

Product manual

Air curtains

GRAND CASSETE 5 - EC

Air distribution

Version 1.0.1
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GRAND CASSETE 5 - EC

- Lengths: 1; 1.5; 2; 2.5 m
- Airflow up to 6.600 m³/h (ISO 27 327-1)
- Integrated Prime or Basic controller
- Energy-efficient EC fans
- Low profile design 304 mm
- Low noise level
- Easy installation and service
- Standard colour RAL 9016 (any RAL – based colours may be provided on customer's request)

GRAND CASSETE-EC

Discrete and high-performance recessed air curtain for use in entrance areas of banks, administrative centres, luxury boutiques, shopping centres and airport halls with a recommended installation height up to 5 m.

The air curtain is equipped with a centrifugal fans, with an energy-efficient EC motors controlled via PWM. The fan motors incorporate maintenance-free ball bearings and thermal protection for enhanced durability. For heating options, the air curtain can be fitted with an LPHW coil or electric wire heater. Its exhaust nozzle is equipped with adjustable aluminium lamellas, allowing precise airflow direction against the door opening.

An integrated control system ensures efficient operation. BASIC simple power control or PRIME advanced control system that optimizes operation for interior comfort while minimizing energy costs.

The air curtain shall be installed indoor in a dry area with ambient temperatures ranging from 0 °C up to +40 °C and relative humidity of up to 80 %. It is designed for conveying air free of fine dust, grease, chemical fumes, and other impurities. IP rating of the air curtain is IP20. 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 | | | | | Acoustic pressure at 3m [dB(A)] *2 | | | | | Sound power [dB(A)] *3 | |
|----------------------|-------------------------------------|----------------------|------|------|------|------|------------------------------------|-----|-----|-----|-----|------------------------|----|
| | | 100% | 80% | 60% | 40% | 20% | 100% | 80% | 60% | 40% | 20% | | |
| GRAND-C5-40-10-N-EC | 4,0 | 1950 | 1850 | 1650 | 1400 | 1000 | 54 | 52 | 49 | 46 | 38 | 75 | |
| GRAND-C5-40-15-N-EC | | 3000 | 2800 | 2500 | 2150 | 1550 | 55 | 54 | 51 | 47 | 40 | 77 | |
| GRAND-C5-40-20-N-EC | | 4000 | 3750 | 3350 | 2850 | 2100 | 56 | 54 | 52 | 48 | 40 | 78 | |
| GRAND-C5-40-25-N-EC | | 4900 | 4550 | 4150 | 3500 | 2450 | 58 | 57 | 54 | 50 | 42 | 80 | |
| GRAND-C5-40-10-E1-EC | | 1950 | 1850 | 1650 | 1400 | 1000 | 54 | 52 | 49 | 46 | 38 | 75 | |
| GRAND-C5-40-15-E1-EC | | 3000 | 2800 | 2500 | 2150 | 1550 | 55 | 54 | 51 | 47 | 40 | 77 | |
| GRAND-C5-40-20-E1-EC | | 4000 | 3750 | 3350 | 2850 | 2100 | 56 | 54 | 52 | 48 | 40 | 78 | |
| GRAND-C5-40-25-E1-EC | | 4900 | 4550 | 4150 | 3500 | 2450 | 58 | 57 | 54 | 50 | 42 | 80 | |
| GRAND-C5-40-10-W2-EC | | 1900 | 1750 | 1550 | 1300 | 950 | 54 | 52 | 50 | 46 | 37 | 75 | |
| GRAND-C5-40-15-W2-EC | | 2900 | 2700 | 2400 | 2050 | 1450 | 55 | 53 | 50 | 47 | 39 | 76 | |
| GRAND-C5-40-20-W2-EC | | 3900 | 3650 | 3250 | 2750 | 2000 | 56 | 54 | 52 | 48 | 40 | 78 | |
| GRAND-C5-40-25-W2-EC | | 4750 | 4400 | 3950 | 3250 | 2400 | 58 | 56 | 53 | 49 | 41 | 80 | |
| GRAND-C5-50-10-N-EC | | 5,0 | 2800 | 2600 | 2400 | 2150 | 1750 | 58 | 56 | 54 | 51 | 45 | 79 |
| GRAND-C5-50-15-N-EC | | | 3850 | 3550 | 3200 | 2700 | 1950 | 58 | 57 | 54 | 49 | 42 | 80 |
| GRAND-C5-50-20-N-EC | 4900 | | 4600 | 4050 | 3450 | 2500 | 59 | 57 | 55 | 51 | 43 | 81 | |
| GRAND-C5-50-25-N-EC | 6600 | | 6300 | 5200 | 4400 | 3250 | 61 | 59 | 56 | 52 | 43 | 83 | |
| GRAND-C5-50-10-E1-EC | 2800 | | 2600 | 2400 | 2150 | 1750 | 58 | 56 | 54 | 51 | 45 | 79 | |
| GRAND-C5-50-15-E1-EC | 3850 | | 3550 | 3200 | 2700 | 1950 | 58 | 57 | 54 | 49 | 42 | 80 | |
| GRAND-C5-50-20-E1-EC | 4900 | | 4600 | 4050 | 3450 | 2500 | 59B | 57 | 55 | 51 | 43 | 81 | |
| GRAND-C5-50-25-E1-EC | 6600 | | 6300 | 5200 | 4400 | 3250 | 61 | 59 | 56 | 52 | 43 | 83 | |
| GRAND-C5-50-10-W2-EC | 2650 | | 2500 | 2300 | 2050 | 1650 | 57 | 55 | 53 | 50 | 45 | 78 | |
| GRAND-C5-50-15-W2-EC | 3750 | | 3500 | 3100 | 2600 | 1900 | 58 | 58 | 55 | 49 | 42 | 80 | |
| GRAND-C5-50-20-W2-EC | 4650 | | 4400 | 3800 | 3250 | 2300 | 58 | 56 | 54 | 50 | 42 | 80 | |
| GRAND-C5-50-25-W2-EC | 6400 | | 6100 | 5150 | 4300 | 3050 | 60 | 59 | 56 | 52 | 43 | 82 | |
| GRAND-C5-50-10-W6-EC | 2450 | | 2300 | 2100 | 1900 | 1500 | 56 | 56 | 53 | 50 | 47 | 78 | |
| GRAND-C5-50-15-W6-EC | 3300 | | 3200 | 2850 | 2400 | 1650 | 58 | 56 | 53 | 52 | 43 | 80 | |
| GRAND-C5-50-20-W6-EC | 4450 | 4150 | 3600 | 3050 | 2200 | 58 | 57 | 54 | 51 | 42 | 80 | | |
| GRAND-C5-50-25-W6-EC | 5900 | 5600 | 4750 | 4000 | 2800 | 59 | 59 | 56 | 50 | 43 | 81 | | |

