other RAL

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 and servise access shall be taken into consideration during installation.
– Suspension holders are used for installing the air curtains see ACCESSORIES.
– The air curtain shall be installed separated from flammable materials and safe operation has to be kept.



CONTROL

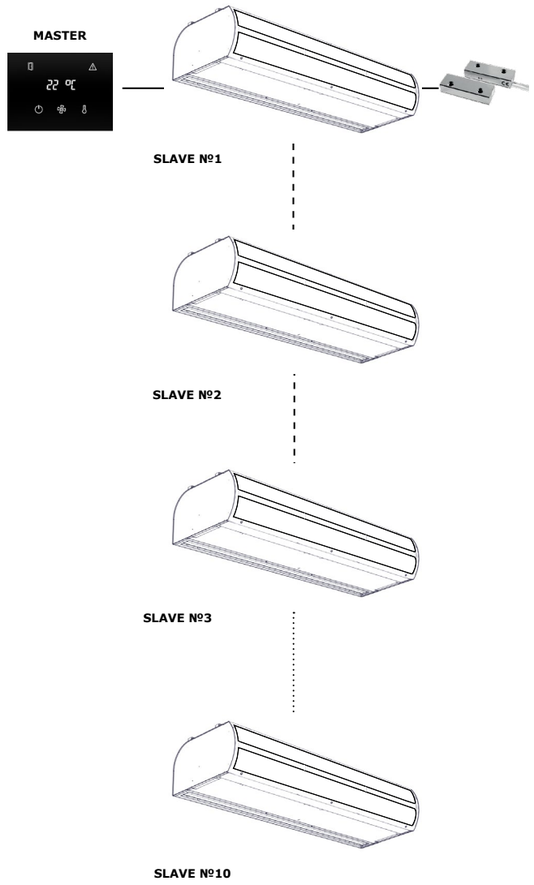
Overview of functions and sensor connections

Control information	PRIME	BASIC
Control type	7-segment display with 3 capacity buttons	Manual switch
Mode	Manual / Auto	Manual
AC Fan control	AC – 3 steps	AC – 3 steps
EC Fan control	EC – PWM/0-10V	EC – PWM/0-10V
Electric heater control	PWM	0 / 50% / 100%
Water heater control	ON-OFF or 0-10V (settable logic NO/NC)	ON-OFF
Status indication	Yes (LED on display)	No
AirGENIO PRIME application	Change of settings	No
Auto-speed control	Yes	No
Timer	Yes	No
Temperature control	Yes (NTC) Built in control panel	No
DOOR contact connection	Yes Settable logic (NO/NC)	Yes (230V only)
Summer mode	Yes	No
Antifreeze protection (LPHW)	Yes (Control by temperature sensor)	No
Chaining	Yes (max. 10pcs)	No
ERROR contact	Yes (Jumper setting) / HEAT or RUN+ERROR	No
RUN contact	Yes (Jumper setting) / HEAT or RUN+ERROR	No
External control	Yes settable logic (NO/NC)	Yes
BMS connection	Modbus RTU	No
Clean intervals	Yes	No

