DGO

Set-back Vortex impeller

General characteristics

- Set-back Vortex impeller
- 0,37 ÷ 1,5 kW motor power
- 2 / 4 poles
- GAS 1 1/2"V ÷ 2 1/2"V
  GAS 2"H - DN50; DN65 - DN80
- max 80 mm free passage

Electromechanical assembly

Electromechanical assembly in GJL-250 cast iron, for submerged operation. Seal set comprising 1 (one) silicon carbide mechanical seal and 1 (one) graphite alumina mechanical seal, installed opposing with oil lubrication. Oil bath motor. Separate pump body. Series not available in explosion-proof version.

Applications

Suitable for heavy-duty applications with soiled biological wastewaters, sewage, rainwater and seepage.

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
Shaft	Stainless Steel - AISI 420
Set of standard mechanical seals	One Silicon carbide mechanical seal (SiC) and One Carbon-Aluminium oxide mechanical seal (AL)

operating limits

Maximum operating temperature	40 °C
PH of treated fluid	6 to 10 pH
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	20

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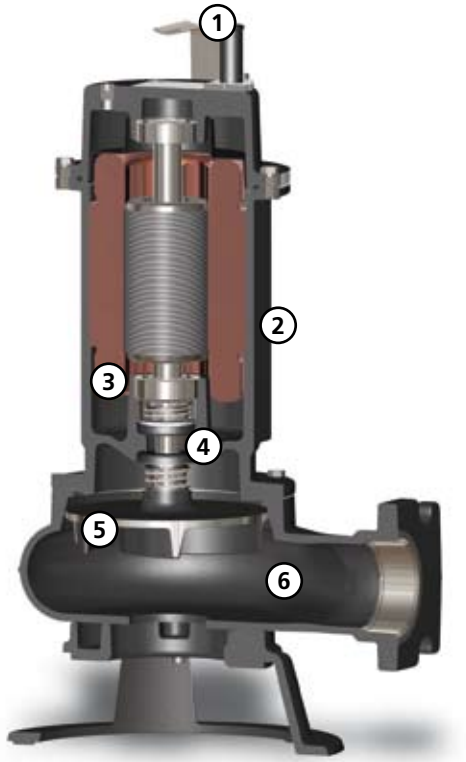
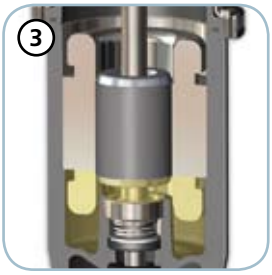


Handle

AISI 304 stainless steel lifting and carrying handle

Structure

Constructed in GJL-250 cast iron



Motor

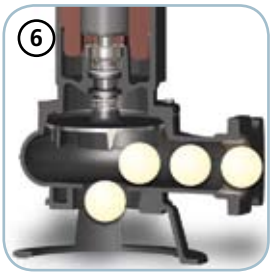
Oil-bath motor with thermal overloads

Mechanical seals

One mechanical seal in silicon carbide (SiC) and one mechanical seal in alumina graphite (AL)

Impeller

Cast iron vortex impeller



Free passage

Ample free passage allowing the expulsion of solids and preventing fouling of the impeller

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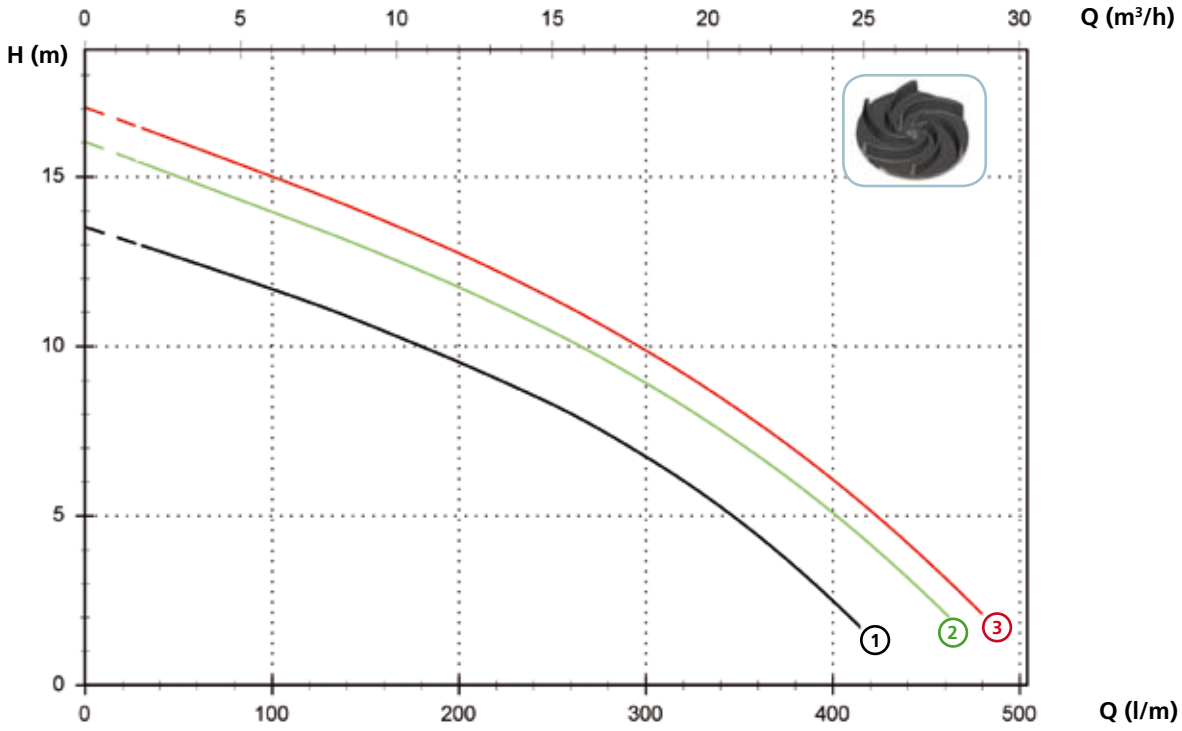
Models with vertical GAS 1 1/2" threaded delivery port - 2 poles

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) DGO 100/2/G40V B0CM(T)/50		13,5	11,3	8,5	4,4	
(2) DGO 150/2/G40V B0CM(T)/50		14,2	13,5	10,7	6,8	
(3) DGO 200/2/G40V B0CM(T)/50		15,8	14,6	11,7	7,7	2,1



Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
(1) DGO 100/2/G40V B0CM/50	230	1	-	0.88	6.9	2900	G 1 1/2"	A	40 mm
(2) DGO 150/2/G40V B0CM/50	230	1	-	1.1	8.7	2900	G 1 1/2"	A	40 mm
(3) DGO 200/2/G40V B0CM/50	230	1	-	1.5	10.4	2900	G 1 1/2"	A	40 mm

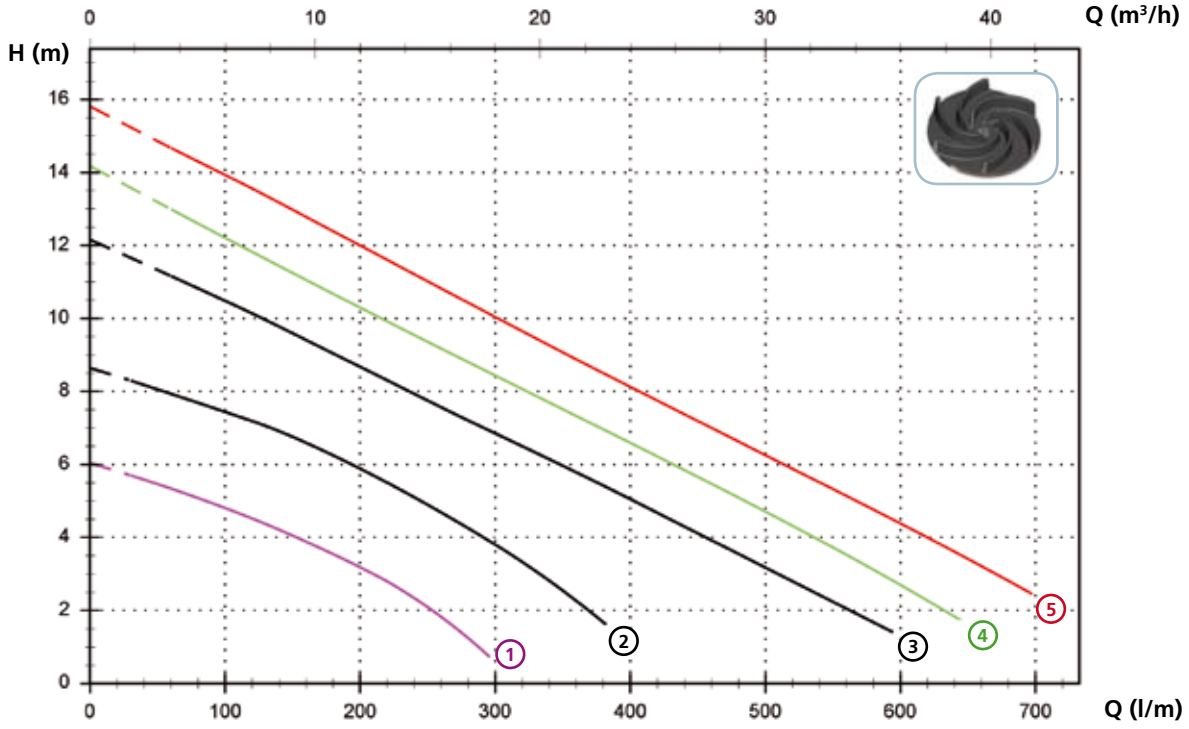
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
(1) DGO 100/2/G40V B0CT/50	400	3	-	0.88	2.3	2900	G 1 1/2"	A	40 mm
(2) DGO 150/2/G40V B0CT/50	400	3	-	1.1	2.7	2900	G 1 1/2"	A	40 mm
(3) DGO 200/2/G40V B0CT/50	400	3	-	1.5	3.6	2900	G 1 1/2"	A	40 mm

(*) A = H07RN-F 4G1 - 5 m cable length. Optional 10 m cable length
Attention: Standard EN 60335-2-41 requires the use of a 10 m cable length in outdoor applications

Models with vertical GAS 2" threaded delivery port - 2 poles

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	36,0
1	DGO 50/2/G50V B0CM(T)/50	*6,0*	4,5	2,3			
2	DGO 75/2/G50V B0CM(T)/50	*8,6*	7,2	5,1	2,3		
3	DGO 100/2/G50V B0CM(T)/50	*12,2*	10,1	7,9	5,8	3,6	
4	DGO 150/2/G50V B0CM(T)/50	*14,2*	11,8	9,5	7,3	5,1	2,7
5	DGO 200/2/G50V B0CM(T)/50	*15,8*	13,6	11,2	8,9	6,6	4,4



Technical data

		V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
1	DGO 50/2/G50V B0CM/50	230	1	-	0.37	2.9	2900	G 2"	A	40 mm
2	DGO 75/2/G50V B0CM/50	230	1	-	0.55	3.9	2900	G 2"	A	40 mm
3	DGO 100/2/G50V B0CM/50	230	1	-	0.88	6.9	2900	G 2"	A	50 mm
4	DGO 150/2/G50V B0CM/50	230	1	-	1.1	8.7	2900	G 2"	A	50 mm
5	DGO 200/2/G50V B0CM/50	230	1	-	1.5	10.4	2900	G 2"	A	50 mm

		V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
1	DGO 50/2/G50V B0CT/50	400	3	-	0.37	1.1	2900	G 2"	A	40 mm
2	DGO 75/2/G50V B0CT/50	400	3	-	0.55	1.4	2900	G 2"	A	40 mm
3	DGO 100/2/G50V B0CT/50	400	3	-	0.88	2.3	2900	G 2"	A	50 mm
4	DGO 150/2/G50V B0CT/50	400	3	-	1.1	2.7	2900	G 2"	A	50 mm
5	DGO 200/2/G50V B0CT/50	400	3	-	1.5	3.6	2900	G 2"	A	50 mm