*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

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 | 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] ⁴ | |
|----------------------|--------------------------|-------------------|------------------------|------------------------------|-------------------------------|--------------------------------------|----------------|--------------------------|-------|
| | 1st level | 2st level | | | | | | BASIC | PRIME |
| GRAND-C5-40-10-N-EC | - | - | 0,36 | 230/2,4 | 230/2,4 | - | 50/60 | 32 | 32 |
| GRAND-C5-40-15-N-EC | - | - | 0,54 | 230/3,5 | 230/3,5 | - | 50/60 | 43 | 43 |
| GRAND-C5-40-20-N-EC | - | - | 0,71 | 230/4,4 | 230/4,4 | - | 50/60 | 56 | 56 |
| GRAND-C5-40-25-N-EC | - | - | 0,85 | 230/5,4 | 230/5,4 | - | 50/60 | 65 | 65 |
| GRAND-C5-40-10-E1-EC | 4,6 | 9,4 | 9,77 | 400/16 | 230/2,4 | 14,7' | 50/60 | 36 | 38 |
| GRAND-C5-40-15-E1-EC | 7,6 | 15 | 15,54 | 400/25,2 | 230/3,5 | 16' | 50/60 | 47 | 49 |
| GRAND-C5-40-20-E1-EC | 9,8 | 19 | 19,71 | 400/31,9 | 230/4,4 | 14,9' | 50/60 | 63 | 65 |
| GRAND-C5-40-25-E1-EC | 12,5 | 24,5 | 25,35 | 400/40,8 | 230/5,4 | 15,5' | 50/60 | 75 | 77 |
| GRAND-C5-40-10-W2-EC | | 22,8 ² | 0,35 | 230/2,4 | 230/2,4 | 35 ² | 50/60 | 36 | 36 |
| GRAND-C5-40-15-W2-EC | | 35,0 ² | 0,52 | 230/3,3 | 230/3,3 | 36 ² | 50/60 | 47 | 47 |
| GRAND-C5-40-20-W2-EC | | 47,2 ² | 0,73 | 230/4,3 | 230/4,3 | 36 ² | 50/60 | 63 | 63 |
| GRAND-C5-40-25-W2-EC | | 58,0 ² | 0,84 | 230/5,3 | 230/5,3 | 36 ² | 50/60 | 76 | 76 |
| GRAND-C5-50-10-N-EC | - | - | 0,55 | 230/3,5 | 230/3,5 | - | 50/60 | 35 | 35 |
| GRAND-C5-50-15-N-EC | - | - | 0,72 | 230/4,4 | 230/4,4 | - | 50/60 | 45 | 45 |
| GRAND-C5-50-20-N-EC | - | - | 0,90 | 230/5,3 | 230/5,3 | - | 50/60 | 60 | 60 |
| GRAND-C5-50-25-N-EC | - | - | 1,20 | 230/7,3 | 230/7,3 | - | 50/60 | 69 | 69 |
| GRAND-C5-50-10-E1-EC | 4,6 | 9,4 | 9,96 | 400/17 | 230/3,5 | 11,6' | 50/60 | 38 | 40 |
| GRAND-C5-50-15-E1-EC | 7,6 | 15 | 15,72 | 400/26 | 230/4,4 | 12,3' | 50/60 | 50 | 52 |
| GRAND-C5-50-20-E1-EC | 9,8 | 19 | 19,90 | 400/32 | 230/5,3 | 10' | 50/60 | 67 | 69 |
| GRAND-C5-50-25-E1-EC | 12,5 | 24,5 | 25,7 | 400/42 | 230/7,3 | 11,4' | 50/60 | 79 | 81 |
| GRAND-C5-50-10-W2-EC | | 22,8 ² | 0,53 | 230/3,5 | 230/3,5 | 31 ² | 50/60 | 38 | 38 |
| GRAND-C5-50-15-W2-EC | | 35,0 ² | 0,71 | 230/4,2 | 230/4,2 | 32 ² | 50/60 | 50 | 50 |
| GRAND-C5-50-20-W2-EC | | 47,2 ² | 0,90 | 230/5,4 | 230/5,4 | 33 ² | 50/60 | 67 | 67 |
| GRAND-C5-50-25-W2-EC | | 58,0 ² | 1,20 | 230/7,3 | 230/7,3 | 36 ² | 50/60 | 80 | 80 |
| GRAND-C5-50-10-W6-EC | | 13,2 ³ | 0,53 | 230/3,4 | 230/3,4 | 16 ³ | 50/60 | 43 | 43 |
| GRAND-C5-50-15-W6-EC | | 18,7 ³ | 0,71 | 230/4,4 | 230/4,4 | 17 ³ | 50/60 | 60 | 60 |
| GRAND-C5-50-20-W6-EC | | 24,9 ³ | 0,85 | 230/5,3 | 230/5,3 | 17 ³ | 50/60 | 79 | 79 |
| GRAND-C5-50-25-W6-EC | | 32,9 ³ | 1,18 | 230/7,3 | 230/7,3 | 17 ³ | 50/60 | 97 | 97 |

¹ 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 with control BASIC / PRIME.

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PRODUCT OVERVIEW

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

| Type | Air output [m³/h] | Heating output [kW] | Temperature at exhaust [°C] | Water flow [l/s] | Pressure loss [kPa] |
|----------------------|-------------------|---------------------|-----------------------------|------------------|---------------------|
| GRAND-C5-40-10-W2-EC | 1900 | 22,8 | 53,5 | 0,28 | 11,6 |
| GRAND-C5-40-15-W2-EC | 2900 | 35,0 | 53,7 | 0,43 | 12,1 |
| GRAND-C5-40-20-W2-EC | 3900 | 47,2 | 53,8 | 0,58 | 14,0 |
| GRAND-C5-40-25-W2-EC | 4750 | 58,0 | 54,1 | 0,71 | 22,0 |
| GRAND-C5-50-10-W2-EC | 2650 | 27,6 | 48,8 | 0,34 | 16,5 |
| GRAND-C5-50-15-W2-EC | 3750 | 40,6 | 50,0 | 0,50 | 16,0 |
| GRAND-C5-50-20-W2-EC | 4650 | 52,3 | 51,3 | 0,64 | 17,0 |
| GRAND-C5-50-25-W2-EC | 6400 | 68,8 | 49,8 | 0,85 | 30,5 |

* Temperature of intake air: +18 °C

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

| Type | Air output [m³/h] | Heating output [kW] | Temperature at exhaust [°C] | Water flow [l/s] | Pressure loss [kPa] |
|----------------------|-------------------|---------------------|-----------------------------|------------------|---------------------|
| GRAND-C5-40-10-W2-EC | 1900 | 18,6 | 47,0 | 0,23 | 8,1 |
| GRAND-C5-40-15-W2-EC | 2900 | 28,6 | 47,2 | 0,35 | 8,4 |
| GRAND-C5-40-20-W2-EC | 3900 | 38,6 | 47,3 | 0,47 | 9,7 |
| GRAND-C5-40-25-W2-EC | 4750 | 47,6 | 47,7 | 0,58 | 15,4 |
| GRAND-C5-50-10-W2-EC | 2650 | 22,4 | 43,1 | 0,28 | 11,4 |
| GRAND-C5-50-15-W2-EC | 3750 | 33,1 | 44,1 | 0,41 | 11,1 |
| GRAND-C5-50-20-W2-EC | 4650 | 42,7 | 45,2 | 0,53 | 11,7 |
| GRAND-C5-50-25-W2-EC | 6400 | 56,3 | 44,1 | 0,69 | 21,1 |

* Temperature of intake air: +18 °C

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

| Type | Air output [m³/h] | Heating output [kW] | Temperature at exhaust [°C] | Water flow [l/s] | Pressure loss [kPa] |
|----------------------|-------------------|---------------------|-----------------------------|------------------|---------------------|
| GRAND-C5-40-10-W2-EC | 1900 | 14,4 | 40,4 | 0,18 | 5,1 |
| GRAND-C5-40-15-W2-EC | 2900 | 22,2 | 40,6 | 0,27 | 5,3 |
| GRAND-C5-40-20-W2-EC | 3900 | 29,9 | 40,7 | 0,36 | 6,1 |
| GRAND-C5-40-25-W2-EC | 4750 | 37,1 | 41,2 | 0,45 | 9,8 |
| GRAND-C5-50-10-W2-EC | 2650 | 17,3 | 37,3 | 0,21 | 7,1 |
| GRAND-C5-50-15-W2-EC | 3750 | 25,5 | 38,2 | 0,31 | 6,9 |
| GRAND-C5-50-20-W2-EC | 4650 | 33,0 | 39,0 | 0,40 | 7,3 |
| GRAND-C5-50-25-W2-EC | 6400 | 43,8 | 38,3 | 0,54 | 13,4 |

* Temperature of intake air: +18 °C

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

| Type | Air output [m³/h] | Heating output [kW] | Temperature at exhaust [°C] | Water flow [l/s] | Pressure loss [kPa] |
|----------------------|-------------------|---------------------|-----------------------------|------------------|---------------------|
| GRAND-C5-40-10-W2-EC | 1900 | 10,1 | 33,8 | 0,12 | 2,7 |
| GRAND-C5-40-15-W2-EC | 2900 | 15,6 | 33,9 | 0,19 | 2,8 |
| GRAND-C5-40-20-W2-EC | 3900 | 21,1 | 34,0 | 0,26 | 3,2 |
| GRAND-C5-40-25-W2-EC | 4750 | 26,5 | 34,5 | 0,32 | 5,3 |
| GRAND-C5-50-10-W2-EC | 2650 | 12,1 | 31,5 | 0,15 | 3,7 |
| GRAND-C5-50-15-W2-EC | 3750 | 17,9 | 32,1 | 0,22 | 3,6 |
| GRAND-C5-50-20-W2-EC | 4650 | 23,2 | 32,8 | 0,28 | 3,8 |
| GRAND-C5-50-25-W2-EC | 6400 | 31,1 | 32,4 | 0,38 | 7,2 |