CHAINING EXAMPLE

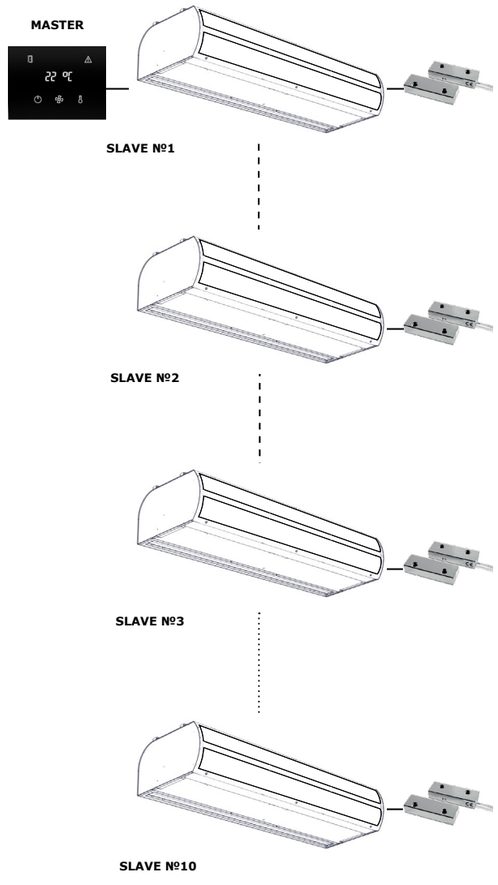
PRIME

GLOBAL DOOR CONTACT FUNCTION ACTIVE



PRIME

GLOBAL DOOR CONTACT FUNCTION NOT ACTIVE



*) Optional accessories

OPTIONAL ACCESSORIES

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

2-way or 3-way valve with servo drive (230V)
(for BASIC and PRIME control)
ZV2-230-08,0-20
ZV3-230-04,0-20
ZV3-230-21,0-20

3-way valve with servo drive RT
(for BASIC and PRIME control)
RT-3-07 (K_{VS} 07)

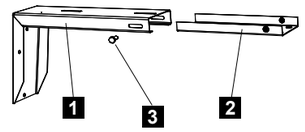
2way or 3-way valve with servo drive (0-10V)
(for PRIME control only)
ZV2-024-08,0-20
ZV3-024-04,0-20
ZV3-024-06,3-20

Room thermostat
TER-P

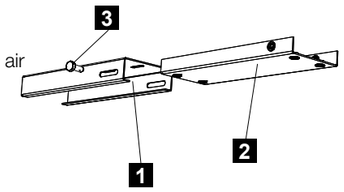
Room temperature sensor
(for PRIME)
CT-ROOM

G1 replacement filter
G1-GRAND-5-10 - for 1.0 m
G1-GRAND-5-15 - for 1.5 m
G1-GRAND-5-20 - for 2.0 m
G1-GRAND-5-25 - for 2.5 m

Wall mounting bracket
Bracket designed for mounting the air curtain to the wall.
1 Bracket
2 Hanging strip
3 Securing screw
VCST4-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
VCST4-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
Heavy-duty door contact for industry use
DS

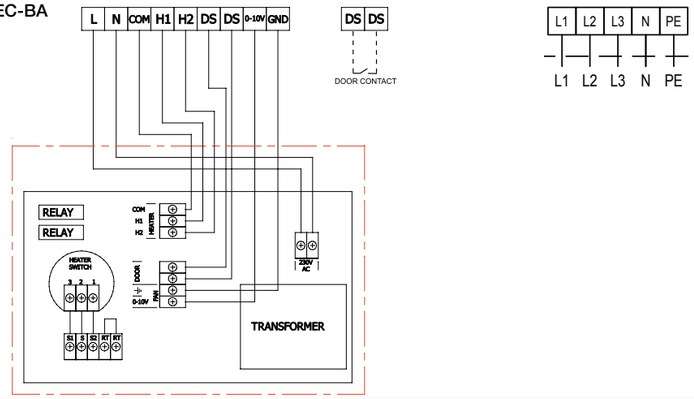
Magnetic door contact
Magnetic door contact in metal housing with higher protection against mechanical damage
DK-B-3

WIRING DIAGRAMS

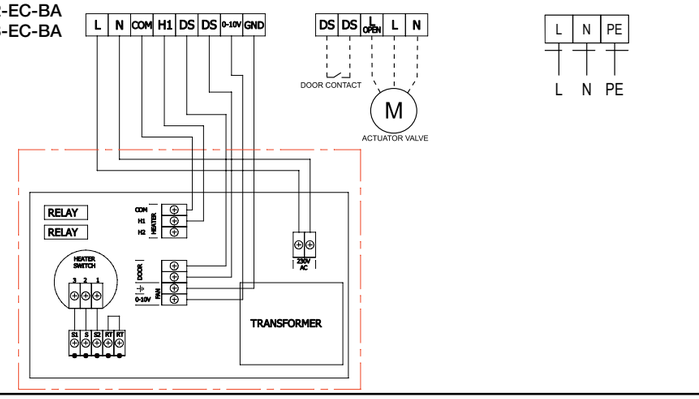
The recommended cross-section of the main power supply cables is stated in the Instruction Manual.
All wiring diagrams provided in the technical catalog are indicative only. When assembling the product, carefully observe the nameplate ratings as well as directions and diagrams affixed directly to the product or enclosed with the product.

