

BASIC FEATURES

Anticorrosive highly efficient heating units with a casing made from stainless steel in protection class C5. They are designed for aggressive environment in buildings such as livestock farms, car washers, swimming pools, bakeries and similar facilities.

- 3 sizes with airflows of 2600 - 7000 m³/h
- 2-row LPHW coils with protective LCE epoxy coating
- Stainless steel **casing C5**
- Standard EC fans with IP54 without C5 protection
- Adjustable cut-out lamellas
- Easy installation and maintenance
- Air filter with a simple access (optional accessory)

The heating unit is designed for indoor installation with ambient temperatures from +5 to 35 °C and relative humidity up to 90%. It is intended for transportation of the air without coarse particles of dust and grease. Unit's resistance against coarser dust particles may be increased by filter. The shell of the unit is made from stainless steel of the resistance class C5, also the connecting material used has the same resistance. The LPHW coil is protected by LCE epoxy coating. The IP rating of the electric system of the complete heating unit is IP54.

Primary parameters

Type	Air flow [m ³ /h]	Voltage [V/Hz]	Current [A]	Power consumption [W]	Noise** [dB(A)]	Weight*** [kg]	Outer diameter of the water exchanger connection [mm]
OHSA3-200-V2	2600	230-50/60	1,5	180	45,6	22	22
OHSA3-400-V2	4700		1,4	320	51,4	35	28
OHSA3-600-V2	7000		2,6	630	58,4	46	28

* The airflow reach is equal to the distance where the air speed is 0,5m/s

** Sound pressure measured 5m from the heating unit outlet (Q=2)

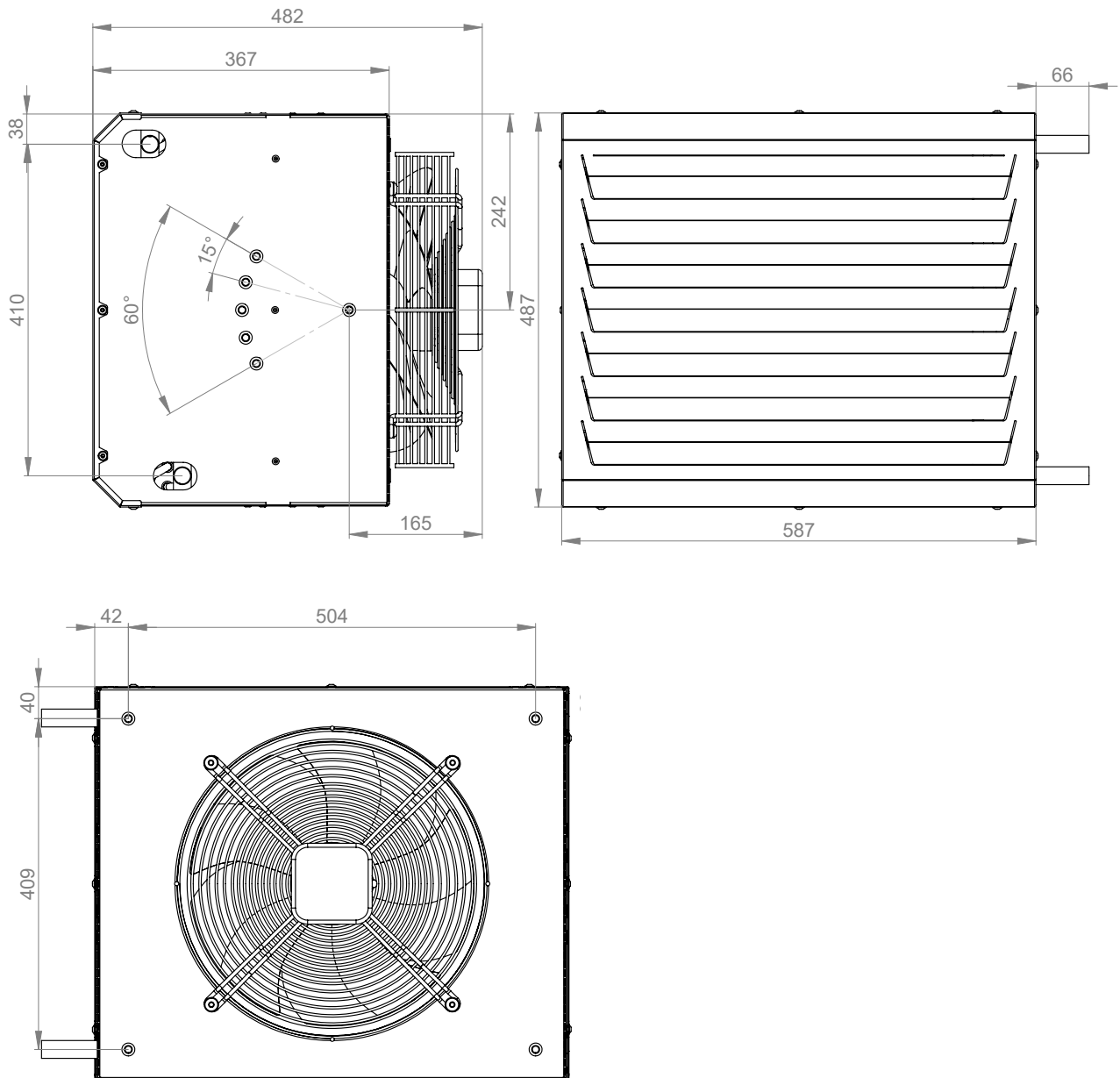
*** Weight with basic cover and without water in LPHW coil.



