

PATENTED



Materials

Component	Material
Pump casing Impeller	Cast iron GJL 200 EN 1561
Strainer Motor jacket Jacket cover Casing cover	Chrome-nickel steel AISI 304
Handle	Polypropylene (with frame in AISI 304)
Shaft	Chrome-nickel steel AISI 304
Mechanical seal: upper lower	Ceramic alumina/Carbon/NBR
Seal lubrication oil	Oil for food/pharmaceutical machinery

Construction

Single-impeller submersible drainage pump, with vertical delivery port.

GQR: with open impeller.

Double mechanical shaft seal with interposed oil chamber, to protect against dry-running.

Applications

For clean water containing solids up to 10 mm grain size.

For draining rooms or emptying tanks.

Extraction of water from ponds, streams or pits and for rainwater collection.

For irrigation purposes.

Operating conditions

Liquid temperature up to 35° C.

Maximum immersion depth: 5 m.

Minimum immersion depth: 205 mm.

Continuous duty (with submerged motor).

Motor

2-pole induction motor, 50 Hz (n = 2900 rpm).

GQR: three-phase 230 V $\pm$ 10%;

three-phase 400 V $\pm$ 10%;

Cable: H07RN-F, 4G1 mm², length 10 m, without plug.

GQRM: single-phase 230 V $\pm$ 10%,

with float switch and thermal protector.

Incorporated capacitor.

Cable: H07RN-F, 3G1 mm², length 10 m, with plug

CEI-UNEL 47166.

Insulation class F.

Protection IP X8 (for continuous immersion)

Triple impregnation humidity-proof dry winding.

Constructed in accordance with: EN 60034-1;

EN 60335-1, EN 60335-2-41.

Other features on request

- Other voltages. - Frequency 60 Hz (as per 60 Hz data sheet).

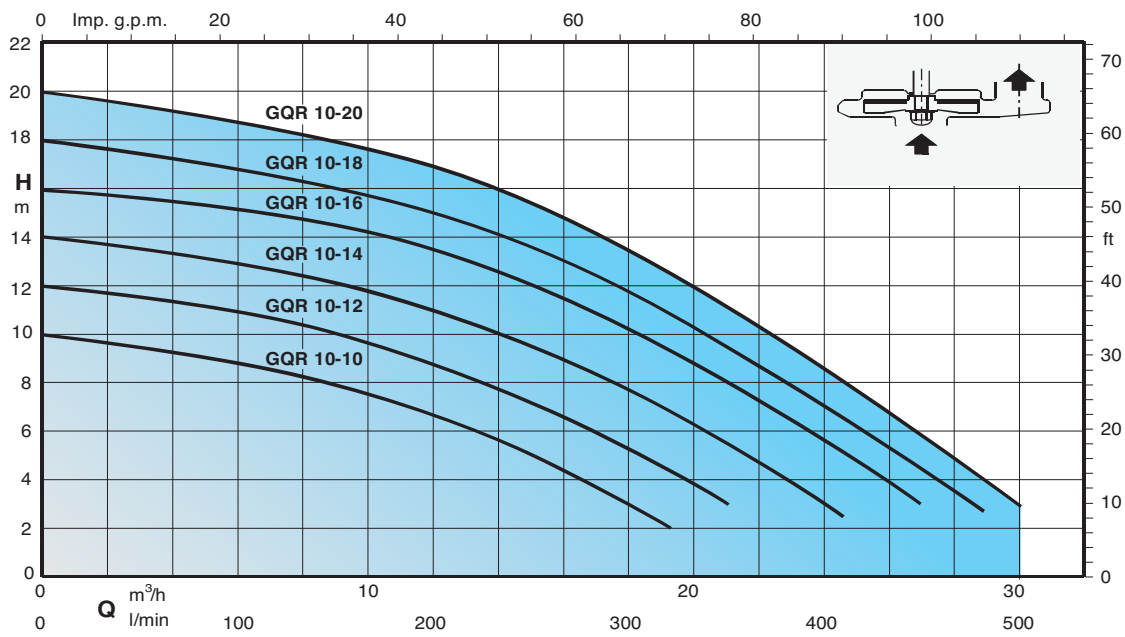
- Other mechanical seal.

- Cable length 20 m.

- Vertical magnetic float switch.

- Motor suitable operation with frequency converter.

Characteristic curves n $\approx$ 2900 rpm



Performance $n \approx 2900$ rpm

3~ 230V 400V			1~ 230V Capacitor				P ₁	P ₂		Q ^{m³/h} l/min	0	3	6	9	12	15	18	21	24	27	30
	A	A		A	μf	Vc	kW	kW	HP		0	50	100	150	200	250	300	350	400	450	500
GQR 10-10	2	1,2	GQRM 10-10	3,1	12,5	450	0,7	0,45	0,6	H m	10	9,5	8,8	8	6,7	5	3	-	-	-	-
GQR 10-12	2,4	1,4	GQRM 10-12	3,6	16	450	1	0,55	0,75		12	11,6	11	10,2	9	7,5	5,5	3,2	-	-	-
GQR 10-14	2,8	1,6	GQRM 10-14	4,6	16	450	1	0,75	1		14	13,5	12,8	12	10,8	9,3	7,5	5,5	3	-	-
GQR 10-16	4	2,3	GQRM 10-16	6	25	450	1,3	0,9	1,2		16	15,5	15	14,2	13,2	11,8	10,2	8	5,5	2,3	-
GQR 10-18	4,8	2,8	GQRM 10-18	8	30	450	1,7	1,1	1,5		18	17,5	17	16,2	15	13,7	11,8	9	7	4,3	1,5
GQR 10-20	6,6	3,8						1,5	2		20	19,5	18,8	18	16,8	15,2	13,2	10,8	8,4	5,7	3

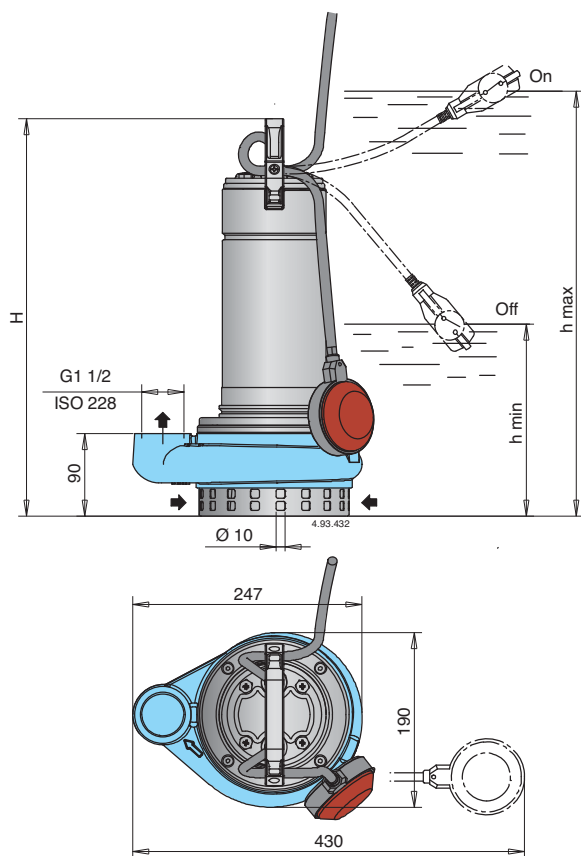
P₁ Max. power input.

