

MAF



Single-channel open impeller



General characteristics

Single-channel open impeller	
motor power	0,74 kW
poles	4
discharge	DN65 ÷ DN100 horizontal
free passage	max 55 mm
max flow rate	17.6 l/s
max head	6.9 m

All product images are indicative only

Electromechanical assembly

Electromechanical assembly in GJL-250 cast iron, for submerged operation. Seal set comprising 2 (two) silicon carbide mechanical seals assembled opposing in inspectable oil sump. Ecological dry motor. Series with explosion-proof ATEX certification.

Applications

Designed specifically for use where there are traces of flammable liquids or in potentially explosive atmospheres, the MAF can be used with liquids containing traces of flammable substances, and in gassy environments.

Construction materials

Case	Cast iron EN-GJL 250
Impeller	Cast iron EN-GJL-250
Nuts and bolts	Stainless steel - Class A2-70
Standard gasket	Rubber - NBR - VITON
Shaft	Stainless steel - AISI 420
Paint type	Ecological bicomponent epoxy (medium thickness 150 µm)
Set of standard mechanical seals	Two silicon carbide mechanical seals (2SiC)

Operating limits

Maximum operating temperature	40 °C
PH of treated fluid	6 ÷ 14
Viscosity of treated fluid	1 mm ² /s
Maximum immersion depth	20 m
Density of treated fluid	1 Kg/dm ³
Maximum acoustic pressure	70 dB
max starts per hour	30

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CE 0496 Ex II 2GD Ex db k c IIB T4 Ex tb IIIC T135°C IP68

Models with ATEX certification, suitable for installation in the presence of potentially explosive gases, powders and liquids



Handle/Cable gland

Cast iron lifting and carrying handle. The GAS thread ring-nut can be removed to fix a rigid or flexible duct to the cable gland to protect the power supply cable.



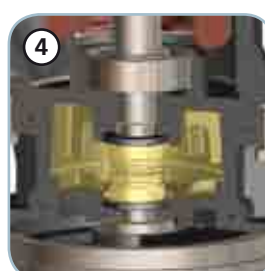
Motor

Ecological dry motor with thermal protections.



Mechanical seals

Two silicon carbide (SiC) mechanical seals in oil sump.



Oil sump

Large oil sump to guarantee longer mechanical seal lifetime.



Drive shaft

Impeller connected to the drive shaft by means of tapered coupling.



