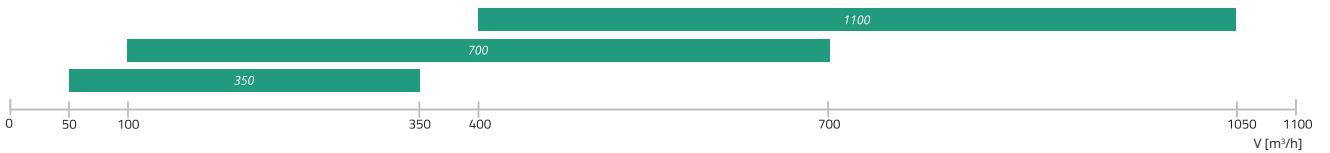


# VEGA



**Application** Food production facilities, industrial premises, warehouses, sport facilities.

VEGA is designed as a high quality air supply unit for premises where heat recovery is not needed. Due to its extremely low profile and possibility to mount in any position, VEGA could be a perfect solution for small premises. We have clients from various climate zones, therefore this unit features a customizable heating system. The electric heater is optional, easy to install, and produced in three versions for each climate zone. VEGA air supply units comply with ErP2018 requirements.

**Description**

**The main features:**

- › Three sizes with 3 different electric heaters and a model with a water heater. 10 options in total;
- › Flexible installation: 6 mounting positions, lowest height;
- › Integrated control board: control and protection of a heater, air damper, filter pollution monitoring;
- › High class external airtightness: leakages <1%;
- › Cost-efficient solution.

**Top class casing:**

- › Frameless structure constructed from double-skinned panels;
- › Casing made of galvanized steel, powder-coated;
- › Acoustic and thermal wall insulation: 30 mm (mineral wool);
- › Amortization pads with hanging brackets;
- › Cover fastening pins.

**Fans:**

- › AC type.
- › Long lifetime – fans last for more than 10 years (40000 working hours).

**Heaters:**

- › Electric heater (ordered and installed separately) or integrated water heater (VEGA 1100W).

**Construction features**

**Filters:**

- › Coarse 65% (G4) panel filter.
- › Pressure switch for filter contamination.

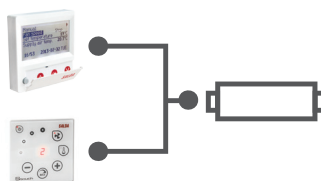
**Integrated control board:**

- › Electric heater control (PWM);
- › Water heater recirculation pump control;
- › Water valve actuator control;
- › Air damper actuator on/off control;
- › 4 airflow speeds;
- › Filter pollution monitoring.

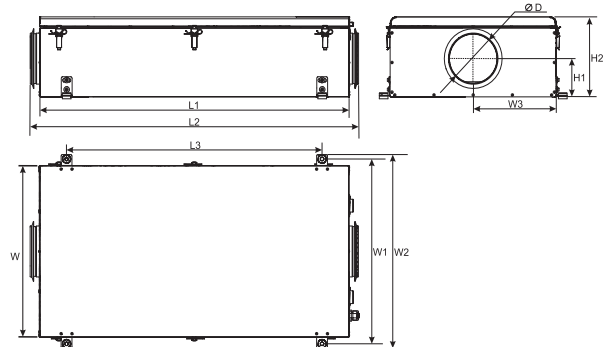
**Air temperature sensors:**

- › Integrated supply air temperature sensor.
- › Integrated outdoor air temperature sensor (in versions with a water heater).

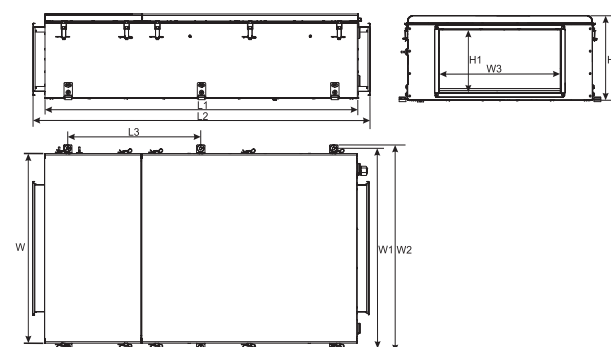
**Control options**



## 350 E/700 E



## 1100 E/W



Unit	Dimensions [mm]									
	L1	L2	L3	W	W1	W2	W3	H1	H2	øD
VEGA 350 E	1000	1060	825	536	578	606	268	125	250	160
VEGA 700 E	1200	1260	1025	536	578	606	268	145	300	200
VEGA 1100 E/W	1300	1400	554	765	807	835	500	250	340	-

