

BASIC FEATURES

Wide and variable range of highly efficient heating units designed for both wall and ceiling installation. They are suitable for use in the industrial premises, manufacturing hall, warehouses, sport facilities and other such buildings.

- 4 sizes with airflows of **1700 – 7000 m³/h**
- **5 different front covers** offering the choice of the best-suited one for a particular installation (Cut-out lamellas, Exhaust jets, Diffusor, Aluminium lamellas, Extension lamellas)
- Powerful heating performance ensured by **2row** or **3row** LPHW coils
- **EC** fans with IP54
- Compact metal sheet casing treated with a white powder coating **RAL9016**
- Easy installation and maintenance
- Air filter with a simple access (optional accessory)

The heating unit shall be installed indoor in a dry area with ambient temperatures ranging from +5 °C up to +35 °C and relative humidity of up to 80%. It is designed for blowing air free of rough dust, grease, chemical fumes, and other impurities. The IP rating of the electric system of the complete heating unit is IP 54. The heating unit is produced in standard colour RAL 9016.

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]
OHSA3-100-V2	1900	230-50/60	1,7	210	51,4	17	22
OHSA3-200-V2	2600		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
OHSA3-100-V3	1700	230-50/60	1,7	210	52,6	18	22
OHSA3-200-V3	2250		1,5	180	45,8	24	22
OHSA3-400-V3	4300		1,4	320	50,6	38	28
OHSA3-600-V3	6500		2,6	630	58,2	50	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)

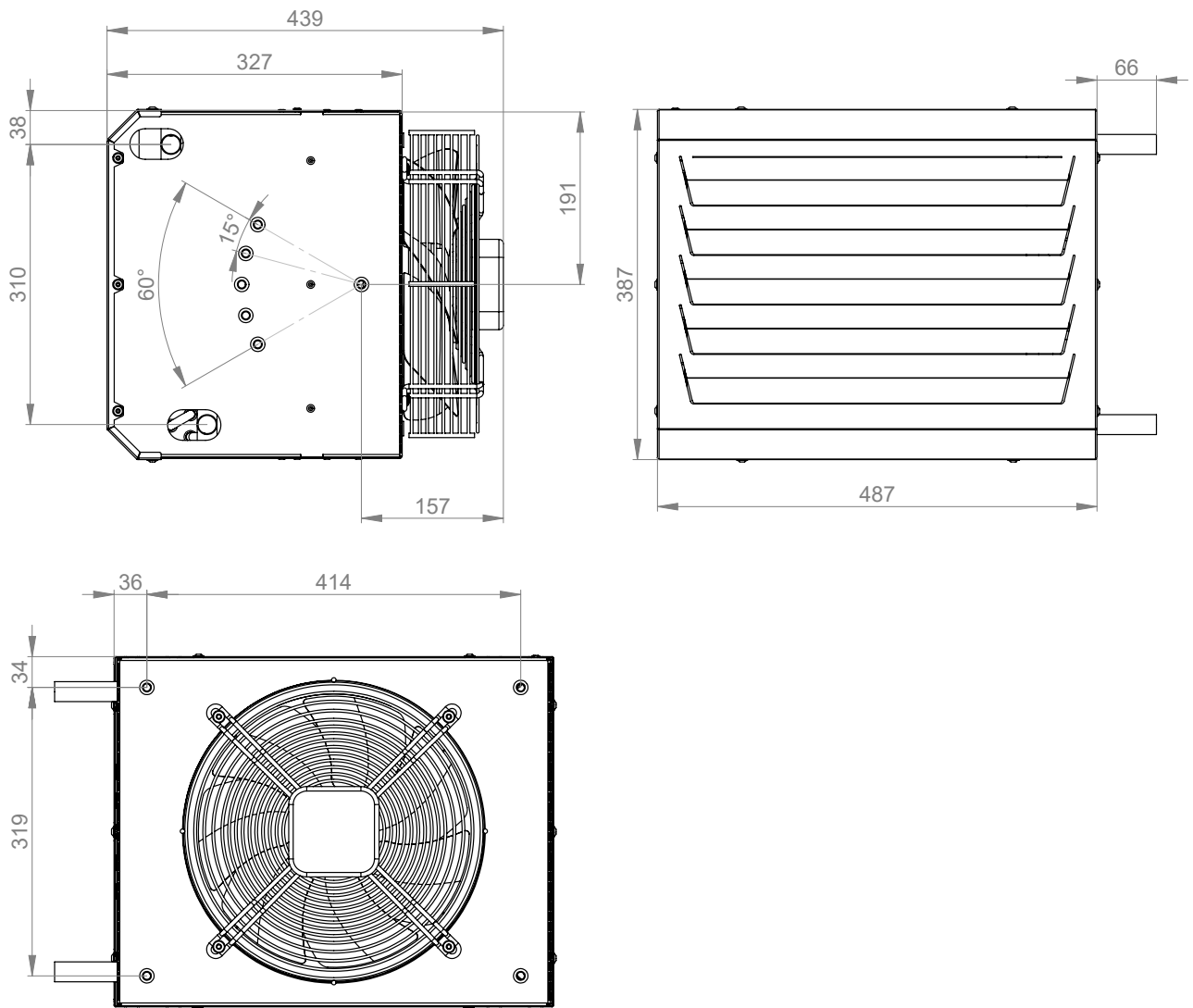
*** Weight with basic cover and without water in LPHW coil.