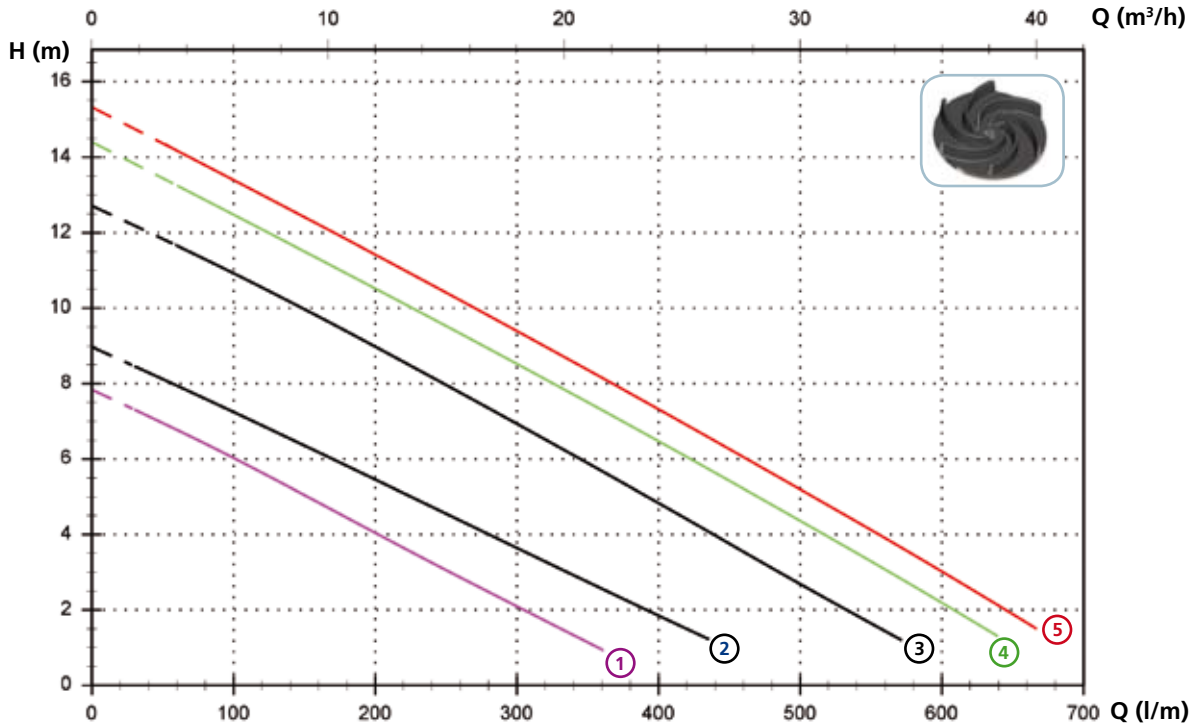
(*) A = H07RN-F 4G1 - 5 m cable length. Optional 10 m cable length
Attention: Standard EN 60335-2-41 requires the use of a 10 m cable length in outdoor applications

DGO

Models with horizontal GAS 2" threaded - DN50 PN10-16 flanged delivery port - 2 poles

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	36,0
1	DGO 50/2/G50H A1CM(T)/50	*7,8*	5,6	3,3	1,0		
2	DGO 75/2/G50H A1CM(T)/50	*9,0*	6,9	4,7	2,6		
3	DGO 100/2/G50H A0CM(T)/50	*12,7*	10,6	8,2	5,7	3,1	
4	DGO 150/2/G50H A0CM(T)/50	*14,4*	12,1	9,7	7,3	4,8	2,2
5	DGO 200/2/G50H A0CM(T)/50	*15,3*	13,0	10,6	8,2	5,6	3,0



Technical data

		V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
1	DGO 50/2/G50H A1CM/50	230	1	-	0.37	2.9	2900	G 2"- DN50 PN10-16	A	40 mm
2	DGO 75/2/G50H A1CM/50	230	1	-	0.55	3.9	2900	G 2"- DN50 PN10-16	A	40 mm
3	DGO 100/2/G50H A0CM/50	230	1	-	0.88	6.5	2900	G 2"- DN50 PN10-16	A	50 mm
4	DGO 150/2/G50H A0CM/50	230	1	-	1.1	8.2	2900	G 2"- DN50 PN10-16	A	50 mm
5	DGO 200/2/G50H A0CM/50	230	1	-	1.5	9.3	2900	G 2"- DN50 PN10-16	A	50 mm

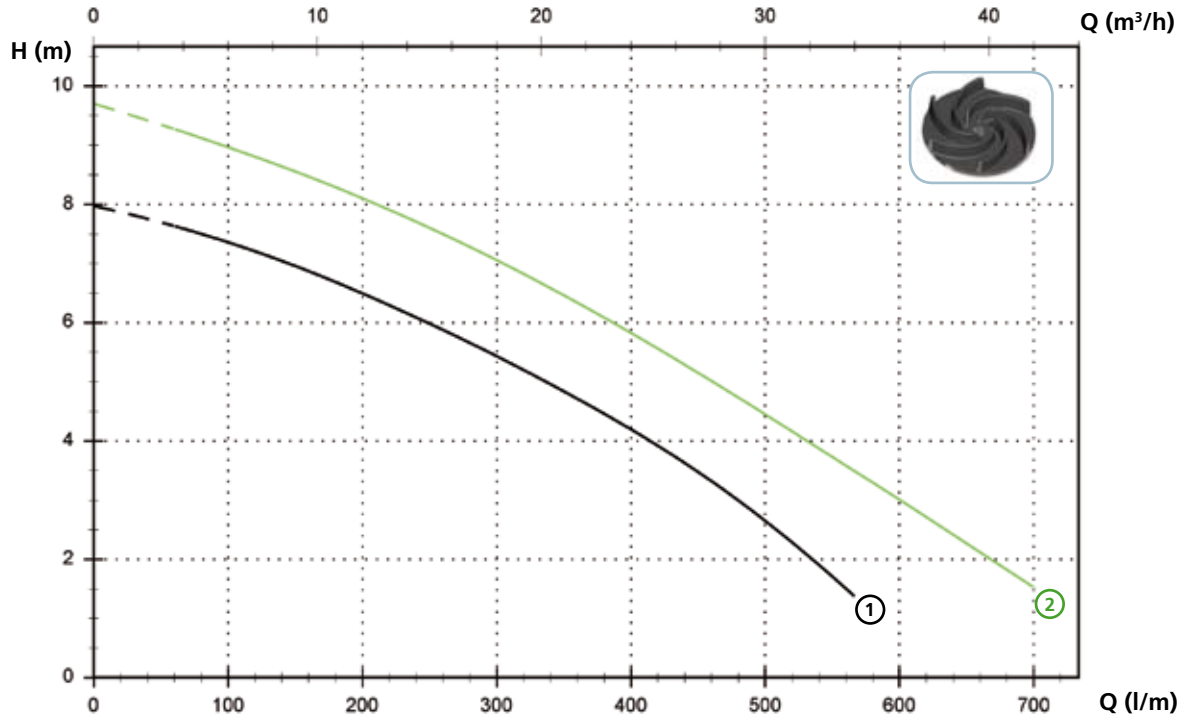
		V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
1	DGO 50/2/G50H A1CT/50	400	3	-	0.37	1.1	2900	G 2"- DN50 PN10-16	A	40 mm
2	DGO 75/2/G50H A1CT/50	400	3	-	0.55	1.4	2900	G 2"- DN50 PN10-16	A	40 mm
3	DGO 100/2/G50H A0CT/50	400	3	-	0.88	2.3	2900	G 2"- DN50 PN10-16	A	50 mm
4	DGO 150/2/G50H A0CT/50	400	3	-	1.1	2.6	2900	G 2"- DN50 PN10-16	A	50 mm
5	DGO 200/2/G50H A0CT/50	400	3	-	1.5	3.6	2900	G 2"- DN50 PN10-16	A	50 mm