P₂ Rated motor power output.

Density $\rho = 1000$ kg/m³.

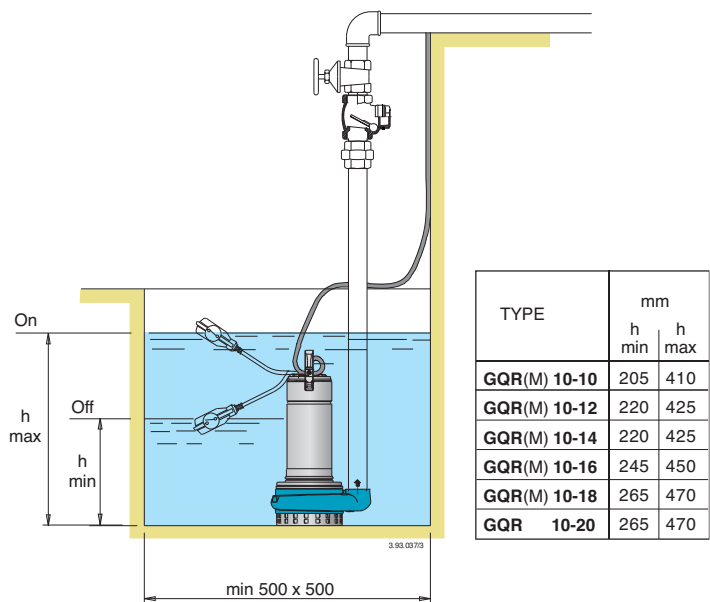
Kinematic viscosity $\nu = \max 20$ mm²/sec.

Dimensions and weights

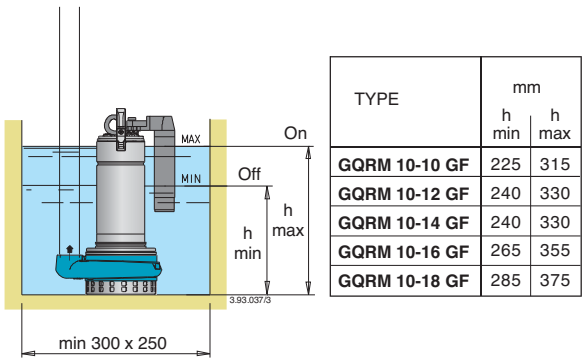


TYPE	mm			kg	
	H	h max	h min	GQR	GQRM
GQR(M) 10-10	390	410	205	14	15
GQR(M) 10-12	405	425	220	14,5	15,5
GQR(M) 10-14	405	425	220	14,5	15,5
GQR(M) 10-16	430	450	245	16	18
GQR(M) 10-18	450	470	265	17,5	19
GQR 10-20	450	470	265	19	-

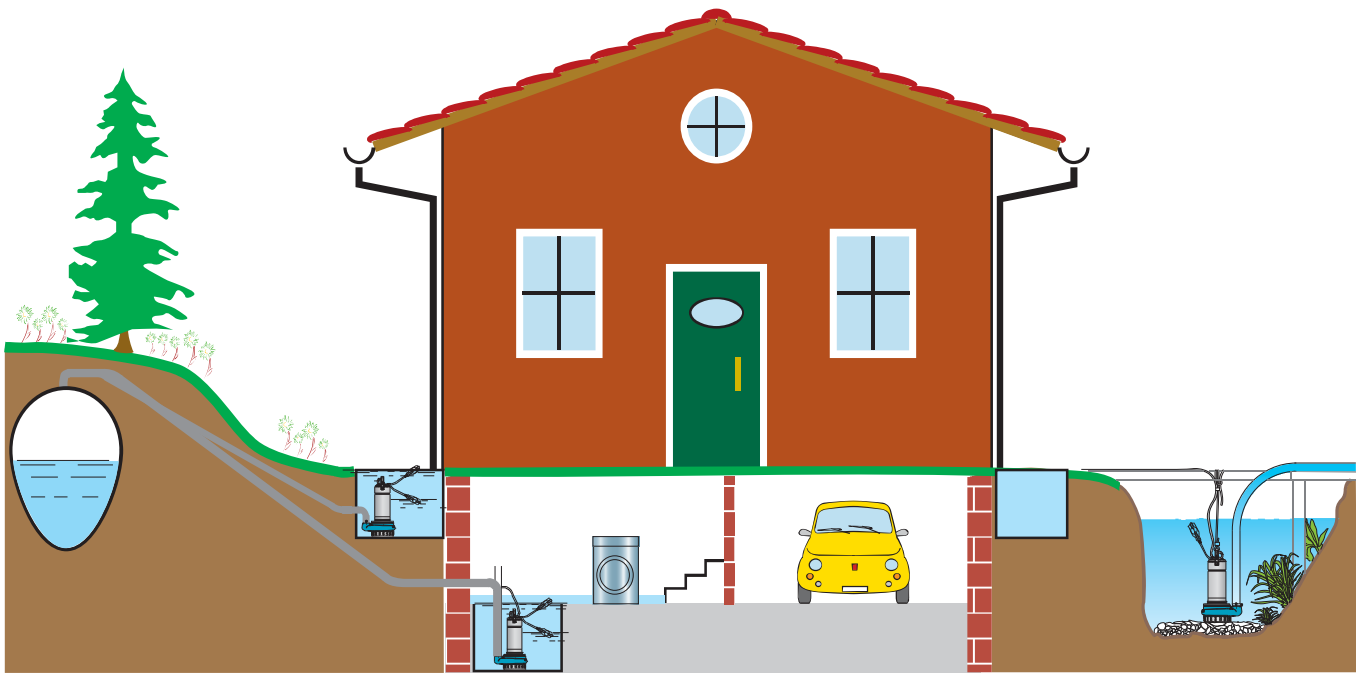
Installation examples



Installation examples with vertical magnetic float switch



Installation examples



Features

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Cable length 10 m, pump single-phase with plug

Handle in polypropylene, with frame in stainless steel.

Easy inspection of the capacitor area.

Easy adjustment of the float switch: to allow the adjustment of start/stop pump levels.

Ring against accidental extraction of the cable.

Relief valve: the pump is fitted to a relief valve for air release around the impeller granting a proper pump priming also after long standstill periods.

The double shaft seal with oil chamber separates the motor from the water and provides further protection against accidental operation when dry.

G 1 1/2 vertical, upward delivery port for installation in small pits, without the need for an elbow on the pump.

