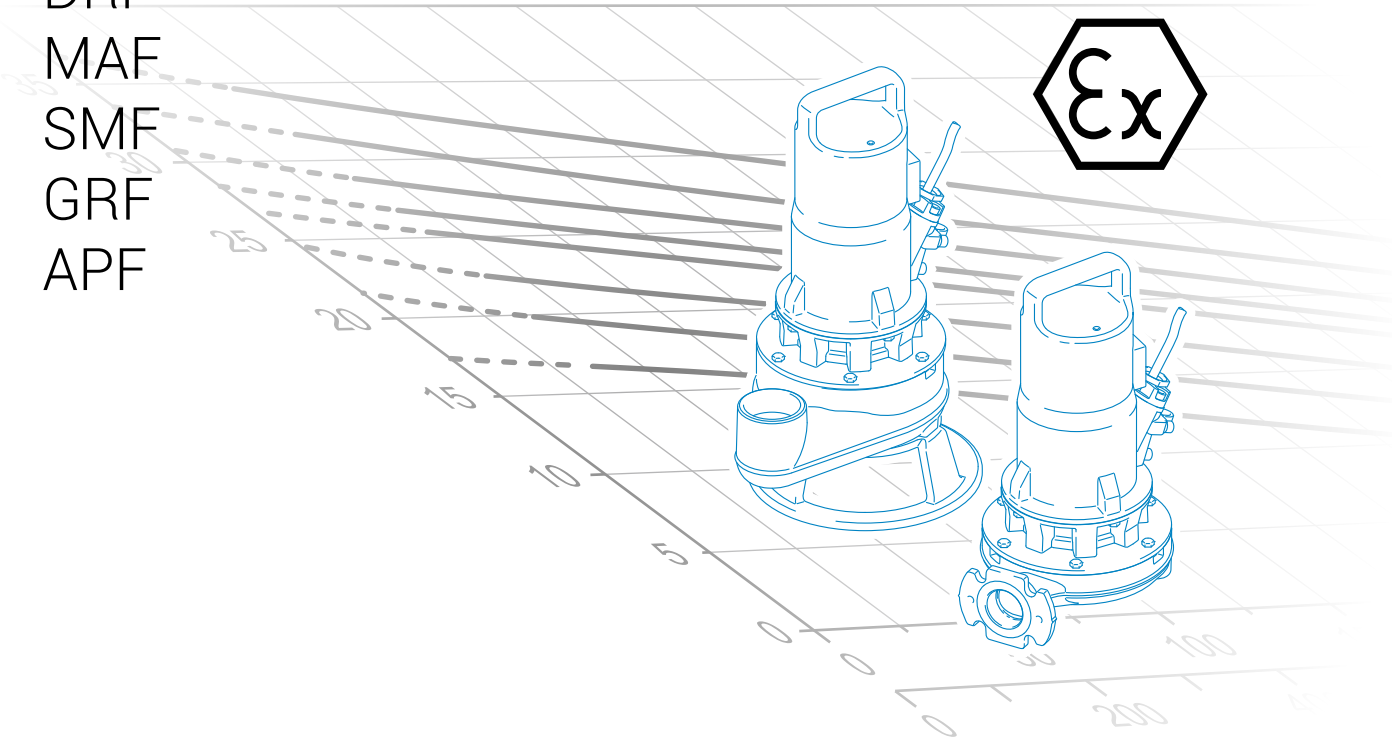




water solutions

F Series

- DGF
- DRF
- MAF
- SMF
- GRF
- APF





water solutions

F Series

DGF

DRF

MAF

SMF

GRF

APF



D A T A B O O K L E T

F Series

General characteristics

- 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
- Large oil sump to guarantee longer mechanical seal lifetime
- Two silicon carbide (2SiC) mechanical seals in oil sump
- Impeller connected to the drive shaft by means of tapered coupling (DGF, DRF, MAF, SMF)



Hydraulic families



DG (Draga)

page 8

- Set-back vortex impeller
- Specifically developed for use where there are traces of flammable liquids or in potentially explosive atmospheres, the DGF is used where the use of ordinary submersible electric pumps would not be possible. The main sectors of use are industrial and for the removal of landfill percolates and soiled biological liquids



DR (Dreno)

page 20

- Multi-channel open impeller
- Specifically developed for use with flammable liquids or in potentially explosive atmospheres, the DRF is used where the use of ordinary submersible electric pumps would not be possible. The main sectors of use are industrial and for the removal of landfill percolates



MA (MACS)

page 30

- Single-channel open impeller
- 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



SM (SYSTEM M)

page 35

- Single-channel closed impeller
- Designed specifically for operation where there are traces of flammable liquids or in potentially explosive atmospheres, the SMF can be used with soiled liquids containing traces of flammable substances, and in gassy environments



GR (Grinder)

page 38

- Impeller with grinder system
- Designed specifically for use where there are traces of flammable liquids or in potentially explosive atmospheres, the GRF is especially recommended for wastewaters containing filaments or fibres, and unstrained civil and industrial wastewaters in general



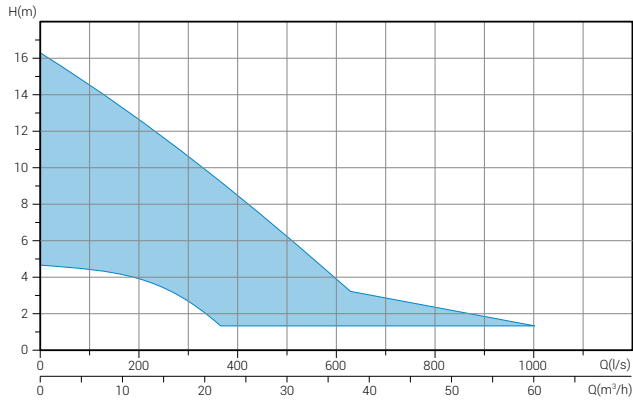
AP (Alta Prevalenza)

page 41

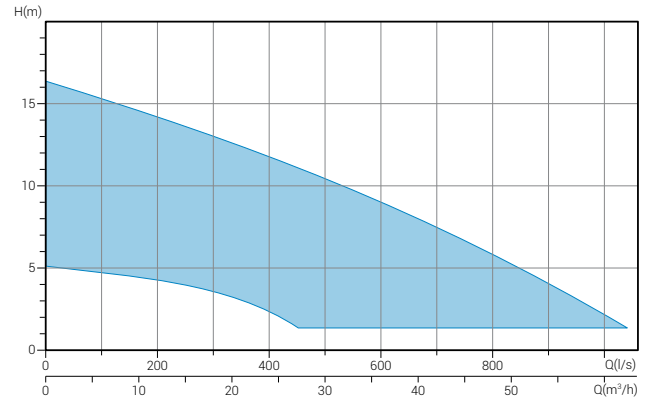
- High head impeller
- Designed specifically for use where there are traces of flammable liquids or in potentially explosive atmospheres, the APF can be used with liquids containing traces of flammable substances, and in gassy environments

Operating ranges

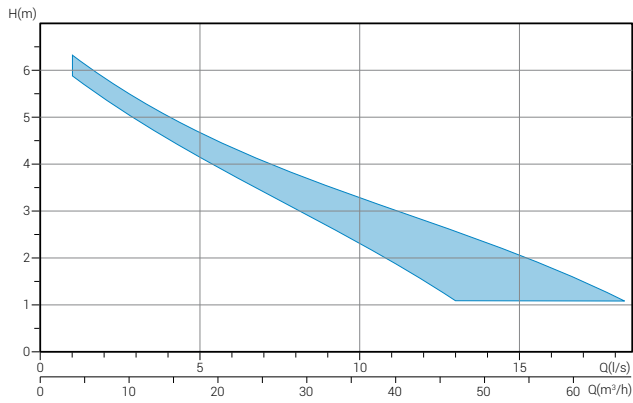
DGF



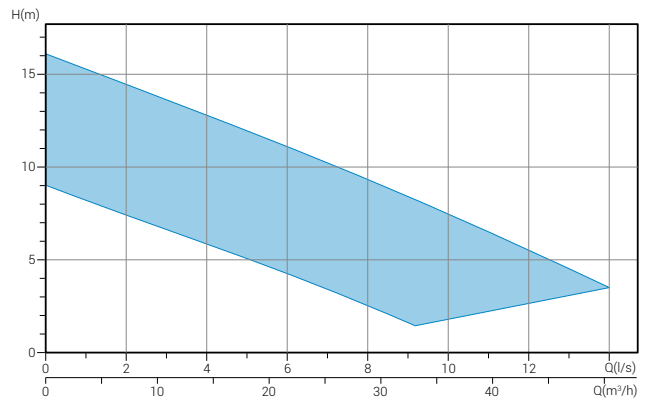
DRF



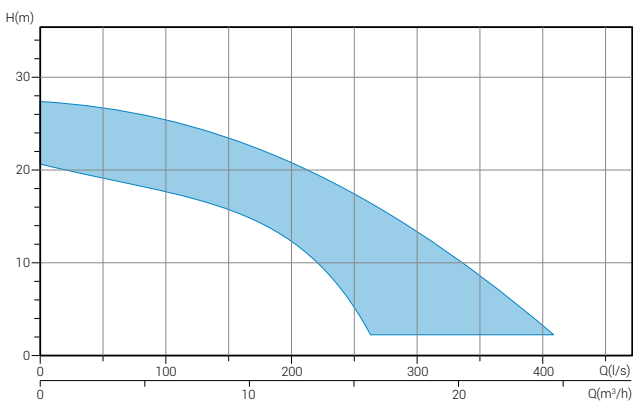
MAF



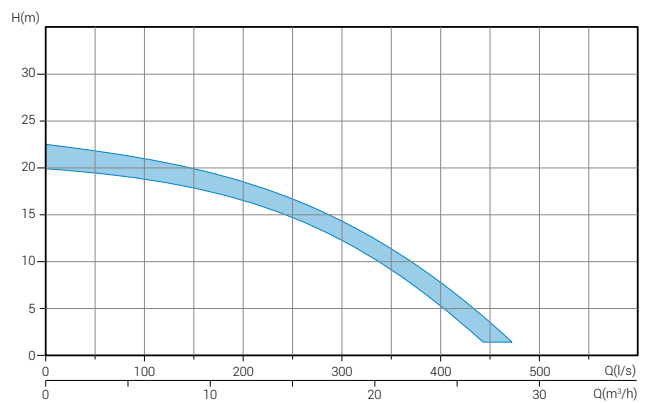
SMF



GRF



APF



Versions available

• Electrical variants

Single-phase models

TC	Thermal protection, capacitor,
TCD	Thermal protection, capacitor, startup capacitor

Three-phase models

T	Thermal protection
TS	Thermal protection, probe

• Cooling system

N	No cooling and/or seal flushing system
----------	--

• Set of mechanical seals

2SIC	2 mechanical seals in silicon carbide
-------------	---------------------------------------

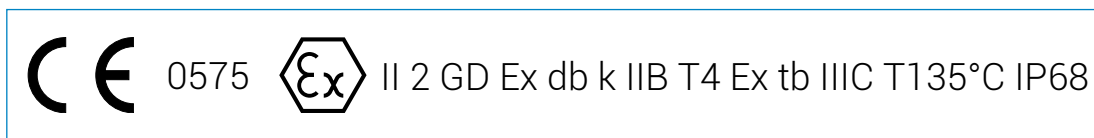
Key to product code

DGF 200/2/G65V A1CM5

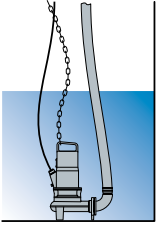
① ② ③ (A) (B) (C) ④ ⑤ ⑥ ⑦ ⑧ ⑨

- | | |
|--------------------------------|----------------------------------|
| ① Family | ⑤ Hydraulic model |
| ② Series | ⑥ Version number |
| ③ Power (HPx100) / motor poles | ⑦ Motor size |
| ④ Delivery rate | ⑧ Motor phases |
| (A) TYPE (GAS thread/Flanged) | M = Single-phase |
| (B) DIAMETER (mm) | T = Three-phase |
| (C) POSITION | ⑨ Power supply voltage frequency |
| V = vertical | 5 = 50Hz |
| H = horizontal | 6 = 60Hz |

-EX Marking (potentially explosive atmospheres)

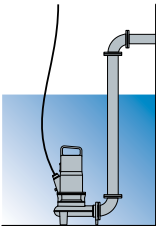


Installations



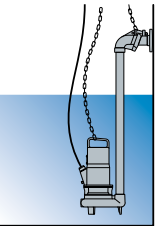
Free installation

The electric pump, standing on its feet or base, is connected to the delivery flexible pipe using a joint fixed to the discharge. This installation allows to move easily the electrical pump.



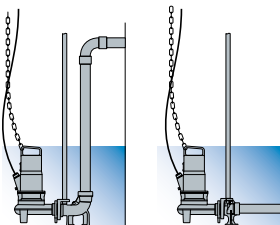
Fixed installation

The electric pump, standing on its feet or base, is connected to the delivery pipe, which is screwed to the discharge if threaded, or fixed to a bend if the port is flanged. The pump-hose connection may be threaded or flanged, depending on the pump fitting.



Installation with external coupler

Available for electric pumps with threaded discharge. The pump unit is supported by a special device fitted to the delivery pipe. This device can be installed at any time without having to empty the tank. It simplifies any maintenance work on the pump, which can be lifted out and resubmerged with great ease. It is recommended in particular for installations of small size, and does not require the pump to be resting on the bottom of the tank.



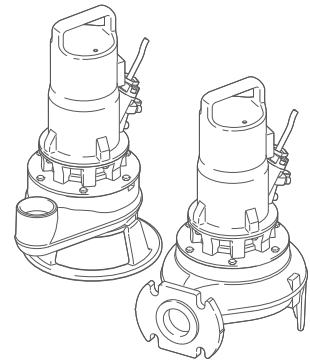
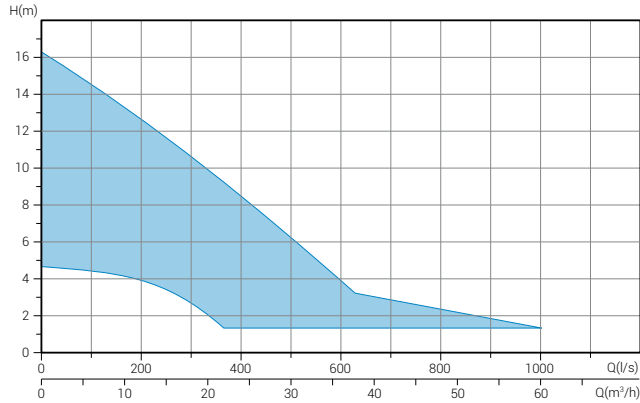
Installation with base coupling foot

Available for electric pumps with threaded discharge. The pump unit is supported by a special device fitted to the delivery pipe. This device can be installed at any time without having to empty the tank. It simplifies any maintenance work on the pump, which can be lifted out and resubmerged with great ease. It is recommended in particular for installations of small size, and does not require the pump to be resting on the bottom of the tank.

DGF

Pumps with vortex impeller

Operating ranges



Range characteristics

Motor power	0.55 ÷ 1.5 kW
Poles	2 / 4
Insulation class	H
Degree of protection	IP68
Discharge	GAS 1½" - 2½" vertical DN65 ÷ DN80 horizontal
Free passage	max 80 mm
Max flow rate	16.7 l/s
Max head	17.5 m

Motor

Ecological dry motor with thermal protections.

Cable

S1RN8-F 10 m cable length

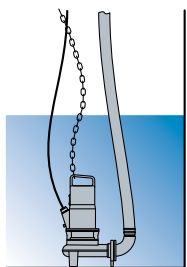
Mechanical seals

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

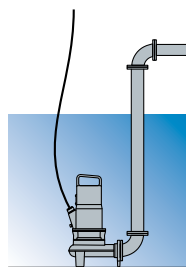
Applications

The main sectors of use are industrial and for the removal of landfill percolates and soiled biological liquids.

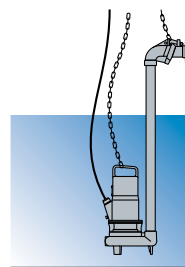
Installations



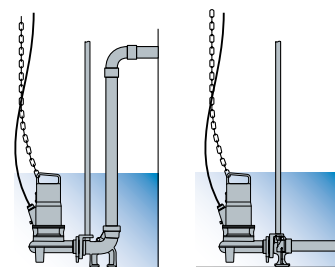
Free



Fixed



Installation with external coupler



with base coupling foot

Versions

Electrical variants	TC (single-phase models) T, TS (three-phase models)
Cooling system	N
Mechanical seals	2SiC

Operating specifications

Max operating temperature	40 °C
PH of treated fluid	6 ÷ 14
Viscosity of treated fluid	1 mm²/s
Maximum immersion depth	20 m
Density of treated fluid	1 Kg/dm³
Acoustic pressure max	<70dB
Max starts per hour	30

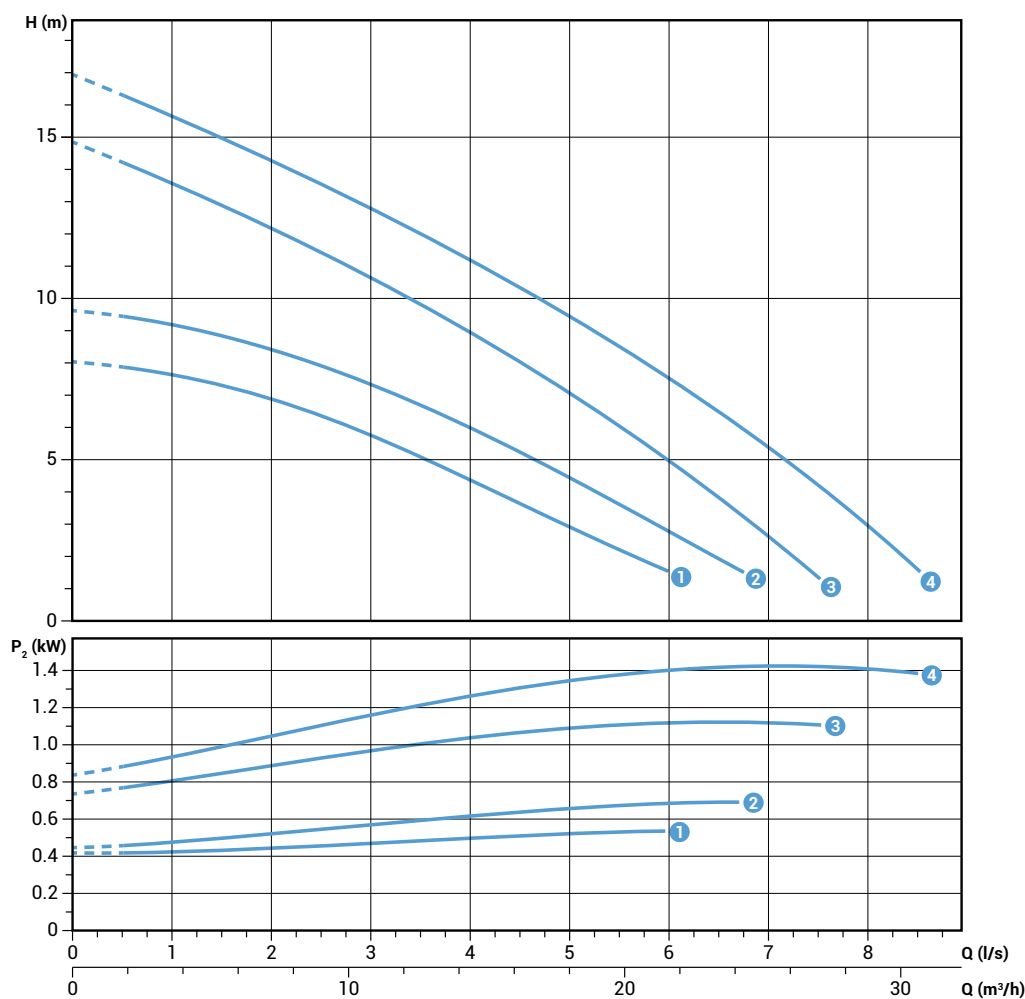
Construction materials

Case	Cast iron EN-GJL 250
Hydraulic parts	Cast iron EN-GJL 250
Impeller	Cast iron EN-GJL 250
Nuts and bolts	Stainless steel - Class A2-70
Standard gasket	Rubber - NBR
Shaft	Stainless steel - AISI 420
Paint type	Ecological bicomponent epoxy (~ 150 µm)