(*) A = H07RN-F 4G1 - 5 m cable length. Optional 10 m cable length
Attention: Standard EN 60335-2-41 requires the use of a 10 m cable length in outdoor applications

Models with vertical GAS 2 1/2" threaded delivery port - 2 poles

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	36,0
①	DGO 150/2/G65V A1CM(T)/50	*8,0*	7,2	6,1	4,7	3,0	
②	DGO 200/2/G65V A1CM(T)/50	*9,7*	8,8	7,7	6,3	4,7	3,0



Technical data

		V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
①	DGO 150/2/G65V A1CM/50	230	1	-	1.1	8.2	2900	G 2 1/2"	A	65 mm
②	DGO 200/2/G65V A1CM/50	230	1	-	1.5	9.9	2900	G 2 1/2"	A	65 mm

		V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
①	DGO 150/2/G65V A1CT/50	400	3	-	1.1	2.7	2900	G 2 1/2"	A	65 mm
②	DGO 200/2/G65V A1CT/50	400	3	-	1.5	3.6	2900	G 2 1/2"	A	65 mm

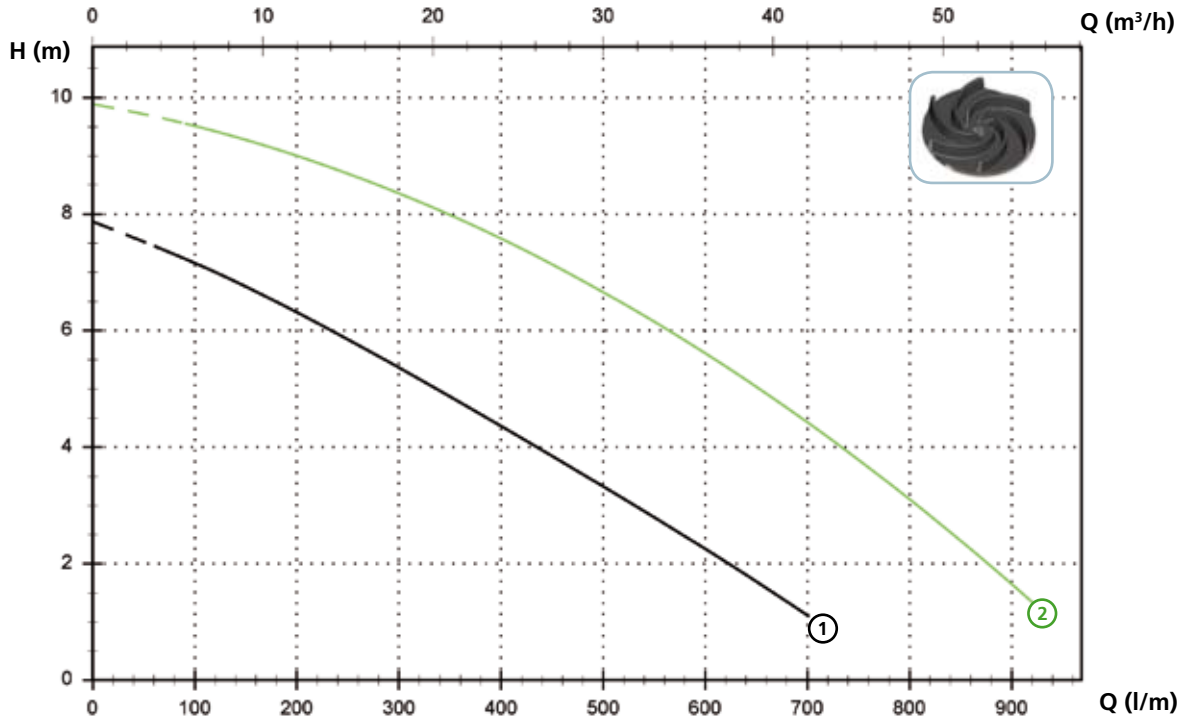
(*) A = H07RN-F 4G1 - 5 m cable length. Optional 10 m cable length
Attention: Standard EN 60335-2-41 requires the use of a 10 m cable length in outdoor applications

DGO

Models with horizontal DN65 PN10-16 flanged delivery port - 2 poles

Performances

	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	36,0	43,2	50,4
① DGO 150/2/65 A1CM(T)/50		7,9	7,0	5,9	4,8	3,5	2,3		
② DGO 200/2/65 A1CM(T)/50		9,9	9,4	8,8	7,9	6,9	5,6	4,2	2,5



Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
① DGO 150/2/65 A1CM/50	230	1	-	1.1	8.2	2900	DN65 PN10-16	A	65 mm
② DGO 200/2/65 A1CM/50	230	1	-	1.5	9.9	2900	DN65 PN10-16	A	65 mm

