

# VERDERAIR

## VA-EH50



### Description

The VA-EH50 is an electrical driven double diaphragm pump. With the wide range of different available materials for pump body, valve seats, valve balls and diaphragms, this pump is the ideal problem solver in a wide range of applications across many industries. The VA-EH50 can run in “low pulsation mode” to reduce the generated pulsations in the flow or in “transfer mode” to generate a higher flow rate.

### Your benefits

- Energy efficient
- EC1935/2004 and FDA certified
- Smoother flow when operating in “low Pulsation Mode”
- Low noise level
- Can stall against close discharge
- Can run dry without damage
- Dry self priming

Technical Data				
Weight +/- (kg)	Drive option	Fluid & air section		
	WG	SA	90	
		SS	128	
	AC5K5	Extra weight on the drive option WG above	+65	
	BC4K0	Extra weight on the drive option WG above	+50	
	CC3K0/ CC2K2	Extra weight on the drive option WG above	+41	
	AX5K5	Extra weight on the drive option WG above	+117	
	BX4K0	Extra weight on the drive option WG above	+61	
	CX2K2	Extra weight on the drive option WG above	+49	
A2xxx, B2xxx, C2xxx	Extra weight on the drive options above	+13		
Max. Suction lift (mwc)		Dry / Wet	5,5	
Temperature (°C)		Internals		
		NW	-18	82
		SP	-40	82
		TF	4	104
Max. Particle size (mm)			6,3	
Air connection			3/8" NPT(f)	
Air consumption (Nm³/h)			< 0,006	
Max. recommended viscosity (mPas)			20.000	

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VA-EH50



Code VA-EH50 No.1 No.2 No.3 No.4.No.5.No.6.No.7.

**No.1 Fluid section**

\* ⚠ S = Stainless Steel 316, Ra<= 3,2µm

**No.2 Center section**

A = Aluminium  
S = Stainless Steel

**No.3 Check valve seats**

SE = Stainless Steel 316 with EPDM o-rings  
ST = Stainless Steel 316 with PTFE o-rings

**No. 4 Check valve balls**

NW = Neoprene Weighted  
SP = Santoprene  
TF = PTFE

**No. 5 Diaphragms**

SP = Santoprene  
TF = PTFE/EPDM 2 piece

**No. 6 Connections**

D6 = DIN11851, DN65 male  
T6 = Tri-clamp (ASME BPE), 2 1/2"

**No. 7 Drive options**

\* ⚠ WG = no gearbox -no drive  
AC5K5 = Gearbox with 5,5 kW AC drive (pump speeds : 164, 145 or 130 RPM)

BC4K0 = Gearbox with 4,0 kW AC drive (pump speeds : 105 or 87 RPM)

CC3K0 = Gearbox with 3,0 kW AC drive (pump speeds : 73 RPM)

CC2K2 = Gearbox with 2,2 kW AC drive (pump speeds : 54 RPM)

A25K5 = AC5K5 + integrated 240V compressor in frame

B24K0 = BC4K0 + integrated 240V compressor in frame

C23K0 = C23K0 + integrated 240V compressor in frame

C22K2 = C22K2 + integrated 240V compressor in frame

\*\* ⚠ AX5K5 = Gearbox with 5,5 kW ATEX drive (pump speeds : +/-125 RPM)

\*\* ⚠ BX4K0 = Gearbox with 4,0 kW ATEX drive (pump speeds : +/- 90 RPM)

\*\* ⚠ CX2K2 = Gearbox with 2,2 kW ATEX drive (pump speeds : +/- 54 RPM)

Example pump type

**VA-EH50 SA ST TF TF D6 AC5K5**

NOTE not all combinations are available

\* ⚠ II 2 G Ex h IIB T3 Gb

\*\* ⚠ II 2 Ex h d IIB T3 Gb

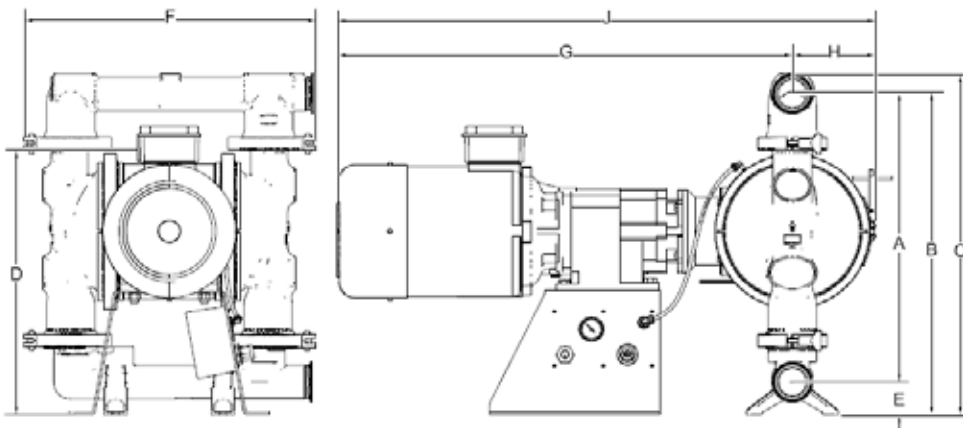
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**Motor and Gearbox Code**