BASIC

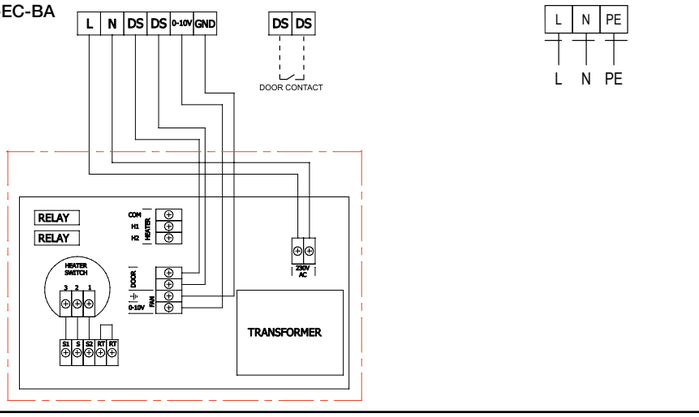
GRAND-5-XX-XX-E1-EC-BA



GRAND-5-XX-XX-W2-EC-BA
GRAND-5-XX-XX-W3-EC-BA

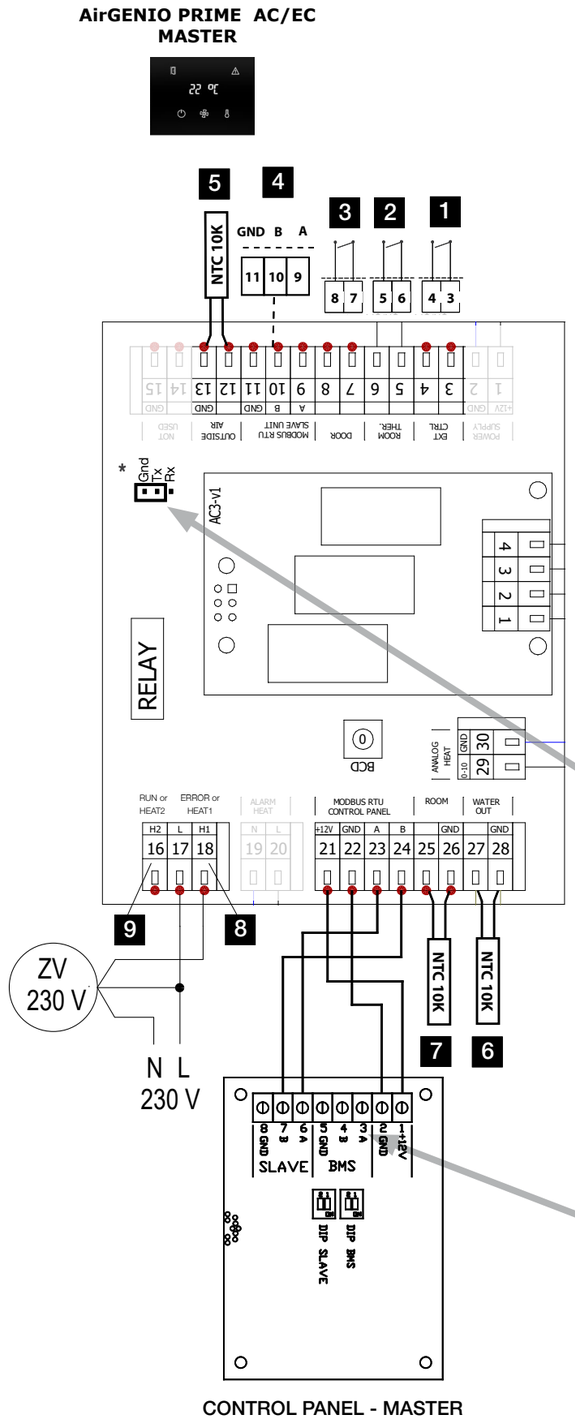


GRAND-5-XX-XX-N-EC-BA



WIRING DIAGRAMS

AirGENIO PRIME AC/EC MASTER



CONTROL PANEL - MASTER

Electric heater	Air-only	Water heater
L1 L2 L3 N PE L1 L2 L3 N PE	L1 N PE L1 N PE	L1 N PE IN CONTROL MODULE 0-10V +24V GND L1 N PE 10