DGF 2/G40V

Performances

	l/s				
	0	2	4	6	8
	l/min	120	240	360	480
	m ³ /h				
	0	7.2	14.4	21.6	28.8
1 DGF 75/2/G40V A1CM(T)5	8.0	6.9	4.4		
2 DGF 100/2/G40V A1CM(T)5	9.6	8.4	6.0	2.8	
3 DGF 150/2/G40V A2CM(T)5	14.9	12.2	9.0	5.0	
4 DGF 200/2/G40V A2CM(T)5	17.0	14.3	11.2	7.6	3.0



Characteristic curves according to UNI EN ISO 9906

Technical data

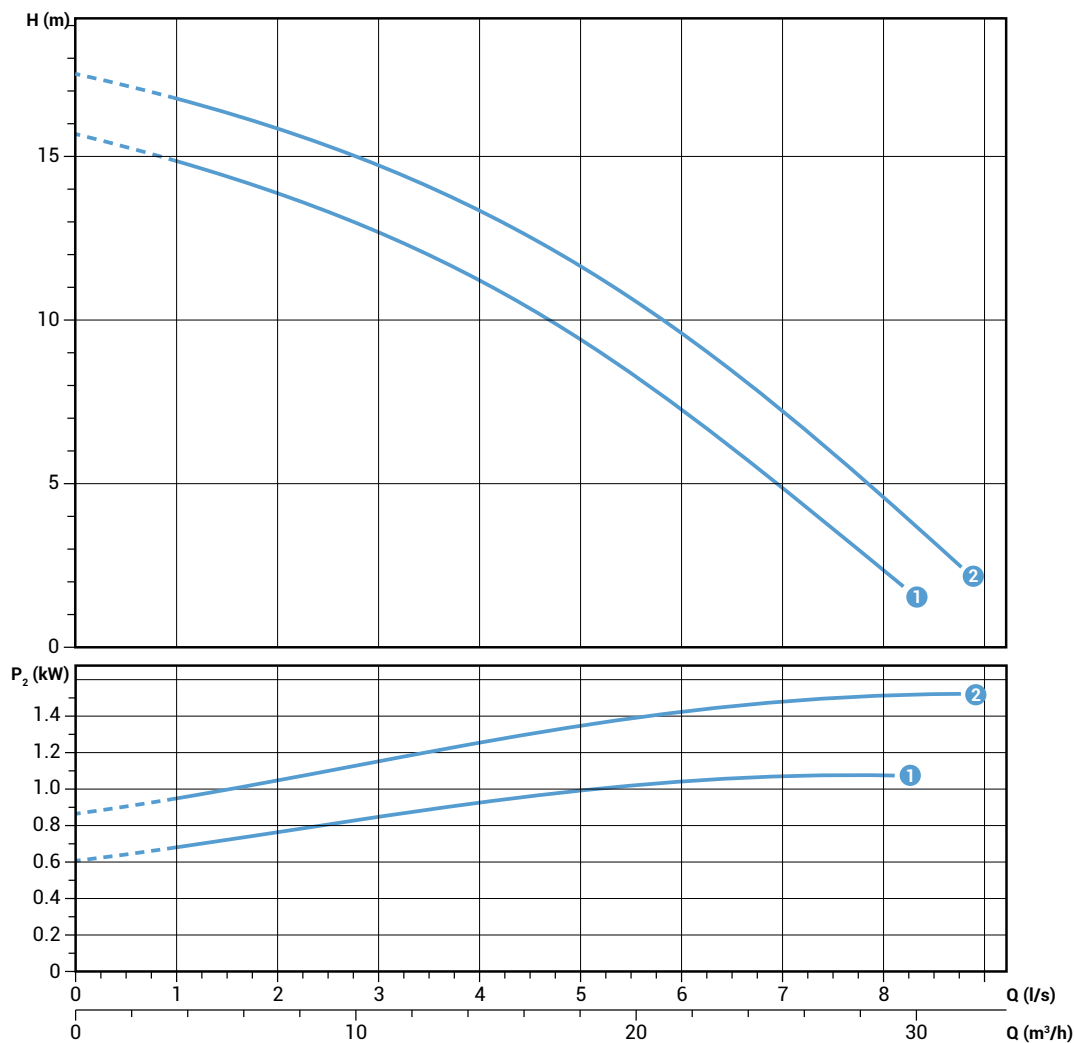
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
1 DGF 75/2/G40V A1CM5	230	1	0.9	0.55	3.9	2900	Dir	4G1.5+3x1	G 1½"	40 mm
2 DGF 100/2/G40V A1CM5	230	1	1.1	0.74	4.9	2900	Dir	4G1.5+3x1	G 1½"	40 mm
3 DGF 150/2/G40V A2CM5	230	1	1.6	1.1	7.2	2900	Dir	4G1.5+3x1	G 1½"	40 mm
4 DGF 200/2/G40V A2CM5	230	1	2.2	1.5	9.8	2900	Dir	4G1.5+3x1	G 1½"	40 mm

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
1 DGF 75/2/G40V A1CT5	400	3	0.8	0.55	1.5	2900	Dir	4G1.5+3x1	G 1½"	40 mm
2 DGF 100/2/G40V A1CT5	400	3	1.1	0.74	1.9	2900	Dir	4G1.5+3x1	G 1½"	40 mm
3 DGF 150/2/G40V A2CT5	400	3	1.7	1.1	2.9	2900	Dir	4G1.5+3x1	G 1½"	40 mm
4 DGF 200/2/G40V A2CT5	400	3	2.1	1.5	3.7	2900	Dir	4G1.5+3x1	G 1½"	40 mm

DGF 2/G40H

Performances

	l/s	0	2	4	6	8
	l/min	0	120	240	360	480
	m3/h	0	7.2	14.4	21.6	28.8
①	DGF 150/2/G40H A1CM(T)5	15.7	13.9	11.2	7.2	2.4
②	DGF 200/2/G40H A1CM(T)5	17.5	15.9	13.4	9.6	4.6



Characteristic curves according to UNI EN ISO 9906

Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage	
①	DGF 150/2/G40H A1CM5	230	1	1.6	1.1	7.2	2900	Dir	4G1.5+3x1	G 1½"	40 mm
②	DGF 200/2/G40H A1CM5	230	1	2.2	1.5	9.8	2900	Dir	4G1.5+3x1	G 1½"	40 mm

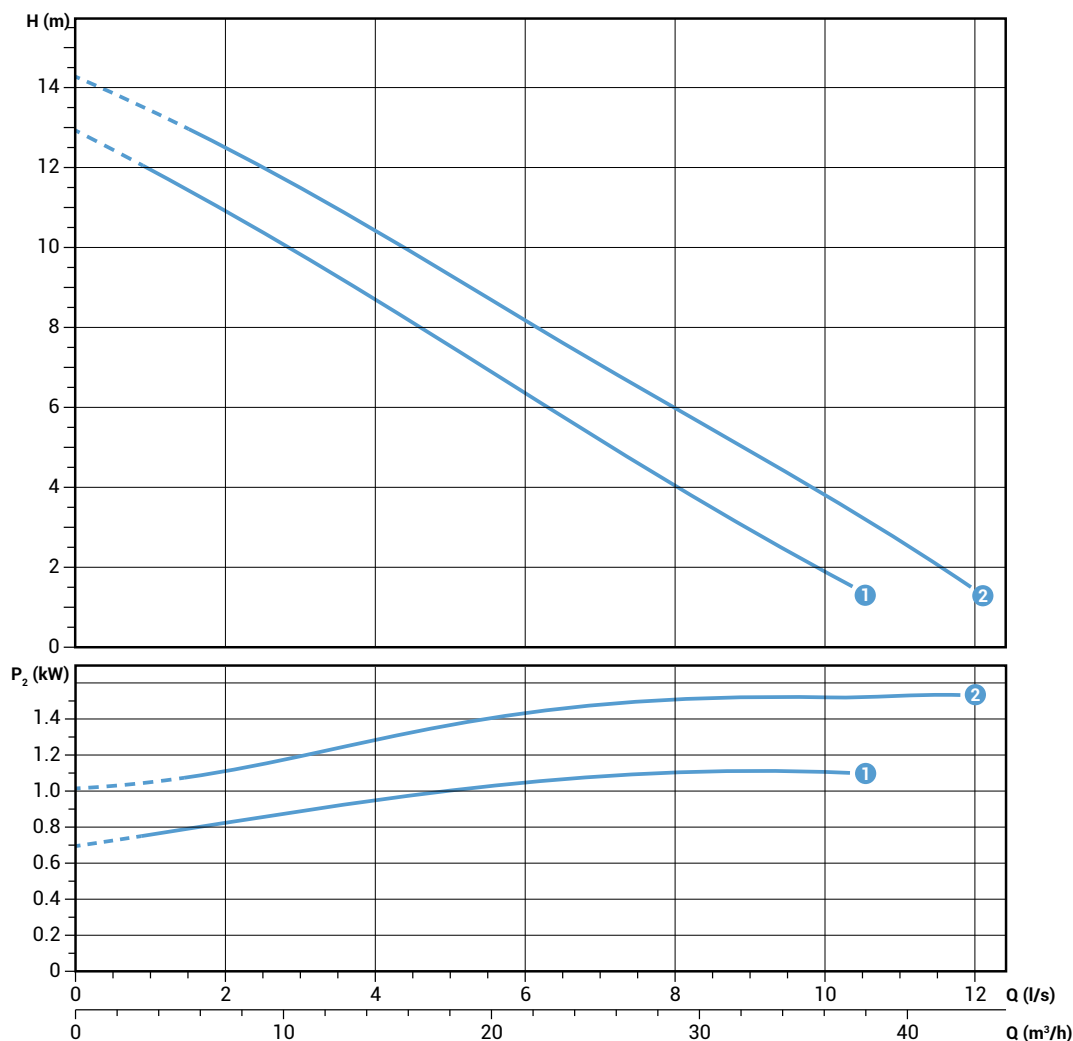
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage	
①	DGF 150/2/G40H A1CT5	400	3	1.7	1.1	2.9	2900	Dir	4G1.5+3x1	G 1½"	40 mm
②	DGF 200/2/G40H A1CT5	400	3	2.1	1.5	3.7	2900	Dir	4G1.5+3x1	G 1½"	40 mm

DFG 2/G50V

Performances

	l/s	0	2	4	6	8	10
	l/min	0	120	240	360	480	600
	m³/h	0	7.2	14.4	21.6	28.8	36
①	DGF 150/2/G50V A1CM(T)5	12.9	10.9	8.7	6.3	4.0	1.9
②	DGF 200/2/G50V A1CM(T)5	14.3	12.5	10.4	8.1	5.9	3.8

Characteristic curves according to UNI EN ISO 9906



Technical data

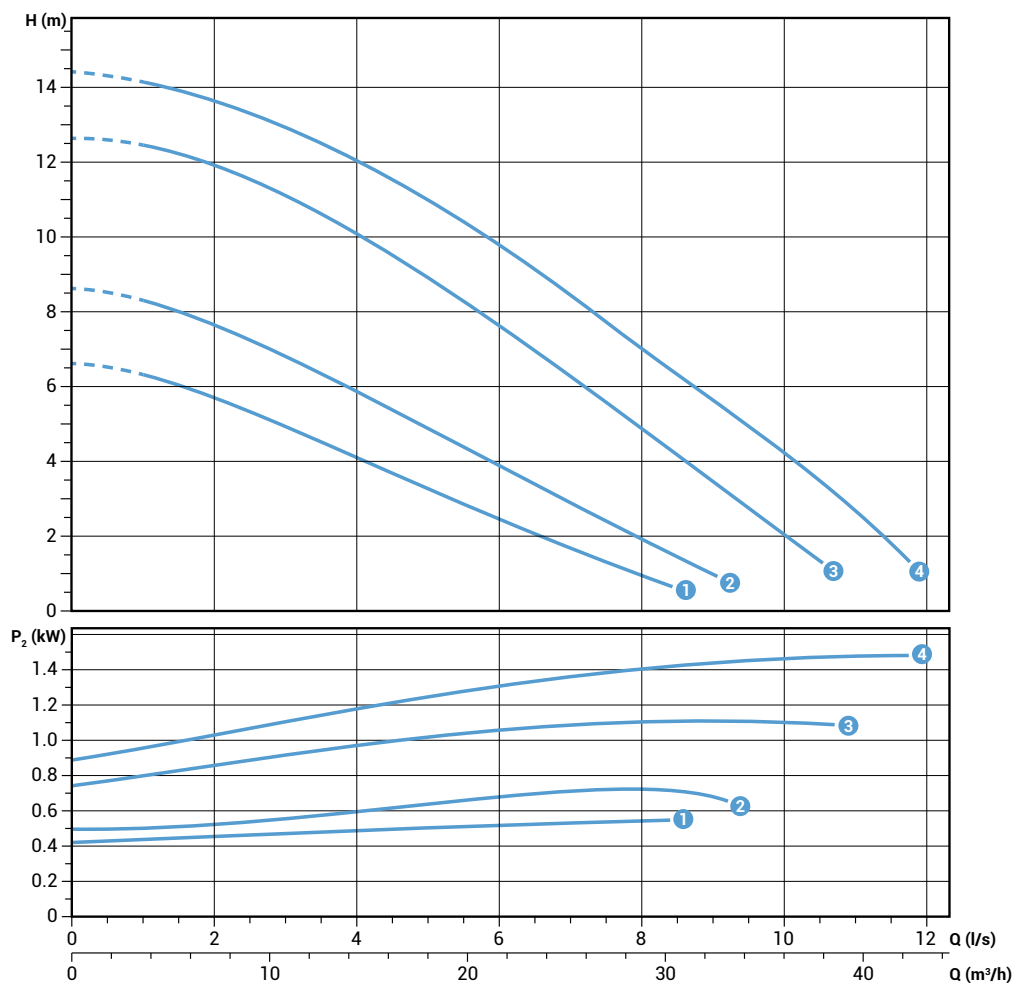
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage	
①	DGF 150/2/G50V A1CM5	400	1	1.6	1.1	7.2	2900	Dir	4G1.5+3x1	G 2"	50 mm
②	DGF 200/2/G50V A1CM5	400	1	2.2	1.5	9.8	2900	Dir	4G1.5+3x1	G 2"	50 mm

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage	
①	DGF 150/2/G50V A1CT5	400	3	1.7	1.1	2.9	2900	Dir	4G1.5+3x1	G 2"	50 mm
②	DGF 200/2/G50V A1CT5	400	3	2.1	1.5	3.7	2900	Dir	4G1.5+3x1	G 2"	50 mm

DGF 2/G50H

Performances

	l/s	0	2	4	6	8	10
	l/min	0	120	240	360	480	600
	m ³ /h	0	7.2	14.4	21.6	28.8	36
① DGF 75/2/G50H A1CM(T)5		6.6	5.7	4.1	2.5	0.9	
② DGF 100/2/G50H A1CM(T)5		8.6	7.6	5.9	3.9	1.9	
③ DGF 150/2/G50H A1CM(T)5		12.6	12.0	10.1	7.6	4.9	2.0
④ DGF 200/2/G50H A1CM(T)5		14.4	13.6	12.1	9.7	7.0	4.2



Characteristic curves according to UNI EN ISO 9906

Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
① DGF 75/2/G50H A1CM5	230	1	0.9	0.55	3.9	2900	Dir	4G1.5+3x1	G 2"	40 mm
② DGF 100/2/G50H A1CM5	230	1	1.1	0.74	4.9	2900	Dir	4G1.5+3x1	G 2"	40 mm
③ DGF 150/2/G50H A1CM5	230	1	1.6	1.1	7.2	2900	Dir	4G1.5+3x1	G 2"	40 mm
④ DGF 200/2/G50H A1CM5	230	1	2.2	1.5	9.8	2900	Dir	4G1.5+3x1	G 2"	40 mm

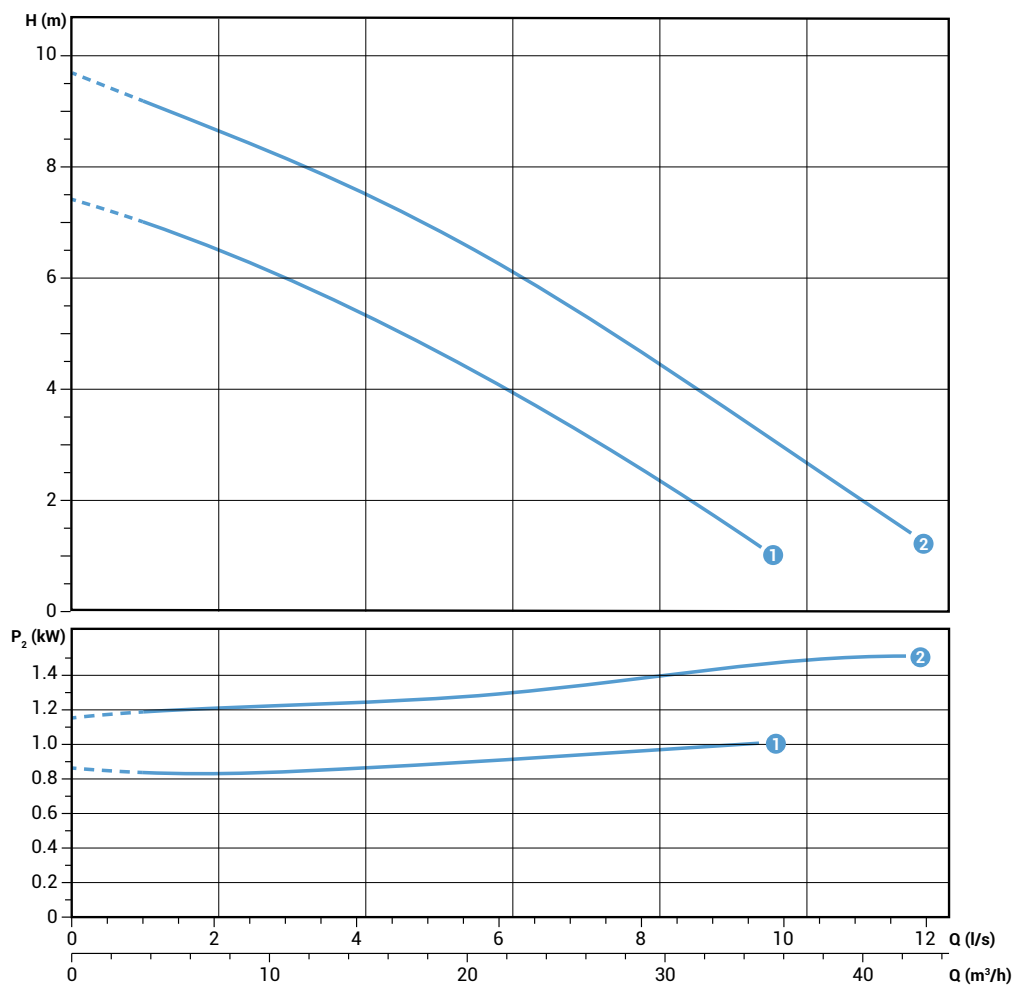
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
① DGF 75/2/G50H A1CT5	230	1	0.9	0.55	3.9	2900	Dir	4G1.5+3x1	G 2"	40 mm
② DGF 100/2/G50H A1CT5	230	1	1.1	0.74	4.9	2900	Dir	4G1.5+3x1	G 2"	40 mm
③ DGF 150/2/G50H A1CT5	230	1	1.6	1.1	7.2	2900	Dir	4G1.5+3x1	G 2"	40 mm
④ DGF 200/2/G50H A1CT5	230	1	2.2	1.5	9.8	2900	Dir	4G1.5+3x1	G 2"	40 mm