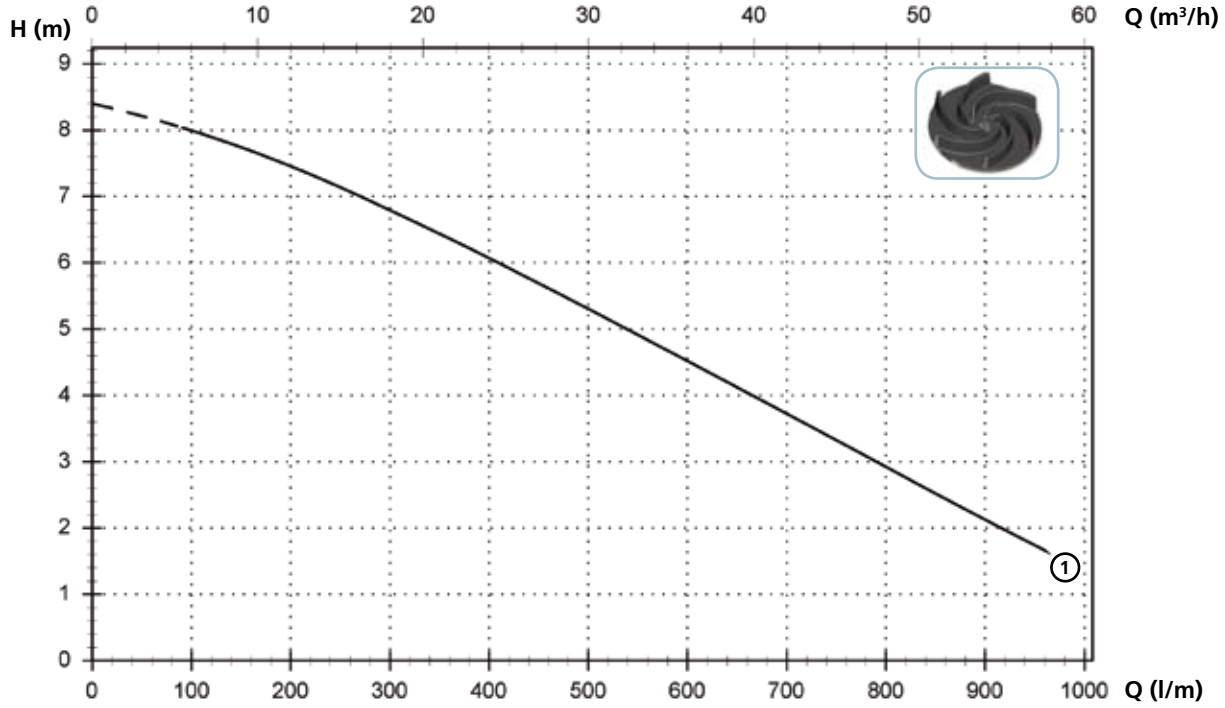
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
① DGO 150/2/65 A1CT/50	400	3	-	1.1	2.7	2900	DN65 PN10-16	A	65 mm
② DGO 200/2/65 A1CT/50	400	3	-	1.5	3.6	2900	DN65 PN10-16	A	65 mm

(*) A = H07RN-F 4G1 - 5 m cable length. Optional 10 m cable length
Attention: Standard EN 60335-2-41 requires the use of a 10 m cable length in outdoor applications

Models with horizontal DN80 PN10-16 flanged delivery port - 2 poles

Performances

	l/s	0	2	4	6	8	10	12	14	16
	l/min	0	120	240	360	480	600	720	840	960
	m³/h	0	7,2	14,4	21,6	28,8	36,0	43,2	50,4	57.6
① DGO 200/2/80 A1CM(T)/50		8.4	7.9	7.2	6.4	5.5	4.5	3.6	2.6	1.7



Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
① DGO 200/2/80 A1CM/50	230	1	-	1.5	9.9	2900	DN80 PN10-16	A	80 mm

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
① DGO 200/2/80 A1CT/50	400	3	-	1.5	3.6	2900	DN80 PN10-16	A	80 mm

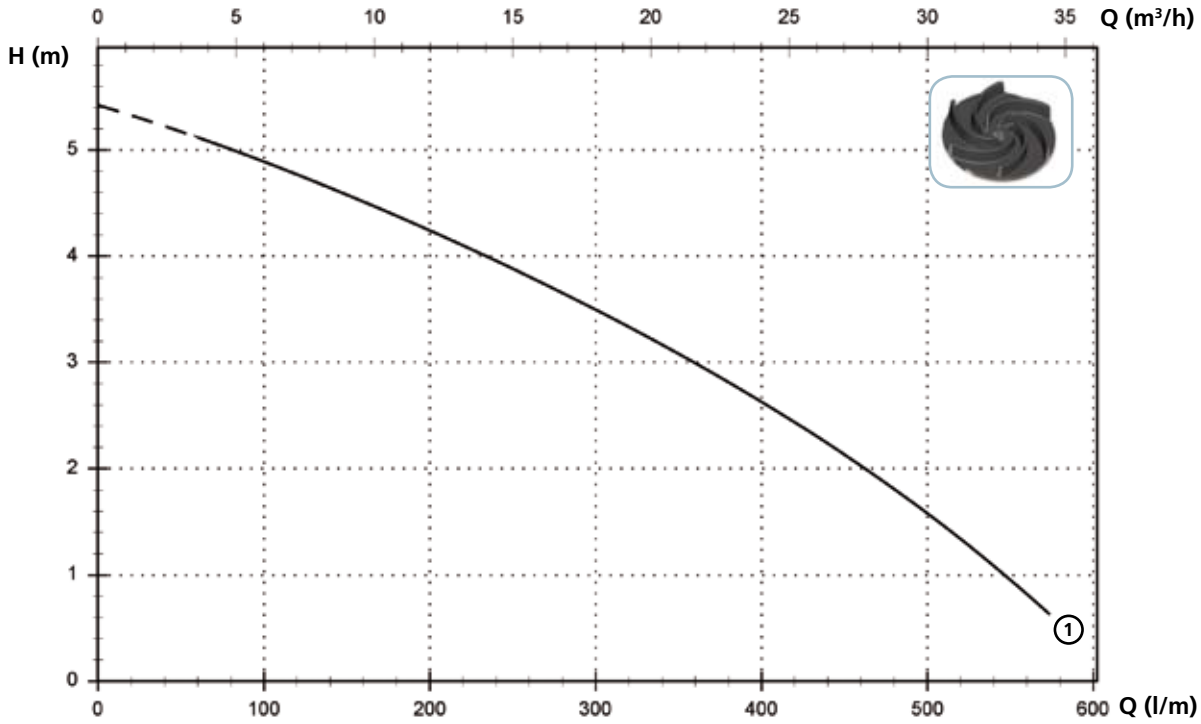
(*) A = H07RN-F 4G1 - 5 m cable length. Optional 10 m cable length
Attention: Standard EN 60335-2-41 requires the use of a 10 m cable length in outdoor applications