* Temperature of intake air: +18 °C

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PRODUCT OVERVIEW

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

| Type | Air output [m³/h] | Heating output [kW] | Temperature at exhaust [°C] | Water flow [l/s] | Pressure loss [kPa] |
|----------------------|-------------------|---------------------|-----------------------------|------------------|---------------------|
| GRAND-C5-50-10-W6-EC | 2450 | 13,2 | 34,0 | 0,32 | 13,9 |
| GRAND-C5-50-15-W6-EC | 3300 | 18,7 | 34,8 | 0,45 | 15,9 |
| GRAND-C5-50-20-W6-EC | 4450 | 24,9 | 34,6 | 0,60 | 14,1 |
| GRAND-C5-50-25-W6-EC | 5900 | 32,9 | 34,5 | 0,79 | 25,7 |

* Temperature of intake air: +18 °C

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

| Type | Air output [m³/h] | Heating output [kW] | Temperature at exhaust [°C] | Water flow [l/s] | Pressure loss [kPa] |
|----------------------|-------------------|---------------------|-----------------------------|------------------|---------------------|
| GRAND-C5-50-10-W6-EC | 2450 | 8,9 | 28,8 | 0,21 | 6,9 |
| GRAND-C5-50-15-W6-EC | 3300 | 12,8 | 29,5 | 0,31 | 8,1 |
| GRAND-C5-50-20-W6-EC | 4450 | 16,9 | 29,3 | 0,41 | 7,0 |
| GRAND-C5-50-25-W6-EC | 5900 | 22,5 | 29,3 | 0,54 | 12,9 |

* Temperature of intake air: +18 °C

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Recommended mixing points for coil LPHW 3-way valve

| Type | Control module | 90/70 °C | 80/60 °C | 70/50 °C | 60/40 °C |
|----------------------|------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| | | 3-way valve | | | |
| GRAND-C5-40-10-W2-EC | BASIC / PRIME (ON/OFF) | ZV3-230-04,0-20 RT-3-07 | ZV3-230-04,0-20 RT-3-07 | ZV3-230-04,0-20 RT-3-07 | ZV3-230-04,0-20 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-C5-40-15-W2-EC | BASIC / PRIME (ON/OFF) | ZV3-230-04,0-20 RT-3-07 | ZV3-230-04,0-20 RT-3-07 | ZV3-230-04,0-20 RT-3-07 | ZV3-230-04,0-20 RT-3-07 |
| | PRIME | ZV3-024-04,0-20 | ZV3-024-04,0-20 | ZV3-024-04,0-20 | ZV3-024-04,0-20 |
| GRAND-C5-40-20-W2-EC | BASIC / PRIME (ON/OFF) | ZV3-230-21,0-20 RT-3-07 | ZV3-230-21,0-20 RT-3-07 | ZV3-230-21,0-20 RT-3-07 | ZV3-230-21,0-20 RT-3-07 |
| | PRIME | ZV3-024-06,3-20 | ZV3-024-06,3-20 | ZV3-024-06,3-20 | ZV3-024-06,3-20 |
| GRAND-C5-40-25-W2-EC | BASIC / PRIME (ON/OFF) | ZV3-230-21,0-20 RT-3-07 | ZV3-230-21,0-20 RT-3-07 | ZV3-230-21,0-20 RT-3-07 | ZV3-230-21,0-20 RT-3-07 |
| | PRIME | ZV3-024-06,3-20 | ZV3-024-06,3-20 | ZV3-024-06,3-20 | ZV3-024-06,3-20 |
| GRAND-C5-50-10-W2-EC | BASIC / PRIME (ON/OFF) | ZV3-230-04,0-20 RT-3-07 | ZV3-230-04,0-20 RT-3-07 | ZV3-230-04,0-20 RT-3-07 | ZV3-230-04,0-20 RT-3-07 |
| | PRIME | ZV3-024-04,0-20 | ZV3-024-04,0-20 | ZV3-024-04,0-20 | ZV3-024-04,0-20 |
| GRAND-C5-50-15-W2-EC | BASIC / PRIME (ON/OFF) | ZV3-230-04,0-20 RT-3-07 | ZV3-230-04,0-20 RT-3-07 | ZV3-230-04,0-20 RT-3-07 | ZV3-230-04,0-20 RT-3-07 |
| | PRIME | ZV3-024-04,0-20 | ZV3-024-04,0-20 | ZV3-024-04,0-20 | ZV3-024-04,0-20 |
| GRAND-C5-50-20-W2-EC | BASIC / PRIME (ON/OFF) | ZV3-230-21,0-20 RT-3-07 | ZV3-230-21,0-20 RT-3-07 | ZV3-230-21,0-20 RT-3-07 | ZV3-230-21,0-20 RT-3-07 |
| | PRIME | ZV3-024-06,3-20 | ZV3-024-06,3-20 | ZV3-024-06,3-20 | ZV3-024-06,3-20 |
| GRAND-C5-50-25-W2-EC | BASIC / PRIME (ON/OFF) | ZV3-230-21,0-20 RT-3-07 | ZV3-230-21,0-20 RT-3-07 | ZV3-230-21,0-20 RT-3-07 | ZV3-230-21,0-20 RT-3-07 |
| | PRIME | ZV3-024-06,3-20 | ZV3-024-06,3-20 | ZV3-024-06,3-20 | ZV3-024-06,3-20 |

| Type | Control module | 40/30 °C | 35/25 °C |
|----------------------|------------------------|----------------------------|----------------------------|
| | | 3-way valve | |
| GRAND-C5-50-10-W6-EC | BASIC / PRIME (ON/OFF) | ZV3-230-04,0-20 RT-3-07 | ZV3-230-04,0-20 RT-3-07 |
| | PRIME | ZV3-024-04,0-20 | ZV3-024-04,0-20 |
| GRAND-C5-50-15-W6-EC | BASIC / PRIME (ON/OFF) | ZV3-230-04,0-20 RT-3-07 | ZV3-230-04,0-20 RT-3-07 |
| | PRIME | ZV3-024-04,0-20 | ZV3-024-04,0-20 |
| GRAND-C5-50-20-W6-EC | BASIC / PRIME (ON/OFF) | ZV3-230-04,0-20 RT-3-07 | ZV3-230-04,0-20 RT-3-07 |
| | PRIME | ZV3-024-06,3-20 | ZV3-024-06,3-20 |
| GRAND-C5-50-25-W6-EC | BASIC / PRIME (ON/OFF) | ZV3-230-21,0-20 RT-3-07 | ZV3-230-04,0-20 RT-3-07 |
| | PRIME | ZV3-024-06,3-20 | ZV3-024-06,3-20 |








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Recommended mixing points for coil LPHW 2-way valve

| Type | Control module | 90/70 °C | 80/60 °C | 70/50 °C | 60/40 °C |
|----------------------|------------------------|-----------------|-----------------|-----------------|-----------------|
| | | 2-way valve | | | |
| GRAND-C5-40-10-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 | ZV2-024-08,0-20 | ZV2-024-08,0-20 | ZV2-024-08,0-20 | ZV2-024-08,0-20 |
| GRAND-C5-40-15-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 | ZV2-024-08,0-20 | ZV2-024-08,0-20 | ZV2-024-08,0-20 | ZV2-024-08,0-20 |
| GRAND-C5-40-20-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 | ZV2-024-08,0-20 | ZV2-024-08,0-20 | ZV2-024-08,0-20 | ZV2-024-08,0-20 |
| GRAND-C5-40-25-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 | ZV2-024-08,0-20 | ZV2-024-08,0-20 | ZV2-024-08,0-20 | ZV2-024-08,0-20 |
| GRAND-C5-50-10-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 | ZV2-024-08,0-20 | ZV2-024-08,0-20 | ZV2-024-08,0-20 | ZV2-024-08,0-20 |
| GRAND-C5-50-15-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 | ZV2-024-08,0-20 | ZV2-024-08,0-20 | ZV2-024-08,0-20 | ZV2-024-08,0-20 |
| GRAND-C5-50-20-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 | ZV2-024-08,0-20 | ZV2-024-08,0-20 | ZV2-024-08,0-20 | ZV2-024-08,0-20 |
| GRAND-C5-50-25-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 | ZV2-024-08,0-20 | ZV2-024-08,0-20 | ZV2-024-08,0-20 | ZV2-024-08,0-20 |