PRIMARY PARAMETERS

Dimensions of the SAVANA unit

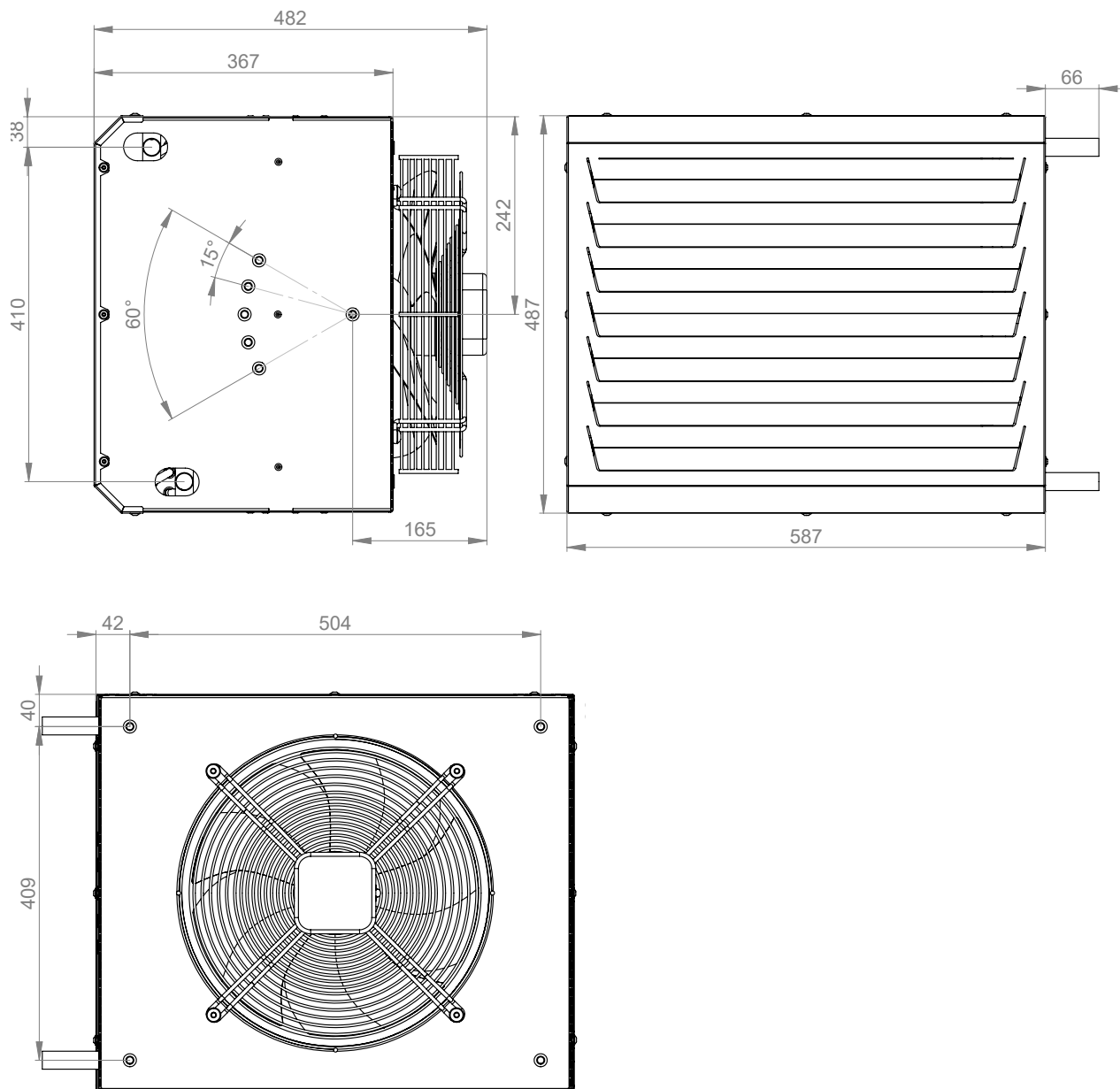
OHSA3-100





Dimensions of the SAVANA unit