1	External control - (input, ON/OFF)
2	Room Thermostat (input, NO/NC)
3	DOOR contact (input, NO/NC)
4	SLAVE unit connection
5	Outside air sensor (not included in delivery)
6	Antifreeze for water version (included in delivery)
7	Room sensor (not included in delivery)
8	Water valve control ON/OFF or ERROR
9	RUN or HEAT2
10	Water valve control (0-10V)

Water valve control is in default 0-10V

*For **NO/OFF water vlave control**, it is necessary to connect the jumper between GND and Tx

Enable ON/OFF valve and deactivate RUN/ERROR

The default setting from the factory is without the jumper

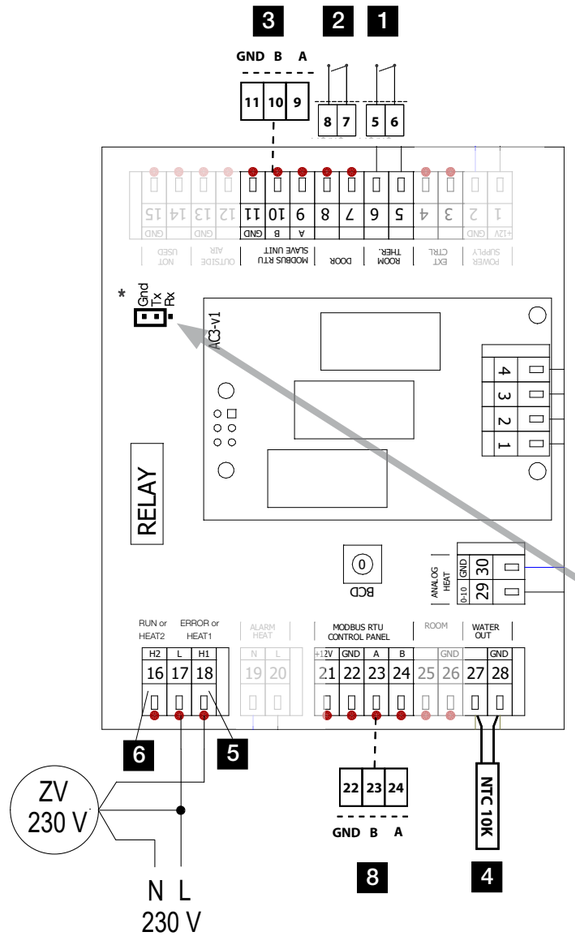
Enable RUN/ERROR and deactivate ON/OFF valve

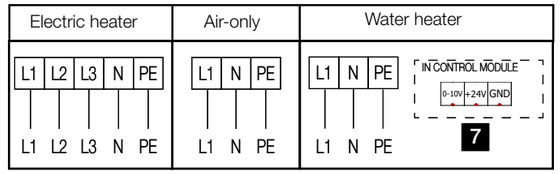
Modbus RTU
(A - 3, B - 4,GND - 5)

To connect the controller with the unit control, we recommend using a shielded cable such as UTP CAT5.
The maximum recommended cable length is 40m!