PRIMARY PARAMETERS

Dimensions of the SAVANA unit

OHSA3-200

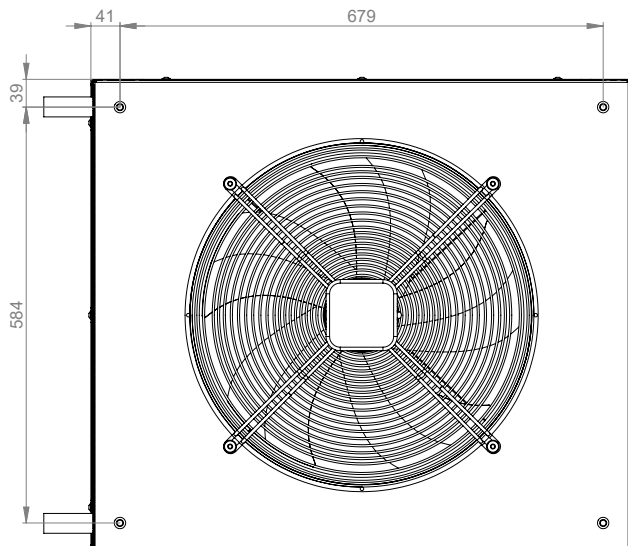
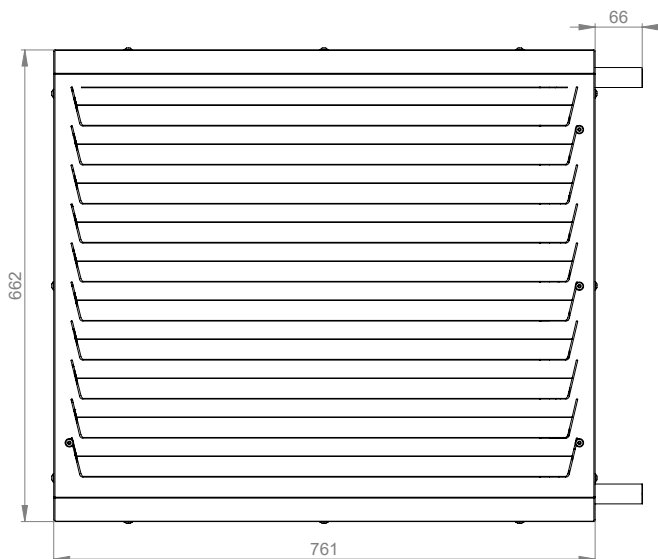
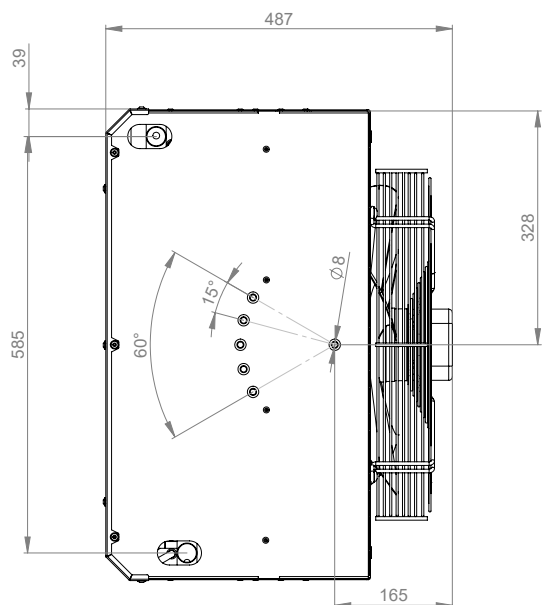