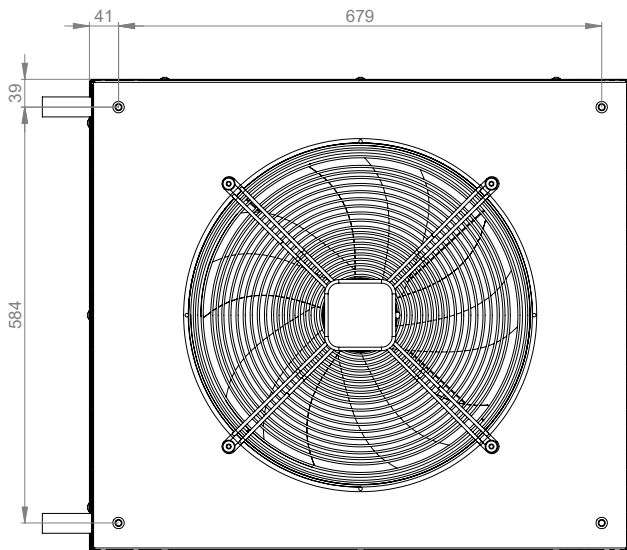
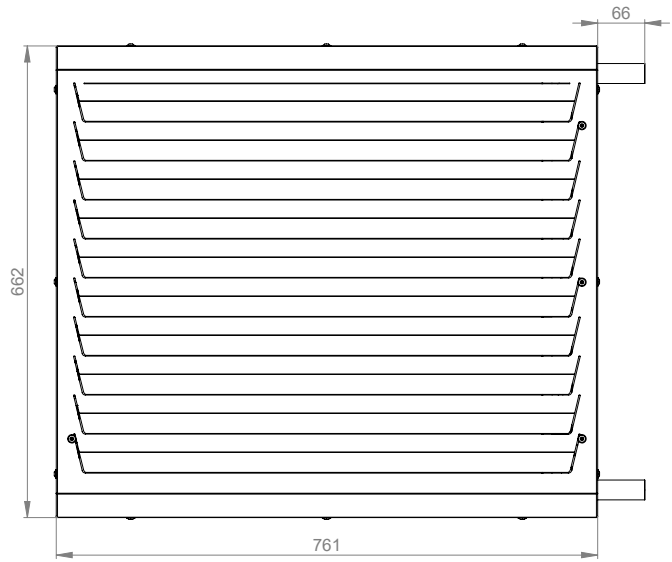
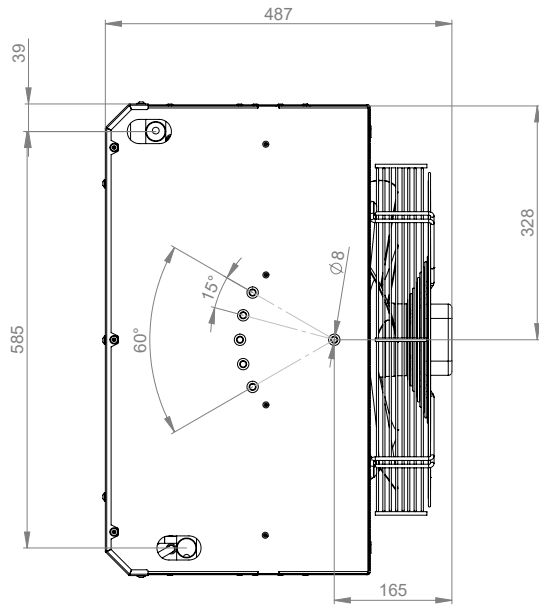
OHSA3-200