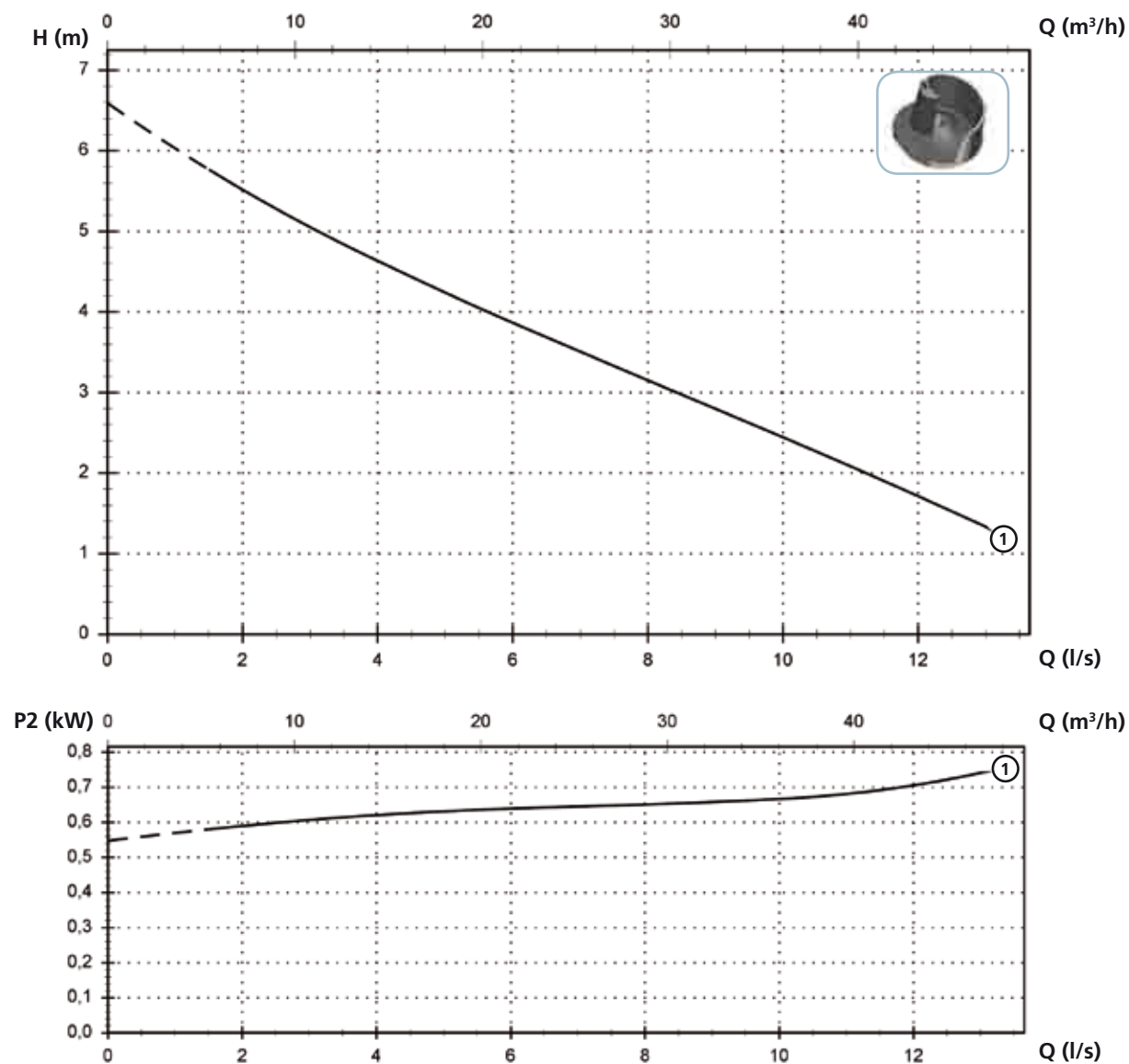
Free passage

Wide free passage allowing the expulsion of solids and preventing fouling of the impeller.

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Models with horizontal DN65 PN10-16 flanged discharge - 4 poles

Performances



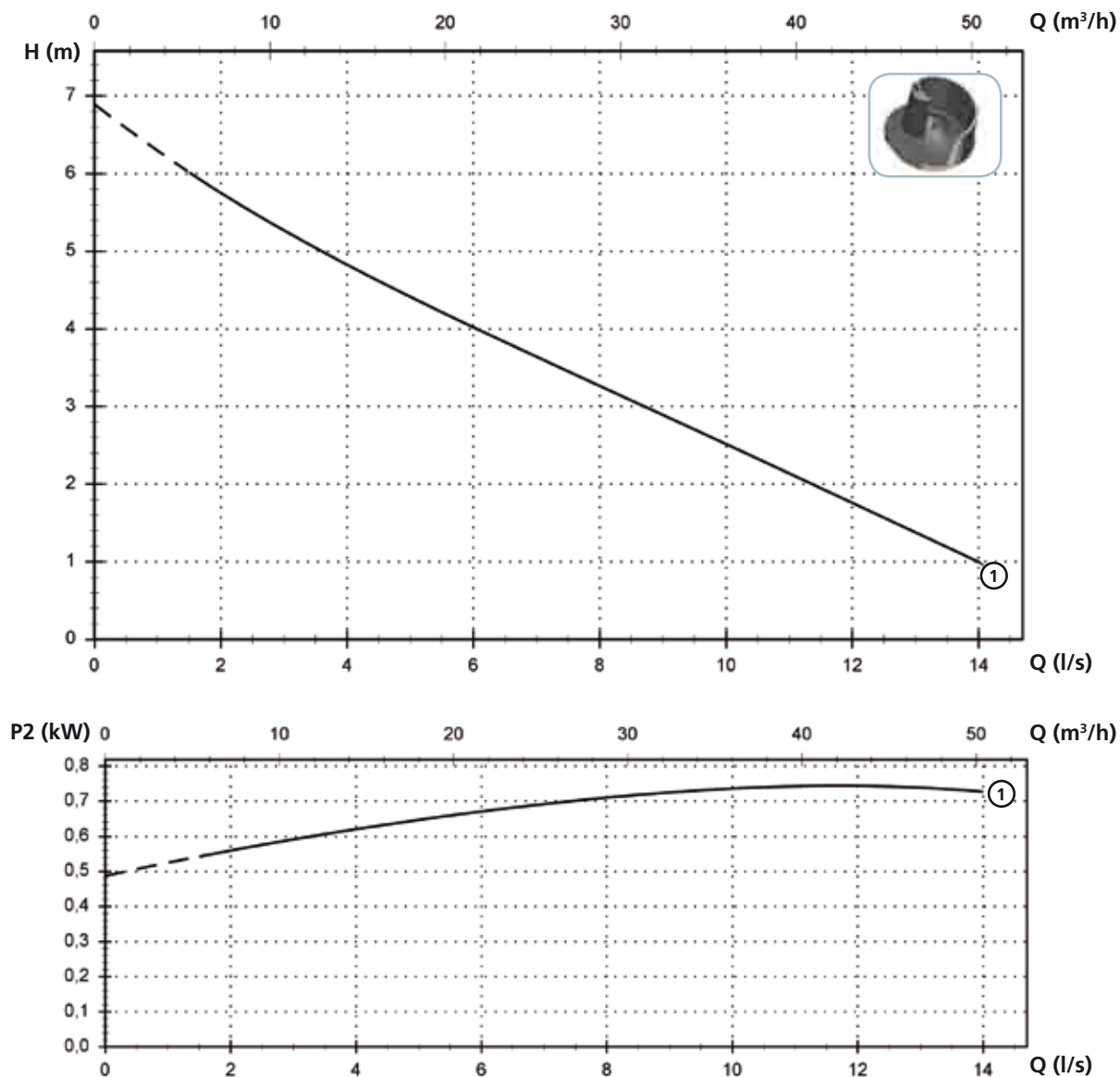
Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Ø	Free passage
① MAF 100/4/65 A1CT/50	400	3	1.1	0.74	2.2	1450	Dir	DN65 PN10-16	50 mm