PRIMARY PARAMETERS

Dimensions of the SAVANA unit

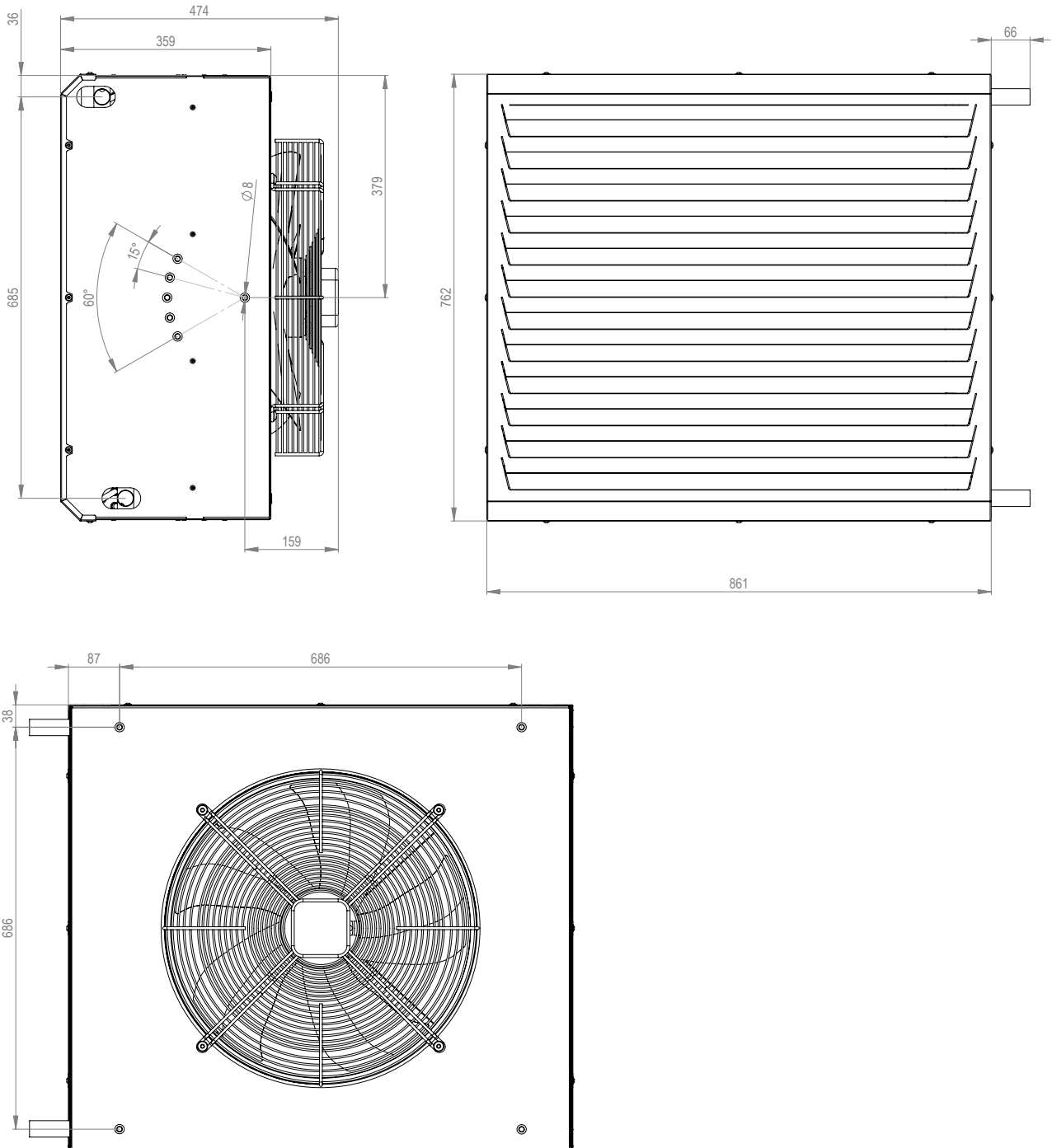
OHSA3-400





PRIMARY PARAMETERS

OHSA3-600





PRIMARY PARAMETERS

Characteristics for different voltage of EC fans

Type	Control voltage [V]	Airflow [m³/h]	Voltage [V]	Current [A]	Power consumption [W]	LP(A) 5m [db(A)]
OHS3-200-V2	1,5	650	230	0,10	7	13,8
	2	780		0,11	10	17,3
	4	1300		0,30	30	29,5
	6	1800		0,60	70	37,5
	8	2350		1,20	140	43,9
	10	2600		1,50	180	45,6

Type	Control voltage [V]	Airflow [m³/h]	Voltage [V]	Current [A]	Power consumption [W]	LP(A) 5m [db(A)]
OHS3-400-V2	1,5	1200	230	0,17	15	18,7
	2	1400		0,18	20	20,1
	4	2250		0,27	50	33,2
	6	3100		0,50	110	40,8
	8	4000		0,90	210	47,4
	10	4700		1,40	320	51,4

Type	Control voltage [V]	Airflow [m³/h]	Voltage [V]	Current [A]	Power consumption [W]	LP(A) 5m [db(A)]
OHS3-600-V2	1,5	1700	230	0,23	25	24,8
	2	2000		0,25	30	28,3
	4	3300		0,45	90	39,5
	6	4600		0,85	200	48,4
	8	6000		1,60	390	54,3
	10	7000		2,60	630	58,4



