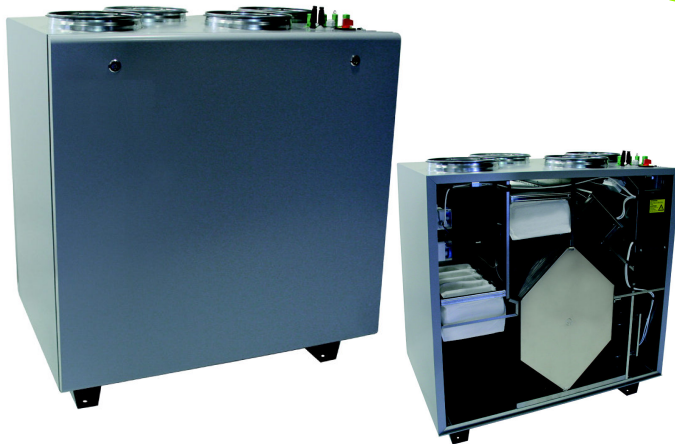


## GS-VK



### **Lüftungsgerät mit Wärmerückgewinnung mit vertikaler Luftführung**

#### **Kompaktlüftungsgerät mit Wärmerückgewinnung und vertikaler Luftführung.**

Komplett mit zwei freilaufenden energiesparenden Hochleistungslaufrädern mit EC-Motoren sowie einem hocheffizienten Gegenstromwärmetauscher als Almg3 mit automatischem Bypass.

##### Gehäuse:

Das Gehäuse besteht aus doppelschaligen in RAL 7040 beschichteten Zinkblechen 1,0 mm mit einer Dämmung von: 30 mm - 50mm. Einfache Gerätewartung durch frontseitige Türe. Der Außenluftanschluss kann wahlweise links oder rechts bestellt werden. Funktionsteile herausziehbar. Montage wandhängend. 4 Anschlussstutzen oberhalb am Gerät, jeweils mit Gummidichtung.

##### Ventilator:

Die Drehzahlstufen können stufenlos über die Uhrzeit frei eingestellt werden. Zulufttemperatur einstellbar von 0-30 °C. Zur Wärmerückgewinnung dient ein hocheffizienter Gegenstromwärmetauscher aus Aluminium mit niedrigem Druckverlust und getrennten Luftströmen. Die motorbetriebene temperaturgesteuerte Bypassklappe dient zur automatischen Sommerfunktion. Das Lüftungsgerät ist mit einer Kondensatwanne und Siphon ausgestattet.

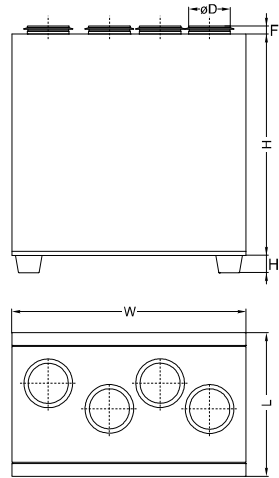
##### Filter:

Zuluft mit Taschenfilter F5, Abluft mit Taschenfilter F5. Die Differenzdosen sind bereits im Gerät montiert und verdrahtet.

Optionale Lieferung mit Pumpenwarmwasser- oder Elektro-Nachheizregister möglich.

# GS-VK

GS-VK 200 - 1900



Type	Dimensions [mm]					
	L	W	H	øD	H <sub>1</sub>	F
GS-VK 200	410	595	716	125	-	30
GS-VK 400	596	635	800	160	-	30
GS-VK 700	670	1000	980	250	126	30
GS-VK 1200	760	1350	1200	315	126	40
GS-VK 1900	800	2000	1600	400	140	70

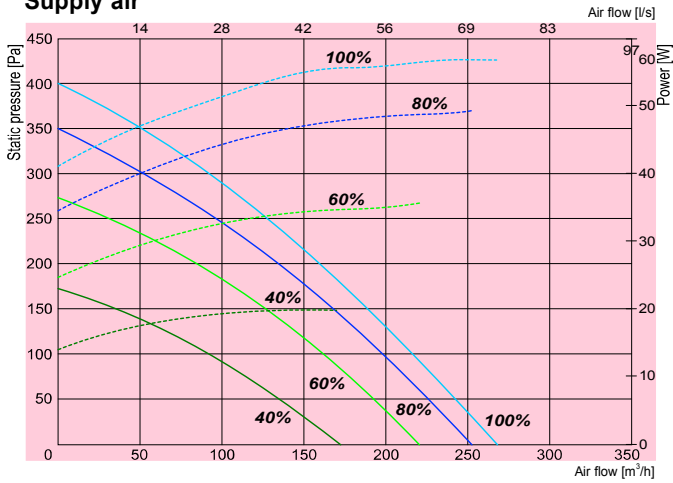
Type	Accessories													
	UNI PRO TPC	1141 RC02-F2 KFF-U	AKS	AVS	AVA	AP SKG	PS	SP	SSB Heating	SSB Cooling	RMG 80/60°C	RMG 60/40°C	VVP/VXP 80/60°C	VVP/VXP 60/40°C
GS-VK-200-E	+	+	125	-	125	125	600	*	-	-	-	-	-	-
GS-VK-200-W	+	+	125	125	125	125	600	**	61	81	3-0,63-4	3-0,63-4	45.10-0,63	45.10-0,63
GS-VK-400-E	+	+	160	-	160	160	600	*	-	-	-	-	-	-
GS-VK-400-W	+	+	160	160	160	160	600	**	61	81	3-0,63-4	3-0,63-4	45.10-0,63	45.10-0,63
GS-VK-700-E	+	+	250	-	250	250	int	*	-	-	-	-	-	-
GS-VK-700-W	+	+	250	250	250	250	int	**	61	81	3-1,0-4	3-0,63-4	45.10-1,0	45.10-0,63
GS-VK-1200-E	+	+	315	-	315	315	int	*	-	-	-	-	-	-
GS-VK-1200-W	+	+	315	int	315	315	int	**	61	81	3-0,63-4	3-0,63-4	45.10-0,63	45.10-0,63
GS-VK-1900-E	+	+	400	-	400	400	int	*	-	-	-	-	-	-
GS-VK-1900-W	+	+	400	400	400	400	int	**	61	-	-	-	-	-