*Dimensions for pumps with Tri-clamp connections in cm*

Ref.	WG	AC	A1. A2	BC	B1. B2	CC	C1. C2	AX	BX	CX	AF	BF	CF
A	55,6	55,6	55,6	55,6	55,6	55,6	55,6	55,6	55,6	55,6	55,6	55,6	55,6
B	61,9	61,9	61,9	61,9	61,9	61,9	61,9	61,9	61,9	61,9	61,9	61,9	61,9
C	66,0	66,0	66,0	66,0	66,0	66,0	66,0	66,0	66,0	66,0	66,0	66,0	66,0
D	-	51,3	51,3	49,3	49,3	48,3	48,3	53,8	51,8	51,8	34,3	35,3	26,4
E	6,4	6,4	6,4	6,4	6,4	6,4	6,4	6,4	6,4	6,4	6,4	6,4	6,4
F	55,9	55,9	55,9	55,9	55,9	55,9	55,9	55,9	55,9	55,9	55,9	55,9	55,9
G	21,1	87,9	87,9	81,8	81,8	77,2	77,2	105,2	88,6	86,1	111,3	95,3	95,0
H	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0
J	37,1	103,9	103,9	97,8	97,8	93,0	93,0	121,2	104,6	102,1	127,3	111,0	111,0



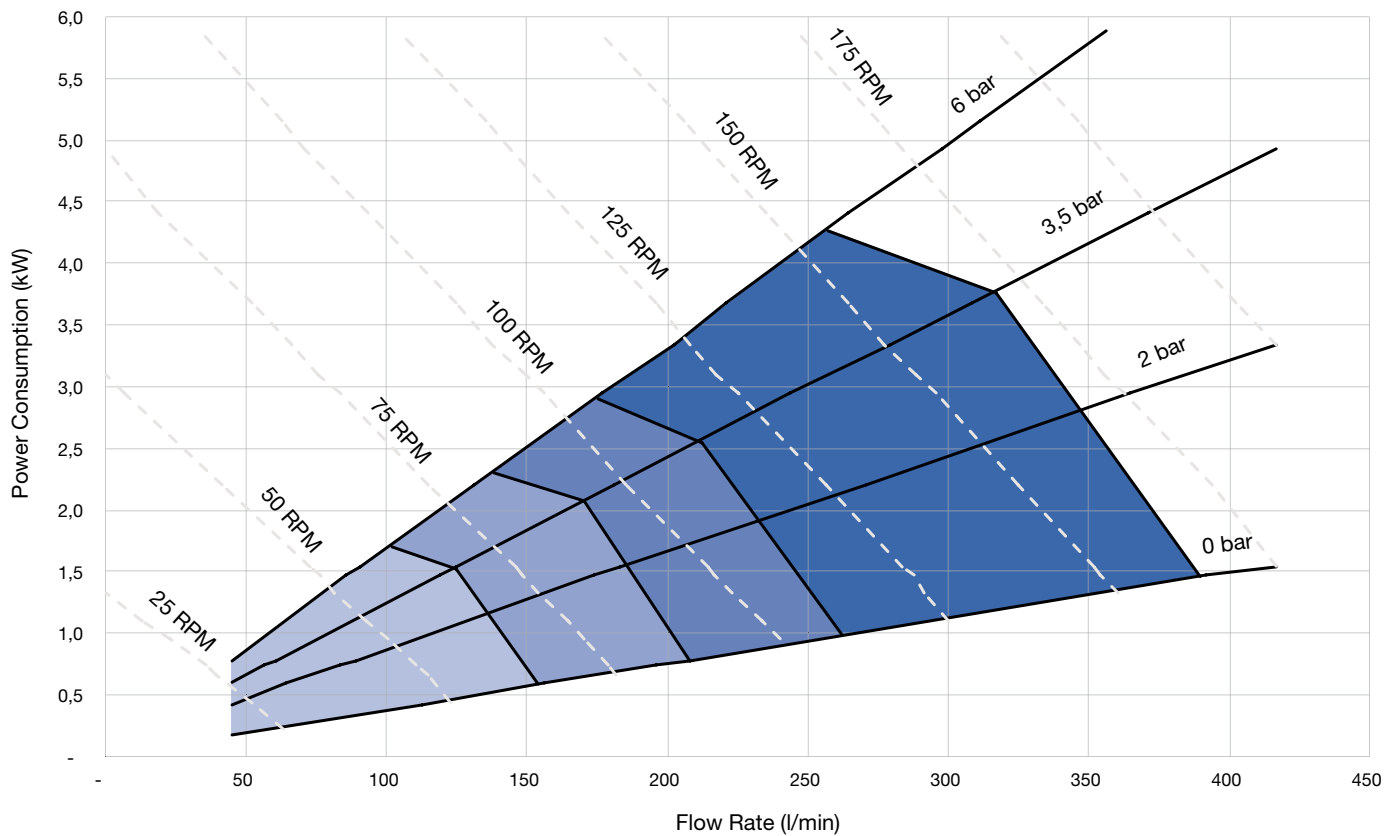
*All dimensions are in cm.*

*All dimensions are for guidance only.*

*For dimensions of pumps with DIN connections \ please contact your local supplier.*

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## VA-EH50



2.2 kW recommended
  3.0 kW recommended
  4.0 kW recommended
  5.5 kW recommended

080-VA-18\_Datasheets\_VA-EH50\_EU



Find your local supplier at [www.verderair.com](http://www.verderair.com)

For construction, installation and floor mounting drawings please contact your local authorised Verderair® distributor.

**VERDER**  
passion for pumps