DGO

Models with horizontal GAS 2" threaded delivery port - 4 poles

Performances

	l/s	0	1	2	3	4	5	6	7	8	9
	l/min	0	60	120	180	240	300	360	420	480	540
	m³/h	0	3,6	7,2	10,8	14,4	18,0	21,6	25,2	28,8	32,4
① DGO 100/4/G50V B0CM(T)/50		*5,4*	5,1	4,8	4,4	4,0	3,5	3,0	2,4	1,8	1,1



Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
① DGO 100/4/G50V B0CM/50	230	1	-	0.7	4.5	1450	G 2"	A	45 mm

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
① DGO 100/4/G50V B0CT/50	400	3	-	0.7	1.6	1450	G 2"	A	45 mm

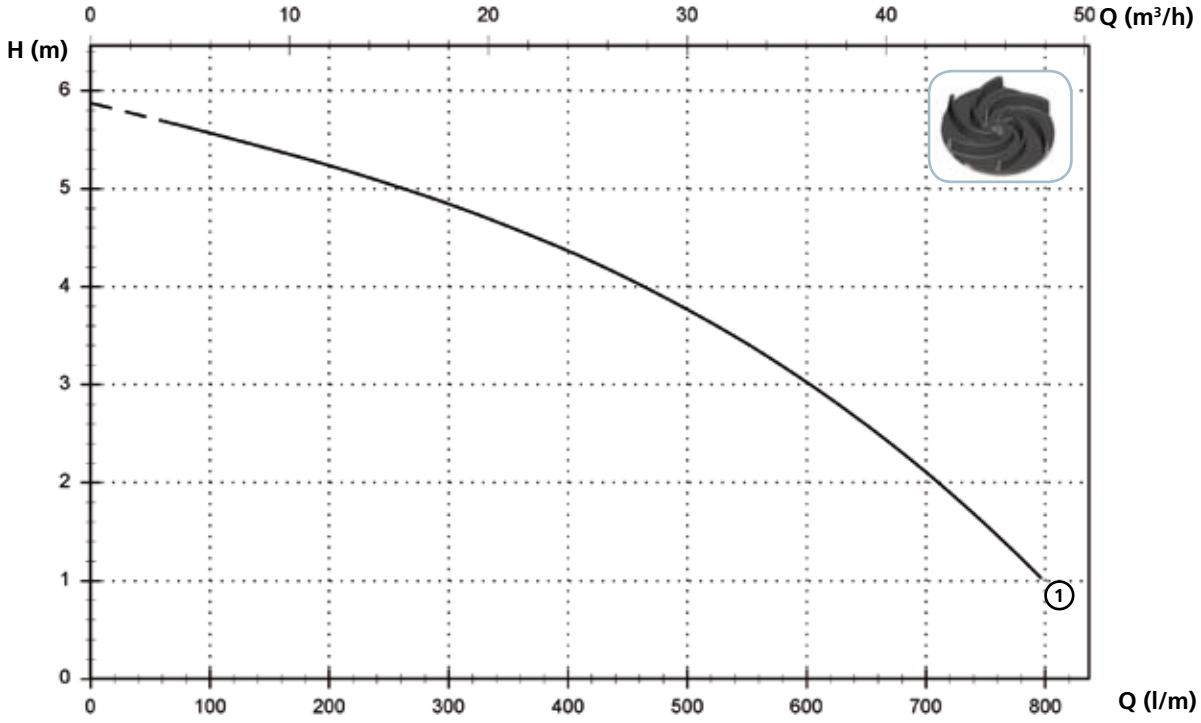
(*) A = H07RN-F 4G1 - 5 m cable length. Optional 10 m cable length
Attention: Standard EN 60335-2-41 requires the use of a 10 m cable length in outdoor applications

DGO

Models with horizontal DN65 PN10-16 flanged delivery port - 4 poles

Performances

	l/s	0	2	4	6	8	10	12
	l/min	0	120	240	360	480	600	720
	m³/h	0	7,2	14,4	21,6	28,8	36,0	43,2
① DGO 150/4/65 A0CM(T)/50		5,9	5,5	5,1	4,6	3,9	3,0	1,9



Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
① DGO 150/4/65 A0CM/50	230	1	-	0.9	7.5	1450	DN65 PN10-16	A	45 mm

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
① DGO 150/4/65 A0CT/50	400	3	-	0.9	2.8	1450	DN65 PN10-16	A	45 mm

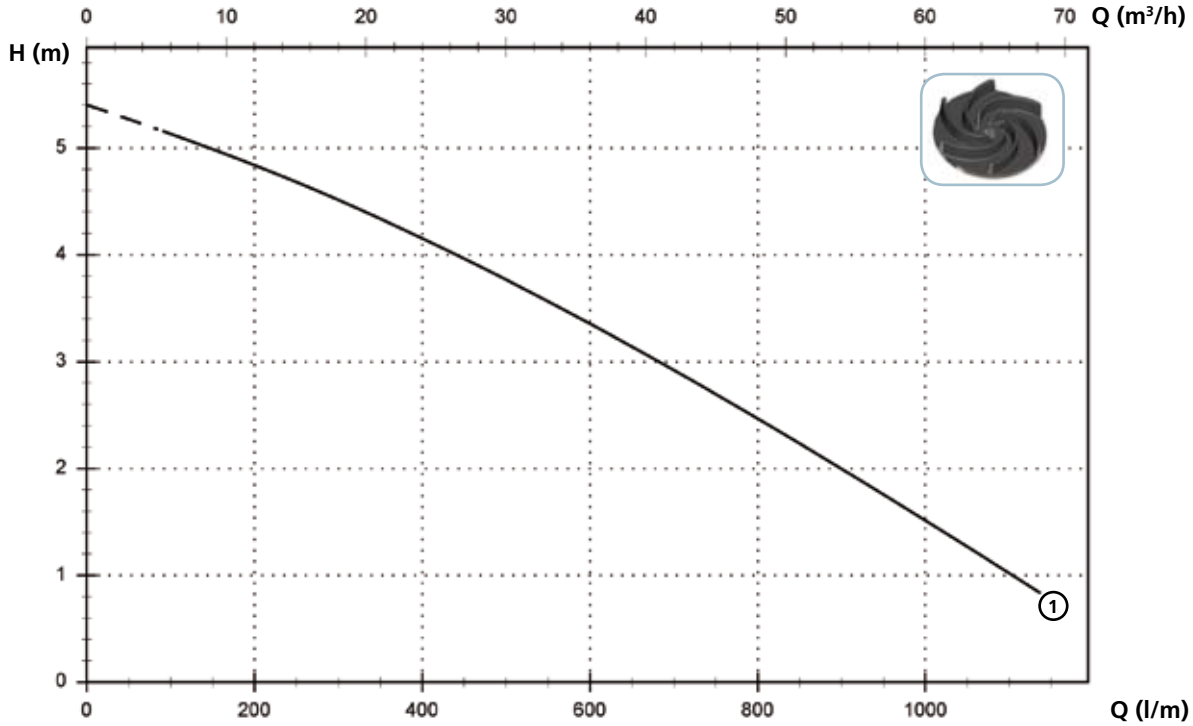
(*) A = H07RN-F 4G1 - 5 m cable length. Optional 10 m cable length
Attention: Standard EN 60335-2-41 requires the use of a 10 m cable length in outdoor applications