\* - 227S - 230 - 05

\*\* - 341-230-05

# GS-VK

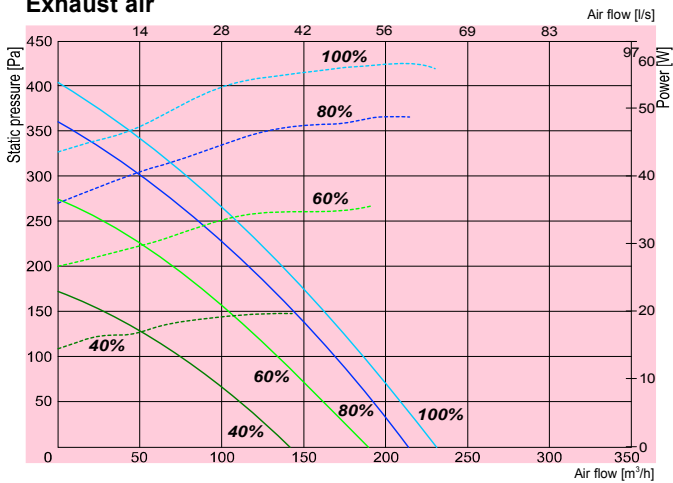
## Supply air



## GS-VK-200-E

— Performance  
- - - - - Power consumption

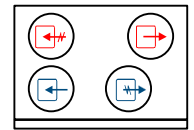
## Exhaust air



## GS-VK-200-E

— Performance  
- - - - - Power consumption

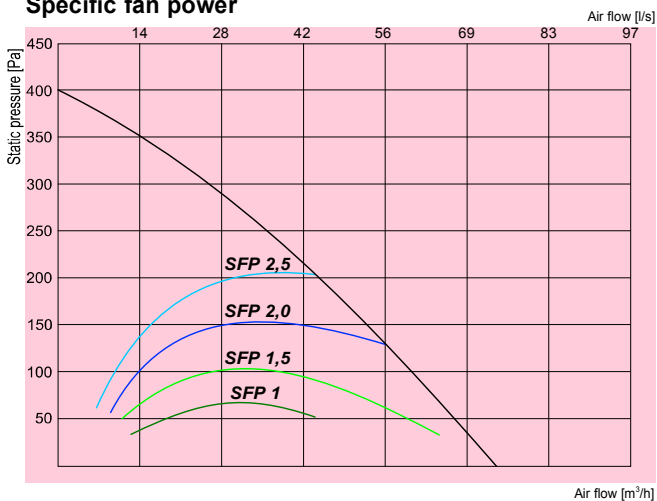
## GS-VK-200-E



View from inspection side

← Exhaust air    
 → Extract air    
 ← Fresh air    
 → Supply air

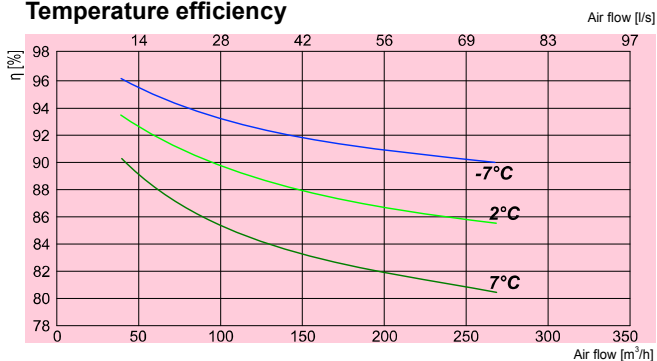
## Specific fan power



## GS-VK-200-E

Heater	-phase/voltage [50Hz/VAC]	~1, 230
	-power consumption [kW]	1,2
EC fans	-phase/voltage [50Hz/VAC]	~1, 230
	- control input [VDC]	0-10
exhaust	-power/current [kW/A]	0,057/0,47
	-fan speed [min <sup>-1</sup> ]	4480
supply	-power/current [kW/A]	0,057/0,47
	-fan speed [min <sup>-1</sup> ]	4480
Thermal efficiency		82%
Max power consumption [kW/A]		1,314/5,71
Automatic control		integrated
Filter class	-exhaust	G3
	-supply	F5
Thermal insulation [mm]		30
Weight [kg]		44,7
Air flow temperature range from -7°C to +40°C		
Designed for operation indoors only		

## Temperature efficiency

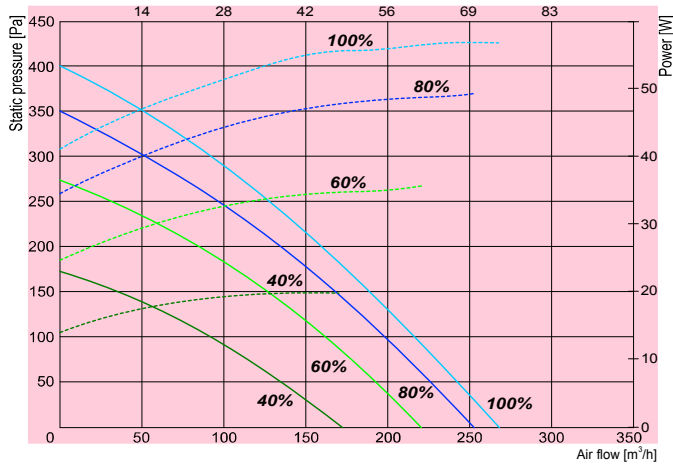


— Extract air = 20°C/60% RH - Outdoor air = -7°C/90% RH  
 Balance between supply air/extract air = 1.0  
— Extract air = 20°C/60% RH - Outdoor air = 2°C/90% RH  
 Balance between supply air/extract air = 1.0  
— Extract air = 20°C/60% RH - Outdoor air = 7°C/90% RH  
 Balance between supply air/extract air = 1.0

Temperature efficiency measured according EN 308.

# GS-VK

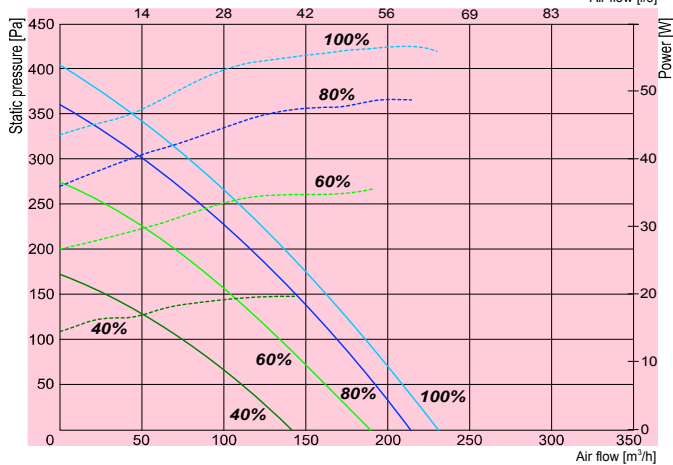
## Supply air



## GS-VK-200-W

— Performance  
- - - - - Power consumption

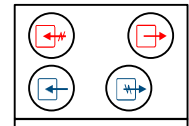
## Exhaust air



## GS-VK-200-W

— Performance  
- - - - - Power consumption

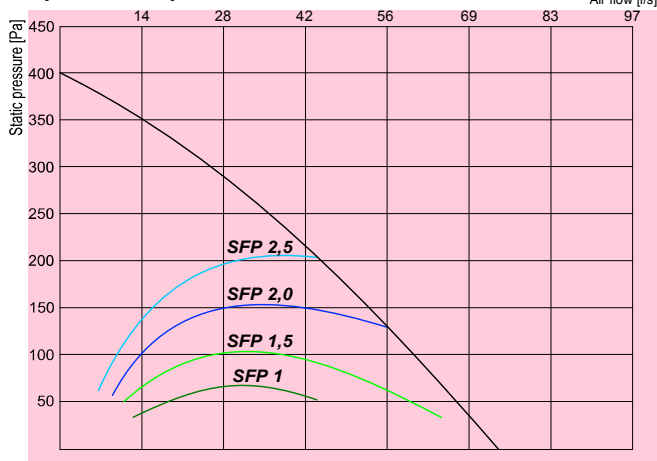
## GS-VK-200-W



View from inspection side

Exhaust air    
 Extract air    
 Fresh air    
 Supply air

## Specific fan power



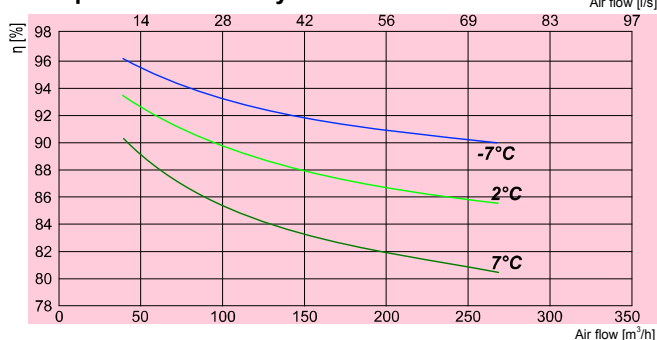
## GS-VK-200-W

Water heater			AVS 125
EC fans	-phase/voltage	[50Hz/VAC]	~1, 230
	- control input	[VDC]	0-10
exhaust	-power/current	[kW/A]	0,057/0,47
	-fan speed	[min <sup>-1</sup> ]	4480
supply	-power/current	[kW/A]	0,057/0,47
	-fan speed	[min <sup>-1</sup> ]	4480
Thermal efficiency			82%
Max power consumption		[kW/A]	0,114/0,94
Automatic control			integrated
Filter class	-exhaust		G3
	-supply		F5
Thermal insulation		[mm]	30
Weight		[kg]	44,7