Unit	Optional accessories									
	Flex Stouch	MUTE SKG AP	EH	SKS	SSK	RSK	SP	SSB Heating	RMG 80/60°C	RMG 80/40°C
VEGA 350 E	+	160	1.2 1f 2.4 1f 5.0 2f	-	-	160	CM230-1-F-L	-	-	-
VEGA 700 E	+	200	2.4 1f 5.0 2f 9.0 3f	-	-	200	CM230-1-F-L	-	-	-
VEGA 1100 E	+	-	6.0 2f 9.0 3f 15.0 3f	50-25	500-250	-	CM230-1-F-L	-	-	-
VEGA 1100 W	+	-	-	50-25	500-250	-	TF230	61	45,10-1,6	45,10-1,0

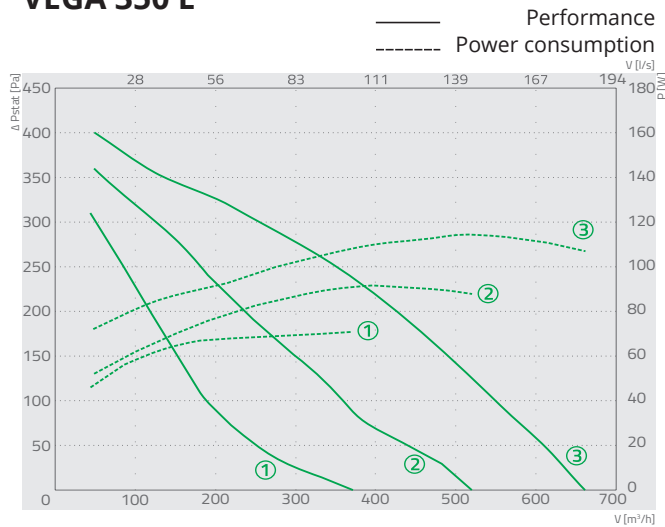
AIR HANDLING UNITS

### Accessories

Control panel <b>FLEX</b> 	Remote controller <b>Stouch</b> 	Actuator for damper <b>TF230</b> 	Actuator for damper <b>CM230</b> 	Thermic water valve actuator <b>SSB</b> 	Mounting clamp <b>AP</b> 	Shut-off damper <b>SKG</b> 
Circular duct silencer <b>MUTE</b> 	Rectangular duct silencer <b>SKS</b> 	Damper <b>SSK</b> 	Back draft shutter <b>RSK</b> 	Electric heater <b>EH VEGA 350/700E</b> 	Electric heater <b>EH VEGA 1100E</b> 	Mixing point <b>RMG</b> 

# VEGA

## VEGA 350 E



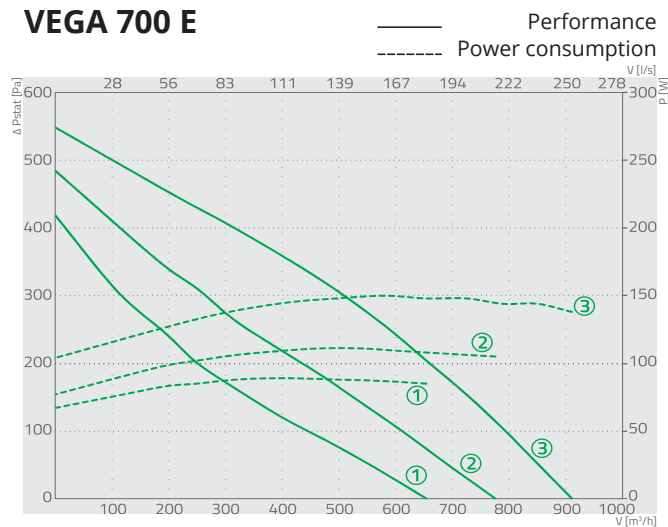
### Operating conditions

Outdoor air temperature, RH		-20°C/+40°C/ 90%					
<b>VEGA 350 E</b>	Lwa total, dB(A)	125 Hz	250 Hz	500 Hz	LWA, dB(A)		
Inlet	58	48	54	52	1 kHz	2 kHz	4 kHz
Outlet	64	52	56	62	55	52	46
Surrounding	44	35	38	40	36	32	28
Measured at 380 m³/h, 100 Pa							