DGF 2/G65V

Performances

	l/s	0	2	4	6	8	10
	l/min	0	120	240	360	480	600
	m ³ /h	0	7.2	14.4	21.6	28.8	36
①	DGF 150/2/G65V A1CM(T)5	7.4	6.5	5.3	3.9	2.4	
②	DGF 200/2/G65V A1CM(T)5	9.7	8.6	7.5	6.1	4.5	2.7

Characteristic curves according to UNI EN ISO 9906



Technical data

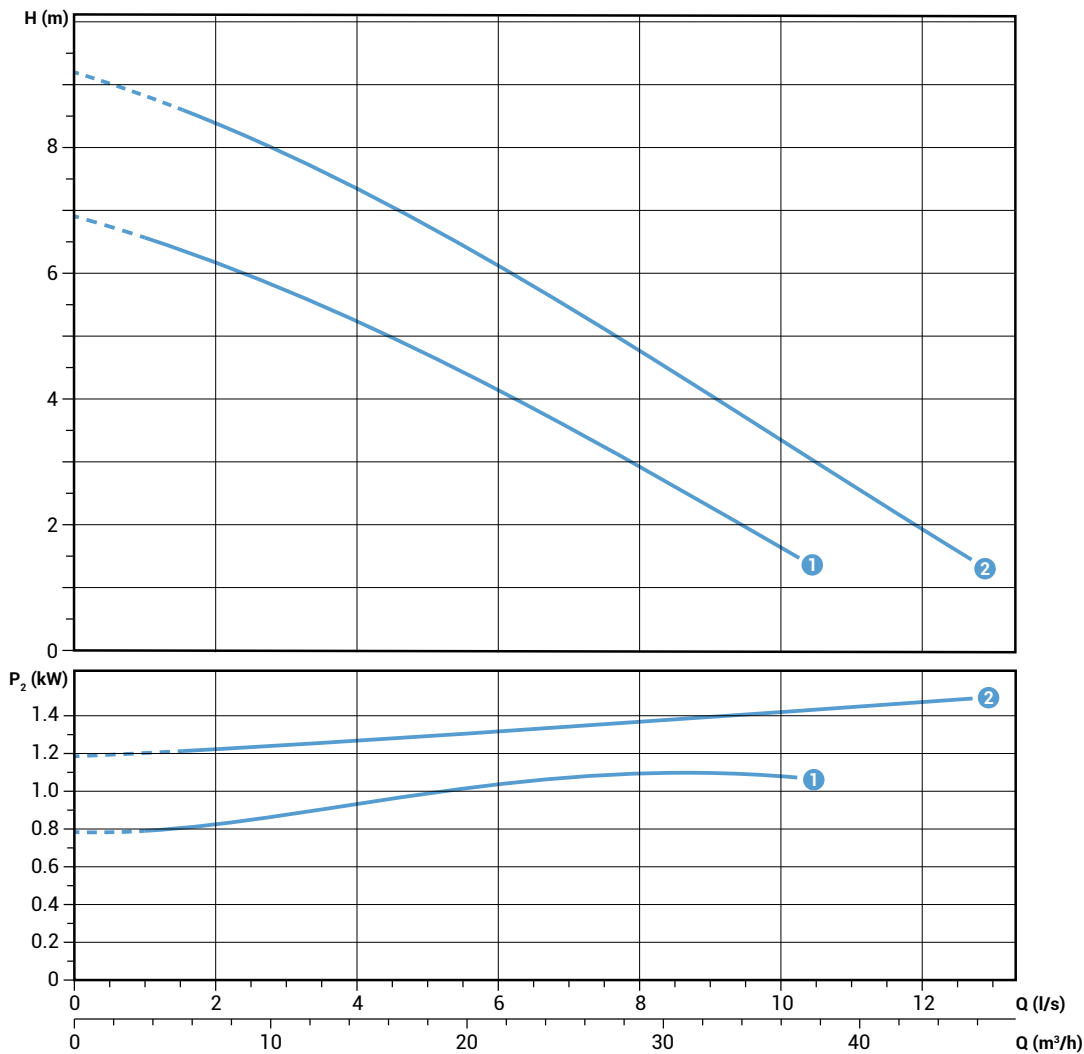
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage	
①	DGF 150/2/G65V A1CM5	230	1	1.6	1.1	7.2	2900	Dir	4G1.5+3x1	G 2½"	65 mm
②	DGF 200/2/G65V A1CM5	230	1	2.2	1.5	9.8	2900	Dir	4G1.5+3x1	G 2½"	65 mm

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage	
①	DGF 150/2/G65V A1CT5	400	3	1.7	1.1	2.9	2900	Dir	4G1.5+3x1	G 2½"	65 mm
②	DGF 200/2/G65V A1CT5	400	3	2.1	1.5	3.7	2900	Dir	4G1.5+3x1	G 2½"	65 mm

DFG 2/65

Performances

	l/s	0	2	4	6	8	10	12
	l/min	0	120	240	360	480	600	720
	m ³ /h	0	7.2	14.4	21.6	28.8	36	43.2
① DGF 150/2/65 A1CM(T)5		6.9	6.2	5.2	4.1	2.9	1.6	
② DGF 200/2/65 A1CM(T)5		9.2	8.4	7.4	6.1	4.8	3.3	1.9



Characteristic curves according to UNI EN ISO 9906

Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
① DGF 150/2/65 A1CM5	230	1	1.6	1.1	7.2	2900	Dir	4G1.5+3x1	DN65	65 mm
② DGF 200/2/65 A1CM5	230	1	2.2	1.5	9.8	2900	Dir	4G1.5+3x1	DN65	65 mm

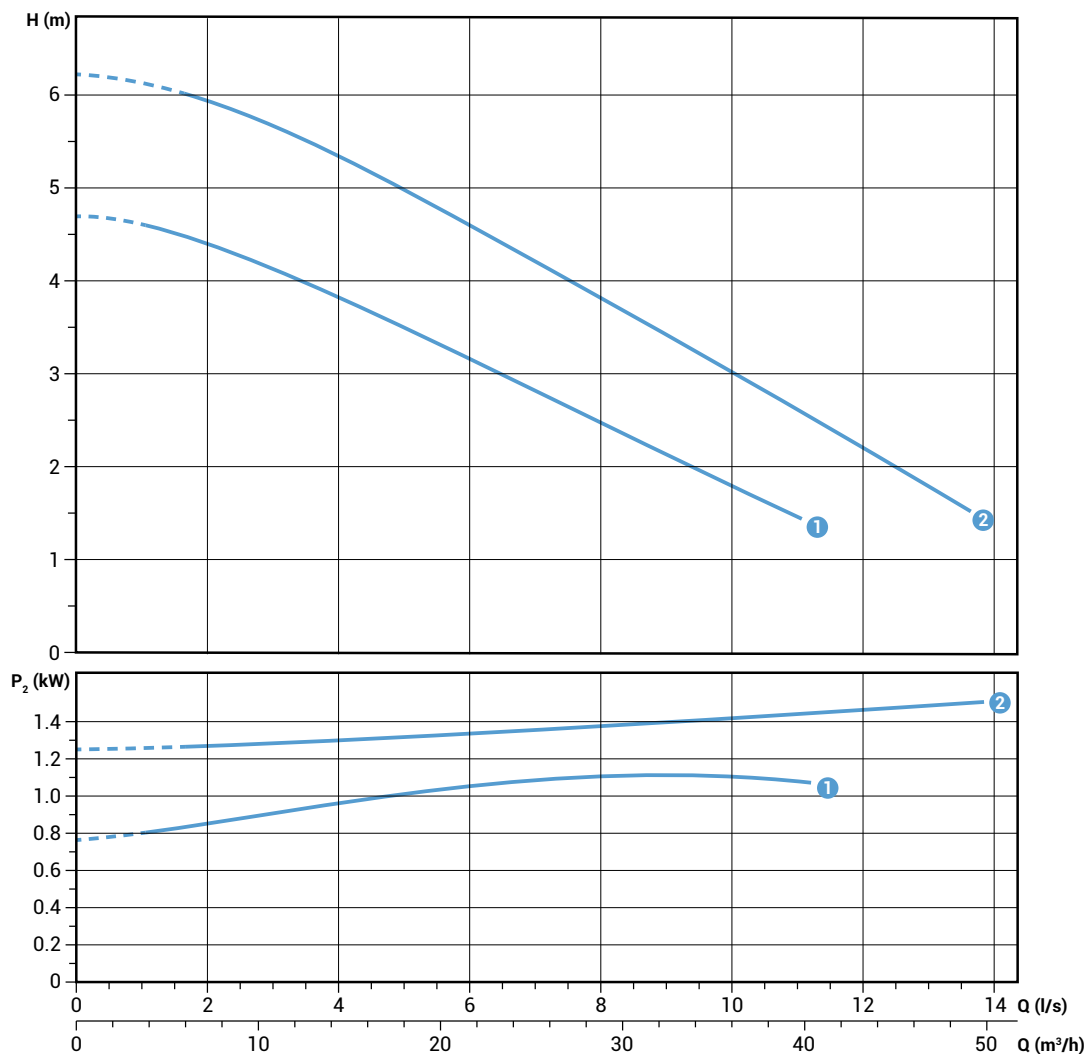
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
① DGF 150/2/65 A1CT5	400	3	1.7	1.1	2.9	2900	Dir	4G1.5+3x1	DN65	65 mm
② DGF 200/2/65 A1CT5	400	3	2.1	1.5	3.7	2900	Dir	4G1.5+3x1	DN65	65 mm

DGF 2/80

Performances

	l/s	0	2	4	6	8	10	12
	l/min	0	120	240	360	480	600	720
	m ³ /h	0	7.2	14.4	21.6	28.8	36	43.2
①	DGF 150/2/80 A1CM(T)5	4.7	4.4	3.8	3.1	2.5	1.8	
②	DGF 200/2/80 A1CM(T)5	6.2	5.9	5.3	4.6	3.8	3.0	2.2

Characteristic curves according to UNI EN ISO 9906



Technical data

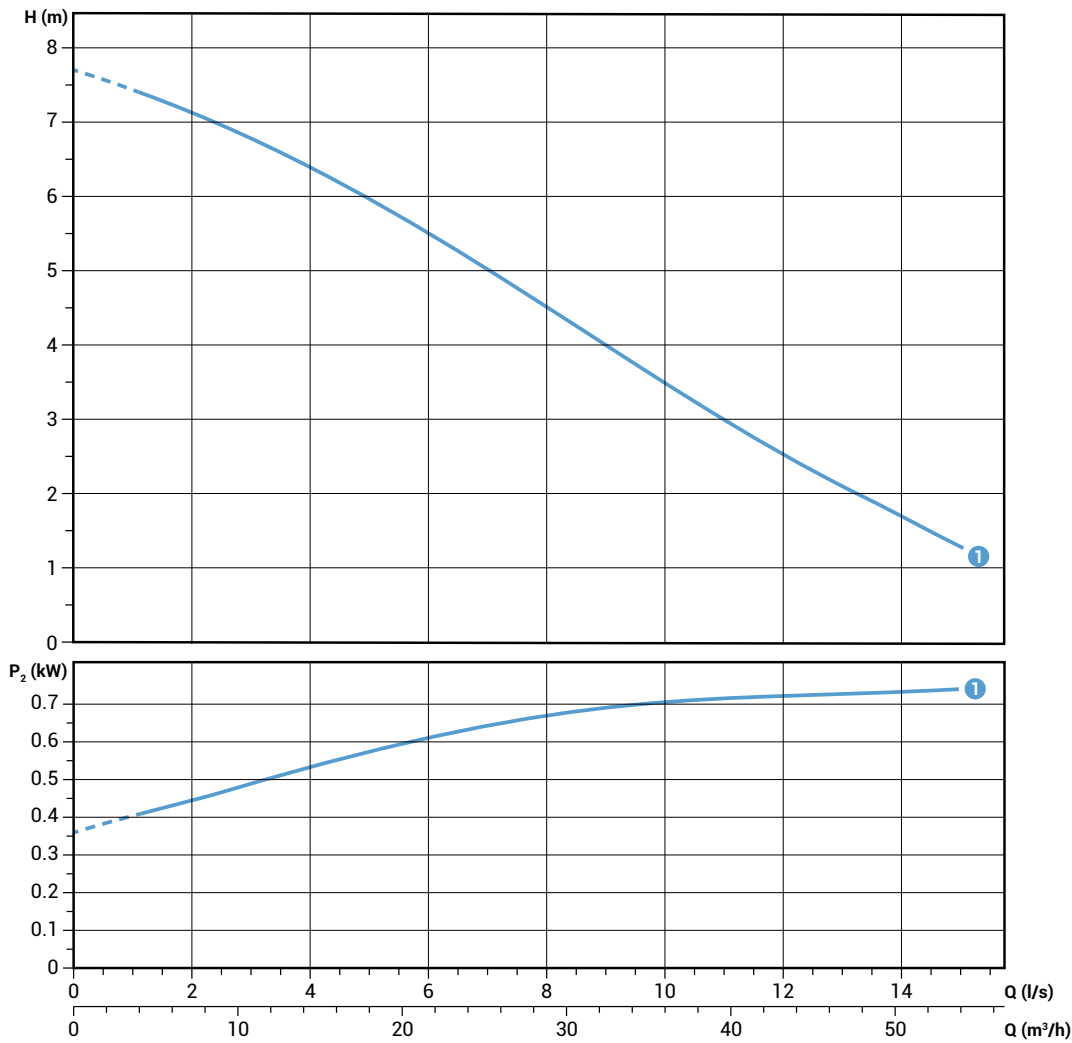
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	∅	Free passage	
①	DGF 150/2/80 A1CM5	230	1	1.6	1.1	7.2	2900	Dir	4G1.5+3x1	DN80	80 mm
②	DGF 200/2/80 A1CM5	230	1	2.2	1.5	9.8	2900	Dir	4G1.5+3x1	DN80	80 mm

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	∅	Free passage	
①	DGF 150/2/80 A1CT5	400	3	1.7	1.1	2.9	2900	Dir	4G1.5+3x1	DN80	80 mm
②	DGF 200/2/80 A1CT5	400	3	2.1	1.5	3.7	2900	Dir	4G1.5+3x1	DN80	80 mm

DGF 4/65

Performances

	l/s	0	2	4	6	8	10	12	14
	l/min	0	120	240	360	480	600	720	840
	m ³ /h	0	7.2	14.4	21.6	28.8	36	43.2	50.4
① DGF 100/4/65 A1CT5		7.7	7.1	6.4	5.5	4.5	3.5	2.5	1.7



Characteristic curves according to UNI EN ISO 9906

Technical data

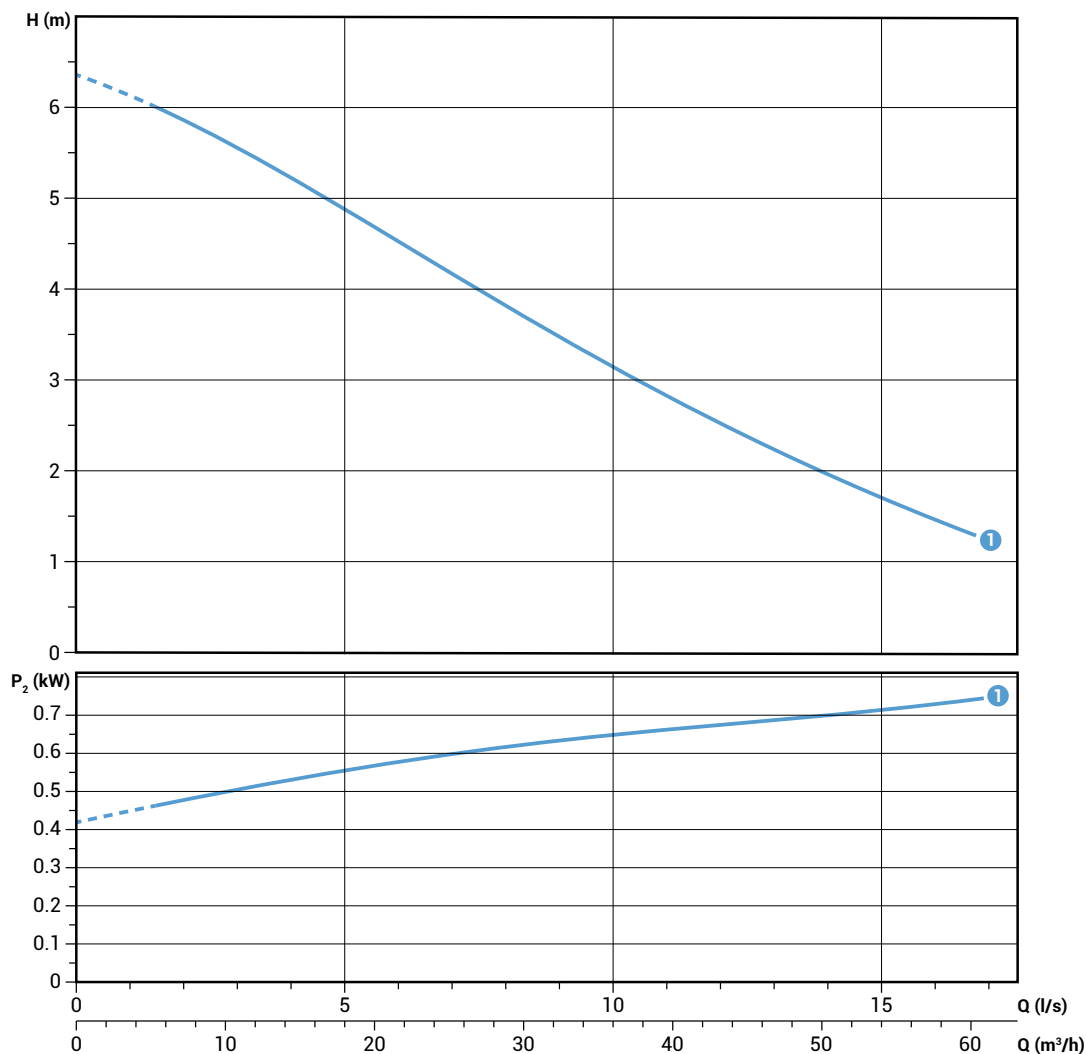
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	∅	Free passage
① DGF 100/4/65 A1CT5	400	3	1.1	0.74	2.2	1450	Dir	4G1.5+3x1	DN65	50 mm

DGF 4/80

Performances

	l/s	0	2	4	6	8	10	12	14	16
	l/min	0	120	240	360	480	600	720	840	960
	m ³ /h	0	7.2	14.4	21.6	28.8	36	43.2	50.4	57.6
① DGF 100/4/80 A1CT5		6.4	5.9	5.2	4.5	3.8	3.1	2.5	2.0	1.5

Characteristic curves according to UNI EN ISO 9906



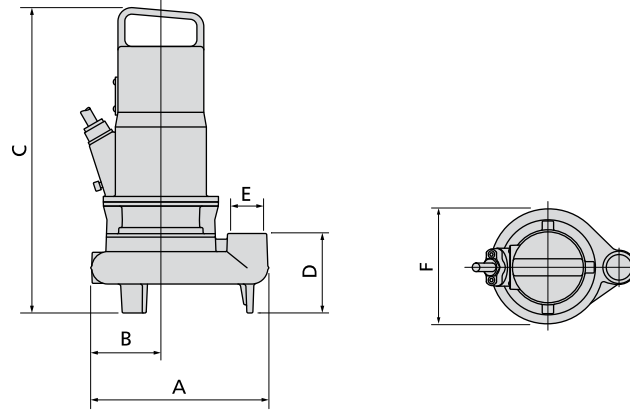
Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	∅	Free passage
① DGF 100/4/80 A1CT5	400	3	1.1	0.74	2.1	1450	Dir	4G1.5+3x1	DN80	65 mm