Air flow temperature range from -7°C to +40°C  
Designed for operation indoors only

$$SFP = \frac{\text{total power for supply \& exhaust fans kW}}{\text{air flow m}^3/\text{h}} \times 3600$$

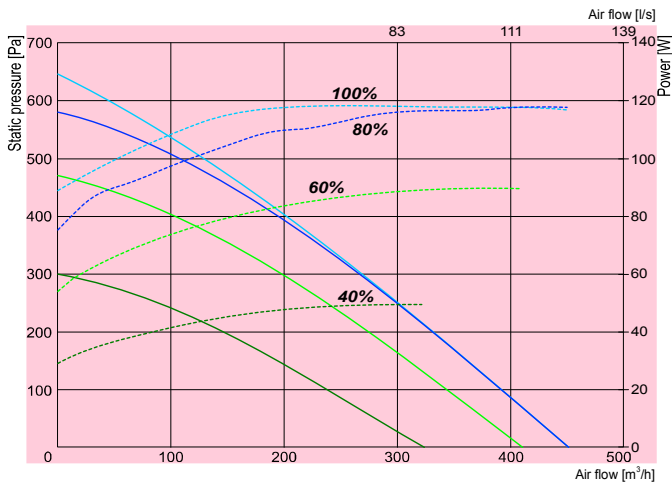
## Temperature efficiency



— Extract air = 20°C/60% RH - Outdoor air = -7°C/90% RH  
 Balance between supply air/exhaust air = 1.0  
— Extract air = 20°C/60% RH - Outdoor air = 2°C/90% RH  
 Balance between supply air/exhaust air = 1.0  
— Extract air = 20°C/60% RH - Outdoor air = 7°C/90% RH  
 Balance between supply air/exhaust air = 1.0

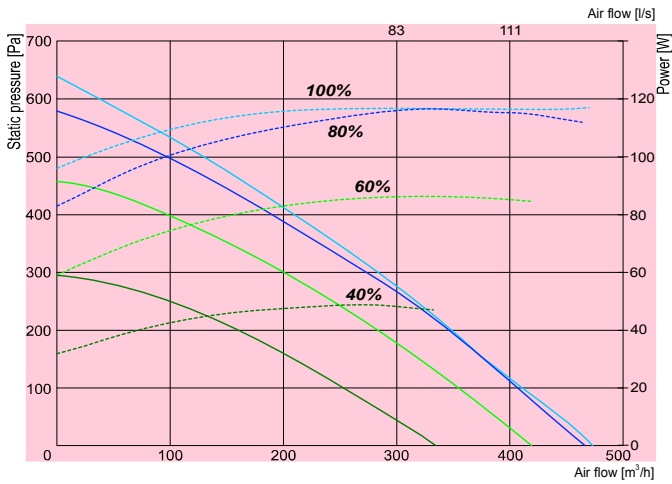
Temperature efficiency measured according EN 308.

# GS-VK



## GS-VK-400-E

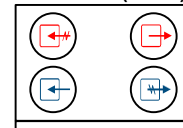
— Performance  
 - - - - - Power consumption



## GS-VK-400-E

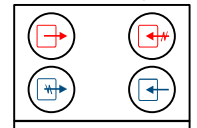
— Performance  
 - - - - - Power consumption

### GS-VK-400-E (Links)



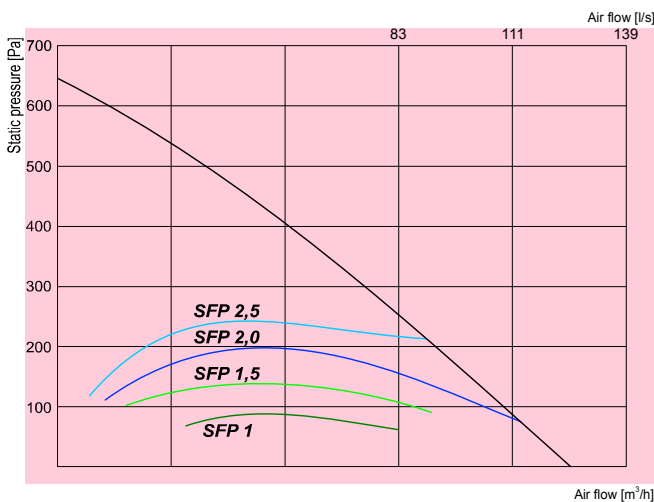
View from inspection side

### GS-VK-400-E (Rechts)



View from inspection side

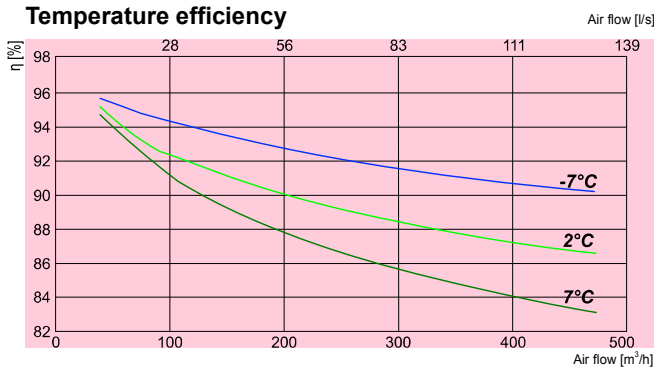
Exhaust air    
 Extract air    
 Fresh air    
 Supply air



### GS-VK-400-E

Heater	-phase/voltage	[50Hz/VAC]	~1, 230
	-power consumption	[kW]	2,4
EC fans	-phase/voltage	[50Hz/VAC]	~1, 230
	- control input	[VDC]	0-10
exhaust	-power/current	[kW/A]	0,117/0,97
	-fan speed	[min <sup>-1</sup> ]	4500
supply	-power/current	[kW/A]	0,117/0,97
	-fan speed	[min <sup>-1</sup> ]	4500
Thermal efficiency			91%
Max power consumption		[kW/A]	2,63/11,43
Automatic control			integrated
Filter class	-exhaust		G3
	-supply		F5
Thermal insulation		[mm]	30
Weight		[kg]	50,0
Air flow temperature range from -7°C to +40°C			
Designed for operation indoors only			

### Temperature efficiency

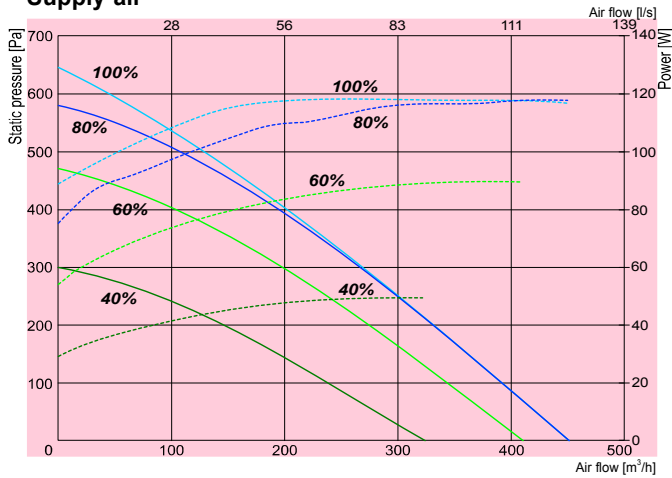


Extract air = 20°C/60% RH - Outdoor air = -7°C/90% RH  
 Balance between supply air/extract air = 1.0  
 Extract air = 20°C/60% RH - Outdoor air = 2°C/90% RH  
 Balance between supply air/extract air = 1.0  
 Extract air = 20°C/60% RH - Outdoor air = 7°C/90% RH  
 Balance between supply air/extract air = 1.0

Temperature efficiency measured according EN 308.