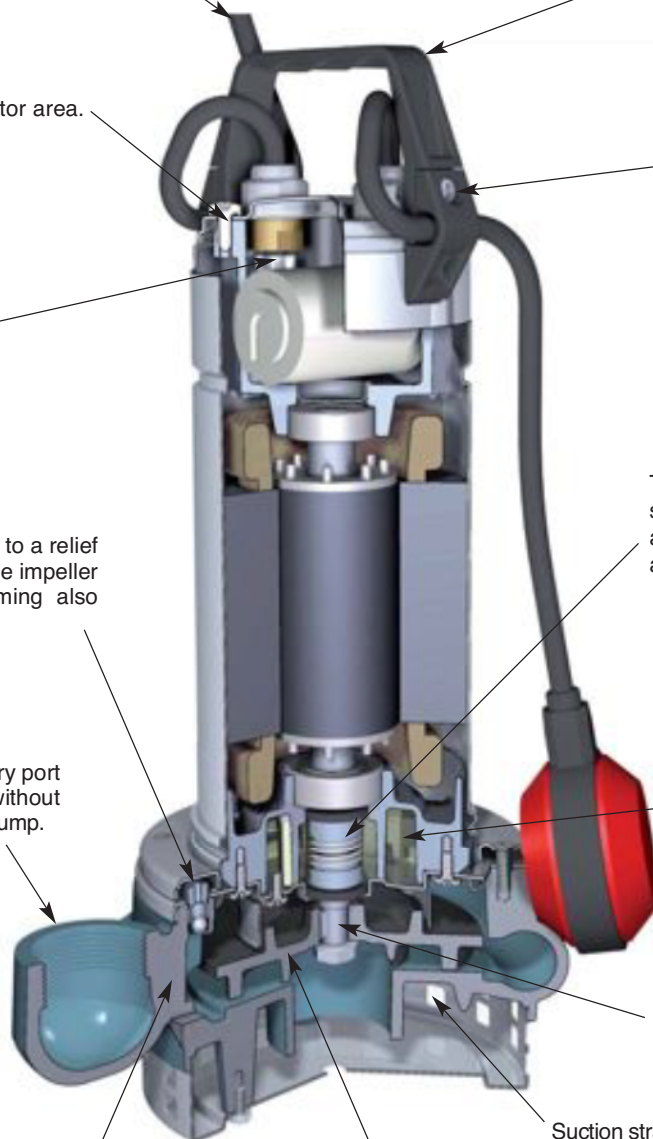
Chamber with food/pharmaceutical machinery oil

Shaft in chrome-nickel stainless steel.

Pump casing with epoxy cataphoresis treatment joined to the external paint for a greater protection against the rust.

Suction strainer with a double row of holes, for extra safety against clogging: it allows the passage of solids up to 10 mm.

Impeller with epoxy cataphoresis treatment for a greater protection against the rust.



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Preview

Materials

Component	Material
Pump casing	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Casing cover	
Impeller	
Motor jacket	
Jacket cover	
Handle	Polypropylene (with frame in AISI 304)
Shaft	Chrome-nickel steel AISI 304
Mechanical seal: upper lower	Ceramic alumina/Carbon/NBR
Seal lubrication oil	Oil for food/pharmaceutical machinery

Construction

Single-impeller submersible pumps in chrome-nickel stainless steel, with vertical delivery port.

GXC: with two-pass impeller.

GXV: with free-flow (vortex) impeller.

Double shaft seal with interposed oil chamber.

Applications

For clean and dirty water, also containing solids up to 35 mm grain size.

The GXV free-flow impeller construction is particularly suitable for liquids with a high solid content or with filamentous particles.

This construction (with smooth surfaces in rolled-stainless steel and easy access for cleaning) is also suitable for certain uses in the food industry.

Operating conditions

Liquid temperature up to 35 °C.

Minimum immersion depth: 250 mm.

Maximum immersion depth: 5 m.

Continuous duty (with submerged motor).

Motor

2-pole induction motor, 50 Hz ($n = 2900$ rpm).

GXC, GXV: three-phase 230 V $\pm 10\%$;

three-phase 400 V $\pm 10\%$.

Cable: H07RN-F, 4G1 mm², length 10 m, without plug.

GXCM, GXVM: single-phase 230 V $\pm 10\%$,

with float switch and thermal protector.

Incorporated capacitor.

Cable: H07RN-F, 3G1 mm², length 10 m, with

plug CEI-UNEL 47166.

Insulation class F.

Protection IP X8 (for continuous immersion)

Triple impregnation humidity-proof dry winding.

Constructed in accordance with: EN 60034-1;

EN 60335-1, EN 60335-2-41.

Other features on request

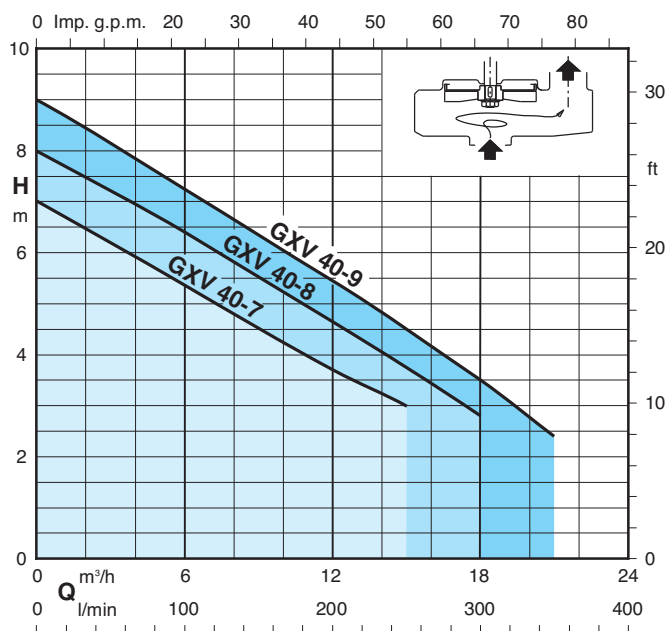
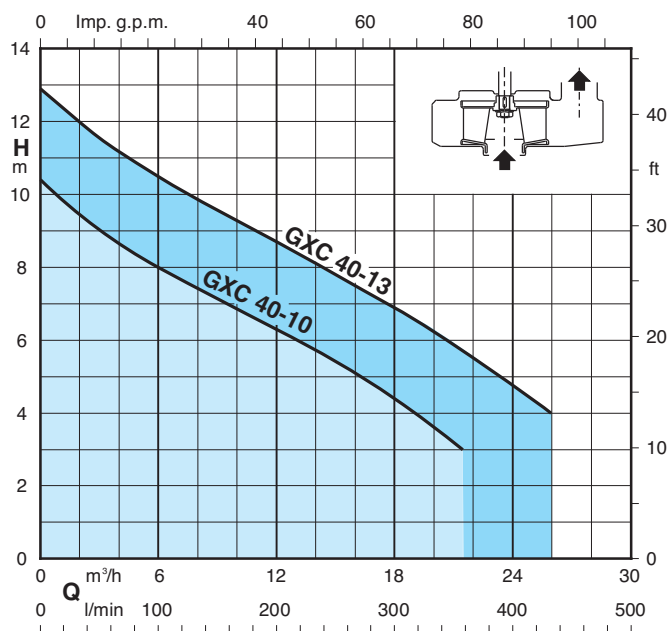
- Other voltages. - Frequency 60 Hz (as per 60 Hz data sheet).

- Other mechanical seal.

- Cable length 20 m.

- Motor suitable operation with frequency converter.