DGF

Overall dimensions and weights

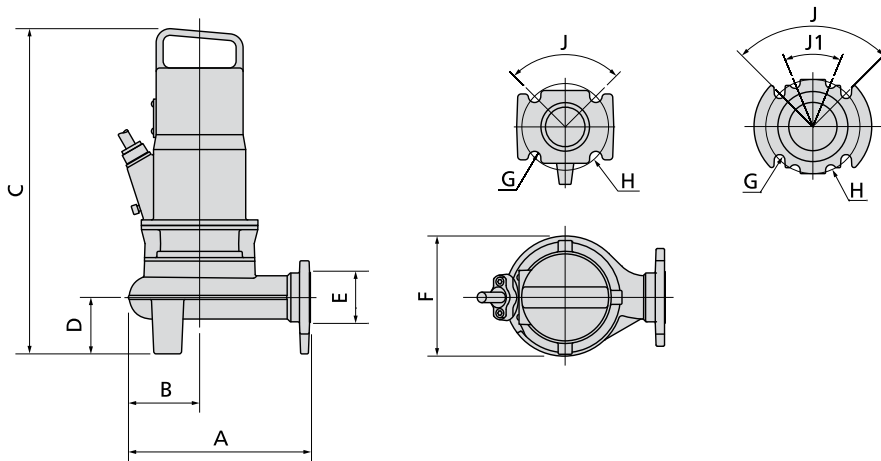
Models with vertical discharge - 2 poles



	A	B	C	D	E	F	kg
DGF 75/2/G40V A1CM(T)5	245	80	480	150	G 1½"	170	27
DGF 100/2/G40V A1CM(T)5	245	80	480	150	G 1½"	170	28
DGF 150/2/G40V A2CM(T)5	260	102	445	115	G 1½"	205	30
DGF 200/2/G40V A2CM(T)5	260	102	445	115	G 1½"	205	31
DGF 150/2/G50V A1CM(T)5	270	100	495	140	G 2"	205	32
DGF 200/2/G50V A1CM(T)5	270	100	495	140	G 2"	205	33
DGF 150/2/G65V A1CM(T)5	300	105	475	140	G 2½"	210	31
DGF 200/2/G65V A1CM(T)5	300	105	475	140	G 2½"	210	33

Dimensions in mm

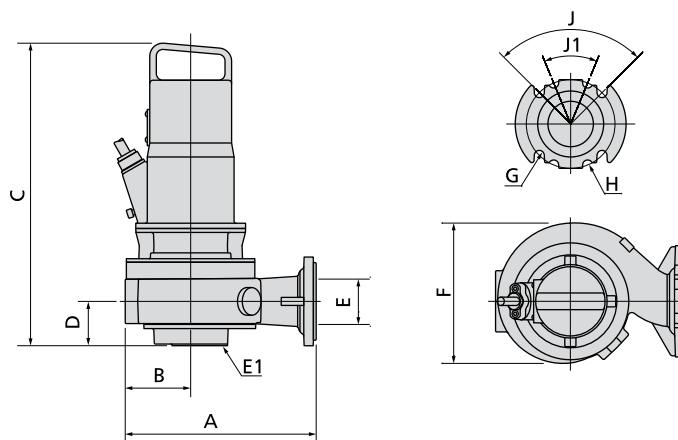
Models with horizontal discharge - 2 poles



	A	B	C	D	E	F	G	H	J	J1	kg
DGF 150/2/G40H A1CM(T)5	260	100	480	102	G 1½" - DN40	205	14	90	90°	-	29
DGF 200/2/G40H A1CM(T)5	260	100	480	102	G 1½" - DN40	205	14	90	90°	-	30
DGF 75/2/G50H A1CM(T)5	230	90	495	110	G 2" - DN50	175	18	125	90°	-	28
DGF 100/2/G50H A1CM(T)5	230	90	495	110	G 2" - DN50	175	18	125	90°	-	29
DGF 150/2/G50H A1CM(T)5	260	100	460	80	G 2" - DN50	205	18	125	90°	-	31
DGF 200/2/G50H A1CM(T)5	260	100	460	80	G 2" - DN50	205	18	125	90°	-	32
DGF 150/2/65 A1CM(T)5	290	105	475	70	65	210	18	145	90°	-	32
DGF 200/2/65 A1CM(T)5	290	105	475	70	65	210	18	145	90°	-	34
DGF 150/2/80 A1CM(T)5	290	105	495	80	80	210	18	160	90°	45°	33
DGF 200/2/80 A1CM(T)5	290	105	495	80	80	210	18	160	90°	45°	35

Dimensions in mm

Models with horizontal discharge - 4 poles



	A	B	C	D	E	E1 (*)	F	G	H	J	J1	kg
DGF 100/4/65 A1CT5	320	130	490	80	65	65	250	18	145	90°	-	38
DGF 100/4/80 A1CT5	320	130	440	80	80	80	250	18	160	90°	45°	41

Dimensions in mm

Packaging dimension



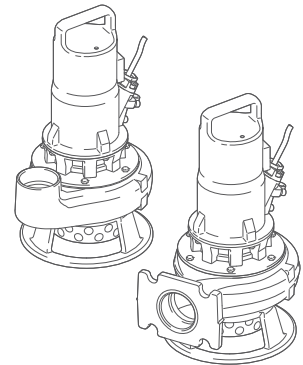
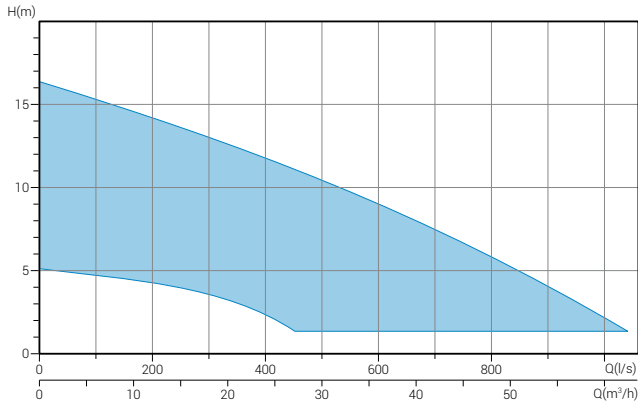
	X	Y	Z
DGF 75/2/G40V A1CM(T)5	580	310	310
DGF 100/2/G40V A1CM(T)5	580	310	310
DGF 150/2/G40V A2CM(T)5	580	310	310
DGF 200/2/G40V A2CM(T)5	580	310	310
DGF 150/2/G40H A1CM(T)5	580	310	310
DGF 200/2/G40H A1CM(T)5	580	310	310
DGF 150/2/G50V A1CM(T)5	580	310	310
DGF 200/2/G50V A1CM(T)5	580	310	310
DGF 75/2/G50H A1CM(T)5	580	310	310
DGF 100/2/G50H A1CM(T)5	580	310	310
DGF 150/2/G50H A1CM(T)5	580	310	310
DGF 200/2/G50H A1CM(T)5	580	310	310
DGF 150/2/G65V A1CM(T)5	580	310	310
DGF 200/2/G65V A1CM(T)5	580	310	310
DGF 150/2/65 A1CM(T)5	725	445	415
DGF 200/2/65 A1CM(T)5	725	445	415
DGF 150/2/80 A1CM(T)5	725	445	415
DGF 200/2/80 A1CM(T)5	725	445	415
DGF 100/4/65 A1CT5	725	445	415
DGF 100/4/80 A1CT5	725	445	415

Dimensions in mm

DRF

Multi-channel open impeller

Operating ranges



Range characteristics

Motor power	0.55 ÷ 1.5 kW
Poles	2 / 4
Insulation class	H
Degree of protection	IP68
Discharge	GAS 1½" - 2" vertical GAS 1½" DN32 - 2" DN50 horizontal DN65 ÷ DN100
Free passage	max 50 mm
Max flow rate	17.6 l/s
Max head	16.5 m

Motor

Ecological dry motor with thermal protections.

Cable

S1RN8-F 10 m cable length.

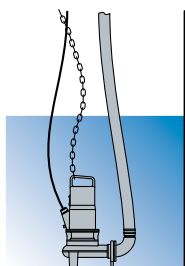
Mechanical seals

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

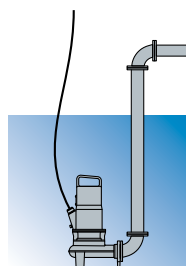
Applications

The main sectors of use are industrial and for the removal of landfill percolates.

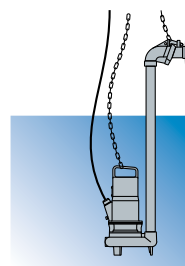
Installations



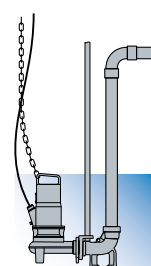
Free



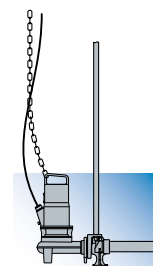
Fixed



with external coupler



with base coupling foot



Versions

Electrical variants	TC (single-phase models) T, TS (three-phase models)
Cooling system	N
Mechanical seals	2SiC

Operating specifications

Max operating temperature	40 °C
PH of treated fluid	6 ÷ 14
Viscosity of treated fluid	1 mm²/s
Maximum immersion depth	20 m
Density of treated fluid	1 Kg/dm³
Acoustic pressure max	<70dB
Max starts per hour	30

Construction materials

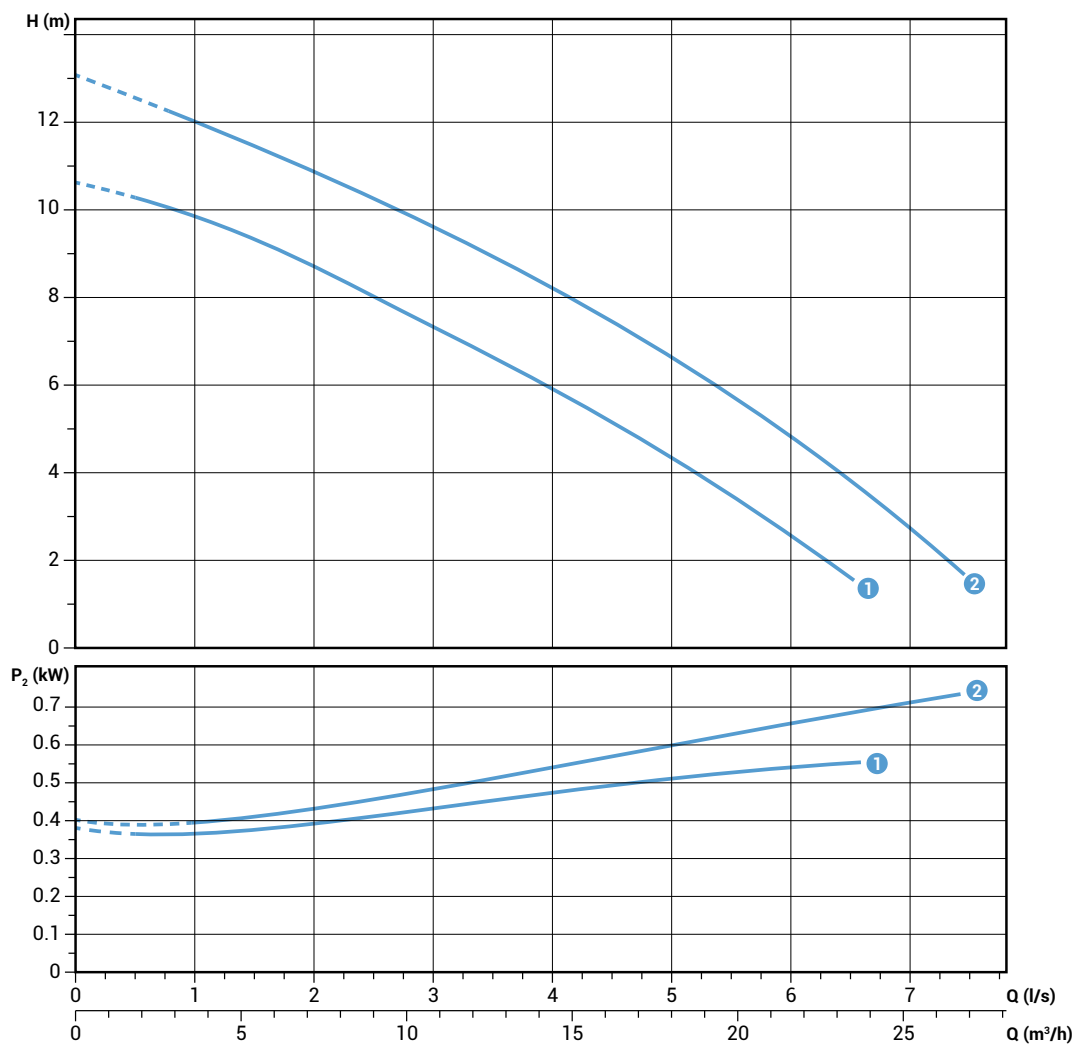
Case	Cast iron EN-GJL 250
Hydraulic parts	Cast iron EN-GJL 250
Impeller	Cast iron EN-GJL 250
Nuts and bolts	Stainless steel - Class A2-70
Standard gasket	Rubber - NBR
Shaft	Stainless steel - AISI 420
Paint type	Ecological bicomponent epoxy (~ 150 µm)

DRF 2/G40V

Performances

	l/s	0	1	2	3	4	5	6	7	8
	l/min	0	60	120	180	240	300	360	420	480
	m ³ /h	0	3.6	7.2	10.8	14.4	18	21.6	25.2	28.8
① DRF 75/2/G40V A1CM(T)5		10.6	9.9	8.8	7.4	5.9	4.4	2.6		
② DRF 100/2/G40V A1CM(T)5		13.1	12	10.9	9.6	8.2	6.7	4.8	2.7	3.4

Characteristic curves according to UNI EN ISO 9906



Technical data

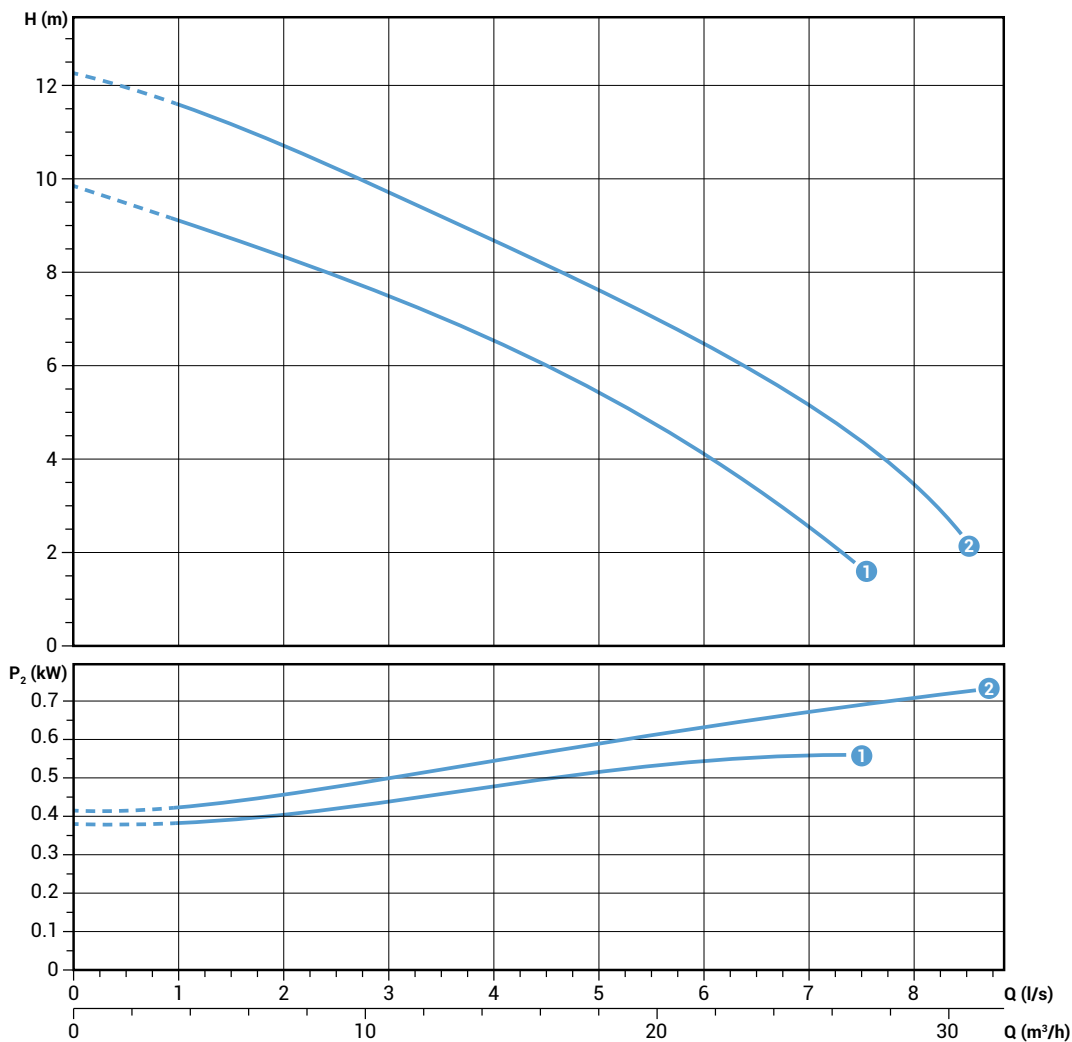
	V	Phases	P1 (kw)	P2 (kw)	A	Rpm	Start	Cable	Ø	Free passage
① DRF 75/2/G40V A1CM5	230	1	0.8	0.55	3.9	2900	Dir	4G1.5+3x1	GAS 1½"	10x30mm
② DRF 100/2/G40V A1CM5	230	1	1.1	0.74	4.9	2900	Dir	4G1.5+3x1	GAS 1½"	10x30mm

	V	Phases	P1 (kw)	P2 (kw)	A	Rpm	Start	Cable	Ø	Free passage
① DRF 75/2/G40V A1CT5	400	3	0.8	0.55	1.5	2900	Dir	4G1.5+3x1	GAS 1½"	10x30mm
② DRF 100/2/G40V A1CT5	400	3	1.1	0.74	1.9	2900	Dir	4G1.5+3x1	GAS 1½"	10x30mm

DRF 2/G40H

Performances

	l/s	0	1	2	3	4	5	6	7	8
	l/min	0	60	120	180	240	300	360	420	480
	m ³ /h	0	3.6	7.2	10.8	14.4	18	21.6	25.2	28.8
①	DRF 75/2/G40H A1CM(T)5	9.8	9.1	8.4	7.5	6.5	5.4	4.1	2.6	
②	DRF 100/2/G40H A1CM(T)5	12.2	11.6	10.7	9.7	8.7	7.6	6.5	5.2	3.4



Characteristic curves according to UNI EN ISO 9906

Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage	
①	DRF 75/2/G40H A1CM5	230	1	0.8	0.55	3.9	2900	Dir	4G1.5+3x1	G1 ½"-DN32	10x30mm
②	DRF 100/2/G40H A1CM5	230	1	1.1	0.74	4.9	2900	Dir	4G1.5+3x1	G1 ½"-DN32	10x30mm