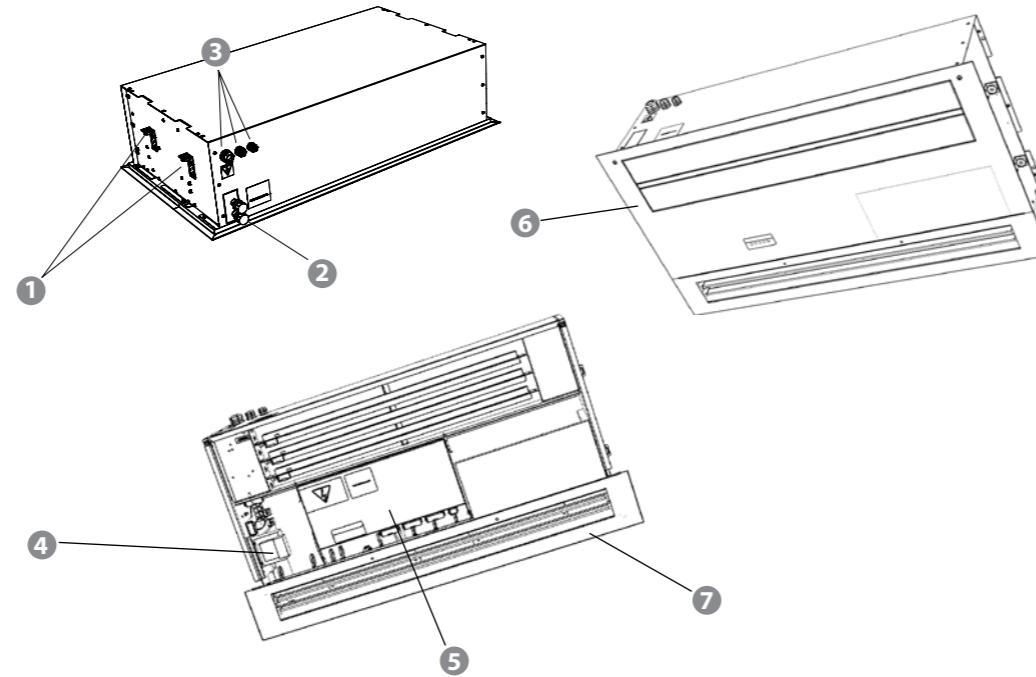
| Type | Control module | 40/30 °C | 35/25 °C |
|----------------------|------------------------|-----------------|-----------------|
| | | 2-way valve | |
| GRAND-C5-50-10-W6-EC | BASIC / PRIME (ON/OFF) | ZV2-230-08,0-20 | ZV2-230-08,0-20 |
| | PRIME | ZV2-024-08,0-20 | ZV2-024-08,0-20 |
| GRAND-C5-50-15-W6-EC | BASIC / PRIME (ON/OFF) | ZV2-230-08,0-20 | ZV2-230-08,0-20 |
| | PRIME | ZV2-024-08,0-20 | ZV2-024-08,0-20 |
| GRAND-C5-50-20-W6-EC | BASIC / PRIME (ON/OFF) | ZV2-230-08,0-20 | ZV2-230-08,0-20 |
| | PRIME | ZV2-024-08,0-20 | ZV2-024-08,0-20 |
| GRAND-C5-50-25-W6-EC | BASIC / PRIME (ON/OFF) | ZV2-230-08,0-20 | ZV2-230-08,0-20 |
| | PRIME | ZV2-024-08,0-20 | ZV2-024-08,0-20 |

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-  Accessories
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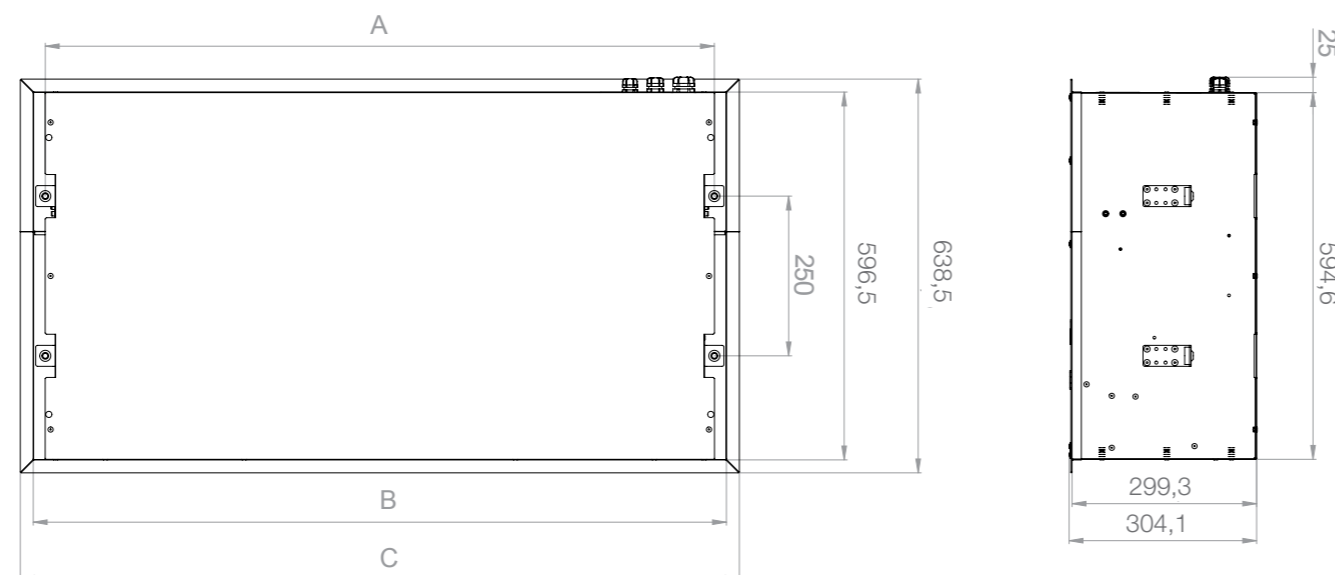
PRODUCT OVERVIEW

MAIN PARTS

- 1 Suspension holders
- 2 Water coil connection 3/4"
- 3 Power supply cable plug
- 4 Power supply connectors and fuse location
- 5 Control modul socket
- 6 Inlet face cover
- 7 Outlet grid



Air curtain dimensions



| Type | A [mm] | B [mm] | C [mm] |
|---------------------|--------|--------|--------|
| GRAND-C5-...-10-... | 1085 | 1124 | 1166 |
| GRAND-C5-...-15-... | 1585 | 1624 | 1666 |
| GRAND-C5-...-20-... | 2085 | 2124 | 2166 |
| GRAND-C5-...-25-... | 2465 | 2504 | 2546 |

The tube diameters for connecting the LPHW coil are G3/4".