Characteristic curves $n \approx 2900$ rpm



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Performance $n \approx 2900$ rpm

3~			230V 400V		1~		230V		Capacitor		P ₁	P ₂		Q	m ³ /h	0	3	6	9	12	15	18	21	24	26
	A	A		A	μf	Vc	kW	kW	HP						l/min	0	50	100	150	200	250	300	350	400	433
GXC 40-10	2,8	1,6	GXCM 40-10	4,6	16	450	1	0,55	0,75					H _m	10,4	9	8	7,1	6,3	5,4	4,4	3,2	-	-	
GXC 40-13	4	2,3	GXCM 40-13	6,6	25	450	1,45	0,9	1,2						12,9	11,6	10,5	9,5	8,7	7,8	6,9	5,9	4,7	4	

3~			230V 400V		1~		230V		Capacitor		P ₁	P ₂		Q	m³/h	0	3	6	9	12	15	18	21	24	26
	A	A		A	µf	Vc	kW	kW	HP						l/min	0	50	100	150	200	250	300	350	400	433
GXV 40-7	2,8	1,6	GXVM 40-7	4,6	16	450	1	0,55	0,75	H m				7	6,2	5,4	4,6	3,7	3	-	-	-	-	-	
GXV 40-8	3,8	2,2	GXVM 40-8	5,4	25	450	1,1	0,75	1		8	7,2	6,4	5,5	4,6	3,7	2,8	-	-	-	-	-	-	-	
GXV 40-9	4	2,3	GXVM 40-9	6	25	450	1,3	0,9	1,2		9	8,1	7,2	6,3	5,4	4,5	3,5	2,4	-	-	-	-	-	-	

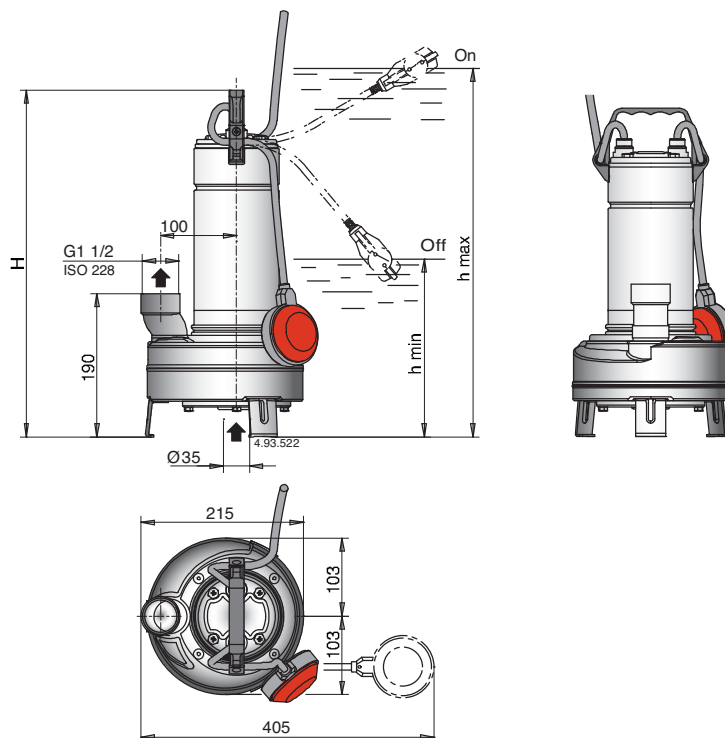
P1 Max. power input.

P2 Rated motor power output.

Density $\rho = 1000$ kg/m³.

Kinematic viscosity $\nu = \max 20$ mm²/sec.

Dimensions and weights



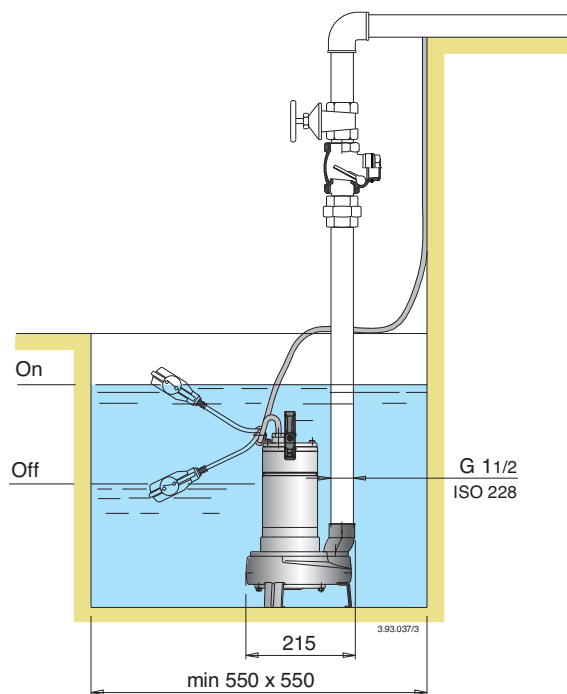
TYPE	mm			kg ⁽¹⁾	
	H	h max	h min	GXV	GXVM
GXV(M) 40-7	433	508	248	10,1	11,7
GXV(M) 40-8	458	533	273	11,7	13,2
GXV(M) 40-9	458	533	273	11,7	13,2

TYPE	mm			kg ⁽¹⁾	
	H	h max	h min	GXC	GXC _M
GXC(M) 40-10	433	508	248	10,1	11,7
GXC(M) 40-13	458	533	273	11,7	13,2

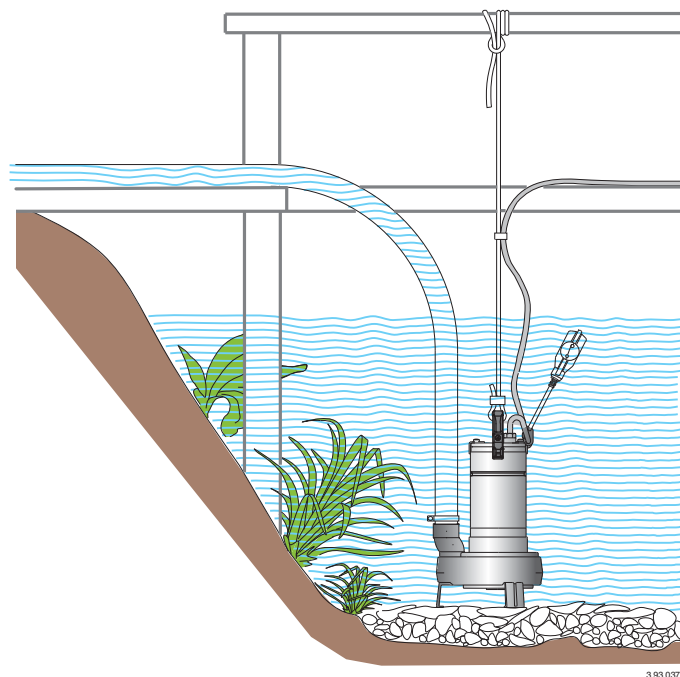
1) With cable length: 10 m

Installation examples

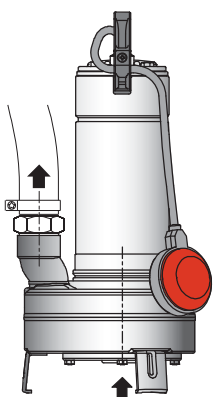
Stationary installation



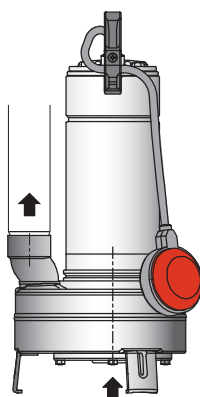
Transportable installation



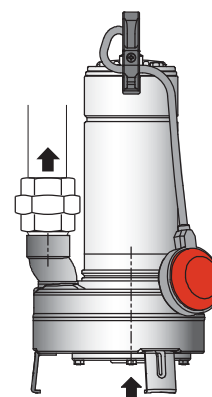
Connection examples



Pompa con portagomma e fascetta
(locally available)



Pompa con tubo avvitato
nella bocca



Pompa con tubo e bocchettone
(locally available)

Features

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Cable length 10 m, pump single-phase with plug

Handle in polypropylene, with frame in stainless steel.