	EH 1.2 1f	EH 2.4 1f	EH 5.0 2f
<b>Ordering code unit</b>	GAGVEGA130_124		
<b>Ordering code heater*</b>	ZESVEGA001	ZESVEGA002	ZESVEGA003
<b>Electrical data</b>			
Fan	power/current [kW/A]	0.103/0.5	
Electrical heater	power/current [kW/A]	1.2/5.2	2.4/10.4
Max.power consumption*	power/current [kW/A]	1.3/5.7	2.5/10.9
Power connection	phase/voltage [50Hz/VAC]	~1/230	~2/400
Control board	EKR_KE		
<b>Ecodesign data</b>			
Nominal flow rate	[m³/s]	0.14	
Normal external pressure	[Pa]	135	
Casing radiated sound power level (Lwa)	[dB(A)]	45	
SFPint	[W/(m³/s)]	127	
Maximum external leakage rates	[%]	<1	
ErP compliance		2018	
<b>Other data</b>			
Filter		Coarse 65% (G4)	
Housing insulation, mineral wool	[mm]	30	
Colour	RAL	White (9016)	
Weight net, without packing	[kg]	33	
Housing protection class	IP	34	
Operation	Indoors only (0-+40°C, RH 70%)		

\* - Heater is supplied separately and not installed in the unit. Max. power consumption includes heater in calculation

## VEGA 700 E



### Operating conditions

Outdoor air temperature, RH -20°C+40°C/ 90%

VEGA 700 E	Lwa total, dB(A)	LWA, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	68	57	62	63	60	59	48	41
Outlet	71	57	64	68	62	57	52	43
Surrounding	55	45	47	51	48	45	40	34

Measured at 790 m<sup>3</sup>/h, 100 Pa

### Ordering code unit

### Ordering code heater\*

### Electrical data

		EH 2.41f	EH 5.0 2f	EH 9.0 3f
Fan	power/current [kW/A]		0.14/0.6	
Electrical heater	power/current [kW/A]	2.4/10.4	5.0/12.5	9.0/13.0
Max. power consumption*	power/current [kW/A]	2.5/11.0	5.1/13.1	9.1/13.6
Power connection	phase/voltage [50Hz/VAC]	~1/230	~2/400	~3/400
Control board		EKR_KE		

### Ecodesign data

Nominal flow rate	[m <sup>3</sup> /s]	0.20
Normal external pressure	[Pa]	150
Casing radiated sound power level (Lwa)	[dB(A)]	56
SFPint	[W/(m <sup>3</sup> /s)]	211
Maximum external leakage rates	[%]	<1
ErP compliance		2018

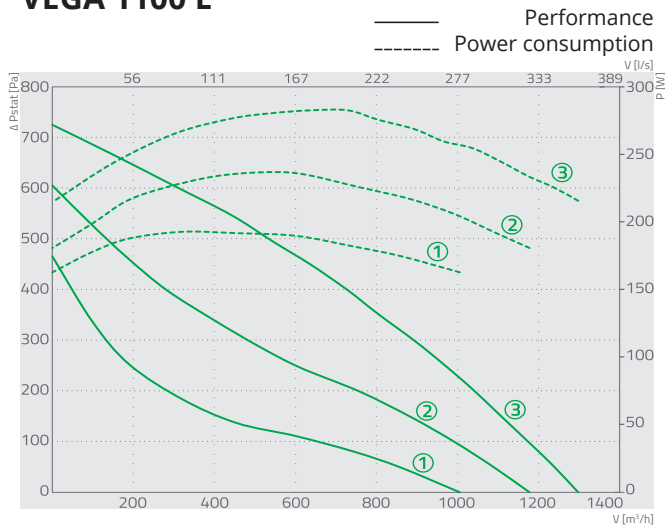
### Other data

Filter		Coarse 65% (G4)
Housing insulation, mineral wool	[mm]	30
Colour	RAL	White (9016)
Weight net, without packing)	[kg]	42
Housing protection class	IP	34
Operation		Indoors only (0-+40°C, RH 70%)

\* - Heater is supplied separately and not installed in the unit. Max. power consumption includes heater in calculation