PRIMARY PARAMETERS

Basic technical parameters of LPHW coils
2-row LPHW coil

Air flow [m ³ /h]		OHS A3-200-V2 2600				OHS A3-400-V2 4700				OHS A3-600-V2 7000			
Water exchanger temperature gradient [°C]	Inlet air temperature [°C]	Heating output [kW]	Output air temp. [°C]	Water flow rate [m ³ /h]	Water pressure loss [kPa]	Heating output [kW]	Output air temp. [°C]	Water flow rate [m ³ /h]	Water pressure loss [kPa]	Heating output [kW]	Output air temp. [°C]	Water flow rate [m ³ /h]	Water pressure loss [kPa]
90/70	5	25,9	34,6	1,15	17,8	47,8	35,2	2,12	19,0	67,4	33,6	2,99	18,8
	10	24,2	37,6	1,07	15,7	44,7	38,2	1,98	16,8	62,9	36,7	2,79	16,5
	15	22,5	40,6	1,00	13,7	41,5	41,2	1,84	14,6	58,4	39,7	2,59	14,4
80/60	5	22,1	30,2	0,97	13,5	40,8	30,8	1,80	14,4	57,4	29,3	2,54	14,1
	10	20,4	33,2	0,90	11,7	37,6	33,7	1,66	12,4	52,9	32,4	2,34	12,2
	15	18,6	36,2	0,82	9,9	34,4	36,7	1,52	10,6	48,3	35,5	2,14	10,3
70/50	5	18,2	25,8	0,80	9,7	33,7	26,3	1,48	10,4	47,4	25,1	2,08	10,1