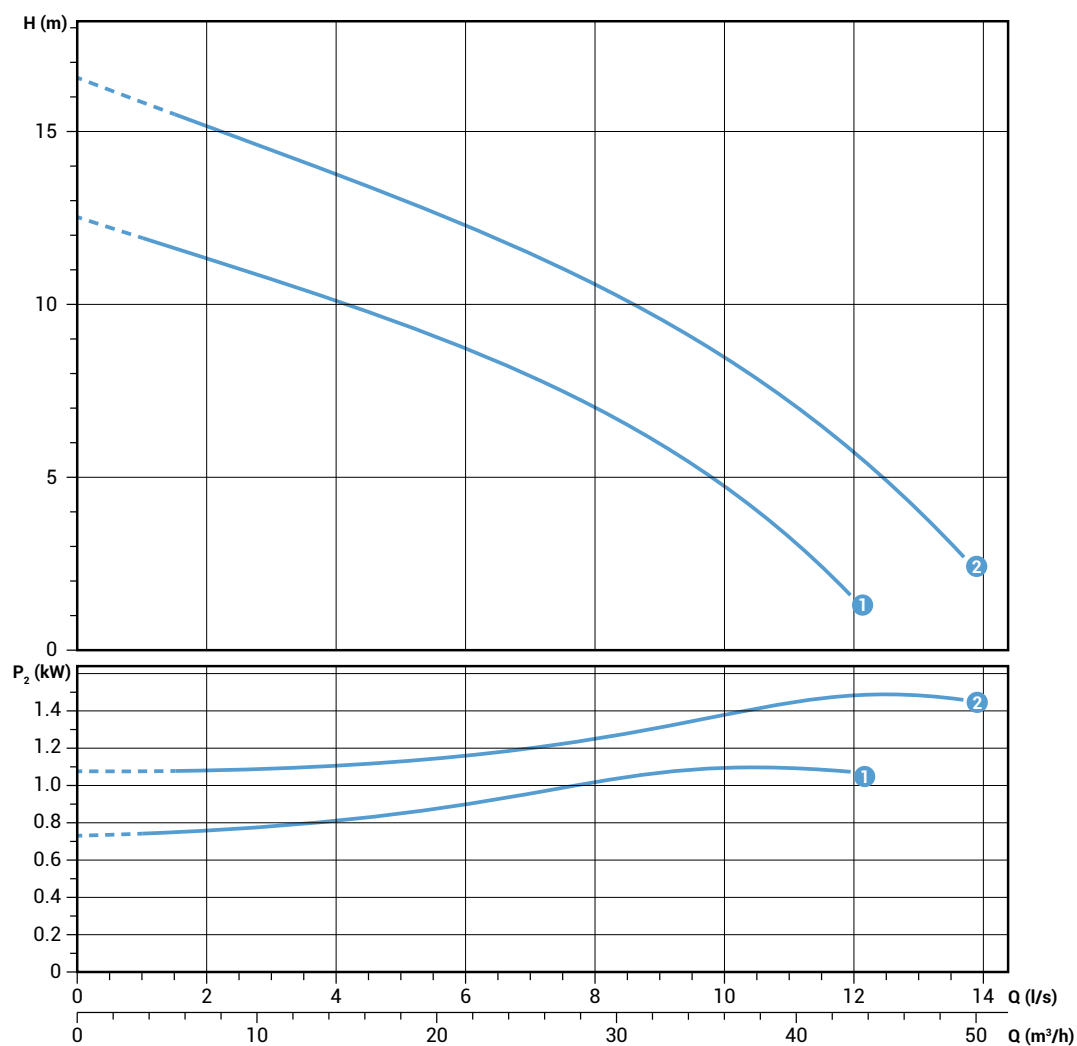
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage	
①	DRF 75/2/G40H A1CT5	400	3	0.8	0.55	1.5	2900	Dir	4G1.5+3x1	G1 ½"-DN32	10x30mm
②	DRF 100/2/G40H A1CT5	400	3	1.1	0.74	1.9	2900	Dir	4G1.5+3x1	G1 ½"-DN32	10x30mm

DRF 2/G50V

Performances

	l/s	0	2	4	6	8	10	12
	l/min	0	120	240	360	480	600	720
	m ³ /h	0	7.2	14.4	21.6	28.8	36	43.2
①	DRF 150/2/G50V A1CM(T)5	12.5	11.3	10.1	8.8	7.0	4.7	
②	DRF 200/2/G50V A1CM(T)5	16.5	15.2	13.7	12.3	10.6	8.5	5.7

Characteristic curves according to UNI EN ISO 9906



Technical data

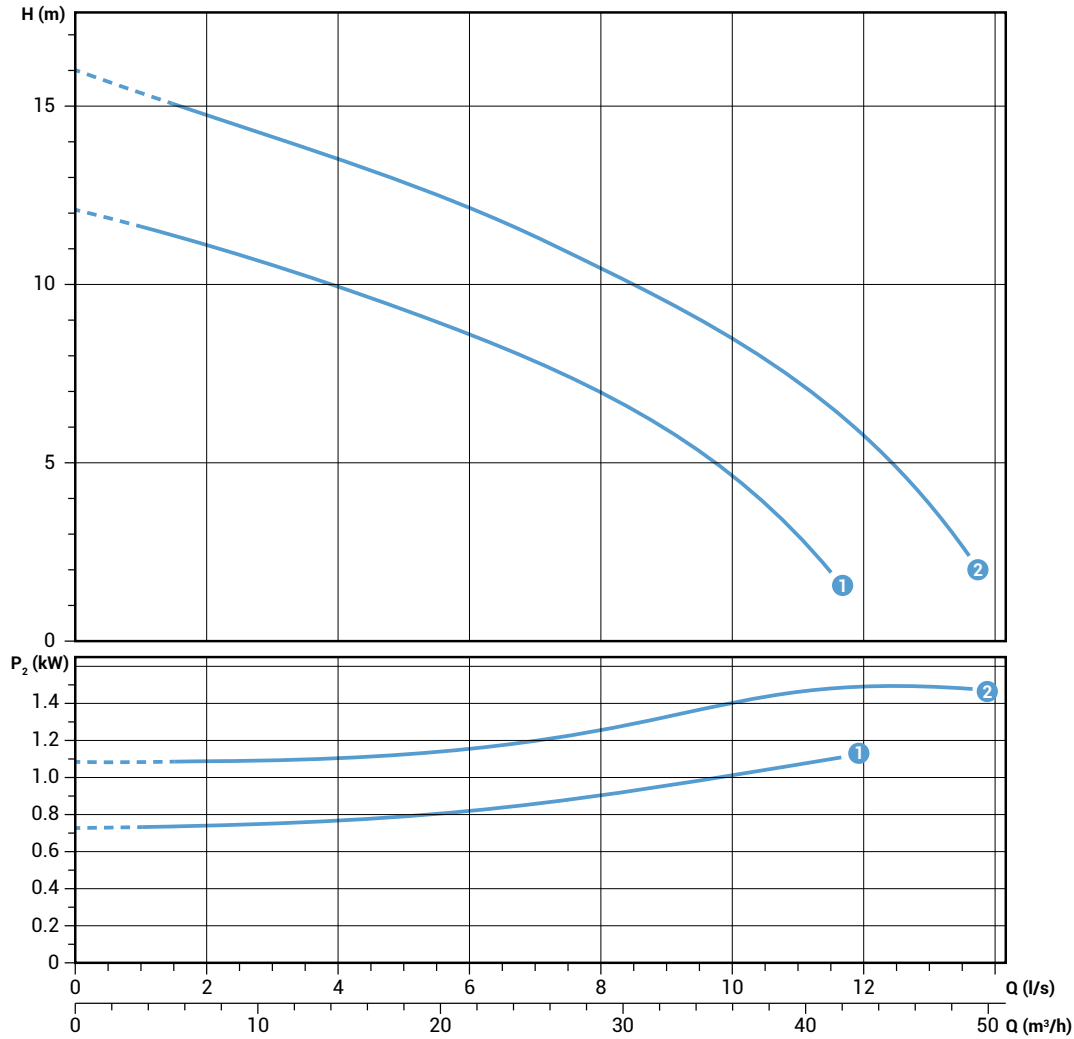
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage	
①	DRF 150/2/G50V A1CM5	230	1	1.6	1.1	7.2	2900	Dir	4G1.5+3x1	GAS 2"	10x30 mm
②	DRF 200/2/G50V A1CM5	230	1	2.2	1.5	9.8	2900	Dir	4G1.5+3x1	GAS 2"	10x30 mm

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage	
①	DRF 150/2/G50V A1CT5	400	3	1.7	1.1	2.9	2900	Dir	4G1.5+3x1	GAS 2"	10x30 mm
②	DRF 200/2/G50V A1CT5	400	3	2.1	1.5	3.7	2900	Dir	4G1.5+3x1	GAS 2"	10x30 mm

DRF 2/G50H

Performances

	l/s	0	2	4	6	8	10	12
	l/min	0	120	240	360	480	600	720
	m ³ /h	0	7.2	14.4	21.6	28.8	36	43.2
① DRF 150/2/G50H A1CM(T)5		12.1	11.1	9.9	8.6	7	4.6	
② DRF 200/2/G50H A1CM(T)5		16	14.7	13.5	12.1	10.5	8.4	5.8



Characteristic curves according to UNI EN ISO 9906

Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
① DRF 150/2/G50H A1CM5	230	1	1.6	1.1	7.2	2900	Dir	4G1.5+3x1	G2"-DN50	10x30 mm
② DRF 200/2/G50H A1CM5	230	1	2.2	1.5	9.8	2900	Dir	4G1.5+3x1	G2"-DN50	10x30 mm

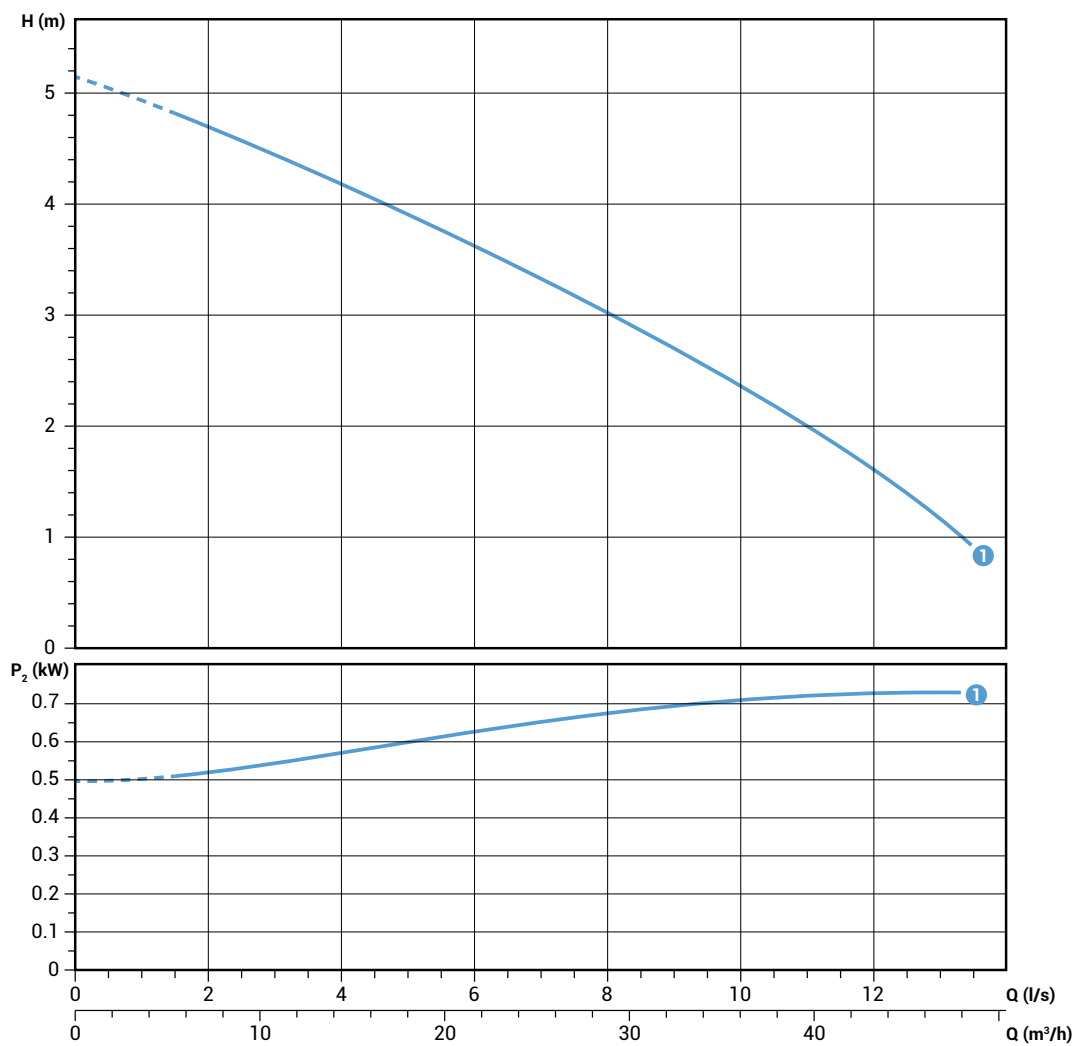
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
① DRF 150/2/G50H A1CT5	400	3	1.7	1.1	2.9	2900	Dir	4G1.5+3x1	G2"-DN50	10x30 mm
② DRF 200/2/G50H A1CT5	400	3	2.1	1.5	3.7	2900	Dir	4G1.5+3x1	G2"-DN50	10x30 mm

DRF 4/65

Performances

	0	2	4	6	8	10	12
l/s	0	2	4	6	8	10	12
l/min	0	120	240	360	480	600	720
m ³ /h	0	7.2	14.4	21.6	28.8	36	43.2
① DRF 100/4/65 A1CT5	5.1	4.7	4.2	3.6	3.0	2.4	1.6

Characteristic curves according to UNI EN ISO 9906



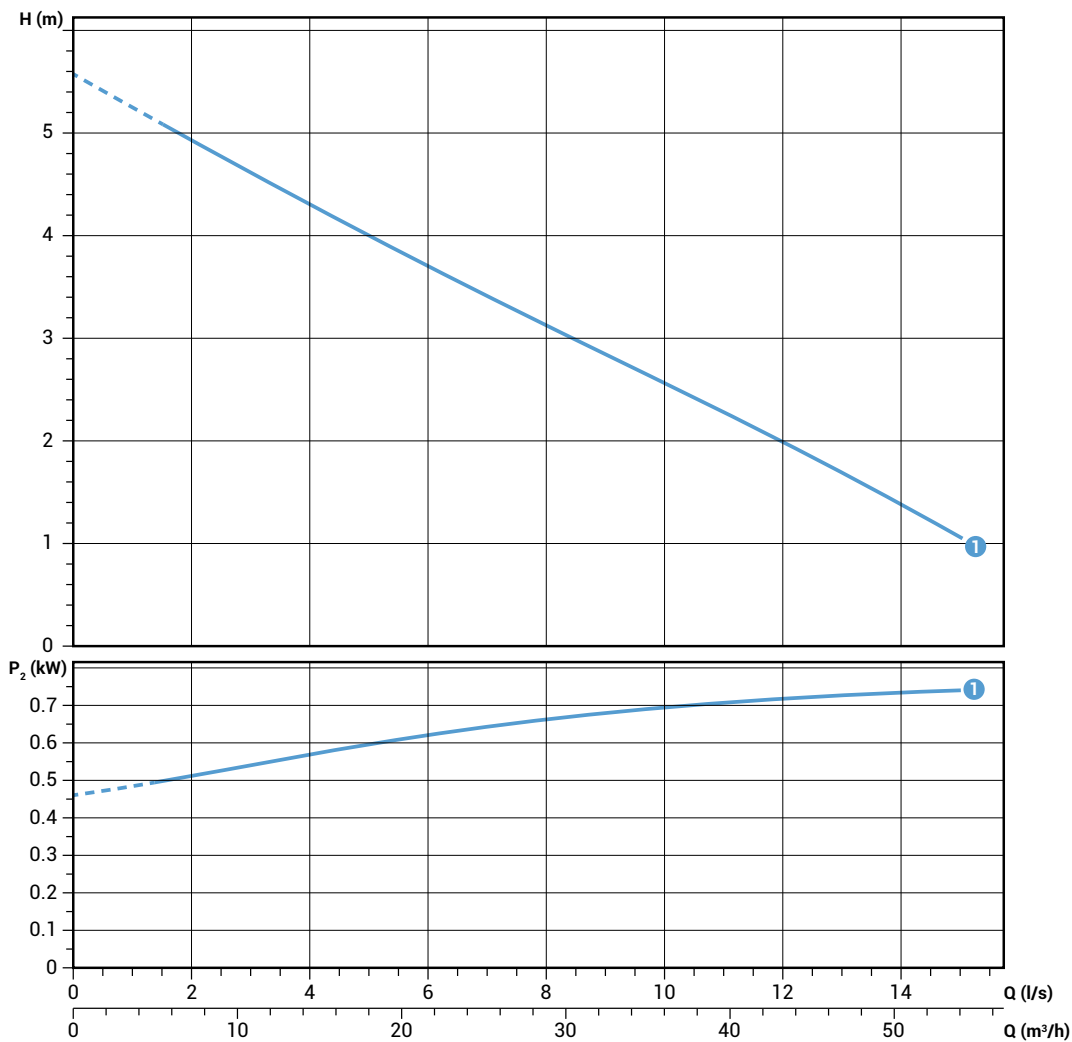
Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
① DRF 100/4/65 A1CT5	400	3	1.1	0.74	2.2	1450	Dir	4G1.5+3x1	DN65	50 mm

DRF 4/80

Performances

	0	2	4	6	8	10	12	14
l/s	0	2	4	6	8	10	12	14
l/min	0	120	240	360	480	600	720	840
m³/h	0	7.2	14.4	21.6	28.8	36	43.2	50.4
① DRF 100/4/80 A1CT5	5.6	4.9	4.3	3.7	3.1	2.6	2.0	1.4



Characteristic curves according to UNI EN ISO 9906

Technical data

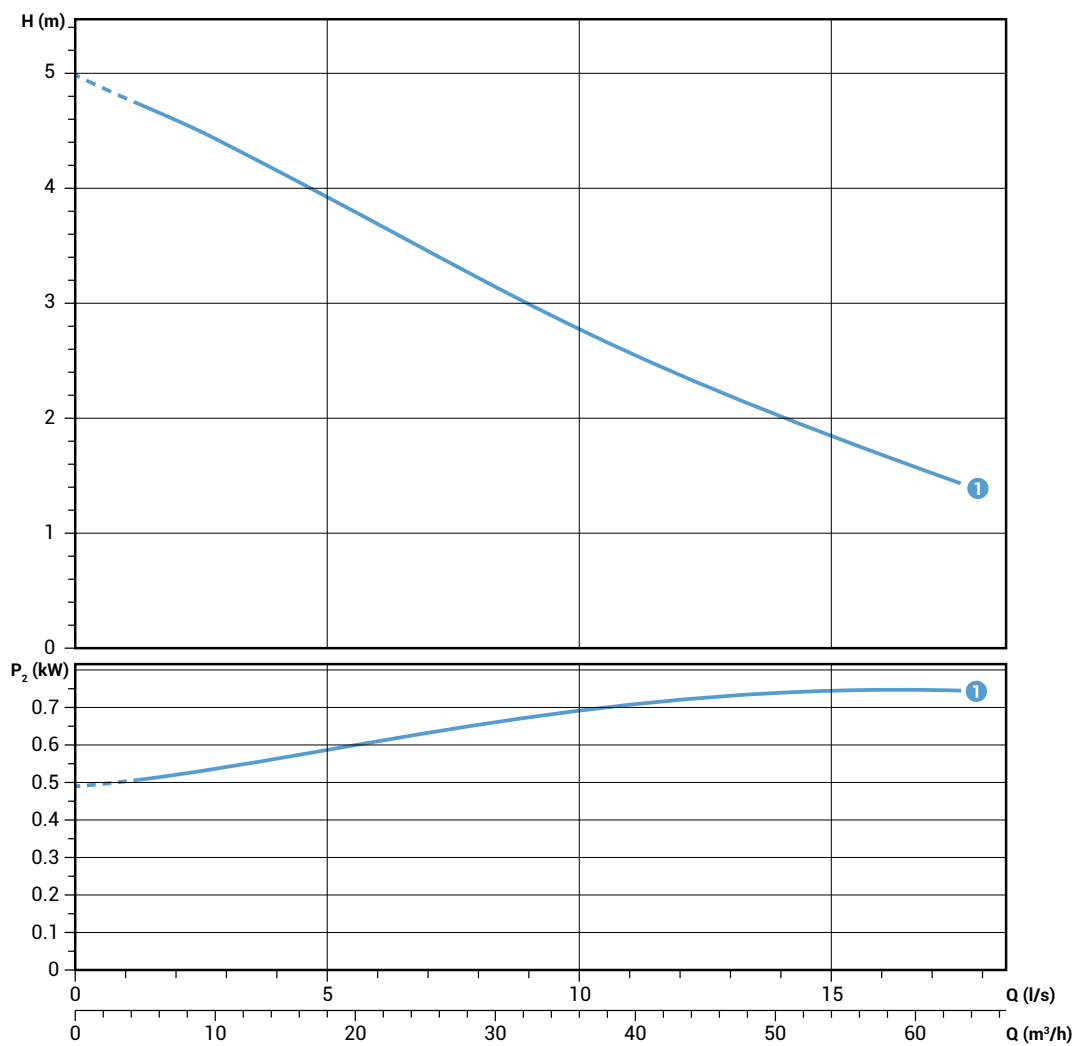
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
① DRF 100/4/80 A1CT5	400	3	1.1	0.74	2.2	1450	Dir	4G1.5+3x1	DN80	50 mm