WIRING DIAGRAMS

AirGENIO PRIME AC/EC
SLAVE UNIT





1	Room Thermostat (input, NO/NC)
2	DOOR contact (input, NO/NC)
3	SLAVE unit connection
4	Antifreeze sensor LPHW (included in delivery)
5	Water valve control ON/OFF or ERROR
6	RUN or HEAT2
7	Water valve control (0-10V)
8	MASTER unit connection

Water valve control is in default 0-10V

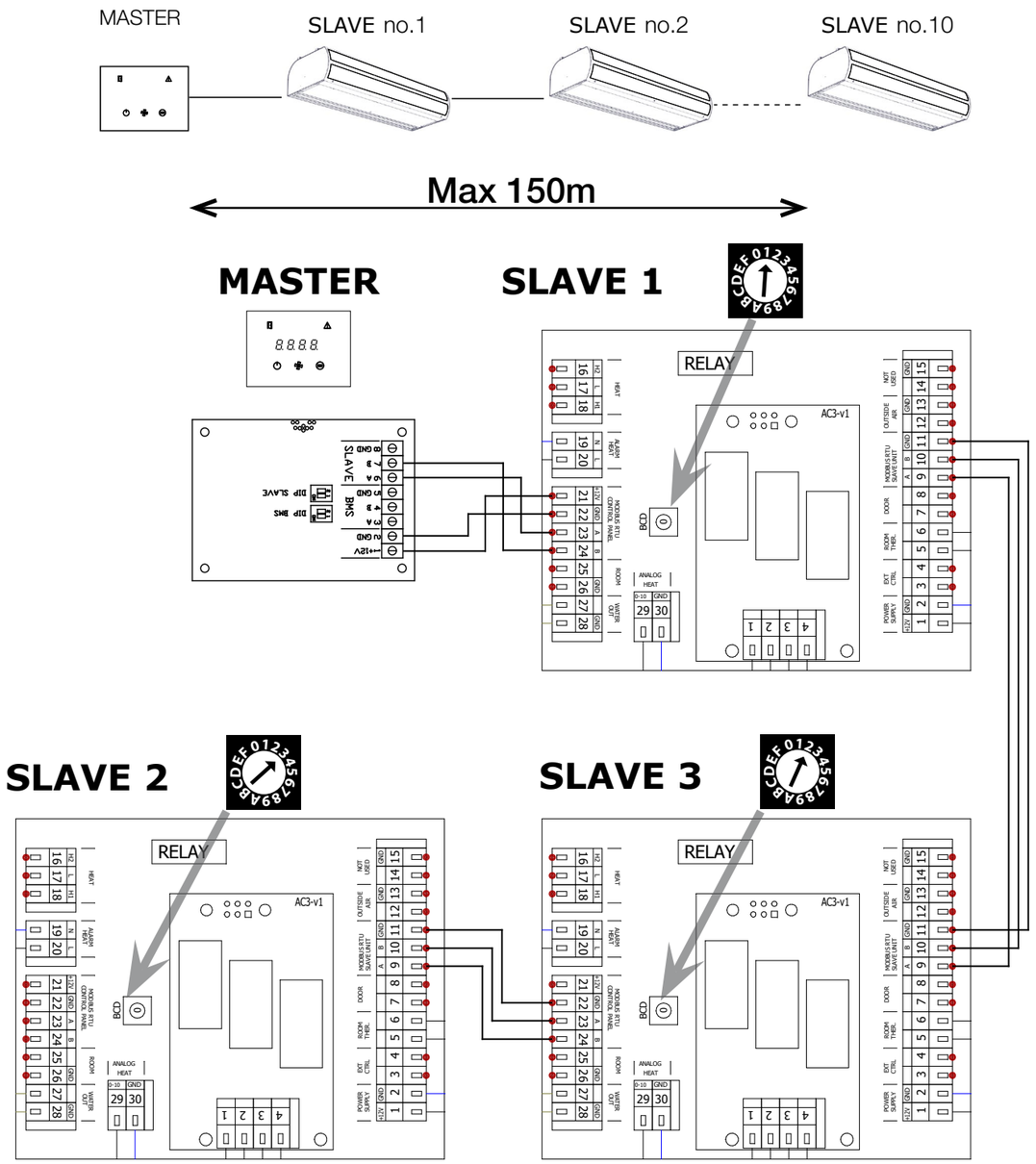
*For **NO/OFF water vlave control**, it is necessary to connect the jumper between GND and Tx

Enable ON/OFF valve and deactivate RUN/ ERROR

The default setting from the factory is without the jumper

Enable RUN/ERROR and deactivate ON/ OFF valve

WIRING DIAGRAMS



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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