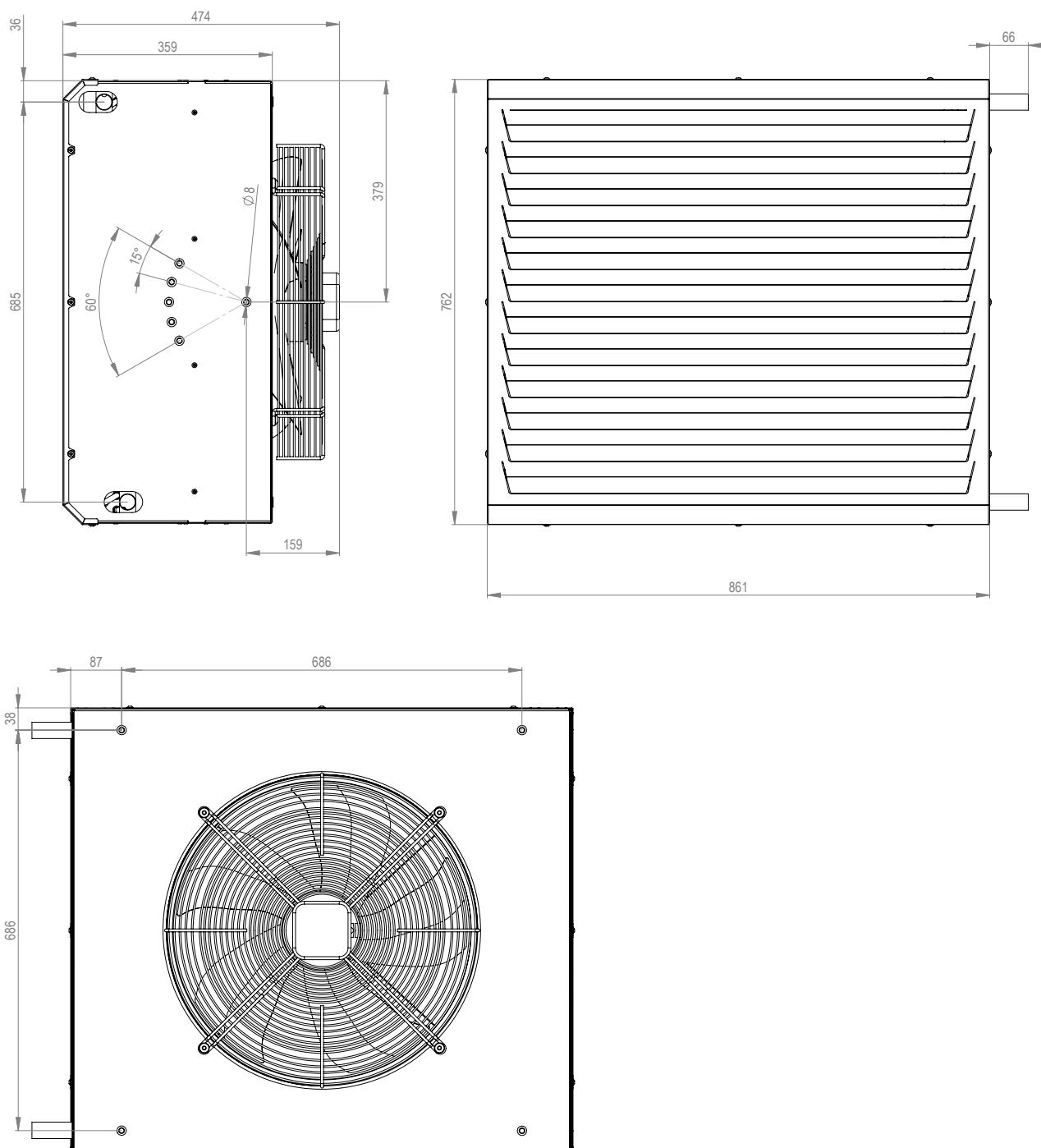
Dimensions of the SAVANA unit

OHSA3-400





OHSA3-600





Characteristics for different voltage of EC fans

Type	Control voltage [V]	Airflow [m ³ /h]	Voltage [V]	Current [A]	Power consumption [W]	LP(A) 5m [db(A)]
OHS3-100-V2	1,5	300	230	0,10	5	13,2
	2	350		0,10	5	19,1
	4	800		0,22	25	33,3
	6	1200		0,55	60	42,7
	8	1600		1,20	140	48,7
	10	1900		1,70	210	51,4