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Models with horizontal DN80 PN10-16 flanged discharge - 4 poles

Performances



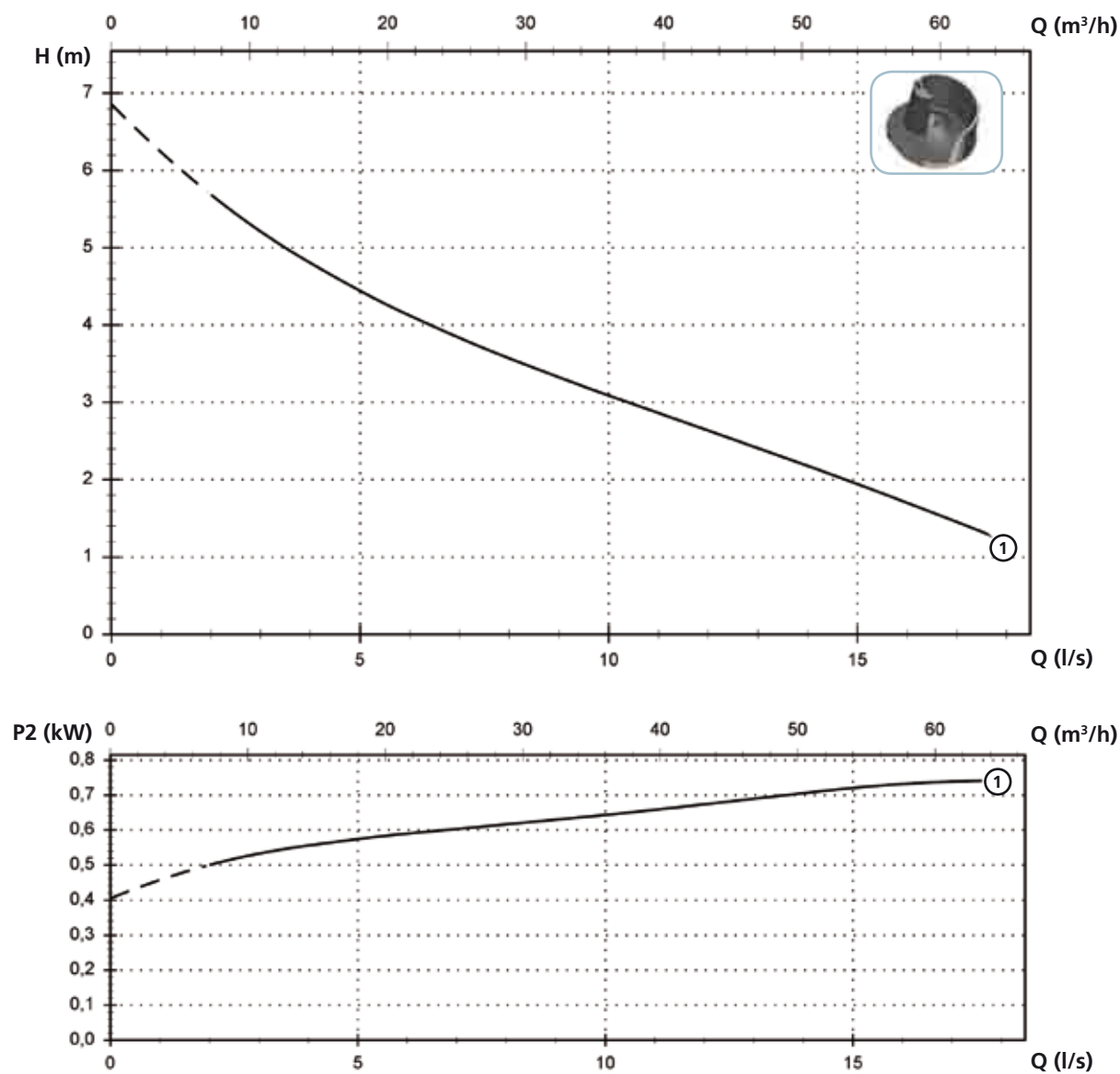
Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Ø	Free passage
① MAF 100/4/80 A1CT/50	400	3	1.1	0.74	2.2	1450	Dir	DN80 PN10-16	50 mm