# GS-VK

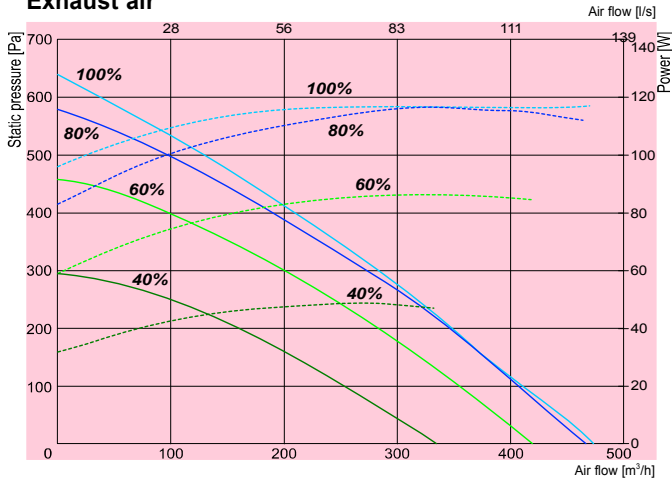
## Supply air



## GS-VK-400-W

— Performance  
- - - Power consumption

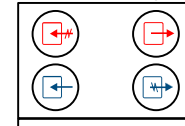
## Exhaust air



## GS-VK-400-W

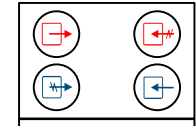
— Performance  
- - - Power consumption

### GS-VK-400-W (Links)



View from inspection side

### GS-VK-400-W (Rechts)



View from inspection side

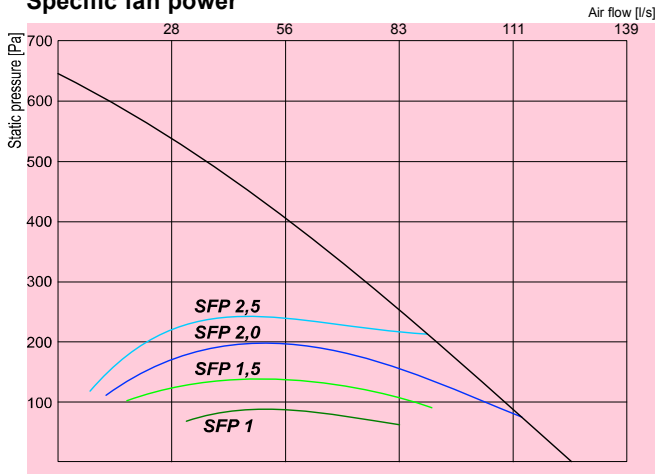
↔ Exhaust air

↔ Extract air

↔ Fresh air

↔ Supply air

## Specific fan power

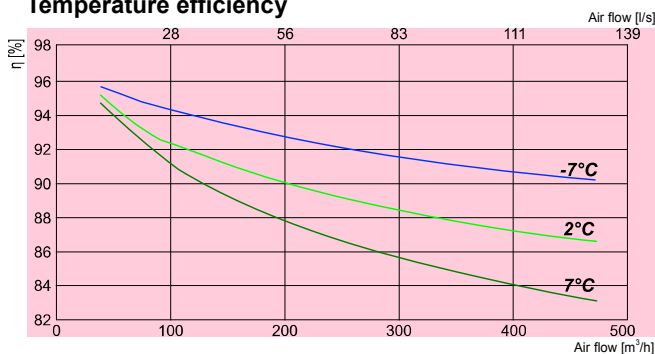


$$SFP = \frac{\text{total power for supply \& exhaust fans kW}}{\text{air flow m}^3/\text{h}} \times 3600$$

## GS-VK-400-W

Water heater		AVS 160
EC fans	-phase/voltage [50Hz/VAC]	~1, 230
	- control input [VDC]	0-10
exhaust	-power/current [kW/A]	0,117/0,97
	-fan speed [min <sup>-1</sup> ]	4500
supply	-power/current [kW/A]	0,117/0,97
	-fan speed [min <sup>-1</sup> ]	4500
Thermal efficiency		91%
Max power consumption	[kW/A]	0,234/1,94
Automatic control		integrated
Filter class	-exhaust	G3
	-supply	F5
Thermal insulation	[mm]	30
Weight	[kg]	50,0
Air flow temperature range from -7°C to +40°C		
Designed for operation indoors only		

## Temperature efficiency

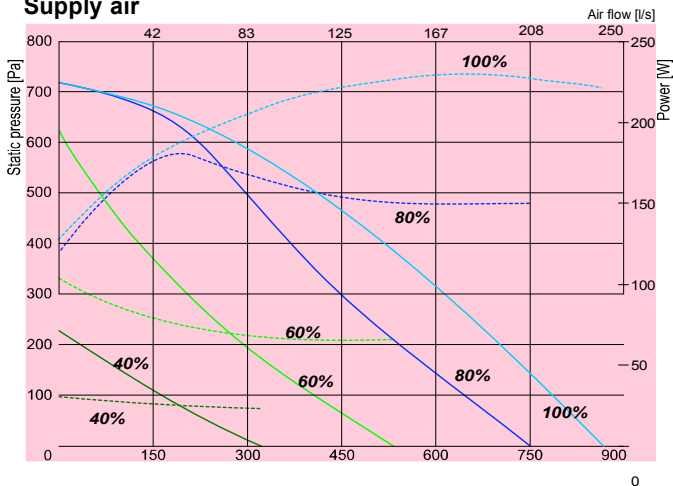


- Extract air = 20°C/60% RH - Outdoor air = -7°C/90% RH  
Balance between supply air/extract air = 1.0
- Extract air = 20°C/60% RH - Outdoor air = 2°C/90% RH  
Balance between supply air/extract air = 1.0
- Extract air = 20°C/60% RH - Outdoor air = 7°C/90% RH  
Balance between supply air/extract air = 1.0

Temperature efficiency measured according EN 308.

# GS-VK

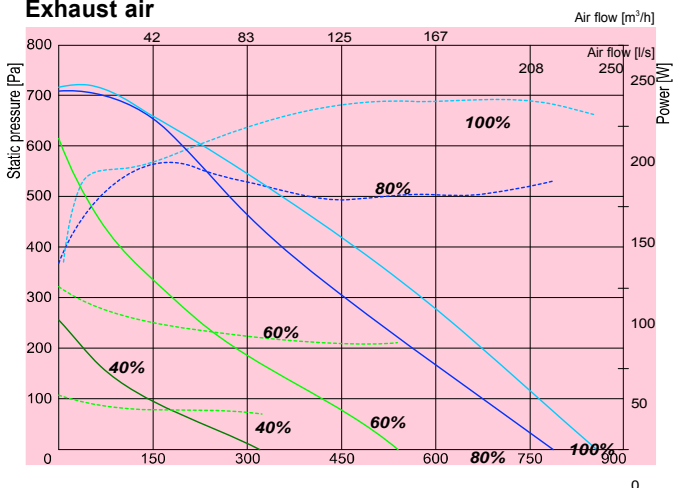
## Supply air



## GS-VK-700-E

— Performance  
- - - Power consumption

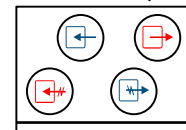
## Exhaust air



## GS-VK-700-E

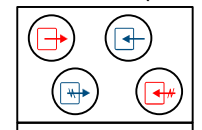
— Performance  
- - - Power consumption

### GS-VK-700-E (Links)



View from inspection side

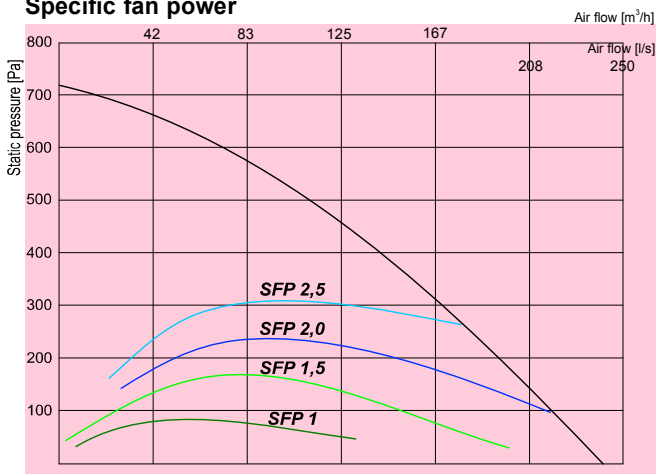
### GS-VK-700-E (Rechts)