Type	Control voltage [V]	Airflow [m ³ /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 [m ³ /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 [m ³ /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

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



Characteristics for different voltage of EC fans

Type	Control voltage [V]	Airflow [m ³ /h]	Voltage [V]	Current [A]	Power consumption [W]	LP(A) 5m [db(A)]
OHS3-100-V3	1,5	250	230	0,10	5	12,3
	2	320		0,10	5	17,7
	4	650		0,20	20	33,7
	6	1000		0,50	55	42,8
	8	1400		1,10	130	49,5
	10	1700		1,70	210	52,6

Type	Control voltage [V]	Airflow [m ³ /h]	Voltage [V]	Current [A]	Power consumption [W]	LP(A) 5m [db(A)]
OHS3-200-V3	1,5	550	230	0,10	7	14,6
	2	750		0,11	10	18,5
	4	1170		0,30	30	30,0
	6	1600		0,62	70	38,1
	8	2100		0,12	140	44,2
	10	2250		1,50	180	45,8

Type	Control voltage [V]	Airflow [m ³ /h]	Voltage [V]	Current [A]	Power consumption [W]	LP(A) 5m [db(A)]
OHS3-400-V3	1,5	1050	230	0,17	15	26,3
	2	1250		0,18	20	21,6
	4	2050		0,28	50	32,3
	6	2850		0,50	110	40,5
	8	3650		0,95	210	47,1
	10	4300		1,40	320	50,6

Type	Control voltage [V]	Airflow [m ³ /h]	Voltage [V]	Current [A]	Power consumption [W]	LP(A) 5m [db(A)]
OHS3-600-V3	1,5	1550	230	0,23	25	22,8
	2	1850		0,25	30	27,2
	4	3100		0,45	90	40,2
	6	4300		0,90	210	48,8
	8	5600		1,75	410	54,6
	10	6500		2,60	630	58,2

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



Basic technical parameters of LPHW coils

2-row LPHW coil

Air flow [m³/h]		OHS A3-100-V2 1900				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 [m³/h]	Water pressure loss [kPa]	Heating output [kW]	Output air temp. [°C]	Water flow rate [m³/h]	Water pressure loss [kPa]	Heating output [kW]	Output air temp. [°C]	Water flow rate [m³/h]	Water pressure loss [kPa]	Heating output [kW]	Output air temp. [°C]	Water flow rate [m³/h]	Water pressure loss [kPa]
		90/70	5	23,1	41,1	1,03	22,4	34,4	44,3	1,53	30,1	62,8	44,7	2,79	23,2	89,6	43,0
10	21,6		43,7	0,96	19,7	32,1	46,7	1,43	26,5	58,6	47,0	2,60	20,4	83,6	45,4	3,71	28,0
15	20,0		46,2	0,89	17,2	29,8	49,0	1,32	23,1	54,4	49,3	2,42	17,8	77,6	47,9	3,45	24,4
80/60	5	19,6	35,7	0,87	16,9	29,3	38,5	1,29	22,8	53,5	38,8	2,36	17,5	76,3	37,4	3,37	24,0
	10	18,0	38,2	0,80	14,5	27,0	40,8	1,19	19,6	49,3	41,1	2,18	15,0	70,3	39,8	3,11	20,6
	15	16,5	40,7	0,73	12,2	24,7	43,1	1,09	16,6	45,0	43,4	1,99	12,7	64,3	42,2	2,84	17,5
70/50	5	16,1	30,2	0,71	12,0	24,2	32,7	1,07	16,4	44,2	32,9	1,94	12,5	63,0	31,7	2,77	17,1
	10	14,5	32,7	0,64	9,9	21,9	35,0	0,96	13,6	39,9	35,2	1,75	10,4	56,9	34,1	2,50	14,2
	15	12,9	35,2	0,57	8,0	19,6	37,3	0,86	11,1	35,6	37,4	1,56	8,4	50,8	36,5	2,23	11,5
60/40	5	12,6	24,7	0,55	7,8	19,1	26,8	0,84	10,8	34,7	26,9	1,52	8,2	49,6	26,1	2,17	11,2
	10	11,0	27,2	0,48	6,1	16,7	29,1	0,73	8,5	30,4	29,2	1,33	6,4	43,5	28,4	1,90	8,8
	15	9,4	29,6	0,41	4,5	14,4	31,4	0,63	6,4	26,0	31,4	1,14	4,8	37,2	30,8	1,63	6,6
45/35	5	10,3	21,0	0,89	19,7	15,4	22,6	1,34	26,9	28,1	22,7	2,44	20,5	40,1	22,0	3,49	28,0
	10	8,7	23,5	0,75	14,5	13,1	24,9	1,14	19,9	23,8	25,0	2,07	15,0	34,0	24,4	2,95	20,6
	15	7,1	26,0	0,61	9,9	10,7	27,2	0,93	13,7	19,4	27,2	1,69	10,4	27,8	26,8	2,41	14,2