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Models with horizontal DN100 PN10-16 flanged discharge - 4 poles

Performances



Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Ø	Free passage
① MAF 100/4/100 A1CT/50	400	3	1.1	0.74	2.2	1450	Dir	DN100 PN10-16	55 mm

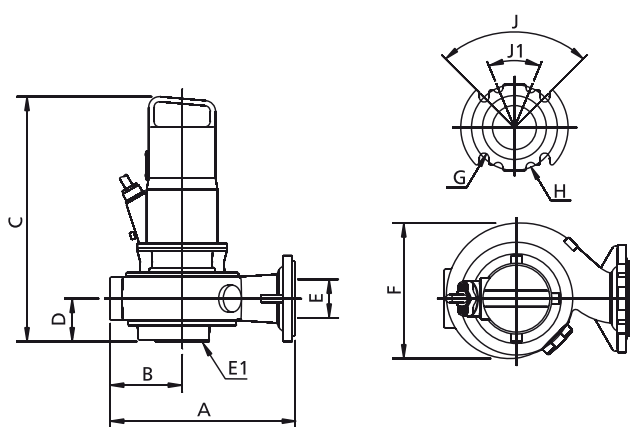
Versions available

(Key to versions on page 16)

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	Electrical variants												Cooling				Mechanical seals			
	N A E	T	T C	T C D	T C D T	T C D G T	T C G	T C S T	T C S G T	T S	T R	T R G	N	CC CCE	FT	C G F T	2SIC	SICM	SICAL	2SICAL
MAF 100/4/65 A1CT/50		●											●				●			
MAF 100/4/80 A1CT/50		●											●				●			
MAF 100/4/100 A1CT/50		●											●				●			

Overall dimensions and weights



	A	B	C	D	E	E1 (*)	F	G	H	J	J1	kg
MAF 100/4/65 A1CT/50	345	135	455	80	65	65	255	18	145	90°	-	42
MAF 100/4/80 A1CT/50	345	135	455	80	80	80	255	18	160	90°	45°	42
MAF 100/4/100 A1CT/50	430	170	475	90	100	80	325	18	180	45°	-	48

Dimensions in mm

All weights and dimensions are indicative only

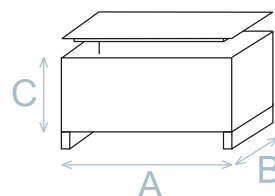
(*) DN of the suction flange - PN6

Packaging dimension

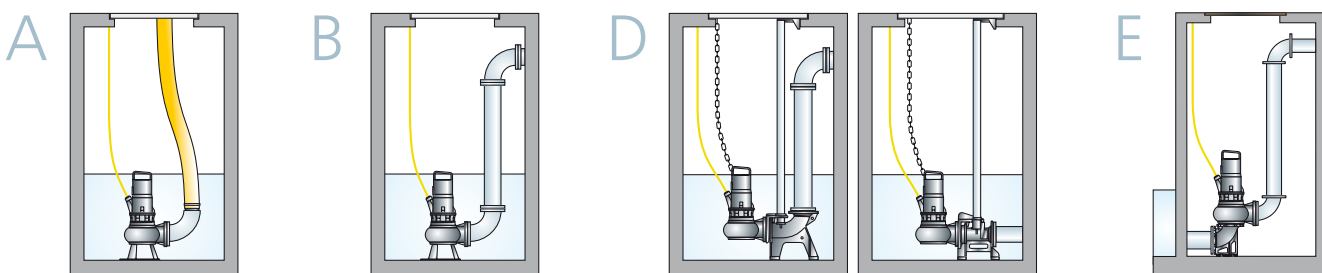
	A	B	C
MAF 100/4/65 A1CT/50	725	445	415
MAF 100/4/80 A1CT/50	725	445	415
MAF 100/4/100 A1CT/50	725	445	415

Dimension in mm

All weights and dimensions are indicative only



Installations available



Dry installation available in S3 mode.
Contact Customer Service for more information.