Easy inspection of the capacitor area.

Easy adjustment of the float switch: to allow the adjustment of start/stop pump levels.

Ring against accidental extraction of the cable.

The double shaft seal with oil chamber separates the motor from the water and provides further protection against accidental operation when dry.

G 1 1/2 vertical, upward delivery port for installation in small pits, without the need for an elbow on the pump.

Totally in stainless steel
All parts in contact with the pumped liquid both internal and external are in stainless steel AISI 304

Chamber with food/pharmaceutical machinery oil.

GXC

GXV

GXC The two-passage impeller construction is particularly suitable for liquids containing solids up to 35 mm grain size.

Shaft in chrome-nickel stainless steel.

GXV The free-flow impeller (vortex) construction is particularly suitable for liquids with a high solid content up to 35 mm grain size or with filamentous particles.

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Materials

Component	Material
Pump casing Impeller	Cast iron GJL 200 EN 1561
Motor jacket Jacket cover Casing cover	Chrome-nickel steel AISI 304
Handle	Polypropylene (with frame in AISI 304)
Shaft	Chrome-nickel steel AISI 304
Mechanical seal: upper lower	Ceramic alumina/Carbon/NBR
Seal lubrication oil	Oil for food/pharmaceutical machinery

Construction

Single-impeller submersible pumps, with free-flow (vortex) impeller.

GQS: with vertical threaded delivery port (G 2").

GQV: with horizontal flanged and threaded delivery port (DN 50 - G 2").

Double mechanical shaft seal with interposed oil chamber, to protect against dry-running.

Applications

For domestic or industrial waste water, dirty water with solids up to 50 mm grain size, for liquids which are compatible with the pump materials.

For draining rooms or emptying tanks.

Extraction of water from ponds, streams or pits and for rainwater collection.

Operating conditions

Liquid temperature up to 35° C.

pH value: 6-11.

Maximum immersion depth: 5 m.

Minimum immersion depth: 275 mm.

Continuous duty (with submerged motor).

Motor

2-pole induction motor, 50 Hz (n = 2900 rpm).

GQV, GQS: three-phase 230 V $\pm$ 10%;

three-phase 400 V $\pm$ 10%.

Cable: H07RN-F, 4G1 mm², length 10 m, without plug.

GQVM, GQSM: single-phase 230 V $\pm$ 10%,

with float switch and thermal protector.

Incorporated capacitor.

Cable: H07RN-F, 3G1 mm², length 10 m, with

plug CEI-UNEL 47166.

Insulation class F.

Protection IP X8 (for continuous immersion)

Triple impregnation humidity-proof dry winding.

Constructed in accordance with: EN 60034-1;

EN 60335-1, EN 60335-2-41.

Other features on request

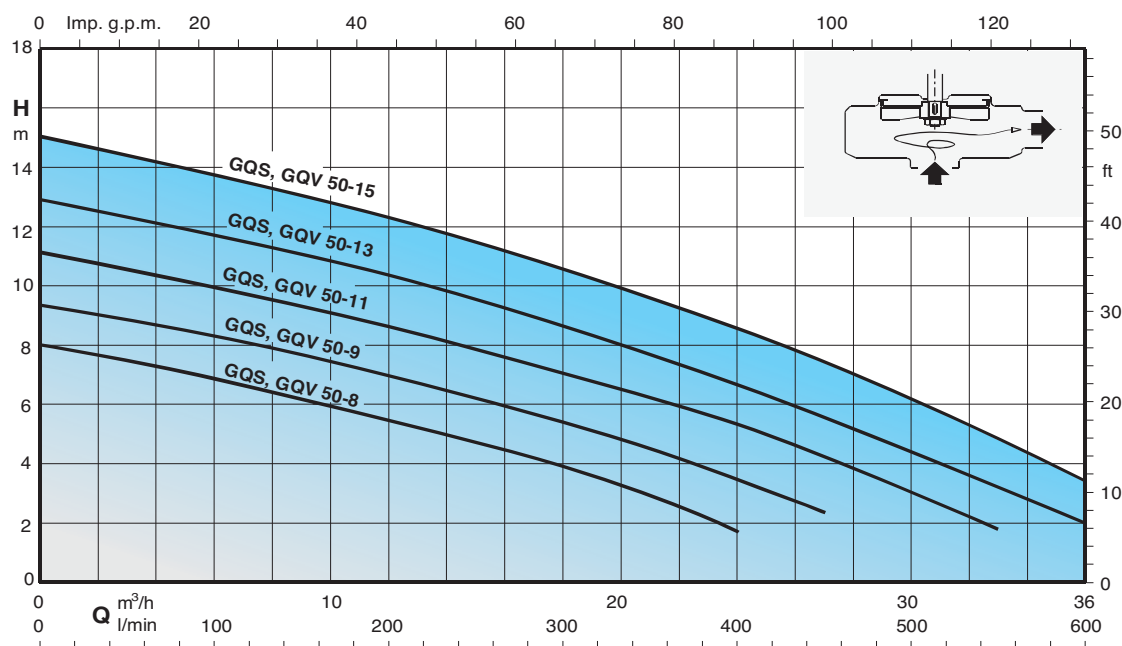
- Other voltages. - Frequency 60 Hz (as per 60 Hz data sheet).

- Other mechanical seal.

- Cable length 20 m.

- Motor suitable operation with frequency converter.

Characteristic curves n $\approx$ 2900 rpm



Performance n ≈ 2900 rpm

3~	230V 400V		1~	230V Capacitor			P ₁	P ₂		Q m³/h l/min	0	3	6	9	12	15	18	21	24	27	30	33	36
	A	A		A	µf	Vc	kW	kW	HP		0	50	100	150	200	250	300	350	400	450	500	550	600
GQS 50-8 GQV 50-8	2,6	1,5	GQSM 50-8 GQVM 50-8	4,3	16	450	0,95	0,55	0,75	H _m	8	7,4	6,9	6,3	5,6	4,8	4	3	1,8	-	-	-	-
GQS 50-9 GQV 50-9	3,1	1,8	GQSM 50-9 GQVM 50-9	4,8	16	450	1,1	0,75	1		9,3	8,8	8,3	7,7	7	6,2	5,3	4,3	3,2	2,2	-	-	-
GQS 50-11 GQV 50-11	4	2,3	GQSM 50-11 GQVM 50-11	6,6	25	450	1,45	0,9	1,2		11	10,5	10	9,3	8,6	7,8	7	6,2	5,2	4,2	3	1,8	-
GQS 50-13 GQV 50-13	5,2	3	GQSM 50-13 GQVM 50-13	8,4	30	450	1,8	1,1	1,5		12,8	12,2	11,6	11	10,3	9,5	8,6	7,7	6,7	5,7	4,5	3,3	2
GQS 50-15 GQV 50-15	6,9	4						1,5	2		15	14,4	13,7	13	12,2	11,3	10,4	9,5	8,5	7,4	6,2	4,8	3,5