DRF 4/100

Performances

	0	2	4	6	8	10	12	14	16
l/s	0	2	4	6	8	10	12	14	16
l/min	0	120	240	360	480	600	720	840	960
m ³ /h	0	7.2	14.4	21.6	28.8	36	43.2	50.4	57.6
① DRF 100/4/100 A1CT5	5.0	4.6	4.1	3.7	3.2	2.8	2.4	2.0	1.7

Characteristic curves according to UNI EN ISO 9906



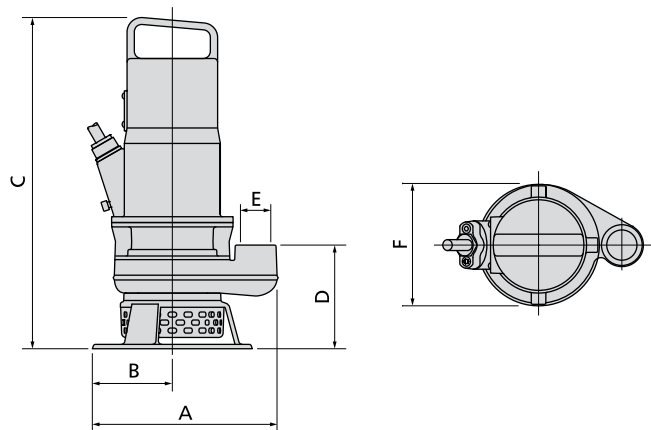
Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	∅	Free passage
① DRF 100/4/100 A1CT5	400	3	1.1	0.74	2.2	1450	Dir	4G1.5+3x1	DN100	50 mm

DRF

Overall dimensions and weights

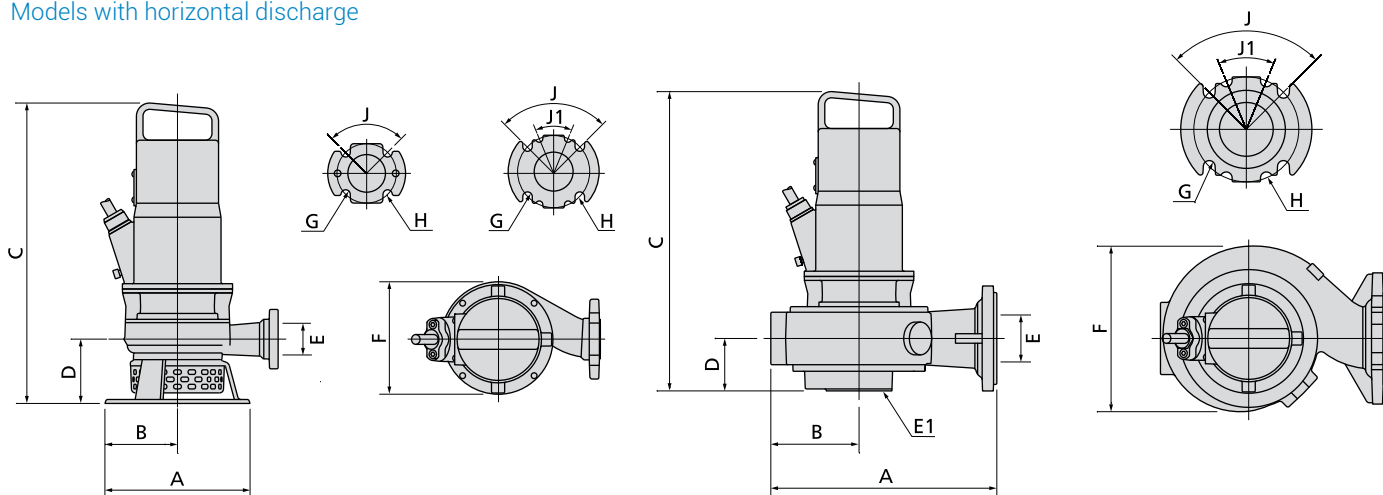
Models with vertical discharge



	A	B	C	D	E	F	kg
DRF 75/2/G40V A1CM(T)5	225	80	455	145	G 1½"	170	27
DRF 100/2/G40V A1CM(T)5	225	80	455	145	G 1½"	170	28
DRF 150/2/G50V A1CM(T)5	265	100	465	165	G 2"	190	32
DRF 200/2/G50V A1CM(T)5	265	100	465	165	G 2"	190	32

Dimensions in mm

Models with horizontal discharge



	A	B	C	D	E	E1(+)	F	G	H	J	J1	kg
DRF 75/2/G40H A1CM(T)5	225	80	455	100	G 1½"	-	170	14	90	90°	-	28
DRF 100/2/G40H A1CM(T)5	225	80	455	100	G 1½"	-	170	14	90	90°	-	31
DRF 150/2/G50H A1CM(T)5	250	90	465	105	G 2"	-	195	18	125	90°	-	31
DRF 200/2/G50H A1CM(T)5	250	90	465	105	G 2"	-	195	18	125	90°	-	32
DRF 100/4/65 A1CT5	345	135	455	80	65	65	255	18	145	90°	-	41
DRF 100/4/80 A1CT5	345	135	455	80	80	65	255	18	160	90°	45°	42
DRF 100/4/100 A1CT5	430	170	475	90	100	80	325	18	180	45°	-	47

Dimensions in mm

Packaging dimension

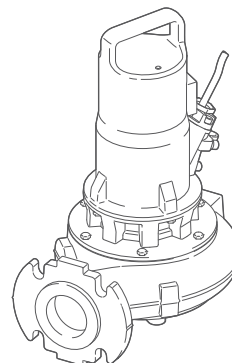
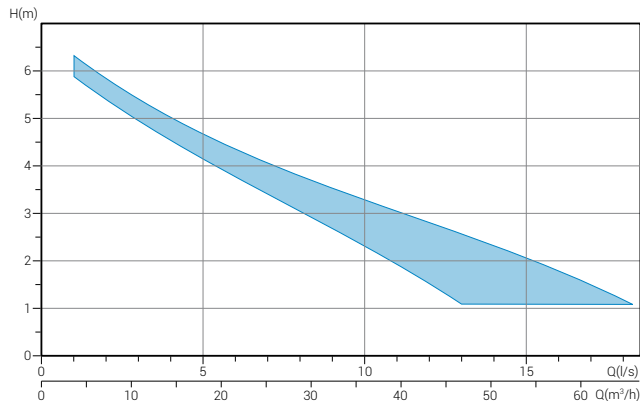
	X	Y	Z
DRF 75/2/G40V A1CM(T)5	580	310	310
DRF 100/2/G40V A1CM(T)5	580	310	310
DRF 150/2/G50V A1CM(T)5	580	310	310
DRF 200/2/G50V A1CM(T)5	580	310	310
DRF 75/2/G40H A1CM(T)5	580	310	310
DRF 100/2/G40H A1CM(T)5	580	310	310
DRF 150/2/G50H A1CM(T)5	580	310	310
DRF 200/2/G50H A1CM(T)5	580	310	310
DRF 100/4/65 A1CT5	725	445	415
DRF 100/4/80 A1CT5	725	445	415
DRF 100/4/100 A1CT5	725	445	415

Dimensions in mm

MAF

Single-channel open impeller

Operating ranges



Range characteristics

Motor power	0.74 kW
Poles	4
Insulation class	H
Degree of protection	IP68
Discharge	DN65 ÷ DN100 horizontal
Free passage	max 55 mm
Max flow rate	17.6 l/s
Max head	6.9 m

Motor

Ecological dry motor with thermal protections.

Cable

STRN8-F 10 m cable length.

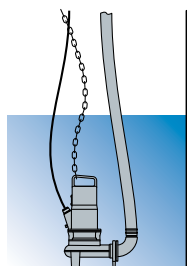
Mechanical seals

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

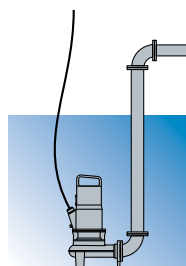
Applications

The MAF can be used with liquids containing traces of flammable substances, and in gassy environments.

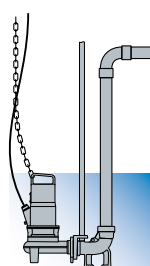
Installations



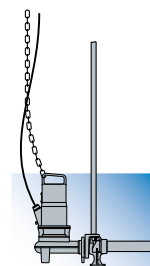
Free



Fixed



with base coupling foot



Versions

Electrical variants	T, TS
Cooling system	N
Mechanical seals	2SiC

Operating specifications

Max operating temperature	40 °C
PH of treated fluid	6 ÷ 14
Viscosity of treated fluid	1 mm²/s
Maximum immersion depth	20 m
Density of treated fluid	1 Kg/dm³
Acoustic pressure max	<70dB
Max starts per hour	30

Construction materials

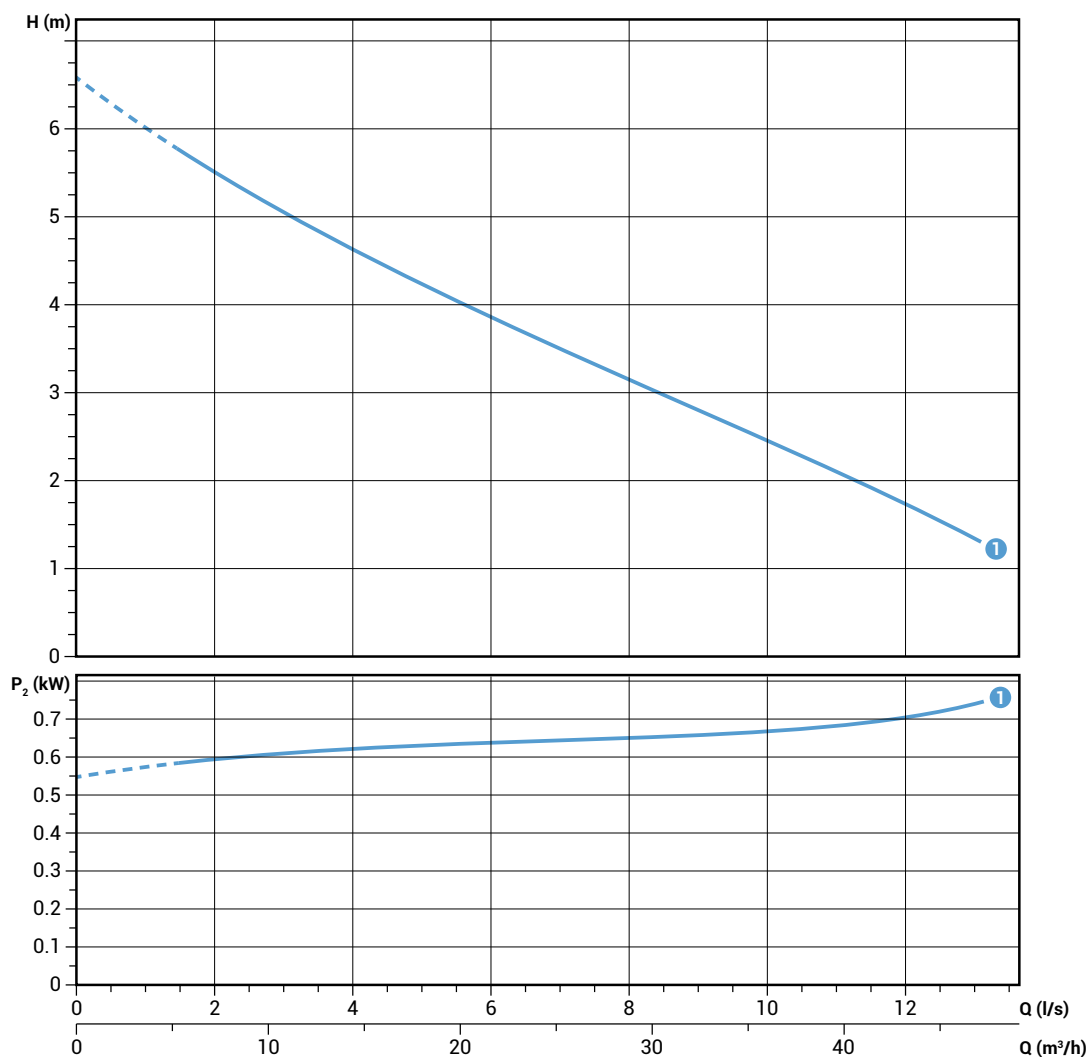
Case	Cast iron EN-GJL 250
Hydraulic parts	Cast iron EN-GJL 250
Impeller	Cast iron EN-GJL 250
Nuts and bolts	Stainless steel - Class A2-70
Standard gasket	Rubber - NBR
Shaft	Stainless steel - AISI 420
Paint type	Ecological bicomponent epoxy (~ 150 µm)

MAF 4/65

Performances

	0	2	4	6	8	10	12
l/s	0	2	4	6	8	10	12
l/min	0	120	240	360	480	600	720
m ³ /h	0	7,2	14,4	21,6	28,8	36	43,2
① MAF 100/4/65 A1CT5	6.6	5.5	4.6	3.9	3.2	2.4	1.7

Characteristic curves according to UNI EN ISO 9906



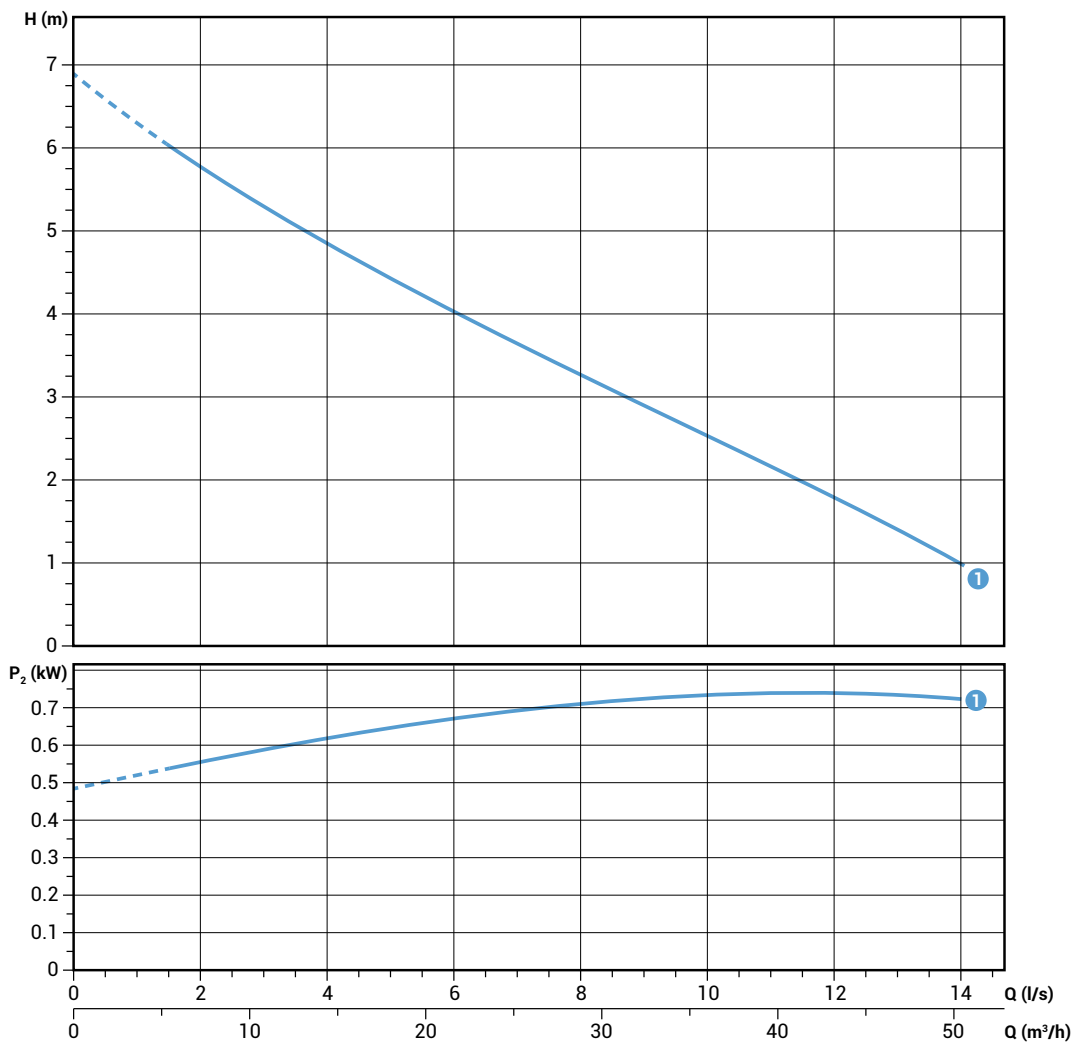
Technical data

	V	Phases	P1 (kw)	P2 (kw)	A	Rpm	Start	Cable	Ø	Free passage
① MAF 100/4/65 A1CT5	400	3	1.1	0.74	2.2	1450	Dir	4G1.5+3x1	DN65	50 mm

MAF 4/80

Performances

	l/s	0	2	4	6	8	10	12	14
	l/min	0	120	240	360	480	600	720	840
	m ³ /h	0	7,2	14,4	21,6	28,8	36	43,2	50,4
① MAF 100/4/80 A1CT5		6.9	5.8	4.8	4.0	3.3	2.5	1.8	1.0