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ORDERING KEY

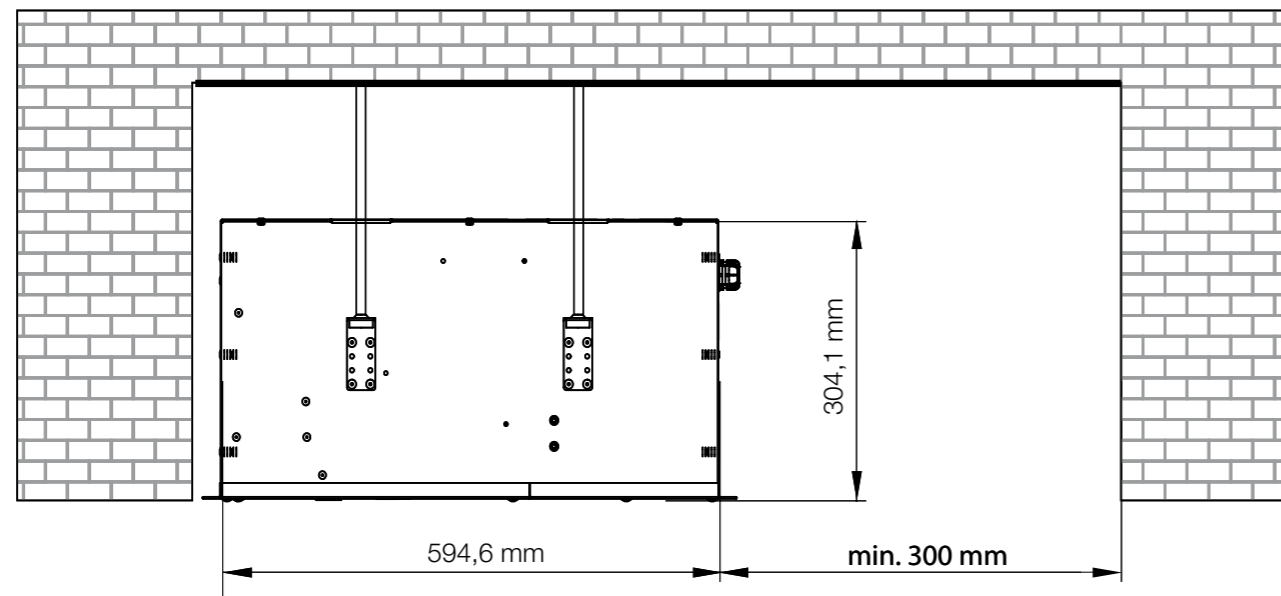
AIR CURTAINS

ORDERING KEY

| (1) Air curtain | (2) Installation height | (3) Curtain type | (4) Type of heater | (5) Fan motor type | (6) Controller | (7) Finish |
|---|--|---|---|---|---|---|
| GRAND-C5 | - | 40 | - | 10 | - | W2 |
| (1) Air curtain: GRAND CASSETTE 5 | (2) Recommended installation height: 40 - 4m installation height 50 - 5m installation height | (3) Curtain type: 10 - Length 1,16 m 15 - Length 1,66 m 20 - Length 2,16 m 25 - Length 2,54 m | (4) Type of heater: E1 - with electric heater regulation W2 - Water heating 2row coil W6 - Water heating 6row coil (only EC with 5m instalation hight) N - without heating regulation | (5) Fan motor type: EC - EC motor | (6) Controller: BA - BASIC control integrated PR - PRIME MASTER control panel integrated PS - PRIME SLAVE without control panel | (7) Finish: 0 - Standard RAL - 9016 9 - Any other RAL |

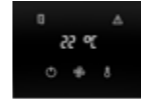
INSTALLATION AND ASSEMBLY

- 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.
- The air curtain shall be installed indoor in a dry area with ambient temperatures ranging from 0 °C up to +40 °C and relative humidity of up to 80 %.
- Position of the heating water and power supply connections and service 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.






















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INSTALLATION



CONTROL

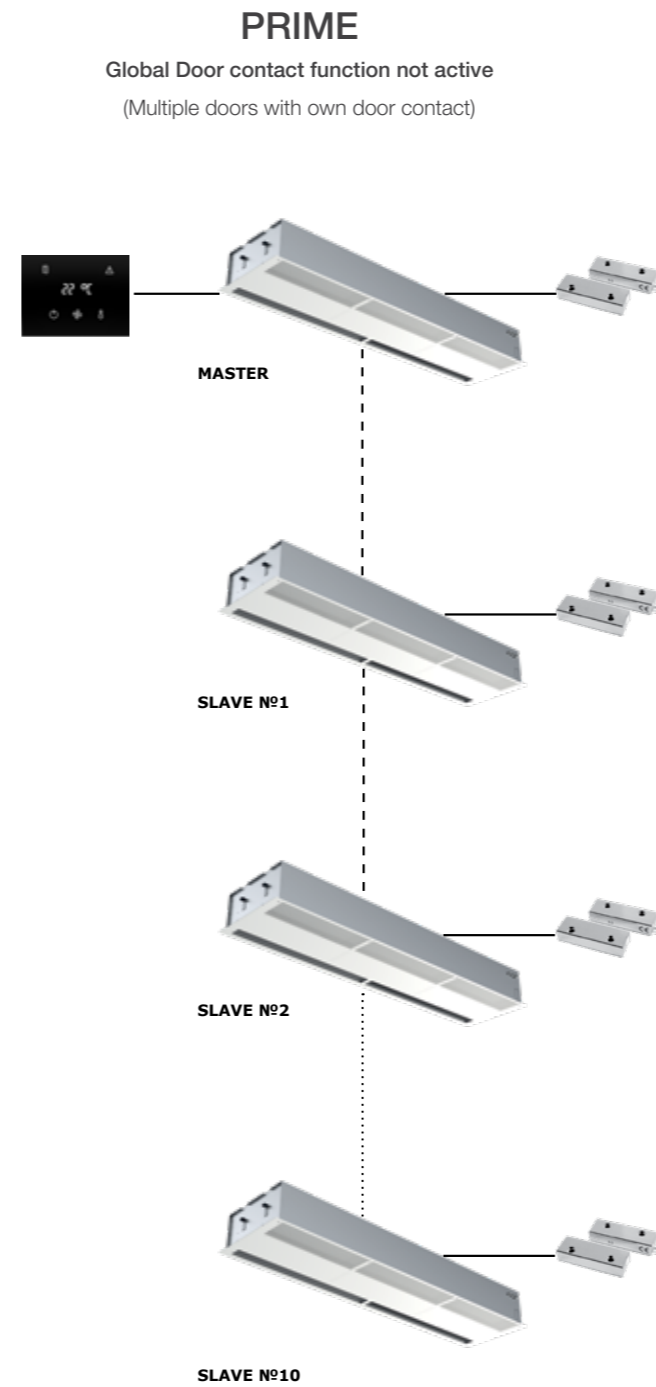
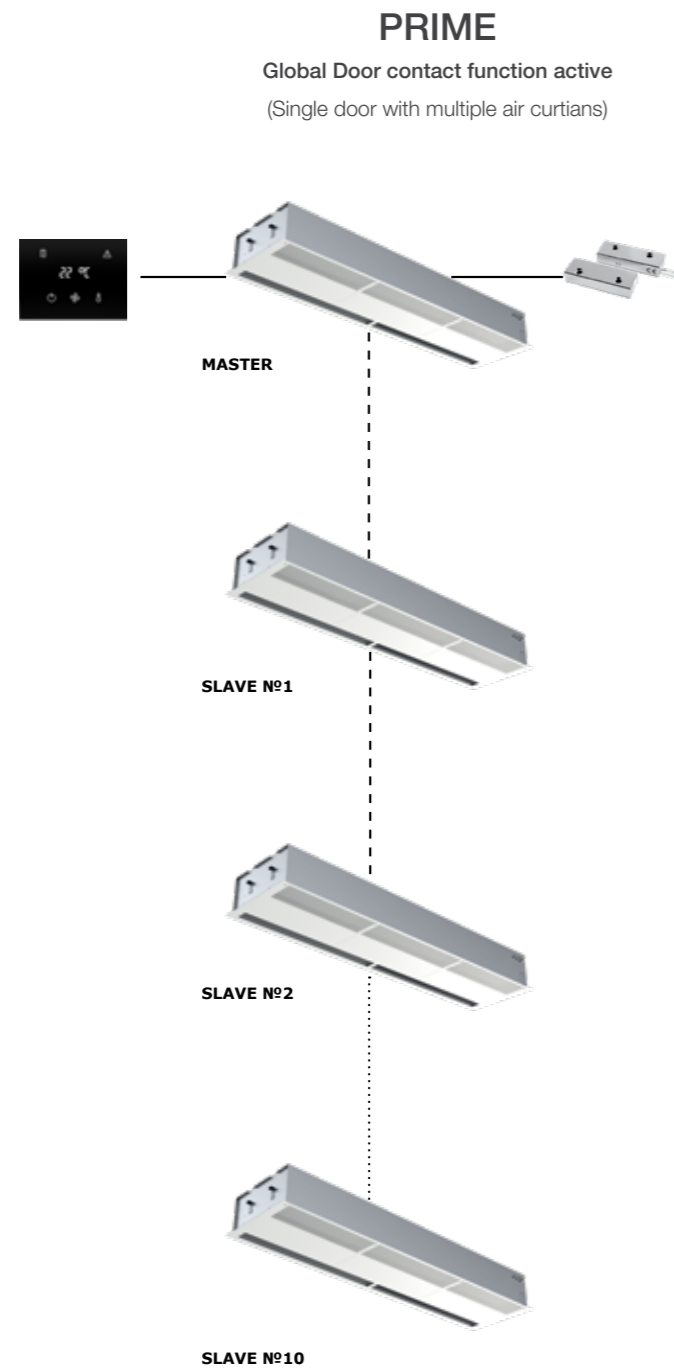
Overview of functions and sensor connections

| AirGENIO control | PRIME | BASIC |
|---|---|-----------------|
|  Control type | 7-segment display with 3 capacity buttons | Manual switch |
|  Mode | Manual / Auto | Manual |
|  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 |