3-row LPHW coil

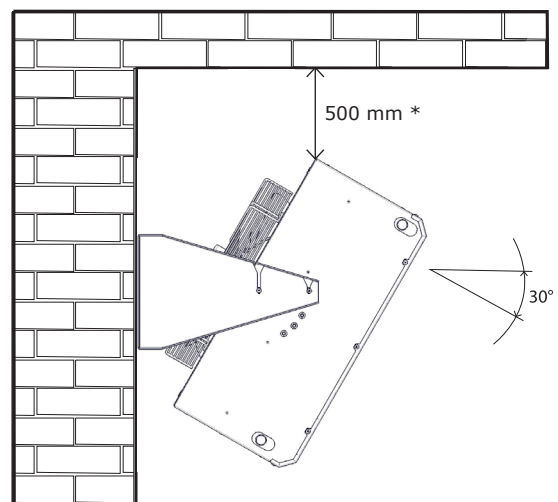
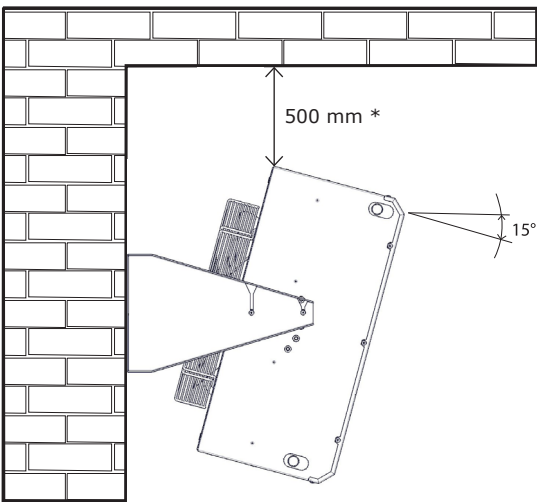
Air flow [m³/h]		OHS A3-100-V3 1700				OHS A3-200-V3 2250				OHS A3-400-V3 4300				OHS A3-600-V3 6500			
Water exchanger temperature gradient [°C]	Inlet air temperature [°C]	Heating output [kW]	Output air temp. [°C]	Water flow rate [m³/h]	Water pressure loss [kPa]	Heating output [kW]	Output air temp. [°C]	Water flow rate [m³/h]	Water pressure loss [kPa]	Heating output [kW]	Output air temp. [°C]	Water flow rate [m³/h]	Water pressure loss [kPa]	Heating output [kW]	Output air temp. [°C]	Water flow rate [m³/h]	Water pressure loss [kPa]
		90/70	5	28,7	55,1	1,27	21,6	40,7	58,8	1,81	21,1	78,3	59,1	3,48	22,3	113,8	57,0
10	26,8		56,7	1,19	19,1	38,1	60,2	1,69	18,6	73,1	60,5	3,25	19,6	106,4	58,6	4,73	28,0
15	24,8		58,3	1,10	16,6	35,4	61,6	1,57	16,2	68,0	61,9	3,02	17,2	98,9	60,1	4,39	24,4
80/60	5	24,5	47,7	1,08	16,5	34,9	51,0	1,54	16,1	67,0	51,3	2,96	17,0	97,5	49,6	4,31	24,1
	10	22,6	49,4	1,00	14,2	32,2	52,4	1,42	13,9	61,9	52,7	2,73	14,6	90,0	51,1	3,98	20,8
	15	20,6	51,0	0,91	12,0	29,5	53,8	1,30	11,8	56,7	54,1	2,50	12,4	82,4	52,6	3,64	17,6
70/50	5	20,2	40,4	0,89	11,9	29,0	43,3	1,27	11,6	55,7	43,5	2,45	12,3	81,0	42,0	3,56	17,3
	10	18,3	42,0	0,81	9,9	26,2	44,6	1,15	9,7	50,5	44,9	2,22	10,2	73,4	43,5	3,23	14,5
	15	16,4	43,5	0,72	8,1	23,5	45,9	1,03	7,9	45,2	46,2	1,99	8,3	65,7	45,0	2,89	11,8
60/40	5	16,0	33,0	0,70	7,9	23,0	35,3	1,01	7,8	44,3	35,6	1,94	8,2	64,4	34,4	2,82	11,5
	10	14,0	34,5	0,61	6,2	20,2	36,7	0,88	6,1	39,0	36,9	1,71	6,5	56,7	35,9	2,48	9,1
	15	12,0	36,0	0,53	4,7	17,4	37,9	0,76	4,7	33,6	38,2	1,47	4,9	48,8	37,3	2,14	6,9
45/35	5	12,8	27,4	1,12	19,4	18,3	29,2	1,59	18,9	35,3	29,4	3,07	19,9	51,3	28,4	4,46	28,1
	10	10,9	29,0	0,95	14,3	15,6	30,5	1,36	14,0	30,0	30,7	2,61	14,8	43,6	29,9	3,79	20,8
	15	8,9	30,5	0,78	10,0	12,8	31,9	1,11	9,8	24,7	32,0	2,15	10,3	35,9	31,4	3,12	14,5