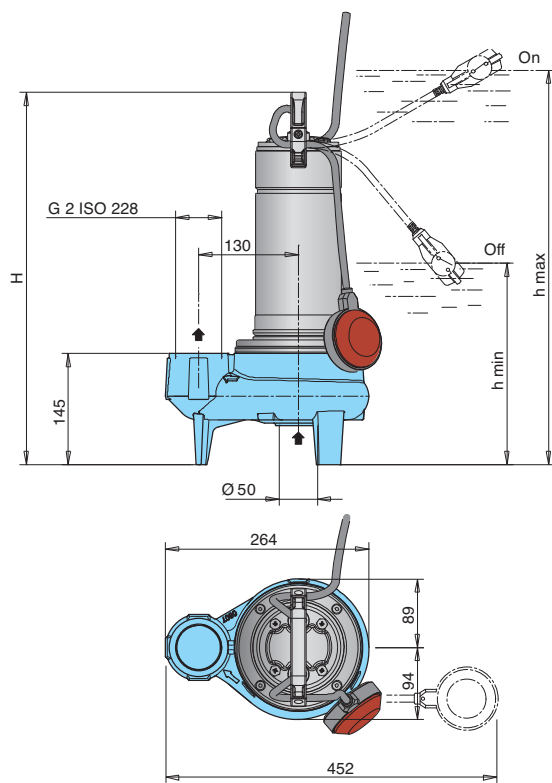
P1 Max. power input.

P2 Rated motor power output.

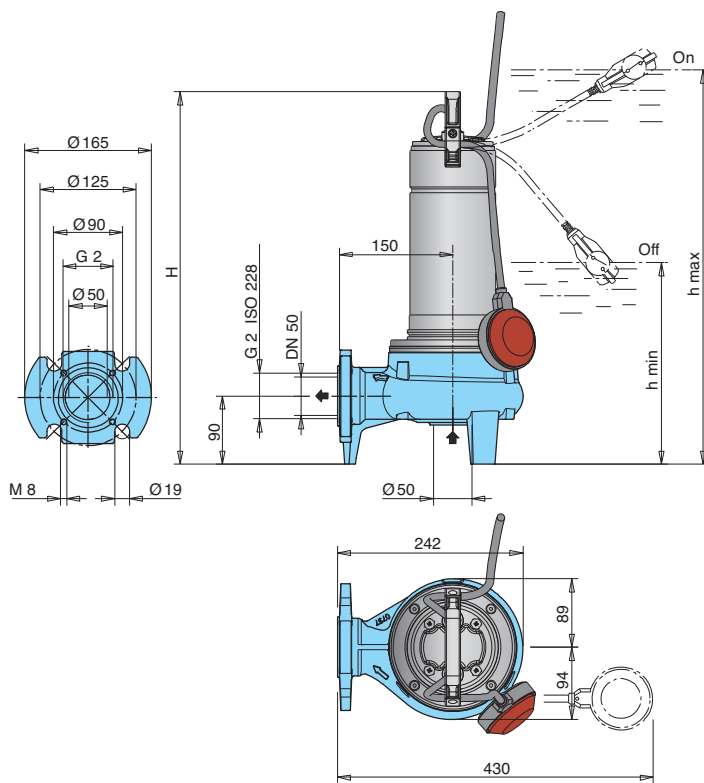
Density $\rho = 1000 \text{ kg/m}^3$.

Kinematic viscosity $\nu = \text{max } 20 \text{ mm}^2/\text{sec}$.

Dimensions and weights

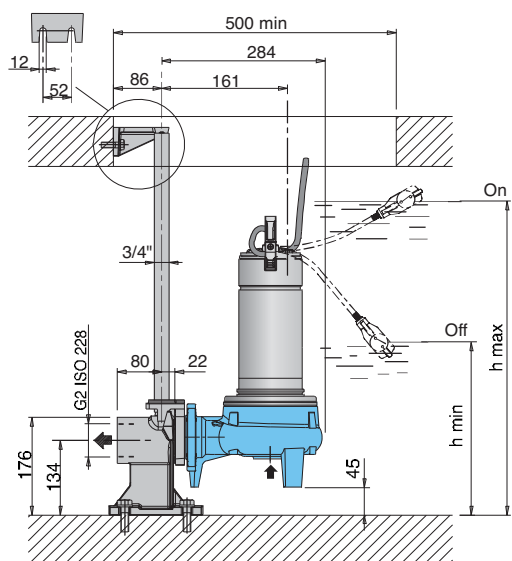


TYPE	mm			kg	
	H	h max	h min	GQS	GQSM
GQS(M) 50-8	460	535	275	14,8	15,8
GQS(M) 50-9	460	535	275	15	16
GQS(M) 50-11	485	560	300	15,8	17,8
GQS(M) 50-13	505	580	320	18,8	20,3
GQS 50-15	505	580	320	20,3	-