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CONTROL

CHAINING EXAMPLE



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CONTROL

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 BASIC and PRIME control)



3-way valve with servo drive RT
RT-3-07 (KVS 07)
(for BASIC and PRIME control)



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



Room thermostat
TER-P
(for BASIC control)



Room temperature sensor for wall installation
CT-ROOM
(for PRIME control)



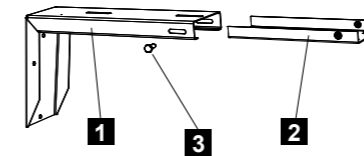
Flexible connection hoses (G 3/4),
length 500 mm
OH-02-3-4-500



Wall mounting bracket

Bracket designed for mounting the air curtain to the wall.

- 1 Bracket
- 2 Hanging strip
- 3 Securing screw



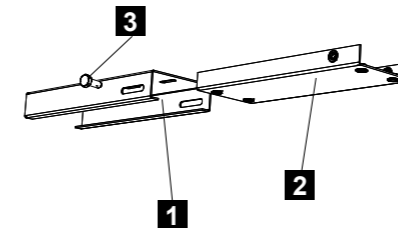
VCS4-KONZ-STE

- 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.

Granc-C-EXIT



Mechanical door switch (230V)

DS



Magnetic door contact (12V)

In a metal housing with higher protection against mechanical damage

(for BASIC EC and PRIME control)

DK-B-3



Filter coarse 30% (G1)

(for ambient and water version only)

for type 10; G1-GRAND-C5-10

for type 15; G1-GRAND-C5-15

for type 20; G1-GRAND-C5-20

for type 25; G1-GRAND-C5-25



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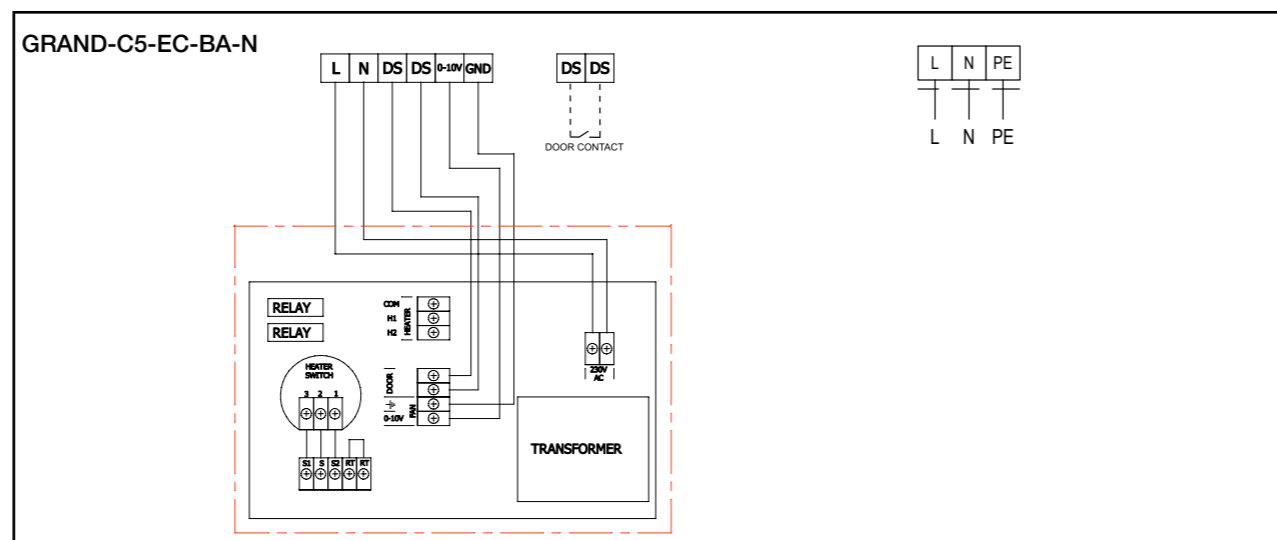
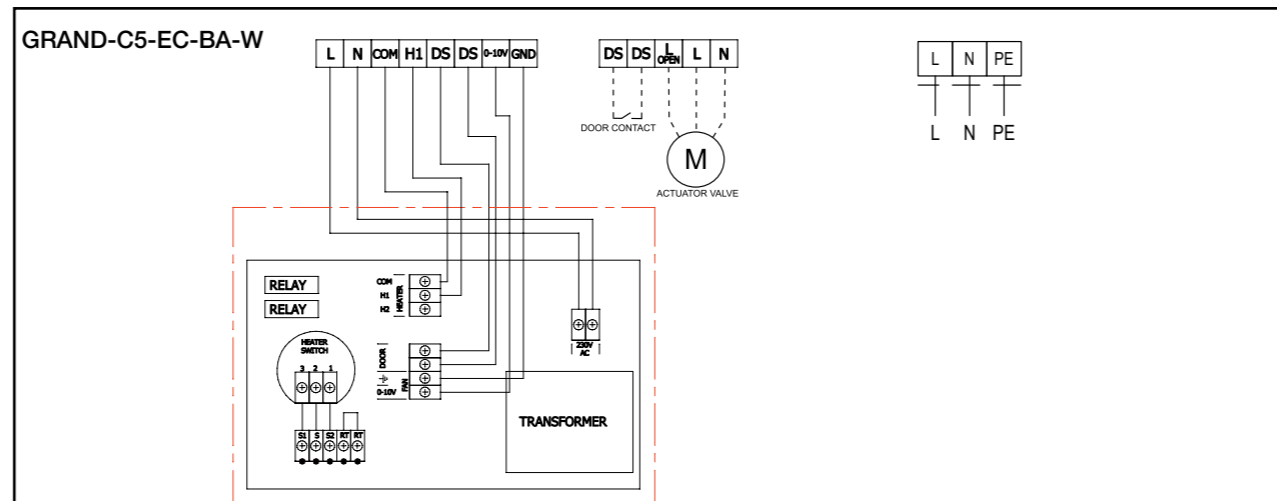
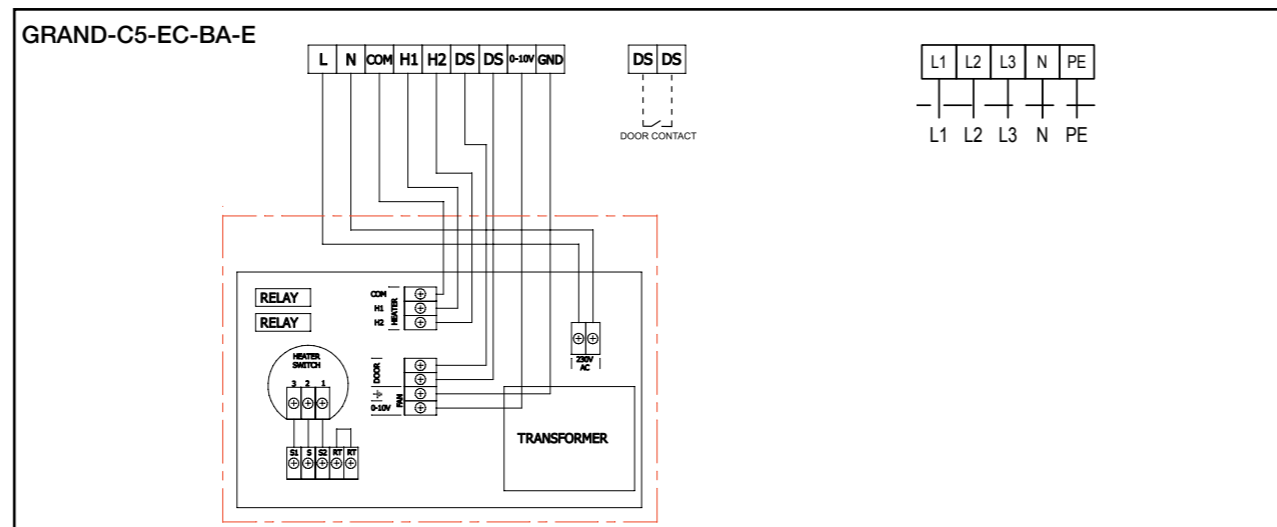
ACCESSORIES

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.