View from inspection side

Exhaust air    
 Extract air    
 Fresh air    
 Supply air

## Specific fan power



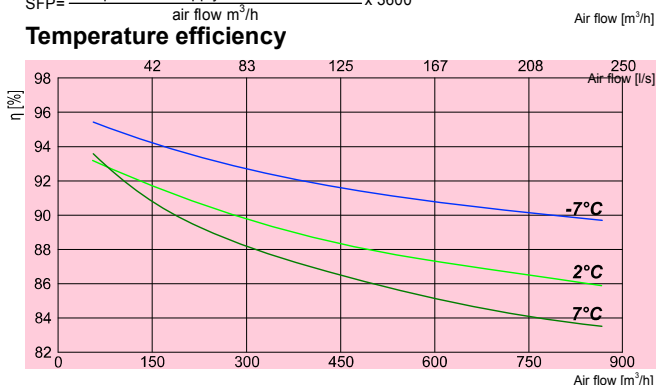
## GS-VK-700-E

Heater	-phase/voltage [50Hz/VAC]	~1,230
	-power consumption [kW]	1,2
EC fans	-phase/voltage [50Hz/VAC]	~1,230
exhaust	-power/current [kW/A]	0,218/1,64
	-fan speed [min <sup>-1</sup> ]	3380
supply	-power/current [kW/A]	0,230/1,66
	-fan speed [min <sup>-1</sup> ]	3380
Thermal efficiency		91%
Max power consumption	[kW/A]	1,65/7,17
Automatic control		integrated
Filter class	-exhaust	F5
	-supply	F5
Thermal insulation	[mm]	30
Weight	[kg]	110,0

Air flow temperature range from -7°C to +40°C  
Designed for operation indoors only

$$SFP = \frac{\text{total power for supply \& exhaust fans kW} \times 3600}{\text{air flow m}^3/\text{h}}$$

## Temperature efficiency

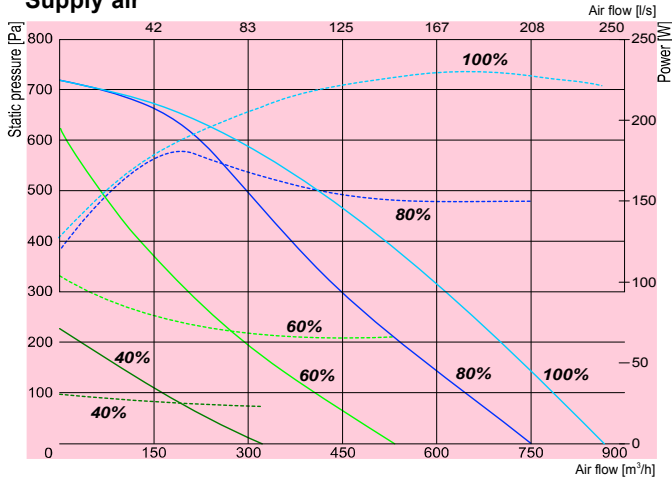


Extract air = 20°C/60% RH - Outdoor air = -7°C/90% RH  
 Balance between supply air/extract air = 1.0  
 Extract air = 20°C/60% RH - Outdoor air = 2°C/90% RH  
 Balance between supply air/extract air = 1.0  
 Extract air = 20°C/60% RH - Outdoor air = 7°C/90% RH  
 Balance between supply air/extract air = 1.0

Temperature efficiency measured according EN 308.

# GS-VK

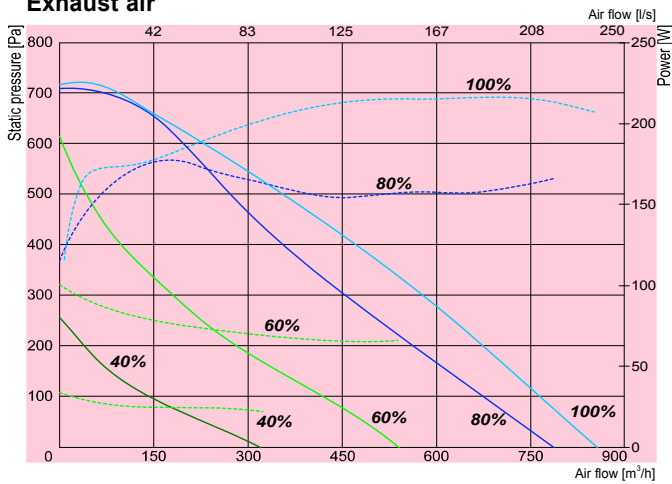
## Supply air



## GS-VK-700-W

— Performance  
- - - Power consumption

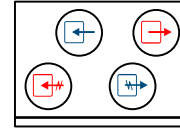
## Exhaust air



## GS-VK-700-W

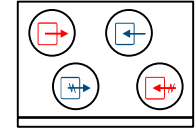
— Performance  
- - - Power consumption

### GS-VK-700-W (Links)



View from inspection side

### GS-VK-700-W (Rechts)



View from inspection side

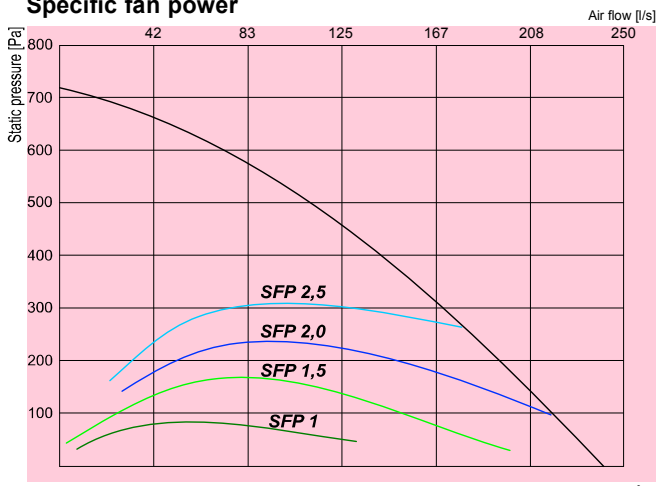
Exhaust air

Extract air

Fresh air

Supply air

## Specific fan power



$$SFP = \frac{\text{total power for supply \& exhaust fans kW} \times 3600}{\text{air flow m}^3/\text{h}}$$

## GS-VK-700-W

Water heater		AVS 250
EC Fans	-phase/voltage [50Hz/VAC]	~1,230
exhaust	-power/current [kW/A]	0,218/1,64
	-fan speed [min <sup>-1</sup> ]	3380
supply	-power/current [kW/A]	0,230/1,66
	-fan speed [min <sup>-1</sup> ]	3380
Motor protection class		IP44
Thermal efficiency		91%
Max power consumption	[kW/A]	0,448/1,95
Automatic control		integrated
Filter class	-exhaust	F5
	supply	F5
Thermal insulation	[mm]	30
Weight	[kg]	110,0