	10	16,5	28,8	0,72	8,1	30,5	29,3	1,34	8,7	42,8	28,2	1,88	8,4
	15	14,7	31,8	0,65	6,6	27,3	32,2	1,20	7,0	38,2	31,2	1,68	6,8
60/40	5	14,4	21,4	0,63	6,4	26,6	21,8	1,17	6,9	37,3	20,8	1,63	6,6
	10	12,6	24,4	0,55	5,1	23,4	24,8	1,02	5,4	32,7	23,8	1,43	5,2
	15	10,8	27,3	0,47	3,8	20,1	27,7	0,88	4,1	28,0	26,8	1,22	3,9
45/35	5	11,6	18,3	1,01	16,0	21,5	18,6	1,87	17,1	30,2	17,8	2,62	16,6
	10	9,8	21,2	0,86	11,9	18,2	21,5	1,59	12,7	25,6	20,9	2,23	12,2
	15	8,1	24,2	0,70	8,2	14,9	24,4	1,30	8,8	20,9	23,9	1,82	8,4

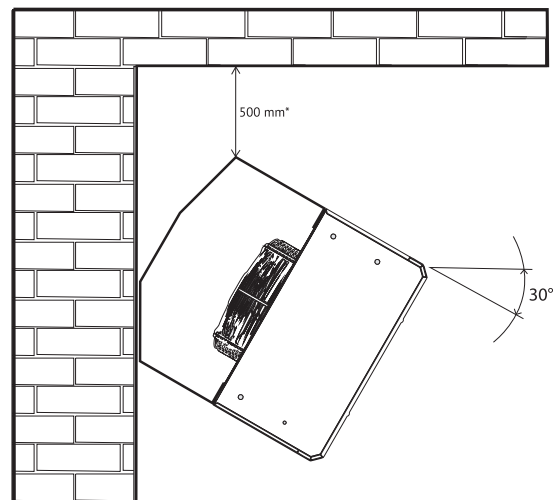
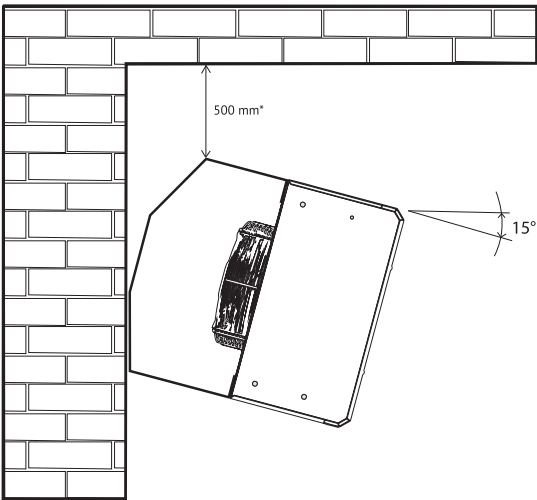
The LPHW coil are designed for the maximum operating water temperature of +110 °C and maximum operating pressure of 1.6 MPa.



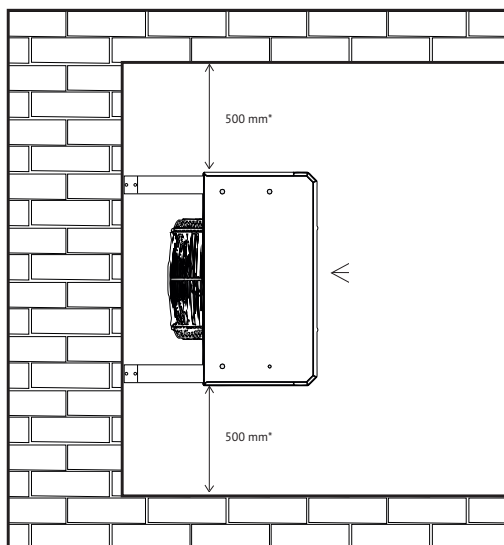
INSTALLATION AND ASSEMBLY

The heating unit can be wall-mounted and ceiling-mounted.
An installation bracket is possible to order as accessories. For ceiling installation can be also used threaded bars.