Characteristic curves according to UNI EN ISO 9906

Technical data

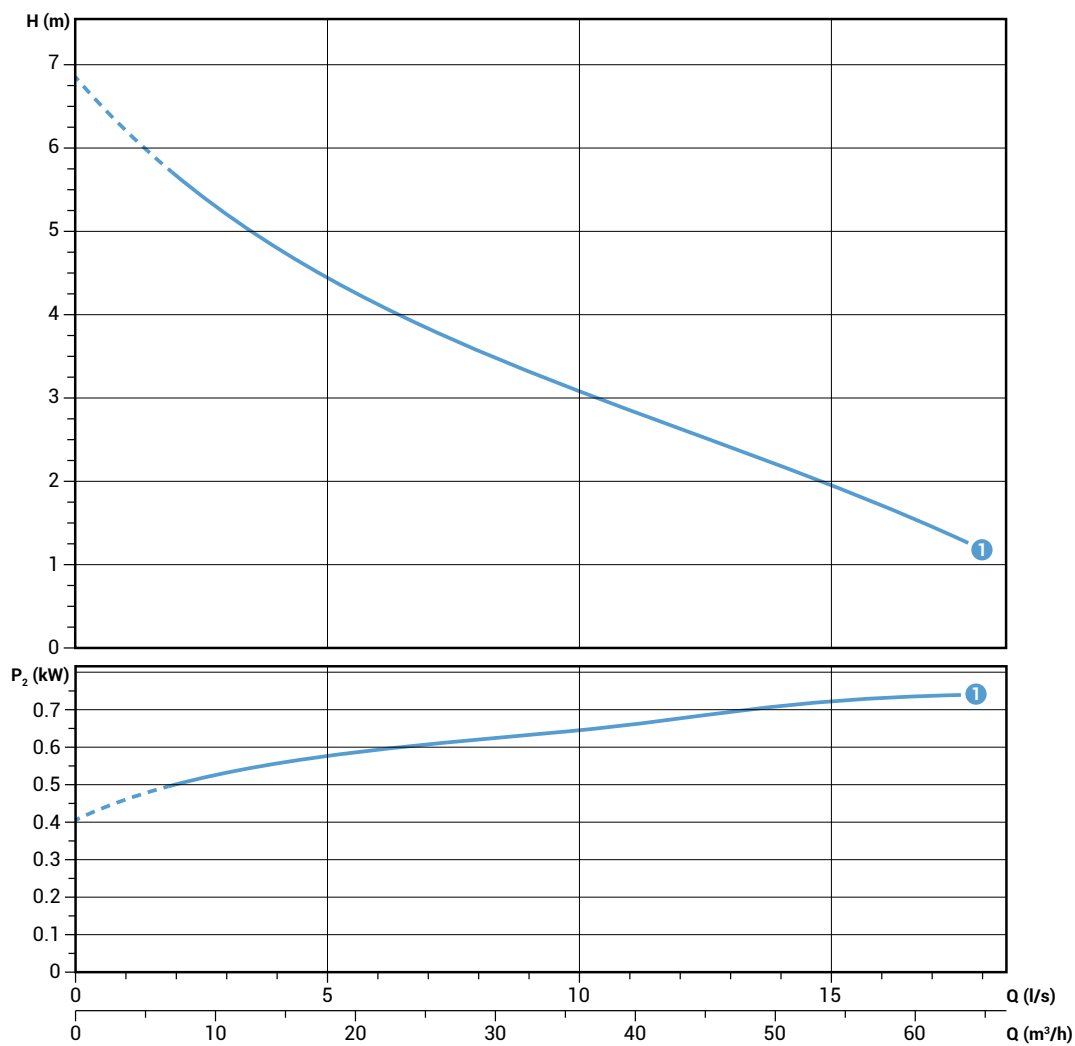
	V	Phases	P1 (kw)	P2 (kw)	A	Rpm	Start	Cable	Ø	Free passage
① MAF 100/4/80 A1CT5	400	3	1.1	0.74	2.2	1450	Dir	4G1.5+3x1	DN80	50 mm

MAF 4/100

Performances

	0	2	4	6	8	10	12	14	16
l/s	0	2	4	6	8	10	12	14	16
l/min	0	120	240	360	480	600	720	840	960
m ³ /h	0	7,2	14,4	21,6	28,8	36	43,2	50,4	57,6
① MAF 100/4/100 A1CT5	6.9	5.7	4.8	4.1	3.6	3.1	2.6	2.2	1.7

Characteristic curves according to UNI EN ISO 9906

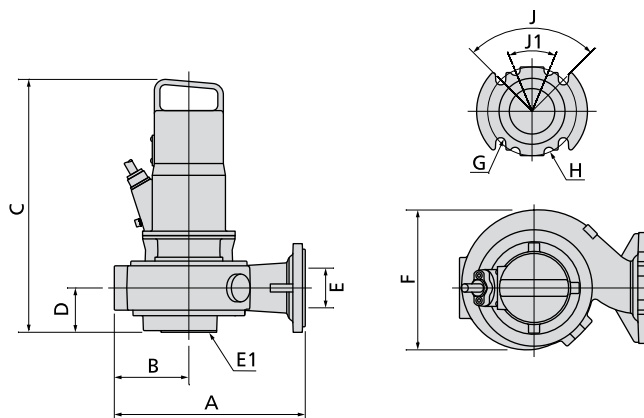


Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
① MAF 100/4/100 A1CT5	400	3	1.1	0.74	2.2	1450	Dir	4G1.5+3x1	DN100	40 mm

MAF

Overall dimensions and weights



	A	B	C	D	E	E1 (*)	F	G	H	J	J1	kg
MAF 100/4/65 A1CT5	345	135	455	80	65	65	255	18	145	90°	-	42
MAF 100/4/80 A1CT5	345	135	455	80	80	80	255	18	160	90°	45°	42
MAF 100/4/100 A1CT5	430	170	475	90	100	80	325	18	180	45°	-	48

Dimensions in mm

Packaging dimension

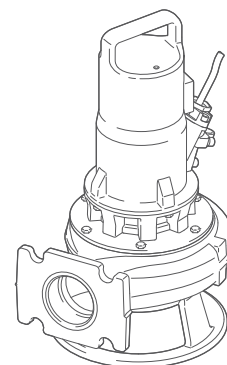
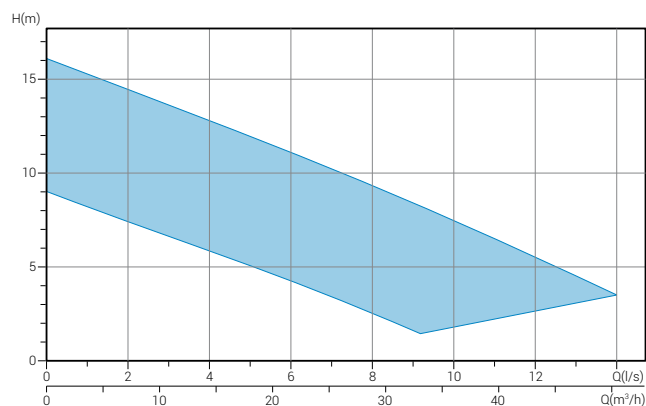


	A	B	C
MAF 100/4/65 A1CT5	725	445	415
MAF 100/4/80 A1CT5	725	445	415
MAF 100/4/100 A1CT5	725	445	415

Dimensions in mm

Single-channel closed impeller

Operating ranges



Range characteristics

Motor power	0.74 ÷ 1.5 kW
Poles	2
Insulation class	H
Degree of protection	IP68
Discharge	GAS 2" DN80 horizontal
Free passage	max 50 mm
Max flow rate	14 l/s
Max head	16.1 m

Motor

Ecological dry motor with thermal protections.

Cable

S1RN8-F 10 m cable length.

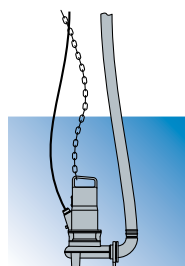
Mechanical seals

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

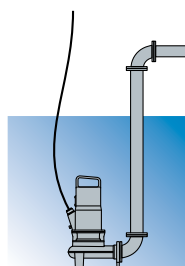
Applications

The SMF can be used with liquids containing traces of flammable substances, and in gassy environments.

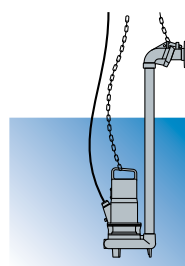
Installations



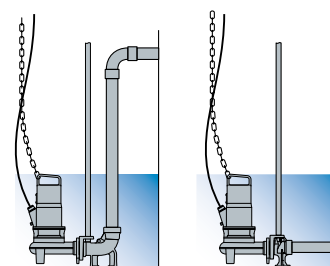
Free



Fixed



with external coupler



with base coupling foot

Versions

Electrical variants	TC (single-phase models) T, TS (three-phase models)
Cooling system	N
Mechanical seals	2SIC

Operating specifications

Max 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
Acoustic pressure max	<70dB
Max starts per hour	30

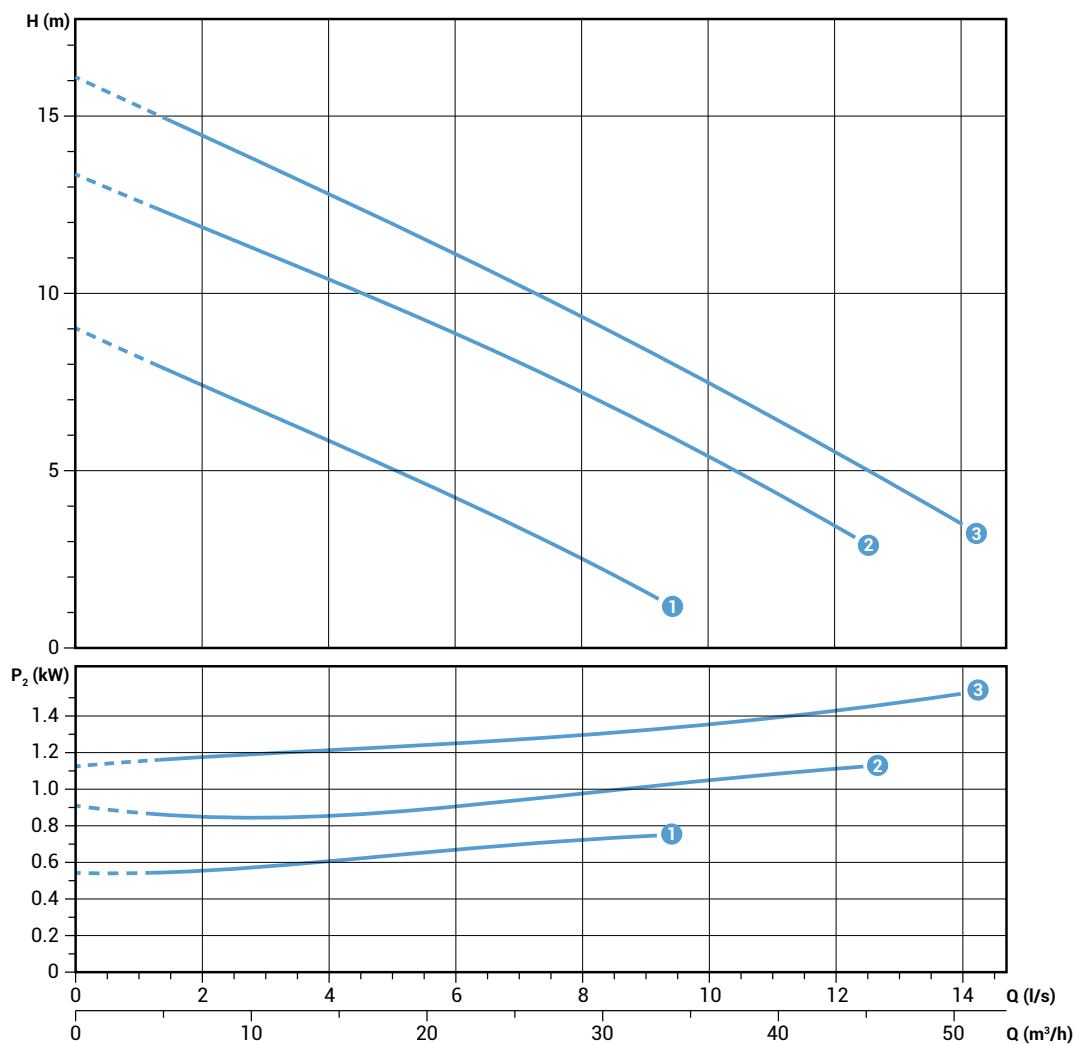
Construction materials

Case	Cast iron EN-GJL 250
Hydraulic parts	Cast iron EN-GJL 250
Impeller	Cast iron EN-GJL 250
Nuts and bolts	Stainless steel - Class A2-70
Standard gasket	Rubber - NBR
Shaft	Stainless steel - AISI 420
Paint type	Ecological bicomponent epoxy (~ 150 µm)

SMF 2/G50H

Performances

	l/s	0	2	4	6	8	10	12	14
	l/min	0	120	240	360	480	600	720	840
	m ³ /h	0	7,2	14,4	21,6	28,8	36	43,2	50,4
① SMF 100/2/G50H A1CM(T)5		9.0	7.4	5.8	4.2	2.5			
② SMF 150/2/G50H A1CM(T)5		13.3	11.9	10.4	8.9	7.2	5.4	3.5	
③ SMF 200/2/G50H A1CM(T)5		16.7	14.5	12.8	11.1	9.3	7.5	5.5	3.5



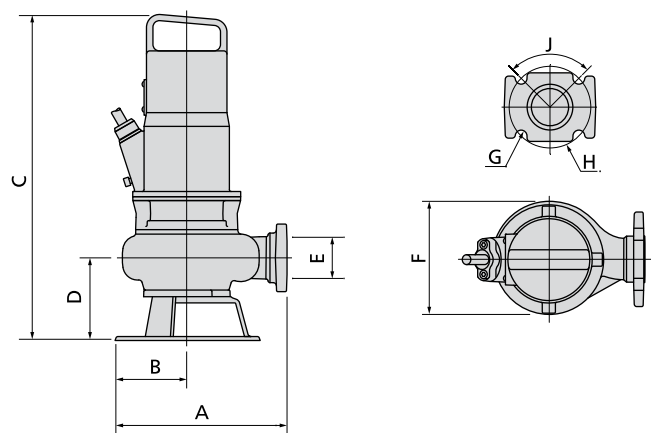
Characteristic curves according to UNI EN ISO 9906


Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
① SMF 100/2/G50H A1CT5	230	1	1.0	0.74	4.9	2900	Dir	4G1.5+3x1	G2"-DN80	50 mm
② SMF 150/2/G50H A1CT5	230	1	1.6	1.1	7.2	2900	Dir	4G1.5+3x1	G2"-DN80	50 mm
③ SMF 200/2/G50H A1CT5	230	1	2.2	1.5	9.8	2900	Dir	4G1.5+3x1	G2"-DN80	50 mm

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
① SMF 100/2/G50H A1CT5	230	1	1.0	0.74	4.9	2900	Dir	4G1.5+3x1	G2"-DN80	50 mm
② SMF 150/2/G50H A1CT5	230	1	1.6	1.1	7.2	2900	Dir	4G1.5+3x1	G2"-DN80	50 mm
③ SMF 200/2/G50H A1CT5	230	1	2.2	1.5	9.8	2900	Dir	4G1.5+3x1	G2"-DN80	50 mm

Overall dimensions and weights



	A	B	C	D	E	F	G	H	J	
SMF 100/2/G50H A1CM(T)5	255	100	505	130	G 2"	205	18	125	90°	34
SMF 150/2/G50H A1CM(T)5	255	100	505	130	G 2"	205	18	125	90°	35
SMF 200/2/G50H A1CM(T)5	255	100	505	130	G 2"	205	18	125	90°	36

Dimensions in mm

Packaging dimension



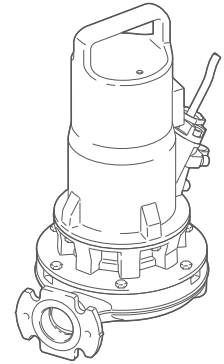
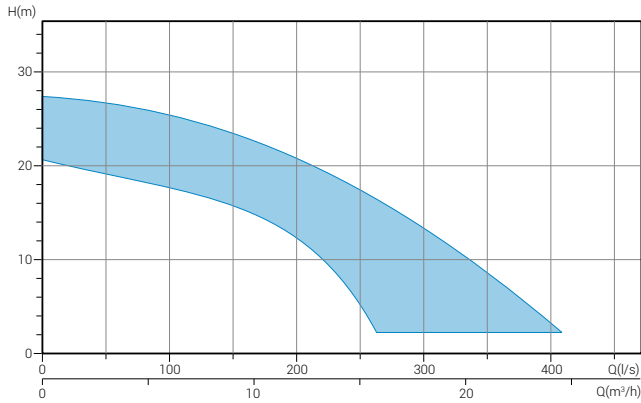
	X	Y	Z
SMF 100/2/G50H A1CM(T)5	310	580	310
SMF 150/2/G50H A1CM(T)5	310	580	310
SMF 200/2/G50H A1CM(T)5	310	580	310

Dimensions in mm

GRF

Impeller with grinder system

Operating ranges



Range characteristics

Motor power	1.1 ÷ 1.5 kW
Poles	2
Insulation class	H
Degree of protection	IP68
Discharge	GAS 1½ DN32 horizontal
Free passage	-
Max flow rate	6.4 l/s
Max head	23 m

Motor

Ecological dry motor with thermal protections.

Cable

S1RN8-F 10 m cable length.

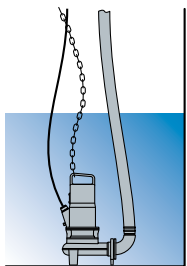
Mechanical seals

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

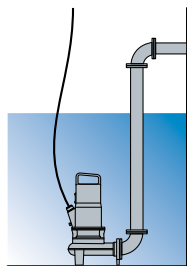
Applications

The GRF is especially recommended for wastewaters containing filaments or fibres, and unstrained civil and industrial wastewaters in general.