Air flow temperature range from -7°C to +40°C  
Designed for operation indoors only

## Temperature efficiency



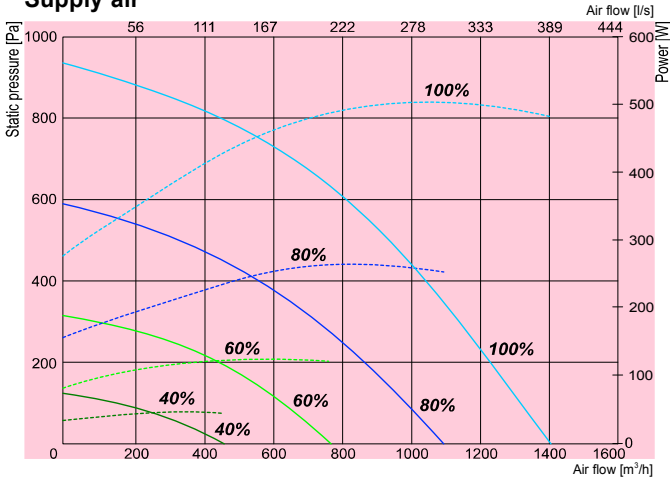
- Extract air = 20°C/60% RH - Outdoor air = -7°C/90% RH  
Balance between supply air/exhaust air = 1.0
- Extract air = 20°C/60% RH - Outdoor air = 2°C/90% RH  
Balance between supply air/exhaust air = 1.0
- Extract air = 20°C/60% RH - Outdoor air = 7°C/90% RH  
Balance between supply air/exhaust air = 1.0

Temperature efficiency measured according EN 308.



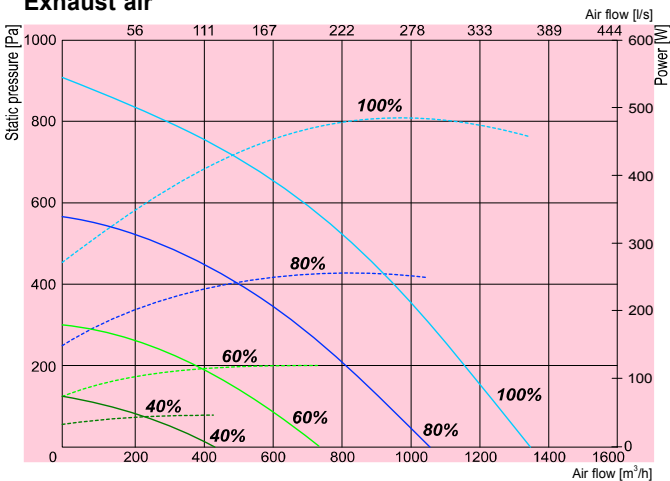
# GS-VK

## Supply air



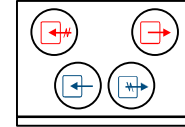
**GS-VK-1200-E**  
 Performance  
 Power consumption

## Exhaust air



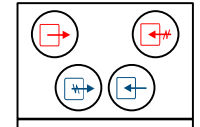
**GS-VK-1200-E**  
 Performance  
 Power consumption

**GS-VK-1200-E (Links)**



View from inspection side

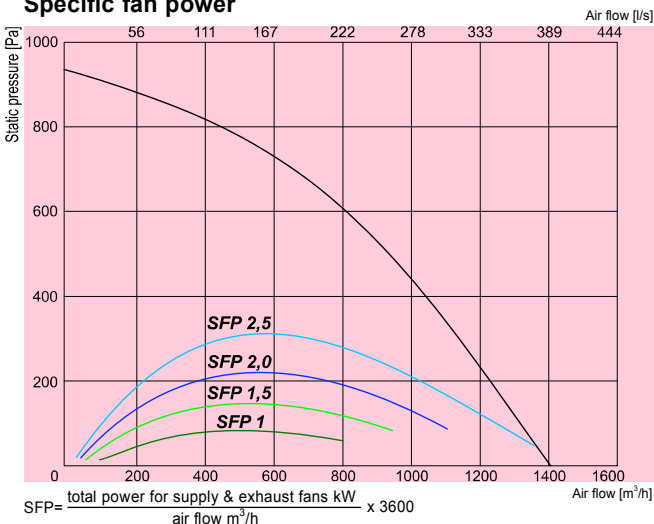
**GS-VK-1200-E (Rechts)**



View from inspection side

Exhaust air    
 Extract air    
 Fresh air    
 Supply air

## Specific fan power

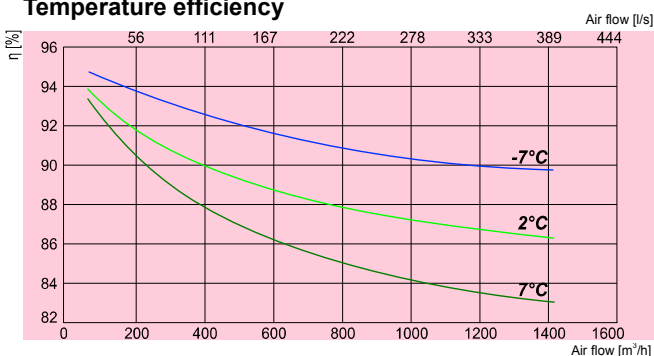


**GS-VK-1200-E**

Heater	-phase/voltage [50Hz/VAC]	~1,230
	-power consumption [kW]	1,2
EC fans	-phase/voltage [50Hz/VAC]	~1,230
	exhaust -power/current [kW/A]	0,480/2,21
	-fan speed [min <sup>-1</sup> ]	3100
supply	-power/current [kW/A]	0,501/2,3
	-fan speed [min <sup>-1</sup> ]	3100
Thermal efficiency		91%
Max power consumption [kW/A]		2,2/9,57
Automatic control		integrated
Filter class	-exhaust	F5
	-supply	F5
Thermal insulation [mm]		50
Weight [kg]		152,0

Air flow temperature range from -7°C to +40°C  
 Designed for operation indoors only

## Temperature efficiency

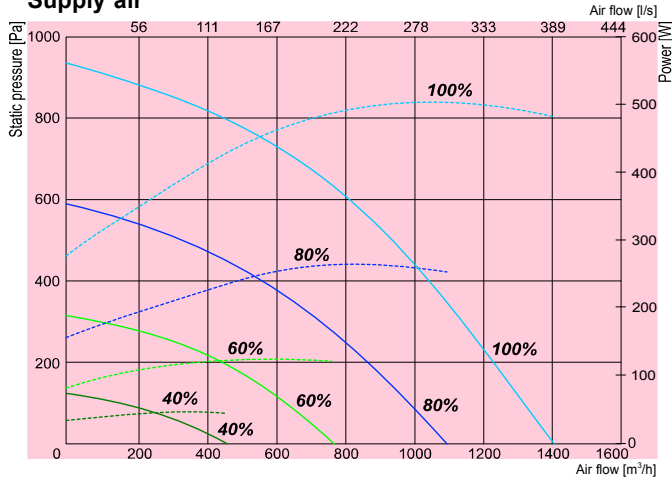


Extract air = 20°C/60% RH - Outdoor air = -7°C/90% RH  
 Balance between supply air/extract air = 1.0  
 Extract air = 20°C/60% RH - Outdoor air = 2°C/90% RH  
 Balance between supply air/extract air = 1.0  
 Extract air = 20°C/60% RH - Outdoor air = 7°C/90% RH  
 Balance between supply air/extract air = 1.0

Temperature efficiency measured according EN 308.