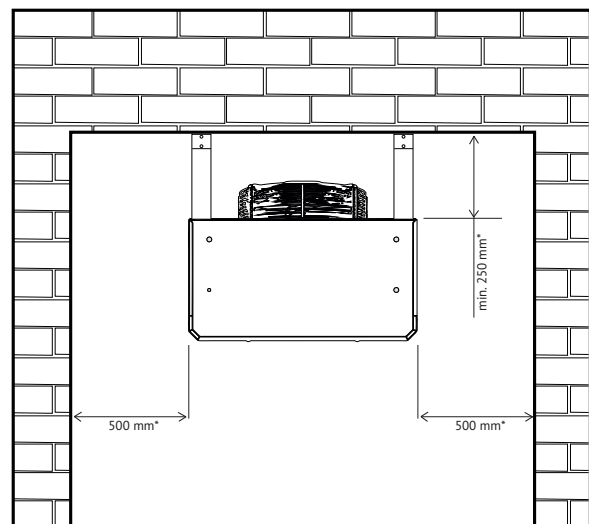
Wall-mounting (side view)



Wall-mounting (top view)



Ceiling-mounting (side view)



* Recommended distance for easy access and installation.



CONTROL

The **SAVANA** air heaters are delivered without an integrated control system. Below see recommended control options:

AirGENIO IC PRIME control unit

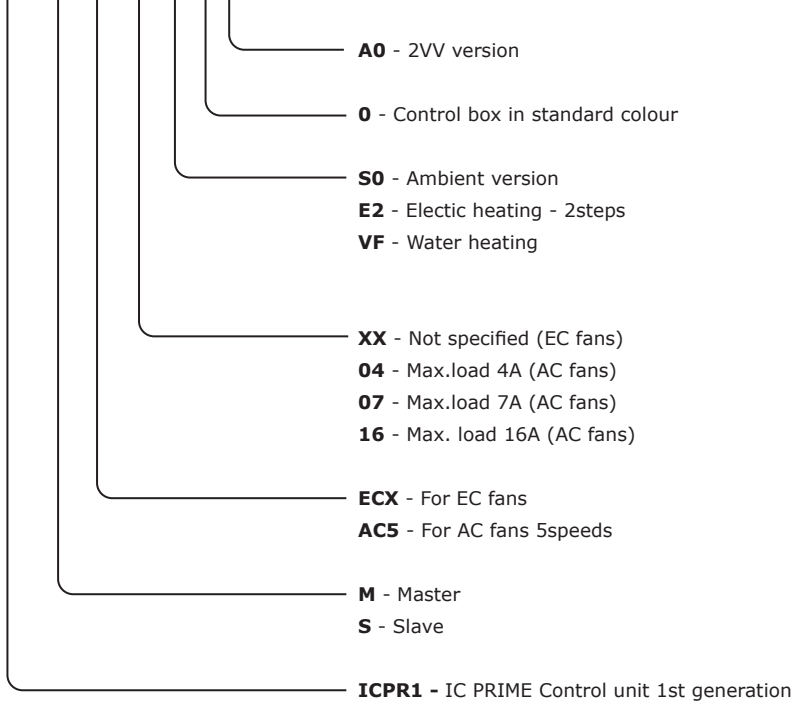
The AirGENIO **IC PRIME** control unit is designed primarily for controlling 2VV industrial air curtains and fan heaters.

This control type is an advanced, yet user-friendly solution designed to optimize climate separation with cutting-edge technology. With minimal maintenance needs, AirGENIO PRIME provides a smart, reliable, and energy-efficient approach to air curtain control, enhancing both performance and convenience.