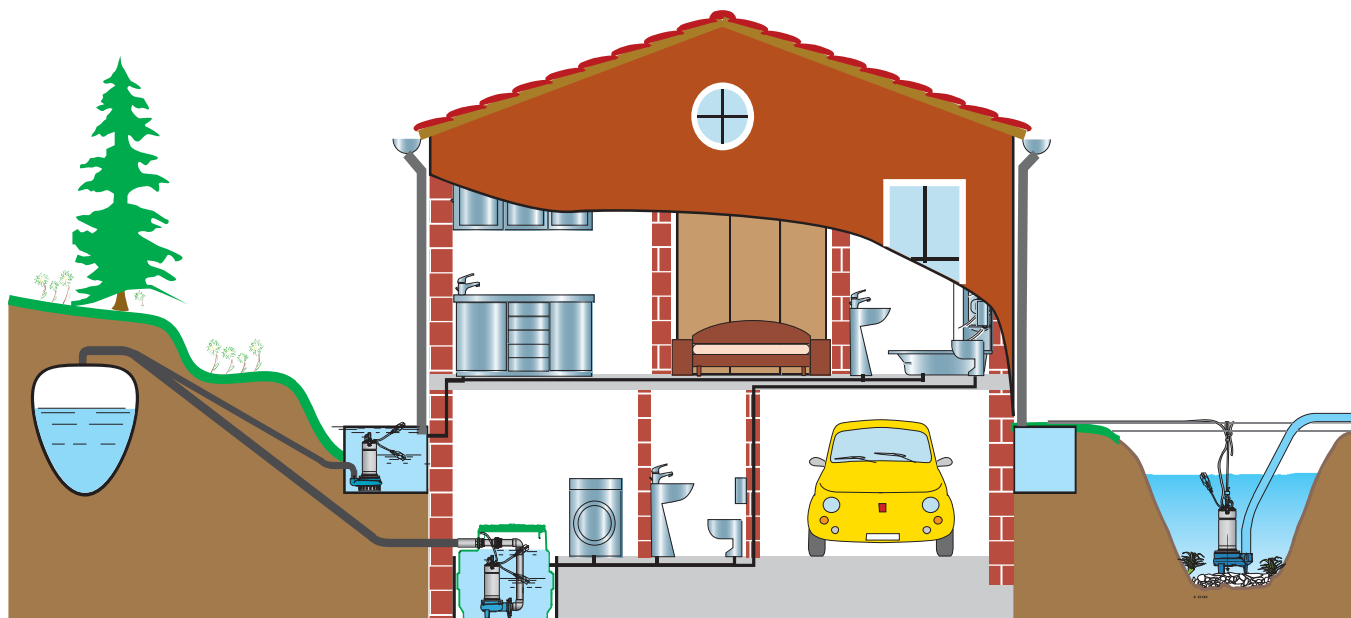
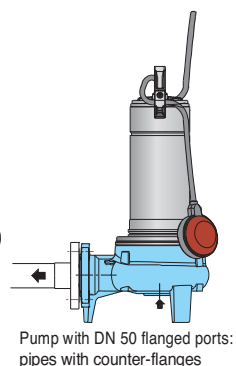
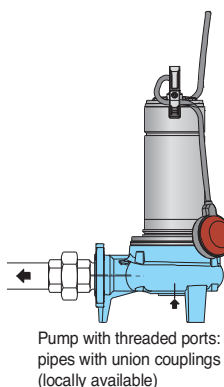
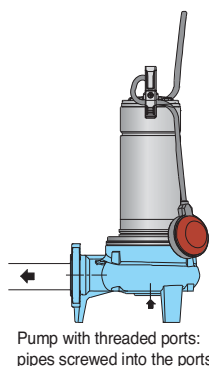
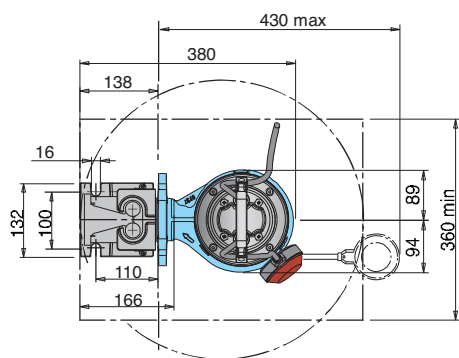
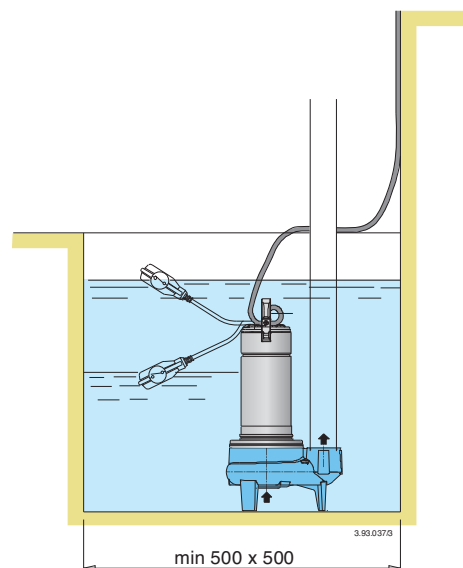


TYPE	mm			kg	
	H	h max	h min	GQV	GQVM
GQV(M) 50-8	460	535	275	15	16
GQV(M) 50-9	460	535	275	15,2	16,2
GQV(M) 50-11	485	560	300	16	18
GQV(M) 50-13	505	580	320	19	20,5
GQV 50-15	505	580	320	20,5	-

Installation examples



TYPE	mm	
	h max	h min
GQV(M) 50-8	580	320
GQV(M) 50-9	580	320
GQV(M) 50-11	605	345
GQV(M) 50-13	625	365
GQV 50-15	625	365



Features

Cable length 10 m, pump single-phase with plug

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Handle in polypropylene, with frame in stainless steel.

Easy inspection of the capacitor area.

Easy adjustment of the float switch: to allow the adjustment of start/stop pump levels.

Ring against accidental extraction of the cable.

The double shaft seal with oil chamber separates the motor from the water and provides further protection against accidental operation when dry.

Relief valve: the pump is fitted to a relief valve for air release around the impeller granting a proper pump priming also after long standstill periods.

Chamber with food/pharmaceutical machinery oil

Maximum flexibility of connection:

- Flange DN 50 PN 10 EN 1092-2
- N. 4 M8 holes on Ø 90 for duck foot coupling SA-G2"
- G 2" ISO 228

Impeller with epoxy cataphoresis treatment for a greater protection against the rust.

Shaft in chrome-nickel stainless steel.

The free-flow impeller (vortex) construction is particularly suitable for liquids containing solids up to 50 mm grain size.

Pump casing with epoxy cataphoresis treatment joined to the external paint for a greater protection against the rust.

GQV

G 2 vertical, upward delivery port for installation in small pits, without the need for an elbow on the pump.

GQS



Materials

Component	Material
Pump casing	Cast iron GJL 200 EN 1561
Casing cover	
Impeller	
Motor housing	
Motor cover	
Shaft	Chrome steel 1.4016 EN 10088 (AISI 430)
Mechanical seal: Upper	Carbon, ceramic, NBR
Lower	Silicon carbide, silicon carbide, NBR
Seal lubrication oil	Oil for food machinery and pharmaceutical use

Construction

Close coupled electric submersible pumps.

GMC: with single-channel impeller.

GMV: with free-flow (vortex) impeller.

Double mechanical shaft seal with interposed oil chamber, to protect against dry-running.

Applications

For domestic or industrial waste water, dirty water with solids up to 45 mm grain size for GMC and 50 mm for GMV, for liquids which are compatible with the pump materials.

Operating conditions

Liquid temperature up to 35 °C.

pH value: 6-11.

Maximum immersion depth: 10 m (with suitable cable length).

Continuous duty (with submerged motor).

Motor

2-pole induction, 50 Hz ($n = 2900$ rpm).

GMC, GMV: three-phase 230 V $\pm 10\%$;
three-phase 400 V $\pm 10\%$;
2 built-in thermal protectors to be connected to a control box.

Cable: 4G1,5 mm² + 2x0,5 mm², length 10 m.

GMCM, GMVM: single-phase 230 V $\pm 10\%$.

With float switch, built-in thermal protector and built-in capacitor.

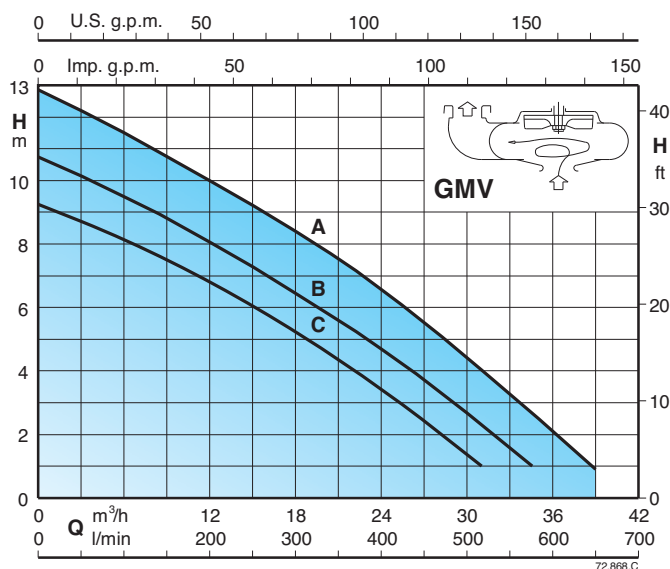
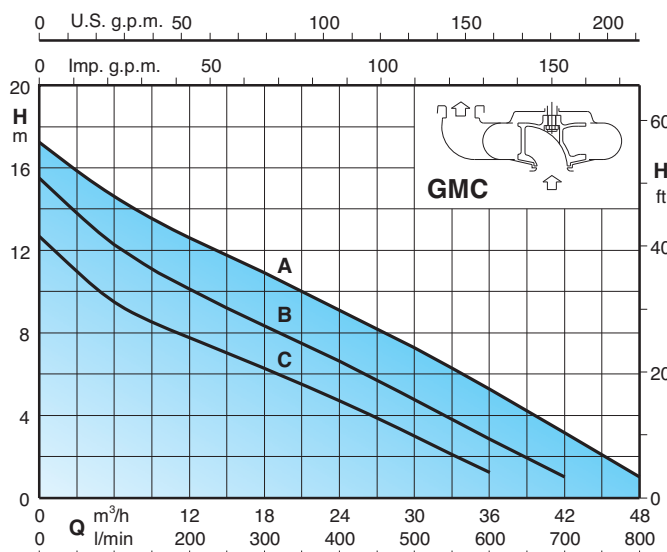
Cable: H07RN8-F, 3G1,5 mm², length 10 m, with plug (CEI - UNEL 47166).