# GS-VK

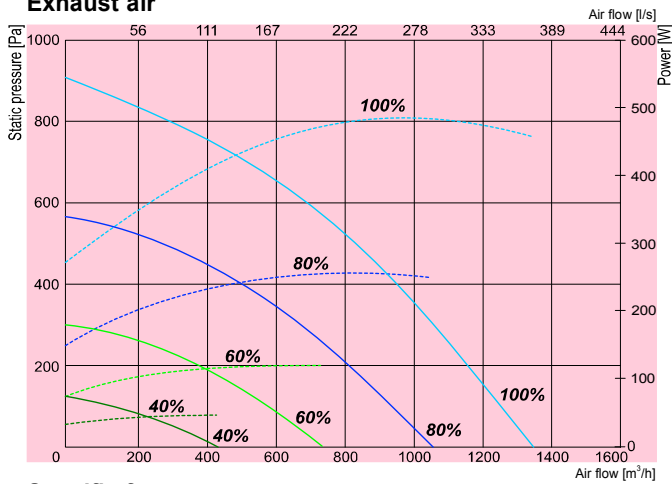
## Supply air



## GS-VK-1200-W

Performance  
Power consumption

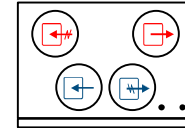
## Exhaust air



## GS-VK-1200-W

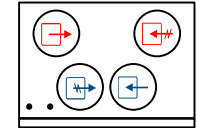
Performance  
Power consumption

### GS-VK-1200-W (Links)



View from inspection side

### GS-VK-1200-W (Rechts)



View from inspection side

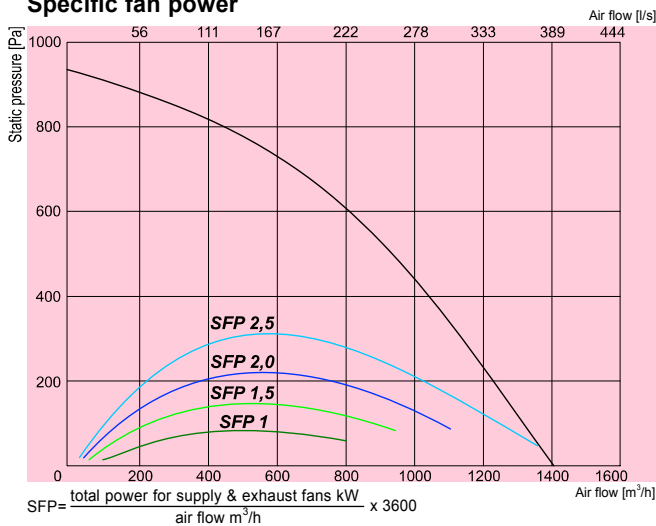
Exhaust air

Extract air

Fresh air

Supply air

## Specific fan power



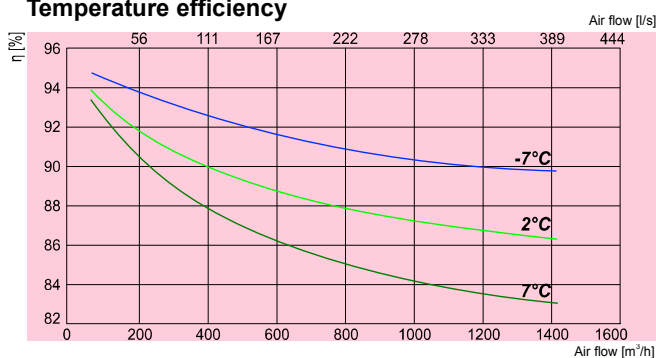
## GS-VK-1200-W

Water heater	-power	[kW]	4,04
	-water temp. $T_{in}/T_{out}$	[°C]	80/60
	-water flow rate	[l/s]	0,05
	-water pressure drop	[kPa]	4,9
	- kvs value	[m³/h]	0,82
EC Fans	-phase/voltage	[50Hz/VAC]	~1,230
exhaust	-power/current	[kW/A]	0,480/2,21
	-fan speed	[min⁻¹]	3100
supply	-power/current	[kW/A]	0,501/2,3
	-fan speed	[min⁻¹]	3100
Motor protection class			IP44
Thermal efficiency			91%
Max power consumption		[kW/A]	0,98/4,26
Automatic control			integrated
Filter class	-exhaust		F5
	supply		F5
Thermal insulation		[mm]	50
Weight		[kg]	152,0

Air flow temperature range from -7°C to +40°C

Designed for operation indoors only

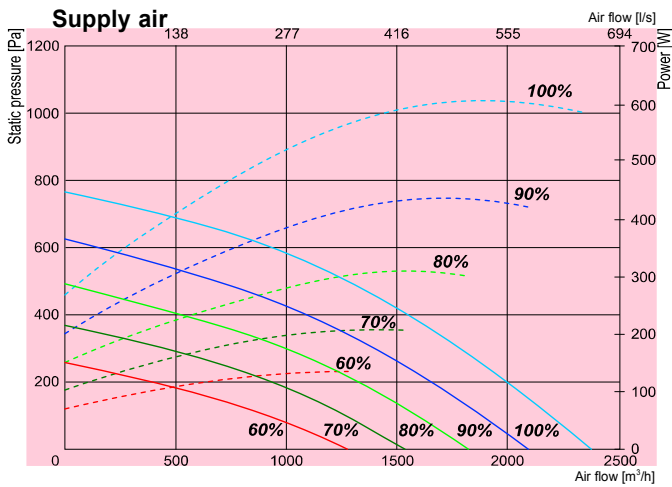
## Temperature efficiency



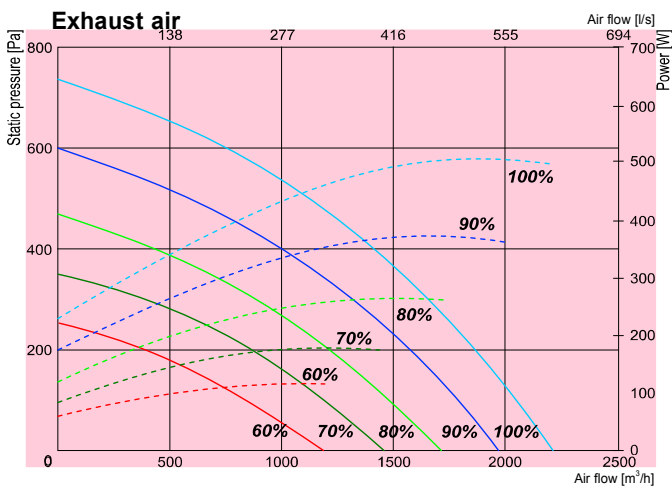
- Extract air = 20°C/60% RH - Outdoor air = -7°C/90% RH  
Balance between supply air/extract air = 1.0
- Extract air = 20°C/60% RH - Outdoor air = 2°C/90% RH  
Balance between supply air/extract air = 1.0
- Extract air = 20°C/60% RH - Outdoor air = 7°C/90% RH  
Balance between supply air/extract air = 1.0

Temperature efficiency measured according EN 308.