KEY TO CODING

ICPR1-M-ECX-XX-VF-0 A0



More details can be found on the relevant page in this catalog.

AirGENIO BASIC EC controller

AGBA1-M-ECX-XX-V1-0A0

AirGENIO BASIC EC controller is designed primarily for manual control of industrial air curtains and air heaters with water or electric heating. In addition, the unit may be used for manual control of devices comprising a voltage controlled EC fans.



Speed controller type	OHSA3-200	OHSA3-400	OHSA3-600
AGBA1-M	10	10	10



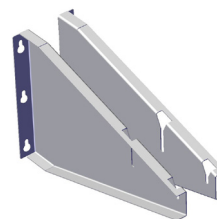
OPTIONAL ACCESSORIES

More details can be found on the relevant page in this catalog.

Mounting Bracket

OHSA3-xxx-HOL-NA0

Allow to mount unit on the wall at 3 different angles: 0°, 15°, 30°
Universal for all SAVANA unit sizes



ZV2-230-xx

2-way O/C valve with 230V actuator



ZV3-230-xx

3-way O/C valve with 230V actuator



ZV2-024-xx

2-way valve with 24DCV actuator, 0-10V DC control signal



ZV3-024-xx

3-way valve with 24DCV actuator, 0-10V DC control signal





OPTIONAL ACCESSORIES

More details can be found on the relevant page in this catalog.



RT-3-xx

3-way O/C valve with 230V actuator, not to be used with SC-C-EC control



Thermostatic valve

TV-1-1/1



Mixing node

SMU2-xx-xx



Flexible connection hoses

OH-xxx



Room thermostat

TER-P



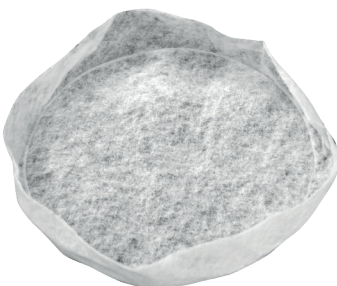
Threaded bar

The unit is suspended using four threaded bars.

ZTZ-M8-1,0 – threaded bar, M8 thread, 1m length, suitable for all types of heating units.



Spare filter for SAVANA products



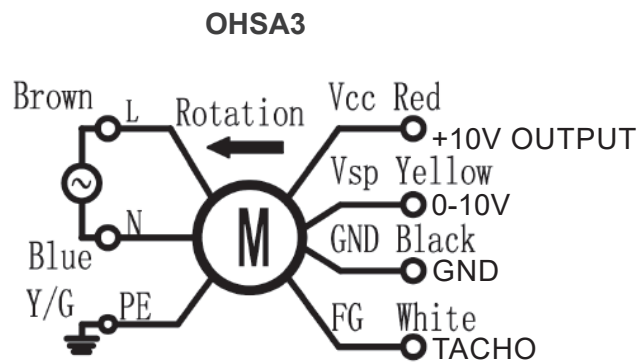
FI-PYTEL-KRUH-G2-SAV-1

- OHS A3-100** Output series (1000)
- OHS A3-200** Output series (2000)
- OHS A3-400** Output series (4000)
- OHS A3-600** Output series (6000)
- G2** Filter type Coarse 40% (only G2)
- FI-PYTEL-KRUH** Filter



WIRING DIAGRAMS

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



Wiring diagrams for the control system are provided in the manual.



KEY TO CODING

OHSA3- 600 XX00 E 00-X V2 X - 2 A 0	
0	reserve
A	A - Air heater with face cover G (cut-out lamellas)
2	2 - Stainless steel version C5
V2	V2 - 2-row LPHW coil
E	E - EC fans
200	200 - Nominal airflow 2000m ³ /h 400 - Nominal airflow 4000m ³ /h 600 - Nominal airflow 6000m ³ /h
OHSA3	SAVANA air heater 3 rd generation