AirGENIO BASIC

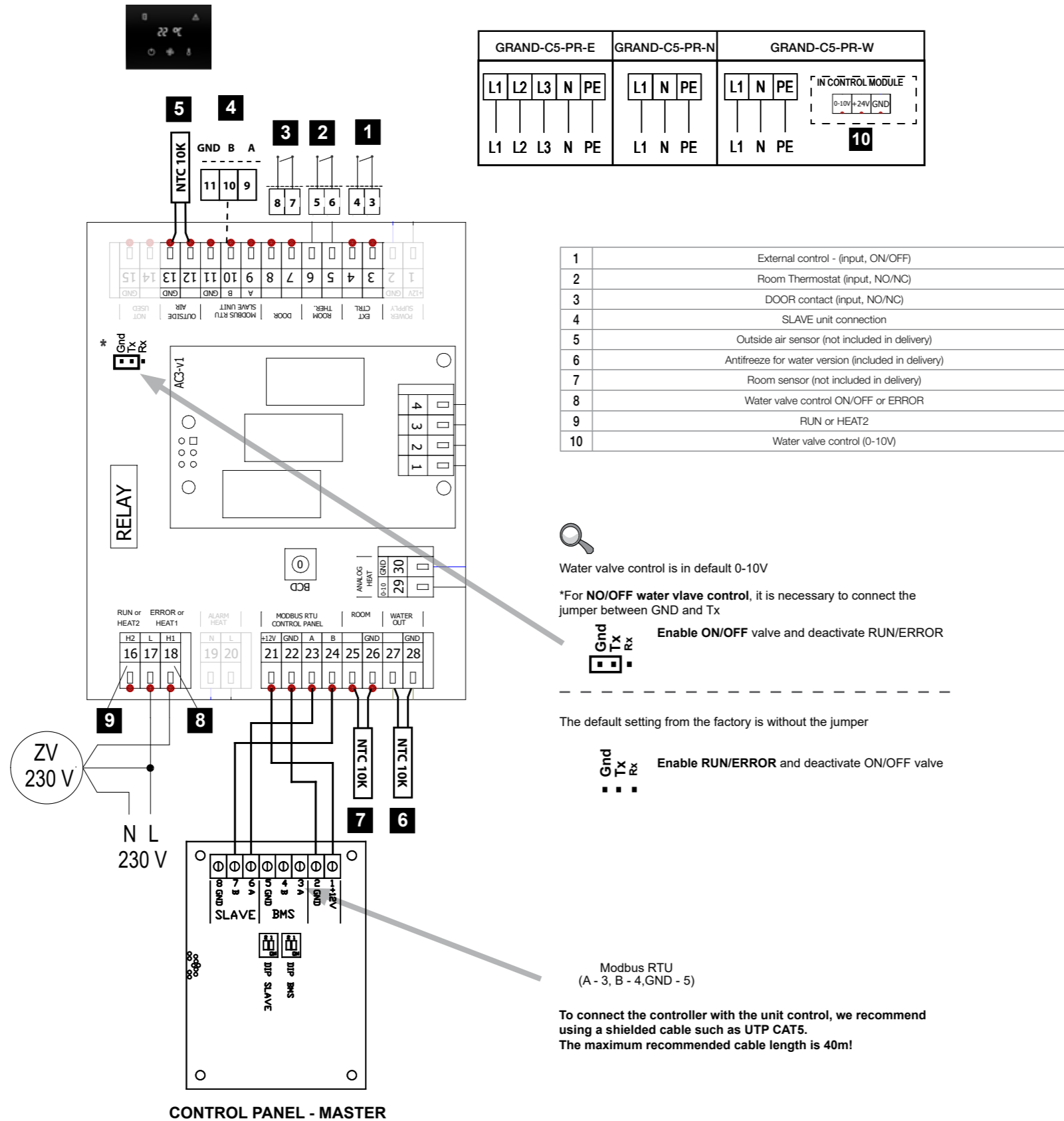


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DIAGRAMS

WIRING DIAGRAMS

AirGENIO PRIME AC/EC MASTER

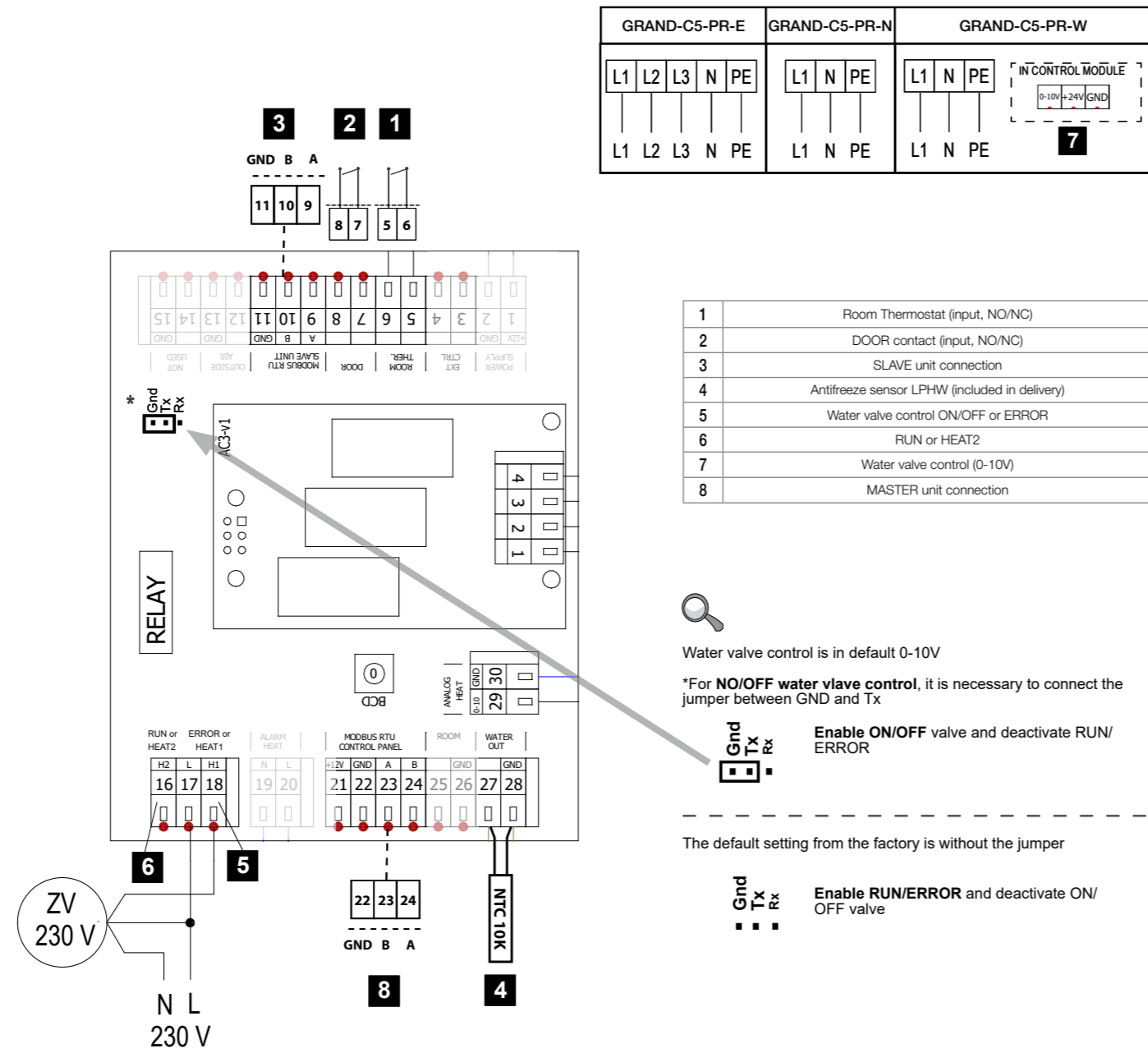


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DIAGRAMS

WIRING DIAGRAMS

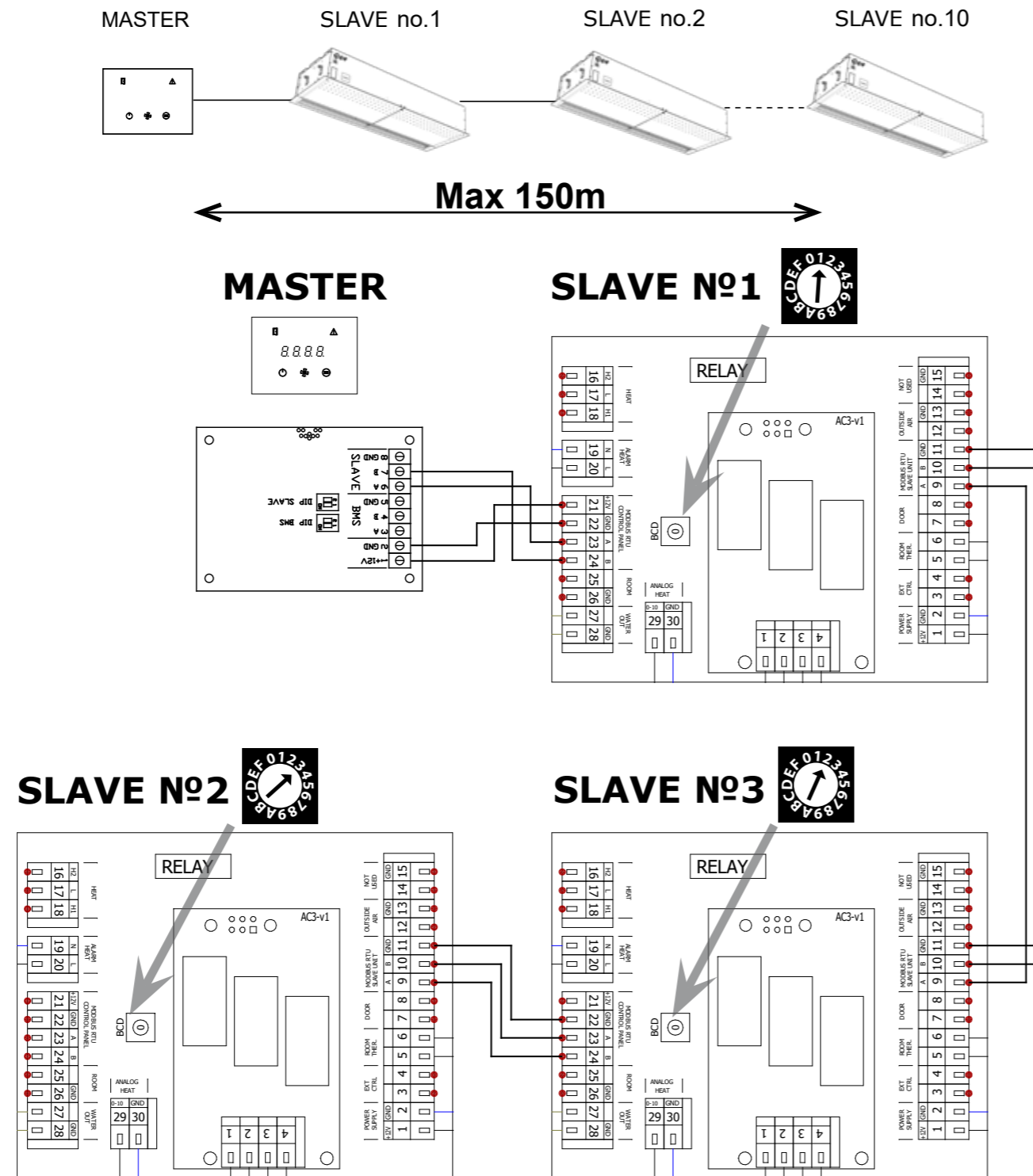
AirGENIO PRIME AC/EC SLAVE