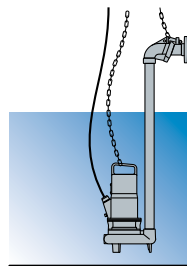
Installations



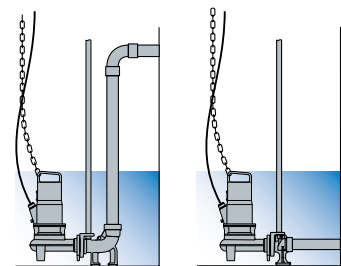
Free



Fixed



with external coupler



with base coupling foot

Versions

Electrical variants	TCD (single-phase models) T, TS (three-phase models)
Cooling system	N
Mechanical seals	2SIC

Operating specifications

Max operating temperature	40 °C
PH of treated fluid	6 ÷ 14
Viscosity of treated fluid	1 mm²/s
Maximum immersion depth	20 m
Density of treated fluid	1 Kg/dm³
Acoustic pressure max	<70dB
Max starts per hour	30

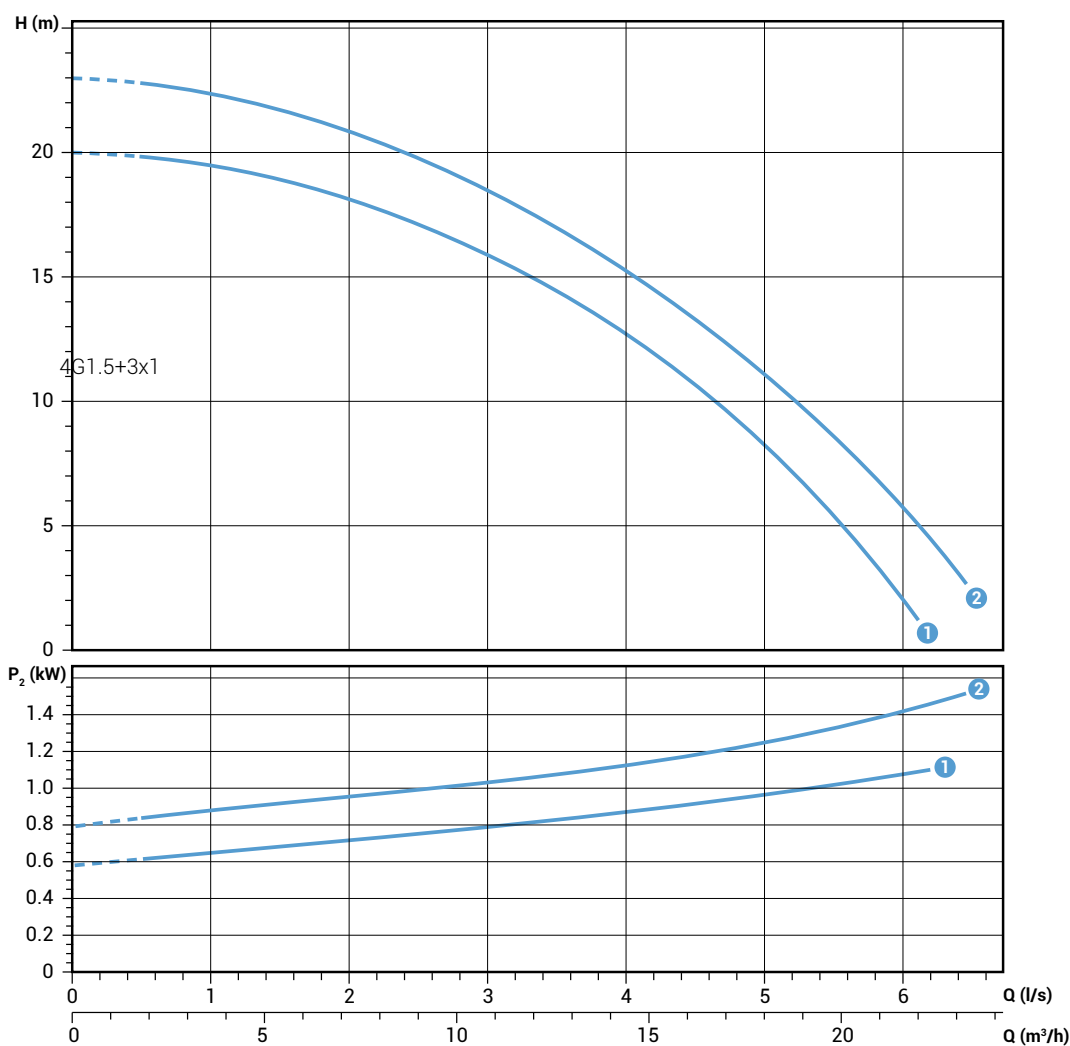
Construction materials

Case	Cast iron EN-GJL 250
Hydraulic parts	Cast iron EN-GJL 250
Impeller	Cast iron EN-GJL 250
Nuts and bolts	Stainless steel - Class A2-70
Standard gasket	Rubber - NBR
Shaft	Stainless steel - AISI 420
Cutter	Chromium steel
Cutting disk	Chromium steel
Paint type	Ecological bicomponent epoxy (~ 150 µm)

GRF 2/G40H

Performances

	l/s	0	1	2	3	4	5	6
	l/min	0	60	120	180	240	300	360
	m ³ /h	0	3.6	7.2	10.8	14.4	18	21.6
①	GRF 150/2/G40H A1CM(T)5	20,0	19,5	18,1	15,8	12,8	8,2	2,0
②	GRF 200/2/G40H A1CM(T)5	23,0	22,4	20,9	18,4	15,3	11,0	5,8

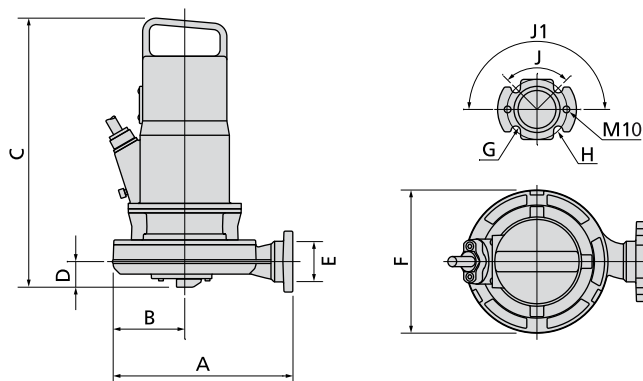


Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage	
①	GRF 150/2/G40H A1CM5	230	1	1.6	1.1	7.2	2900	Dir	4G1.5+3x1	GAS 1½"-DN32	-
②	GRF 200/2/G40H A1CM5	230	1	2.2	1.5	9.8	2900	Dir	4G1.5+3x1	GAS 1½"-DN32	-
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage	
①	GRF 150/2/G40H A1CT5	400	3	2.7	1.8	12.5	2900	Dir	4G1.5+3x1	GAS 1½"-DN32	-
②	GRF 200/2/G40H A1CT5	400	3	2.3	1.8	3.9	2900	Dir	4G1.5+3x1	GAS 1½"-DN32	-

GRF

Overall dimensions and weights



	A	B	C	D	E	F	G	H	J	J1	kg
GRF 150/2/G40H A1CM(T)5	265	105	405	45	G 1½"	215	14	90	90°	180°	32
GRF 200/2/G40H A1CM(T)5	265	105	405	45	G 1½"	215	14	90	90°	180°	34

Dimensions in mm

Packaging dimension

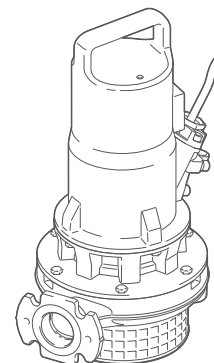
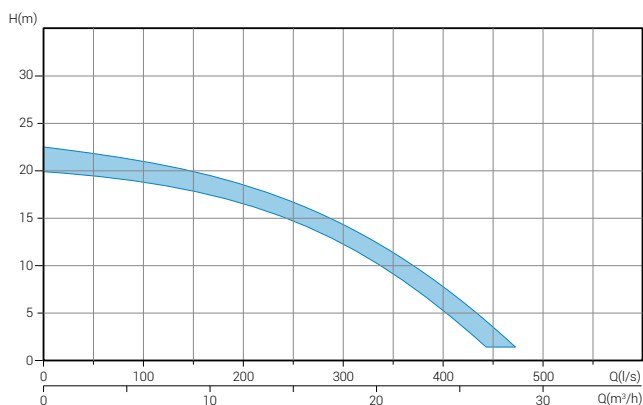


	A	B	C
GRF 150/2/G40H A1CM(T)5	580	310	310
GRF 200/2/G40H A1CM(T)5	580	310	310

Dimensions in mm

High head impeller

Operating ranges



Range characteristics

Motor power	1.1 ÷ 1.5 kW
Poles	2
Insulation class	H
Degree of protection	IP68
Discharge	GAS 1½ DN32 horizontal
Free passage	max 7 mm
Max flow rate	7.6 l/s
Max head	22.6 m

Motor

Ecological dry motor with thermal protections.

Cable

S1RN8-F 10 m cable length.

Mechanical seals

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

Applications

The APF can be used with liquids containing traces of flammable substances, and in gassy environments.

Versions

Electrical variants	TC (single-phase models) T, TS (three-phase models)
Cooling system	N
Mechanical seals	2SiC

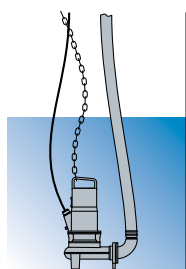
Operating specifications

Max operating temperature	40 °C
PH of treated fluid	6 ÷ 14
Viscosity of treated fluid	1 mm²/s
Maximum immersion depth	20 m
Density of treated fluid	1 Kg/dm³
Acoustic pressure max	<70dB
Max starts per hour	30

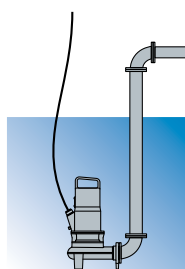
Construction materials

Case	Cast iron EN-GJL 250
Hydraulic parts	Cast iron EN-GJL 250
Impeller	Cast iron EN-GJL 250
Nuts and bolts	Stainless steel - Class A2-70
Standard gasket	Rubber - NBR
Shaft	Acciaio INOX - AISI 420
Strainer	Acciaio INOX - AISI 304
Paint type	Ecological bicomponent epoxy (~ 150 µm)

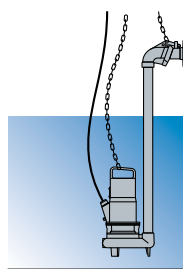
Installations



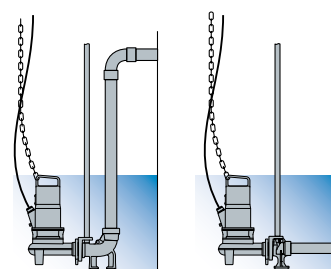
Free



Fixed



with external coupler

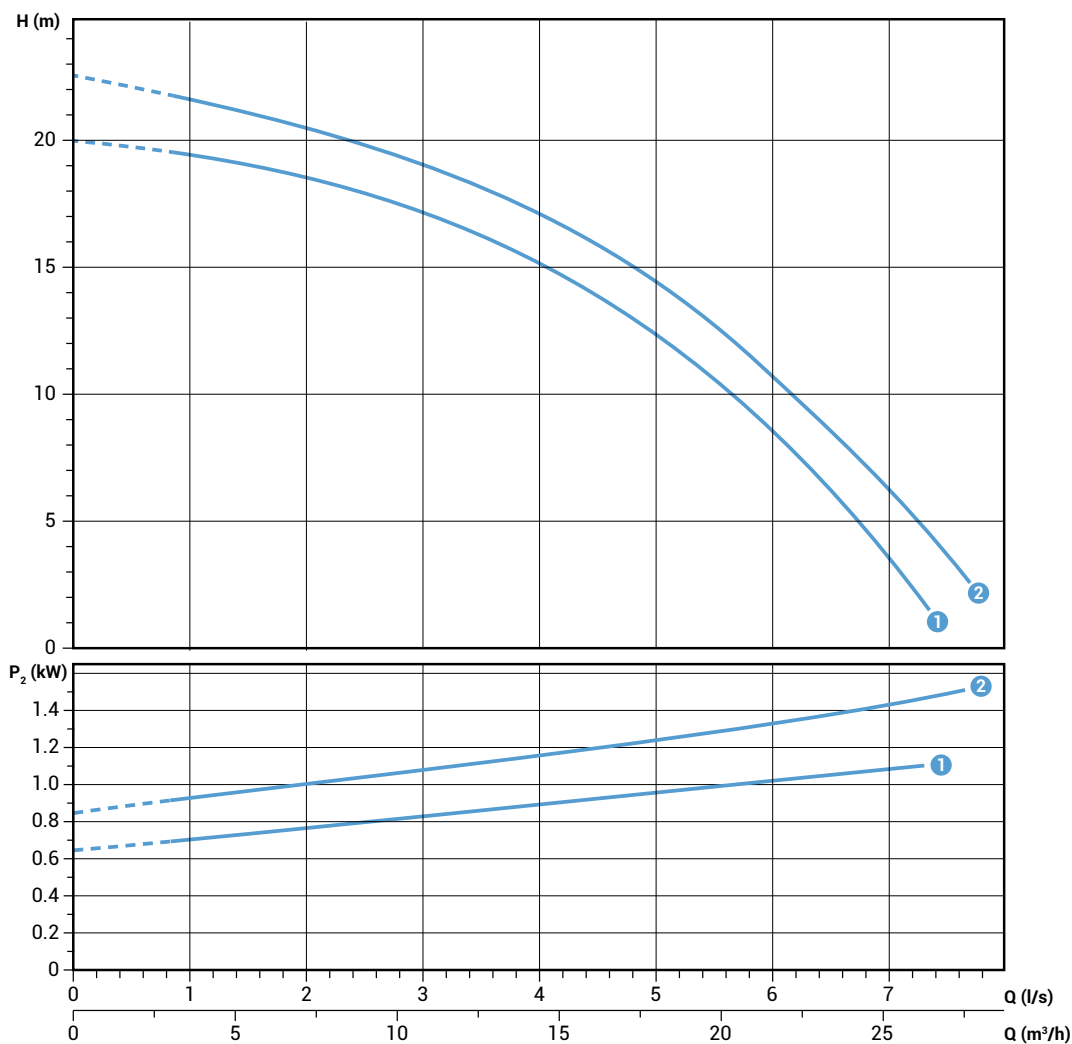


with base coupling foot

APF 2/G40H

Performances

	l/s	0	1	2	3	4	5	6	7
	l/min	0	60	120	180	240	300	360	420
	m ³ /h	0	3.6	7.2	10.8	14.4	18	21.6	25.2
①	APF 150/2/G40H A1CM(T)5	19.9	19.5	18.5	17.1	15.1	12.3	8.5	3.5
②	APF 200/2/G40H A1CM(T)5	22.5	21.6	20.5	19	17.1	14.4	10.7	6.3

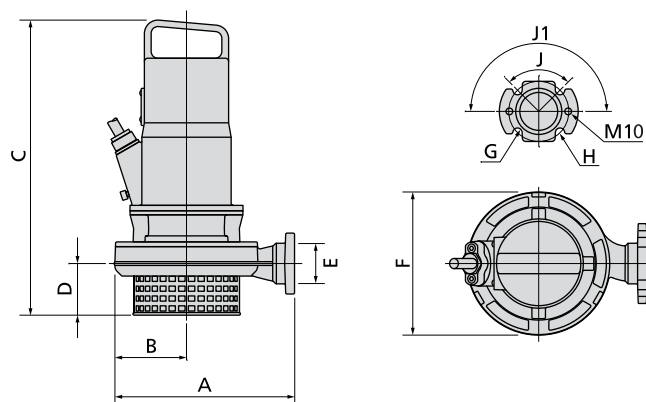


Characteristic curves according to UNI EN ISO 9906

Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	∅	Free passage	
①	APF 150/2/G40H A1CM5	230	1	1.6	1.1	7.2	2900	Dir	4G1.5+3x1	G1½"-DN32	7 mm
②	APF 200/2/G40H A1CM5	230	1	2.2	1.5	9.8	2900	Dir	4G1.5+3x1	G1½"-DN32	7 mm
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	∅	Free passage	
①	APF 150/2/G40H A1CT5	400	3	1.7	1.1	2.9	2900	Dir	4G1.5+3x1	G1½"-DN32	7 mm
②	APF 200/2/G40H A1CT5	400	3	2.1	1.5	3.7	2900	Dir	4G1.5+3x1	G1½"-DN32	7 mm

Overall dimensions and weights



	A	B	C	D	E	F	G	H	J	J1	kg
APF 150/2/G40H A1CM(T)5	265	105	440	80	G 1½"	215	14	90	90°	180°	32
APF 200/2/G40H A1CM(T)5	265	105	440	80	G 1½"	215	14	90	90°	180°	34

Dimensions in mm

Packaging dimension



	A	B	C
APF 150/2/G40H A1CM(T)5	580	310	310
APF 200/2/G40H A1CM(T)5	580	310	310

Dimensions in mm

Hydraulic performance data

For quick, easy reference

DGF	I/s	0	2	4	6	8	10	12	14	16
	l/min	0	120	240	360	480	600	720	840	960
	m ³ /h	0	7.2	14.4	21.6	28.8	36	43.2	50.4	57.6
DGF 75/2/G40V A1CM(T)5		8.0	6.9	4.4						
DGF 100/2/G40V A1CM(T)5		9.6	8.4	6.0	2.8					
DGF 150/2/G40V A2CM(T)5		14.9	12.2	9.0	5.0					
DGF 200/2/G40V A2CM(T)5		17.0	14.3	11.2	7.6	3.0				
DGF 150/2/G40H A1CM(T)5		15.7	13.9	11.2	7.2	2.4				
DGF 200/2/G40H A1CM(T)5		17.5	15.9	13.4	9.6	4.6				
DGF 150/2/G50V A1CM(T)5		12.9	10.9	8.7	6.3	4.0	1.9			
DGF 200/2/G50V A1CM(T)5		14.3	12.5	10.4	8.1	5.9	3.8			
DGF 75/2/G50H A1CM(T)5		6.6	5.7	4.1	2.5	0.9				
DGF 100/2/G50H A1CM(T)5		8.6	7.6	5.9	3.9	1.9				
DGF 150/2/G50H A1CM(T)5		12.6	12.0	10.1	7.6	4.9	2.0			
DGF 200/2/G50H A1CM(T)5		14.4	13.6	12.1	9.7	7.0	4.2			
DGF 150/2/G65V A1CM(T)5		7.4	6.5	5.3	3.9	2.4				
DGF 200/2/G65V A1CM(T)5		9.7	8.6	7.5	6.1	4.5	2.7			
DGF 150/2/65 A1CM(T)5		6.9	6.2	5.2	4.1	2.9	1.6			
DGF 200/2/65 A1CM(T)5		9.2	8.4	7.4	6.1	4.8	3.3	1.9		
DGF 150/2/80 A1CM(T)5		4.7	4.4	3.8	3.1	2.5	1.8			
DGF 200/2/80 A1CM(T)5		6.2	5.9	5.3	4.6	3.8	3.0	2.2		
DGF 100/4/65 A1CT5		7.7	7.1	6.4	5.5	4.5	3.5	2.5	1.7	
DGF 100/4/80 A1CT5		6.4	5.9	5.2	4.5	3.8	3.1	2.5	2.0	1.5

DRF	I/s	0	2	4	6	8	10	12	14	16
	l/min	0	120	240	360	480	600	720	840	960
	m ³ /h	0	7.2	14.4	21.6	28.8	36	43.2	50.4	57.6
DRF 75/2/G40V A1CM(T)5		10.6	8.8	5.9	2.6					
DRF 100/2/G40V A1CM(T)5		13.1	10.9	8.2	4.8					
DRF 150/2/G50V(H) A1CM(T)5		12.5	11.3	10.1	8.8	7.0	4.7			
DRF 200/2/G50V(H) A1CM(T)5		16.5	15.2	13.7	12.3	10.6	8.5	5.7		
DRF 100/4/65 A1CT5		5.1	4.7	4.2	3.6	3.0	2.4	1.6		
DRF 100/4/80 A1CT5		5.6	4.9	4.3	3.7	3.1	2.6	2.0	1.4	
DRF 100/4/100 A1CT5		5.0	4.6	4.1	3.7	3.2	2.8	2.4	2.0	1.7

MAF	I/s	0	2	4	6	8	10	12	14	16
	l/min	0	120	240	360	480	600	720	840	960
	m ³ /h	0	7.2	14.4	21.6	28.8	36	43.2	50.4	57.6
MAF 100/4/65 A1CT5		6,6	5,5	4,6	3,9	3,2	2,4	1,7		
MAF 100/4/80 A1CT5		6,9	5,8	4,8	4,0	3,3	2,5	1,8	1,0	
MAF 100/4/100 A1CT5		6,9	5,7	4,8	4,1	3,6	3,1	2,6	2,2	1,7

Hydraulic performance data

SMF

	l/s	0	2	4	6	8	10	12	14
	l/min	0	120	240	360	480	600	720	840
	m ³ /h	0	7.2	14.4	21.6	28.8	36	43.2	50.4
SMF 100/2/G50H A1CM(T)5		9.0	7.4	5.8	4.2	2.5			
SMF 150/2/G50H A1CM(T)5		13.3	11.9	10.4	8.9	7.2	5.4	3.5	
SMF 200/2/G50H A1CM(T)5		16.1	14.5	12.8	11.1	9.3	7.5	5.5	3.5

GRF

	l/s	0	1	2	3	4	5	6
	l/min	0	60	120	180	240	300	360
	m ³ /h	0	3.6	7.2	10.8	14.4	18	21.6
GRF 150/2/G40H A1CM(T)5		20.0	19.5	18.1	15.8	12.8	8.2	2.0
GRF 200/2/G40H A1CM(T)5		23.0	22.4	20.9	18.4	15.3	11.0	5.8

APF

	l/s	0	1	2	3	4	5	6	7
	l/min	0	60	120	180	240	300	360	420
	m ³ /h	0	3.6	7.2	10.8	14.4	18	21.6	25.2
APF 150/2/G40H A1CM(T)5		19.9	19.5	18.5	17.1	15.1	12.3	8.5	3.5
APF 200/2/G40H A1CM(T)5		22.5	21.6	20.5	19	17.1	14.4	10.7	6.3



water solutions

All data made available remain non-binding.
Zenit reserves the right to make unannounced product changes it deems appropriate.

Rev. 1 - 01/12/18