DGO

Models with horizontal DN80 PN10-16 flanged delivery port - 4 poles

Performances

	l/s	0	2	4	6	8	10	12	14	16	18
	l/min	0	120	240	360	480	600	720	840	960	1080
	m³/h	0	7,2	14,4	21,6	28,8	36,0	43,2	50,4	57,6	64,8
① DGO 150/4/80 A0CM(T)/50		*5,4*	5,1	4,7	4,3	3,8	3,4	2,8	2,3	1,7	1,1



Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
① DGO 150/4/80 A0CM/50	230	1	-	0.9	7.5	1450	DN80 PN10-16	A	60 mm

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
① DGO 150/4/80 A0CT/50	400	3	-	0.9	2.8	1450	DN80 PN10-16	A	60 mm

(*) A = H07RN-F 4G1 - 5 m cable length. Optional 10 m cable length
Attention: Standard EN 60335-2-41 requires the use of a 10 m cable length in outdoor applications

DGO

Versions available

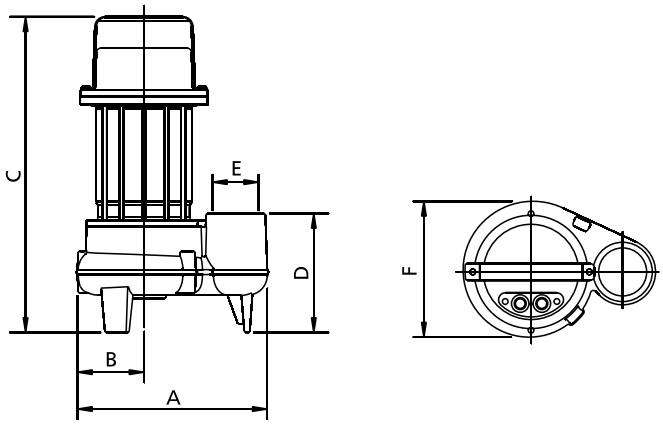
(Key to versions on page 15)

	Electrical variants													Cooling		Mechanical seals			
	NAE	T	TC	TCD	TCDT	TCDGT	TCG	TCST	TCSGT	TS	TR	TRG	FT	CGFT	N	CC	2SIC	SICM	SICAL	2SICAL
DGO 100/2/G40V B0CM/50		●						●	●						●				●	
DGO 150/2/G40V B0CM/50		●						●	●						●				●	
DGO 200/2/G40V B0CM/50		●						●	●						●				●	
DGO 100/2/G40V B0CT/50	●														●				●	
DGO 150/2/G40V B0CT/50	●														●				●	
DGO 200/2/G40V B0CT/50	●														●				●	
DGO 50/2/G50V B0CM/50		●						●	●						●				●	
DGO 75/2/G50V B0CM/50		●						●	●						●				●	
DGO 100/2/G50V B0CM/50		●						●	●						●				●	
DGO 150/2/G50V B0CM/50		●						●	●						●				●	
DGO 200/2/G50V B0CM/50		●						●	●						●				●	
DGO 50/2/G50V B0CT/50	●														●				●	
DGO 75/2/G50V B0CT/50	●														●				●	
DGO 100/2/G50V B0CT/50	●														●				●	
DGO 150/2/G50V B0CT/50	●														●				●	
DGO 200/2/G50V B0CT/50	●														●				●	
DGO 50/2/G50H A1CM/50		●						●	●						●				●	
DGO 75/2/G50H A1CM/50		●						●	●						●				●	
DGO 100/2/G50H A0CM/50		●						●	●						●				●	
DGO 150/2/G50H A0CM/50		●						●	●						●				●	
DGO 200/2/G50H A0CM/50		●						●	●						●				●	
DGO 50/2/G50H A1CT/50	●														●				●	
DGO 75/2/G50H A1CT/50	●														●				●	
DGO 100/2/G50H A0CT/50	●														●				●	
DGO 150/2/G50H A0CT/50	●														●				●	
DGO 200/2/G50H A0CT/50	●														●				●	
DGO 150/2/G65V A1CM/50		●						●	●						●				●	
DGO 200/2/G65V A1CM/50		●						●	●						●				●	
DGO 150/2/G65V A1CT/50	●														●				●	
DGO 200/2/G65V A1CT/50	●														●				●	
DGO 150/2/65 A1CM/50		●						●	●						●				●	
DGO 200/2/65 A1CM/50		●						●	●						●				●	
DGO 150/2/65 A1CT/50	●														●				●	
DGO 200/2/65 A1CT/50	●														●				●	
DGO 200/2/80 A1CM/50		●						●	●						●				●	
DGO 200/2/80 A1CT/50	●														●				●	
DGO 100/4/G50V B0CM/50		●						●	●						●				●	
DGO 100/4/G50V B0CT/50	●														●				●	
DGO 150/4/65 A0CM/50		●						●	●						●				●	
DGO 150/4/65 A0CT/50	●														●				●	
DGO 150/4/80 A0CM/50		●						●	●						●				●	
DGO 150/4/80 A0CT/50	●														●				●	