# VEGA

## VEGA 1100 E



- ① 1 speed
- ② 2 speed
- ③ 3 speed

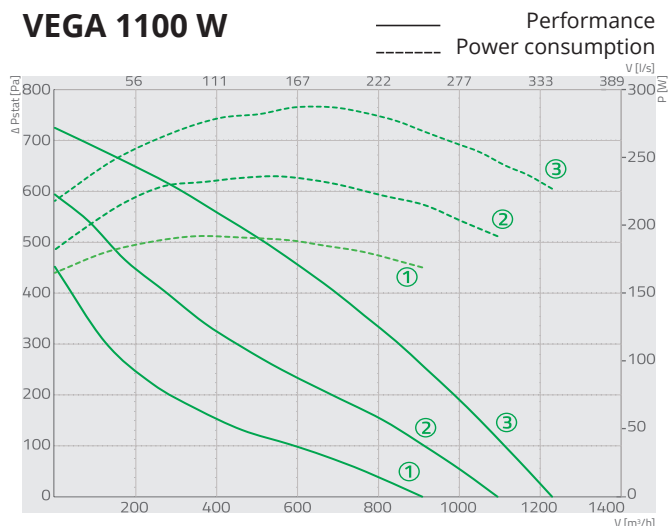
### Operating conditions

Outdoor air temperature, RH		-20°C+40°C/ 90%						
<b>VEGA 1100 E</b>	Lwa total, dB(A)	LWA, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	67	57	61	63	58	55	50	43
Outlet	73	58	66	70	67	61	56	50
Surrounding	55	45	48	50	48	46	41	37
Measured at 1170 m³/h, 100 Pa								

	EH 6.0 2f	EH 9.0 3f	EH 15.0 3f
<b>Ordering code unit</b>		GAGVEGA130_125	
<b>Ordering code heater*</b>	ZESVEGA010	ZESVEGA011	ZESVEGA012
<b>Electrical data</b>			
Fan	power/current	[kW/A] 0.28/1.2	
Electrical heater	power/current	[kW/A] 6.0/15.0 9.0/13.0 15.0/21.7	
Max. power consumption*	power/current	[kW/A] 6.3/16.2 9.3/14.2 15.3/22.9	
Power connection	phase/voltage	[50Hz/VAC] ~2/400 ~3/400 ~3/400	
Control board	EKR_KE		
<b>Ecodesign data</b>			
Nominal flow rate	[m³/s] 0.29		
Normal external pressure	[Pa] 200		
Casing radiated sound power level (Lwa)	[dB(A)] 56		
SFPint	[W/(m³/s)] 169		
Maximum external leakage rates	[%] <1		
ErP compliance	2018		
<b>Other data</b>			
Filter	Coarse 65% (G4)		
Housing insulation, mineral wool	[mm] 30		
Colour	RAL Grey (7040)		
Weight net, without packing)	[kg] 66		
Housing protection class	IP 34		
Operation	Indoors only (0-+40°C, RH 70%)		

\* - Heater is supplied separately and not installed in the unit. Max. power consumption includes heater in calculation

## VEGA 1100 W



- ① 1 speed
- ② 2 speed
- ③ 3 speed

### Operating conditions

Outdoor air temperature, RH		-20°C+40°C/ 90%						
<b>VEGA 1100 W</b>	Lwa total, dB(A)	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	66	57	61	62	58	55	49	43
Outlet	73	58	65	69	66	62	56	51
Surrounding	54	45	47	49	48	44	40	37
Measured at 1100 m³/h, 100 Pa								

### EH 2.41f

GAGVEGA130\_128

### Ordering code unit

#### Electrical data

Fan	power/current	[kW/A]	0.28/1.2
Water heater	power	[kW]	16.11
Max.power consumption*	power/current	[kW/A]	0.29/1.2
Power connection	phase/voltage	[50Hz/VAC]	~1/230

#### Control board

EKR\_KW

#### Ecodesign data

Nominal flow rate	[m³/s]	0.27
Normal external pressure	[Pa]	200
Casing radiated sound power level (Lwa)	[dB(A)]	55
SFPint	[W/(m³/s)]	81
Maximum external leakage rates	[%]	<1
ErP compliance		2018

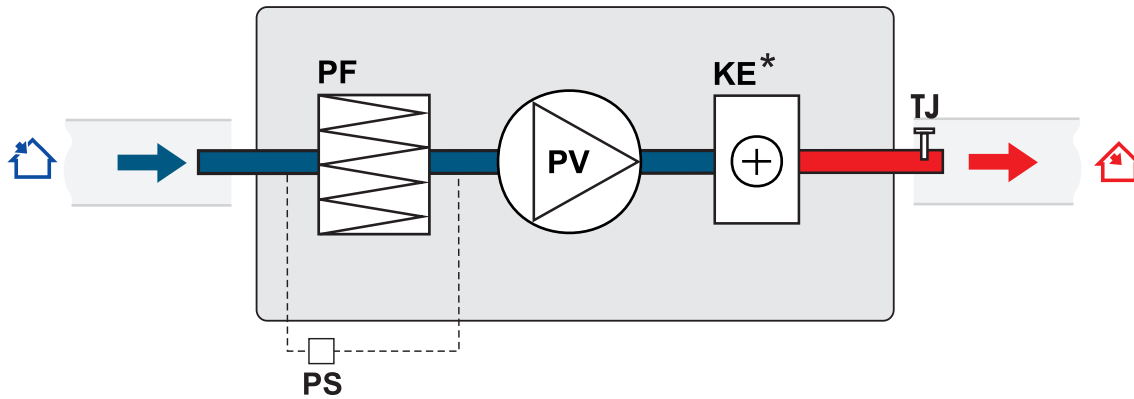
#### Other data

Filter		Coarse 65% (G4)
Housing insulation, mineral wool	[mm]	30
Colour	RAL	Grey (7040)
Weight net, without packing)	[kg]	73
Housing protection class	IP	34
Operation		Indoors only (0-+40°C, RH 70%)