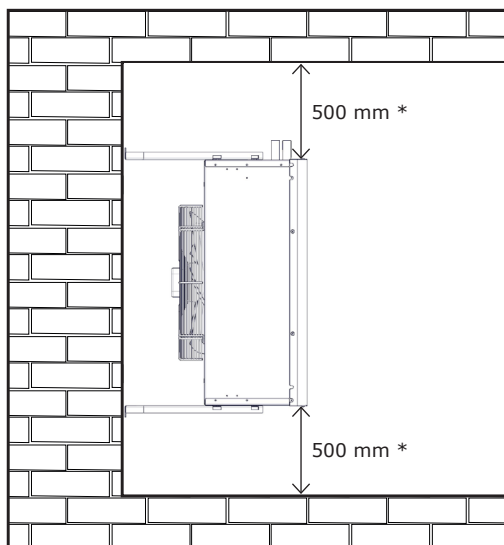
INSTALLATION AND ASSEMBLY

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.

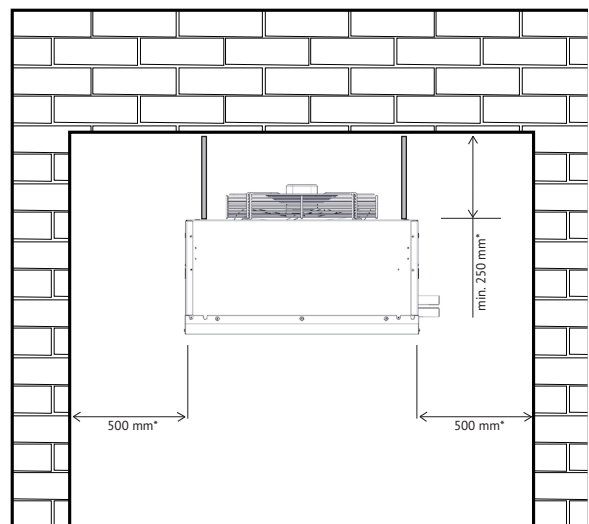
Wall-mounting (side view)



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

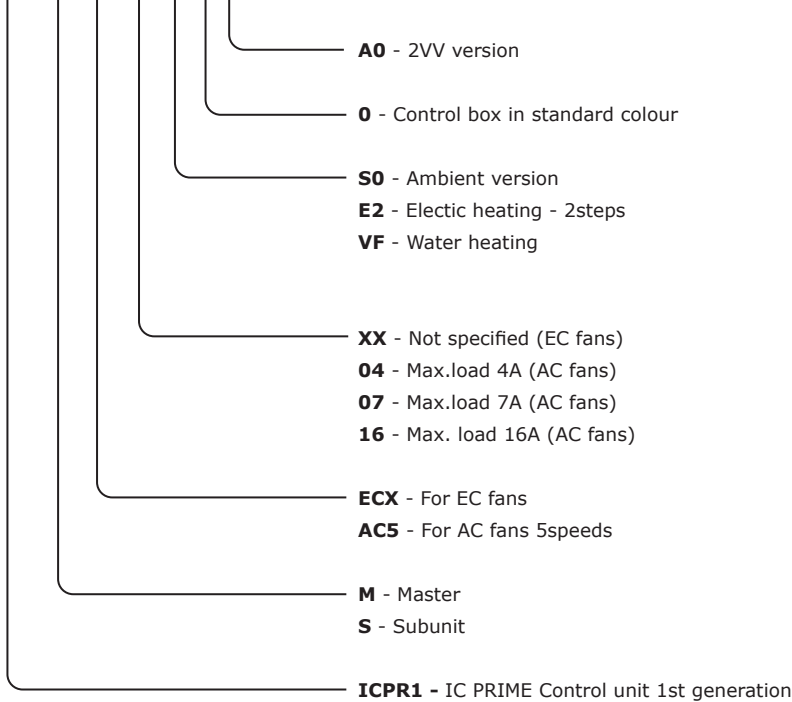
The AirGENIO **IC PRIME** control unit is designed primarily for controlling 2VW industrial air curtains and fan heaters.