DGO

Overall dimensions and weights

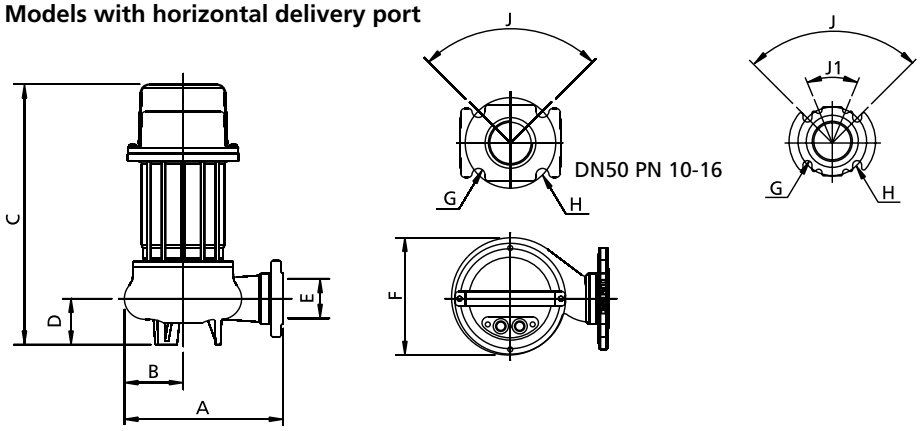
Models with vertical delivery port



	A	B	C	D	E	F	kg
DGO 100/2/G40V B0CM(T)/50	260	100	440	125	G 1 1/2"	205	18
DGO 150/2/G40V B0CM(T)/50	260	100	440	125	G 1 1/2"	205	19
DGO 200/2/G40V B0CM(T)/50	260	100	440	125	G 1 1/2"	205	20
DGO 50/2/G50V B0CM(T)/50	230	80	380	120	G 2"	165	16.5
DGO 75/2/G50V B0CM(T)/50	230	80	380	120	G 2"	165	16.5
DGO 100/2/G50V B0CM(T)/50	270	100	455	130	G 2"	205	19.5
DGO 150/2/G50V B0CM(T)/50	270	100	455	130	G 2"	205	20.5
DGO 200/2/G50V B0CM(T)/50	270	100	455	130	G 2"	205	21.5
DGO 150/2/G65V A1CM(T)/50	300	105	435	140	G 2 1/2"	210	21
DGO 200/2/G65V A1CM(T)/50	300	105	435	140	G 2 1/2"	210	22
DGO 100/4/G50V B0CM(T)/50	270	100	455	130	G 2"	205	21

Measurements in mm

Models with horizontal delivery port

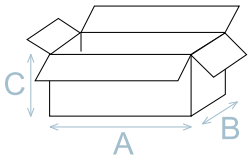


	A	B	C	D	E	F	G	H	J	J1	kg
DGO 50/2/G50H A1CM(T)/50	220	80	360	65	G 2"-DN50	160	18	125	90°	-	16.5
DGO 75/2/G50H A1CM(T)/50	220	80	360	65	G 2"-DN50	160	18	125	90°	-	16.5
DGO 100/2/G50H A0CM(T)/50	270	110	455	110	G 2"-DN50	205	18	125	90°	-	19.5
DGO 150/2/G50H A0CM(T)/50	270	110	455	110	G 2"-DN50	205	18	125	90°	-	20.5
DGO 200/2/G50H A0CM(T)/50	270	110	455	110	G 2"-DN50	205	18	125	90°	-	21.5
DGO 150/2/65 A1CM(T)/50	295	110	435	70	65	210	18	145	45°	-	22
DGO 200/2/65 A1CM(T)/50	295	110	435	70	65	210	18	145	45°	-	23
DGO 200/2/80 A1CM(T)/50	290	105	450	80	80	210	18	160	90°	45°	23
DGO 150/4/65 A0CM(T)/50	270	110	450	105	65	220	18	145	45°	-	27
DGO 150/4/80 A0CM(T)/50	270	115	480	125	80	225	18	160	90°	-	29

Measurements in mm

Packaging dimension

	A	B	C
DGO 100/2/G40V B0CM(T)/50	475	285	235
DGO 150/2/G40V B0CM(T)/50	475	285	235
DGO 200/2/G40V B0CM(T)/50	475	285	235
DGO 50/2/G50V B0CM(T)/50	385	225	245
DGO 75/2/G50V B0CM(T)/50	385	225	245
DGO 100/2/G50V B0CM(T)/50	475	285	235
DGO 150/2/G50V B0CM(T)/50	475	285	235
DGO 200/2/G50V B0CM(T)/50	475	285	235
DGO 50/2/G50H A1CM(T)/50	385	225	245
DGO 75/2/G50H A1CM(T)/50	385	225	245
DGO 100/2/G50H A0CM(T)/50	475	285	235
DGO 150/2/G50H A0CM(T)/50	475	285	235
DGO 200/2/G50H A0CM(T)/50	475	285	235
DGO 150/2/G65V A1CM(T)/50	475	285	235
DGO 200/2/G65V A1CM(T)/50	475	285	235
DGO 150/2/65 A1CM(T)/50	580	310	310
DGO 200/2/65 A1CM/(T)50	580	310	310
DGO 200/2/80 A1CM(T)/50	580	310	310
DGO 100/4/G50V B0CM(T)/50	475	285	235
DGO 150/4/65 A0CM(T)/50	580	310	310
DGO 150/4/80 A0CM(T)/50	580	310	310



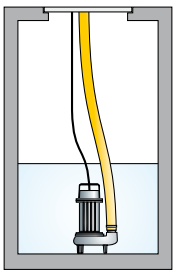
Dimension in mm

No. pieces per pallet

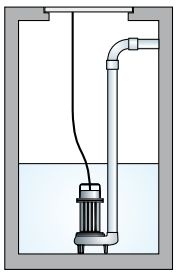
For DGO 50-75 models each pallet (EUR 1000X1200 mm) is able to take 48 pieces.
For DGO 100-150-200 models each pallet (EUR 1000X1200 mm) is able to take 32 pieces.

Installations available

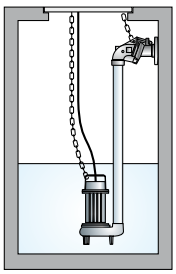
A



B



C



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