\* - Heater is supplied separately and not installed in the unit. Max. power consumption includes heater in calculation

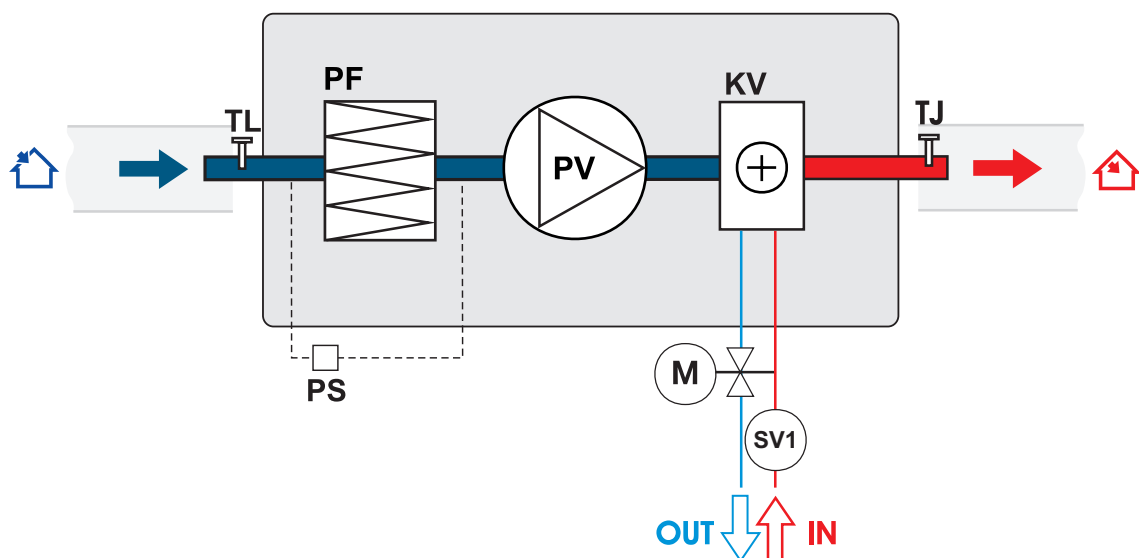
# VEGA

## VEGA 350E / VEGA 700E / VEGA 1100E versions with electrical heater



- PF - filter for outdoor air
- PV - supply air fan
- KE\* - electrical heater (supplied separately)
- TJ - supply air temperature sensor
- PS - external differential pressure switch

## VEGA 1100W versions with water heater



- PF - filter for outdoor air
- PV - supply air fan
- KV - water heater
- PS - external differential pressure switch
- TJ - supply air temperature sensor
- TL - outdoor air temperature sensor
- M - circulation pump of the heater
- SV1 - heater's valve actuator

FUNCTIONS		
Descriptions of the functions	VEGA	
	E	W
<b>Functions</b>		
3 fixed motor speeds and one additional - zero speed	+	+
Remote controller or BMS connection	+	+
Comfortable air temperature function	+	+
Supply air temperature control according to the supply air sensor	+	+
Week schedule	o*	o*
<b>Functional units</b>		
<b>Fans</b>		
Autotransformer	+	+
<b>Electric heater</b>		
PWM control signal	+	-
Manual protection	+	-
<b>Water heater</b>		
0-10V valve actuator control	-	+
Protection using temperature sensor	-	+
Protection using thermostat (NC)	-	+
Circulation pump control	-	+
<b>DX cooler</b>		
Control On/Off	-	+
<b>Filter pollution monitoring</b>		
By pressure switch (NC)	+	+
<b>Sensors</b>		
Supply air temperature sensor	+	+
Outdoor air temperature sensor	-	+
<b>Air damper control</b>		
Outdoor control On/Off 230VAC	+	+
<b>Emergency signals and inputs/outputs</b>		
Fire protection input	+	+
<b>Remote controllers</b>		
S-Touch	o	o
Flex	o	o

o	Required additional components: CO2 and RH sensors, switches, etc.
+	Standard feature (the number of features depends on the ventilation unit in which the automatics are used); to be configured through BMS network or remote control panel

\*-Only with Flex