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	OHSA3-100	OHSA3-200	OHSA3-400	OHSA3-600
AGBA1-M	10	10	10	10

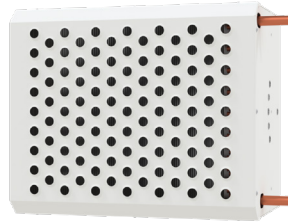


OPTIONAL ACCESSORIES

Face cover



OHS A3-XXX-FC**G**-0A0



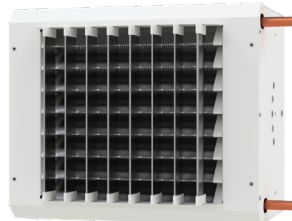
OHS A3-XXX-FC**D**-0A0



OHS A3-XXX-FC**F**-0A0



OHS A3-XXX-FC**A**-0A0



OHS A3-XXX-FC**A**-0A0 + OHS A3-XXX-FC**N**-0A0



OHS A3-600-FCG-0A0

- 0** reserve
- A** Standard version
- FCG** Cut-out lamellas Face Cover
- FCA** Aluminium lamellas Face Cover
- FCN** Vertical ext. aluminium lamellas Face Cover
- FCD** Exhaust jets Face cover
- FCF** Diffusor Face Cover
- 100** Size - Nominal airflow 1000m³/h
- 200** Size - Nominal airflow 2000m³/h
- 400** Size - Nominal airflow 4000m³/h
- 600** Size - Nominal airflow 6000m³/h

OHS A3 Accessories for **SAVANA 3**



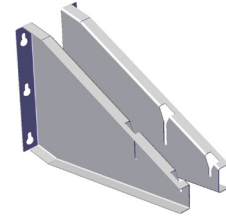
OPTIONAL ACCESSORIES

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

Mounting Bracket

OHSA3-xxx-HOL-0A0

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

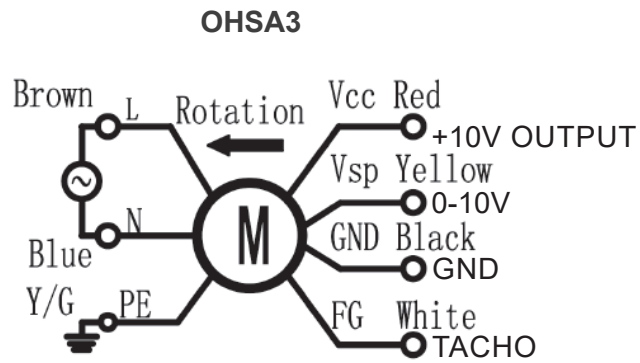
- OHSA3-100** Output series (1000)
- OHSA3-200** Output series (2000)
- OHSA3-400** Output series (4000)
- OHSA3-600** Output series (6000)
- G2** Filter type Coarse 40% (only G2)
- FI-PYTEL-KRUH** Filter





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 - 0 B 0

- 0** reserve
- B** **A** - Air heater with face cover G (cut-out lamellas)
B - Air heater without face cover
- 0** 0 - Standard RAL (9016)
9 - Atyp RAL
- V2** V2 - 2-row LPHW coil
- V3** V2 - 3-row LPHW coil (not available for INOX)
- E** E - EC fans
- 100** 100 - Nominal airflow 1000m³/h
200 - Nominal airflow 2000m³/h
400 - Nominal airflow 4000m³/h
600 - Nominal airflow 6000m³/h
- OHSA3** SAVANA air heater V^{3d} generation