# GS-VK

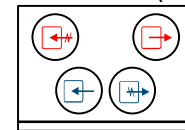


**GS-VK-1900-E**  
Performance  
Power consumption



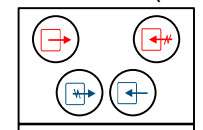
**GS-VK-1900-E**  
Performance  
Power consumption

**GS-VK-1900-E (Links)**



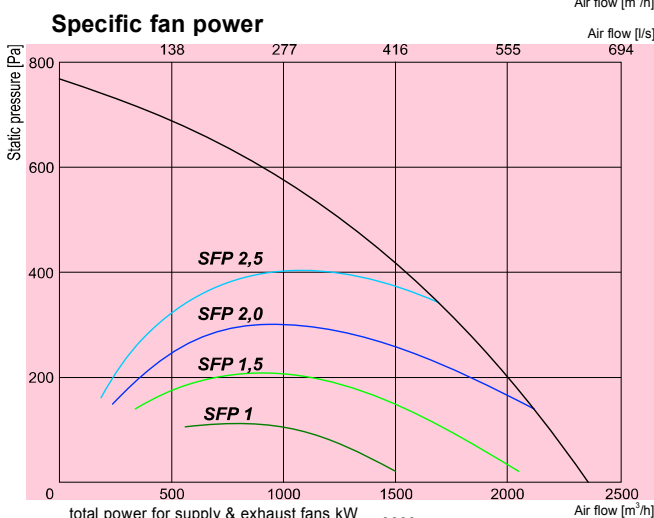
View from inspection side

**GS-VK-1900-E (Rechts)**



View from inspection side

Exhaust air    
 Extract air    
 Fresh air    
 Supply air



**GS-VK-1900-E**

Heater	-phase/voltage [50Hz/VAC]	~1,230
	-power consumption [kW]	2,0
EC fans	-phase/voltage [50Hz/VAC]	~1,230
	exhaust -power/current [kW/A]	0,585/2,61
	-fan speed [min <sup>-1</sup> ]	2600
supply	-power/current [kW/A]	0,597/2,68
	-fan speed [min <sup>-1</sup> ]	2600
Thermal efficiency		92%
Max power consumption [kW/A]		3,2/14
Automatic control		integrated
Filter class	-exhaust	F5
	-supply	F5
Thermal insulation [mm]		50
Weight [kg]		290,0

Air flow temperature range from -7°C to +40°C  
Designed for operation indoors only

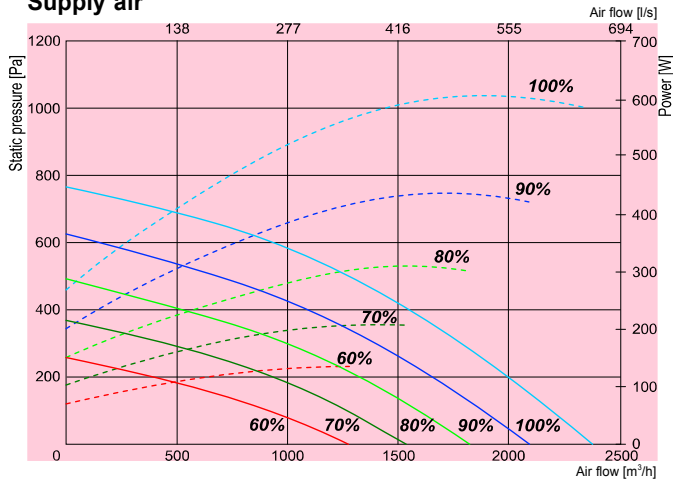


- Extract air = 20°C/60% RH - Outdoor air = -7°C/90% RH  
Balance between supply air/extract air = 1.0
- Extract air = 20°C/60% RH - Outdoor air = 2°C/90% RH  
Balance between supply air/extract air = 1.0
- Extract air = 20°C/60% RH - Outdoor air = 7°C/90% RH  
Balance between supply air/extract air = 1.0

Temperature efficiency measured according EN 308.

# GS-VK

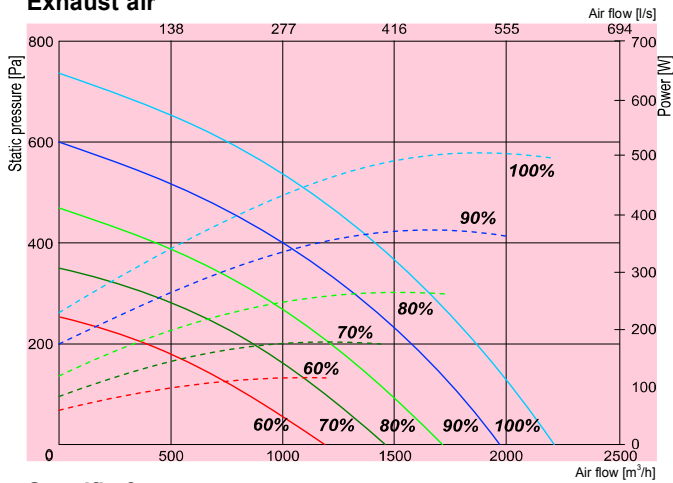
## Supply air



## GS-VK-1900-W

— Performance  
- - - - - Power consumption

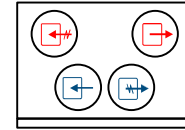
## Exhaust air



## GS-VK-1900-W

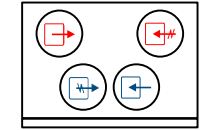
— Performance  
- - - - - Power consumption

### GS-VK-1900-W (Links)



View from inspection side

### GS-VK-1900-W (Rechts)



View from inspection side

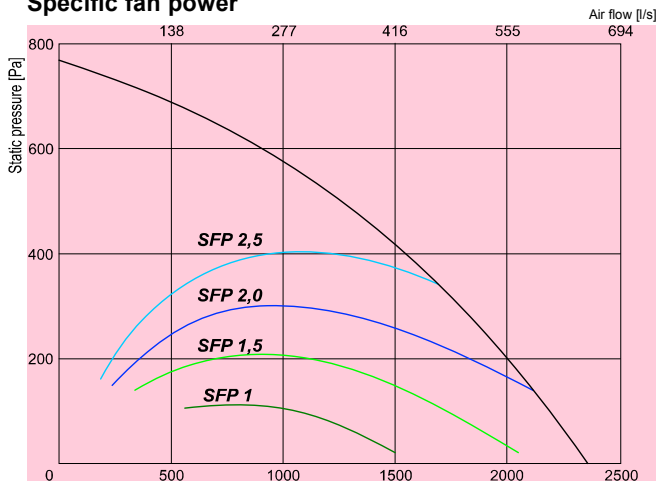
← Exhaust air

→ Extract air

← Fresh air

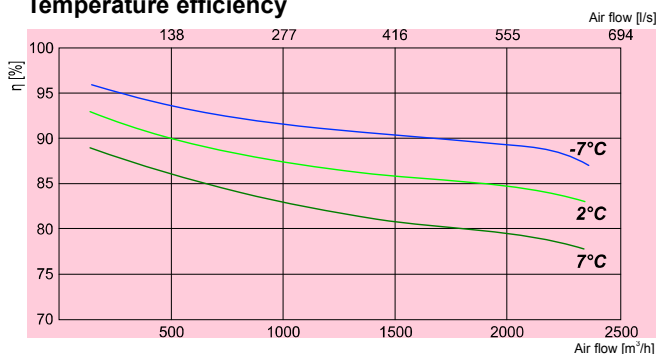
→ Supply air

## Specific fan power



$$SFP = \frac{\text{total power for supply \& exhaust fans kW}}{\text{air flow m}^3/\text{h}} \times 3600$$

## Temperature efficiency



- Extract air = 20°C/60% RH - Outdoor air = -7°C/90% RH  
Balance between supply air/extract air = 1.0
- Extract air = 20°C/60% RH - Outdoor air = 2°C/90% RH  
Balance between supply air/extract air = 1.0
- Extract air = 20°C/60% RH - Outdoor air = 7°C/90% RH  
Balance between supply air/extract air = 1.0

Temperature efficiency measured according EN 308.

GS-VK-1900-W	
Water heater	AVA 400, AVS 400
EC Fans	-phase/voltage [50Hz/VAC] ~1,230
exhaust	-power/current [kW/A] 0,585/2,61
	-fan speed [min <sup>-1</sup> ] 2600
supply	-power/current [kW/A] 0,597/2,68
	-fan speed [min <sup>-1</sup> ] 2600
Motor protection class	IP-54
Thermal efficiency	92%
Max power consumption	[kW/A] 1,18/5,29
Automatic control	integrated
Filter class	-exhaust F5
	supply F5
Thermal insulation	[mm] 50
Weight	[kg] 290,0
Air flow temperature range from -7°C to +40°C	
Designed for operation indoors only	