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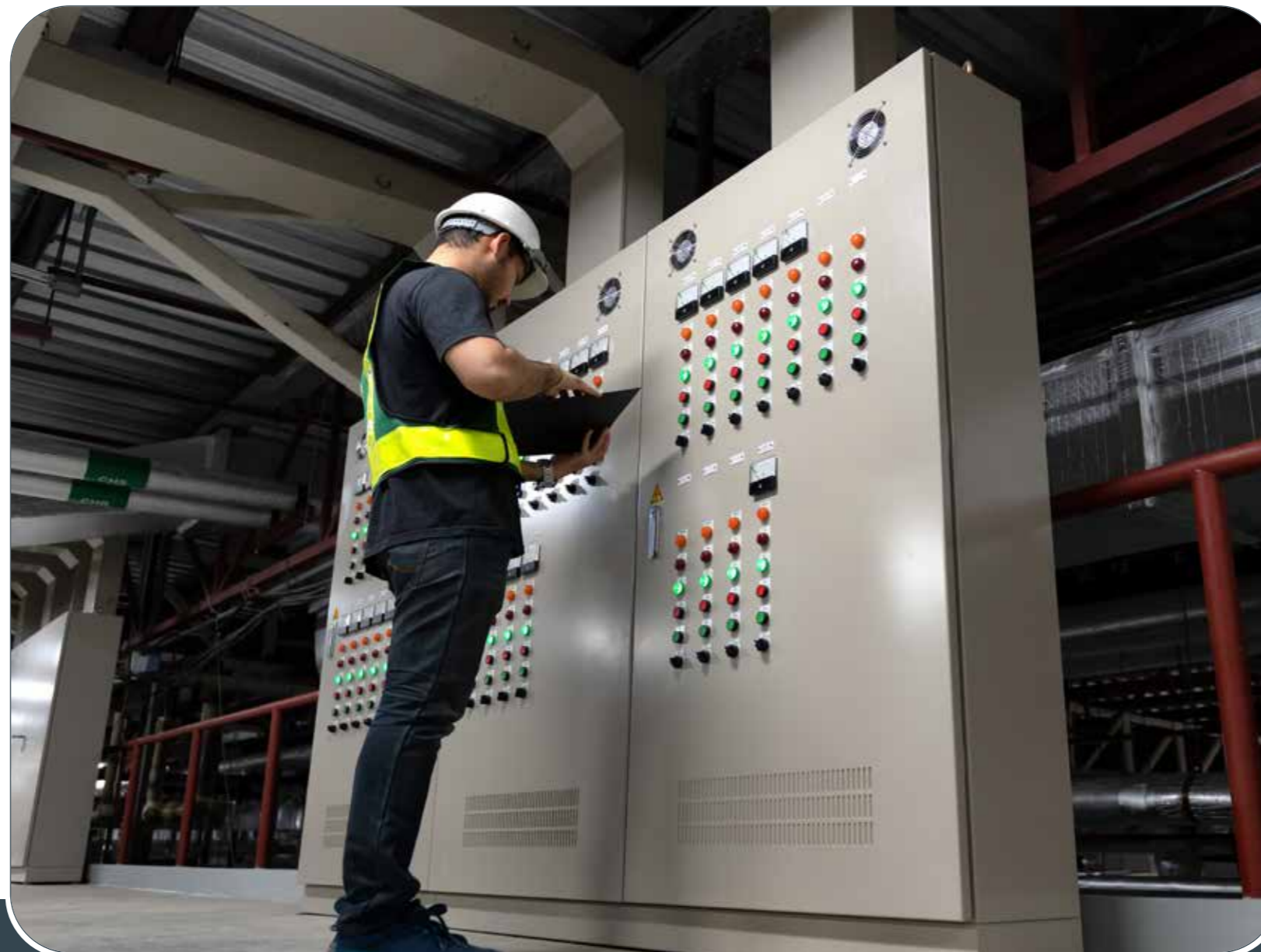
DIAGRAMS

WIRING DIAGRAMS



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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

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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-  info@klimaoprema.com
-  www.klimaoprema.com