Insulation class F. Protection IP X8.

Triple impregnation, humidity-proof winding.

Constructed in accordance with: EN 60335-2-41.

Characteristic curves $n \approx 2900$ rpm



Performance $n \approx 2900$ rpm

3~ 230 V 400 V			1~ 230 V Capacitor P1					P2		Q m ³ /h l/min	0	6	12	18	24	30	36	42	48	
	A	A		A	µf	Vc	kW	kW	HP			0	100	200	300	400	500	600	700	800
GMC 50CE GMC 50-65C	3,3	1,9	GMCM 50CE GMCM 50-65C	4,5	16	450	1,1	0,75	1	H m	12,8	9,5	8	6,5	5	3	1			
GMC 50BE GMC 50-65B	4,8	2,7	GMCM 50BE GMCM 50-65B	6,5	12,5x2	450	1,5	1,1	1,5		15,5	12,5	10	8,5	6,5	5	3	1		
GMC 50AE GMC 50-65A	6,6	3,8						1,5	2		17,3	14,5	12,5	11	9	7,5	5,5	3	1	

3~ 230 V 400 V			1~ 230 V Capacitor P1					P2		Q m ³ /h l/min	0	6	12	18	24	30	31	35	39	
	A	A		A	µf	Vc	kW	kW	HP		0	100	200	300	400	500	516	583	650	
GMV 50CE GMV 50-65C	3,3	1,9	GMVM 50CE GMVM 50-65C	4,5	16	450	1,1	0,75	1	H m	9,2	8	7	5	3,5	1,5	1			
GMV 50BE GMV 50-65B	4,8	2,7	GMVM 50BE GMVM 50-65B	6,5	12,5x2	450	1,5	1,1	1,5		10,7	9,5	8	6,5	4,5	2,5	2,3	1		
GMV 50AE GMV 50-65A	6,6	3,8						1,5	2		12,9	11,5	10	8,5	6,5	4,3	4	2,5	1	

P1 Max. power input.

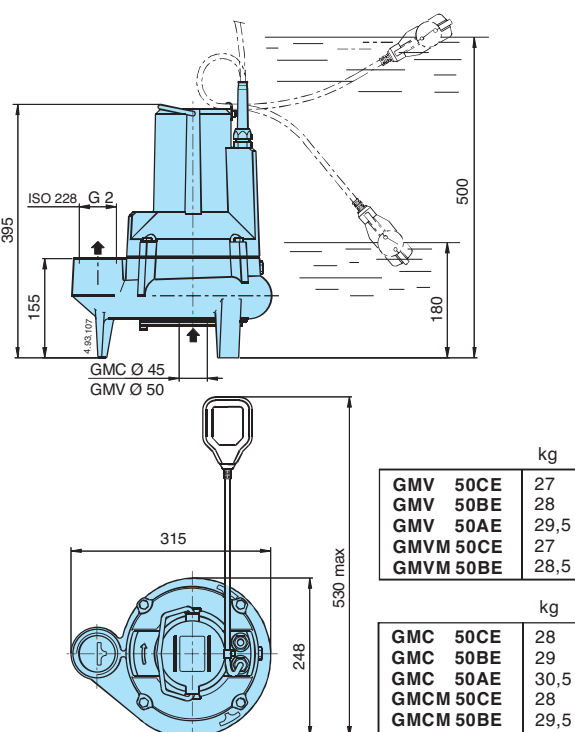
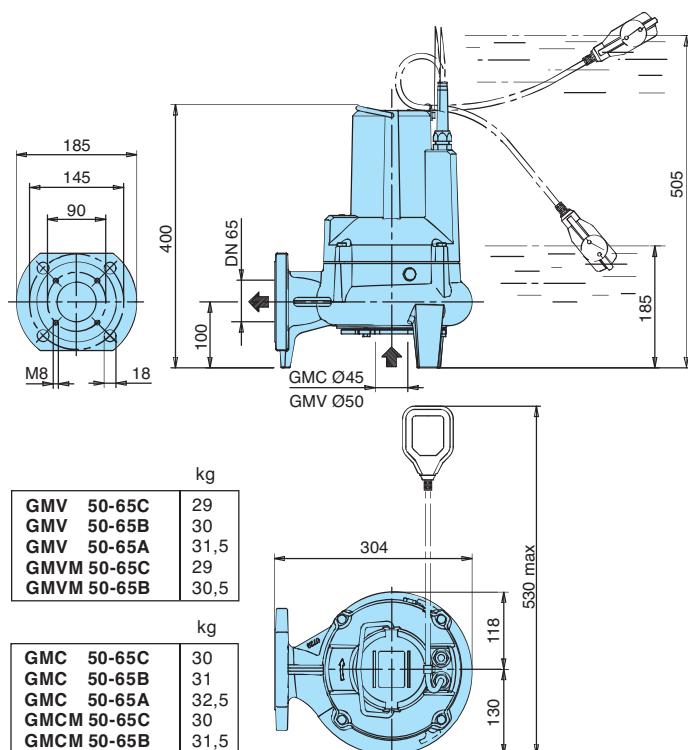
H Total head in m.

Density $\rho = 1000$ kg/m³.

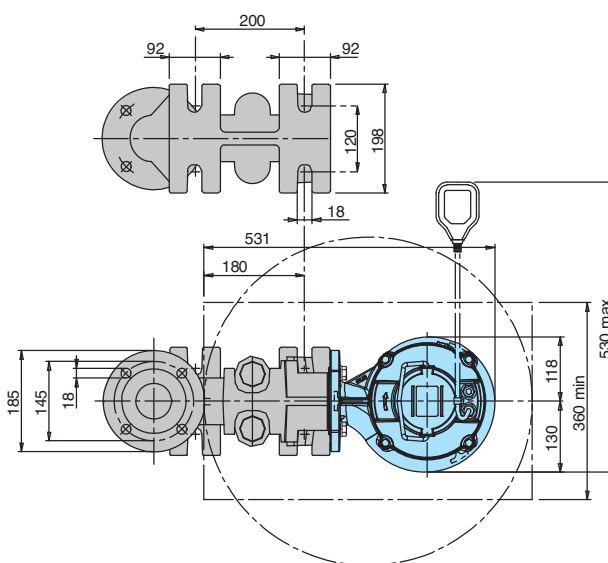
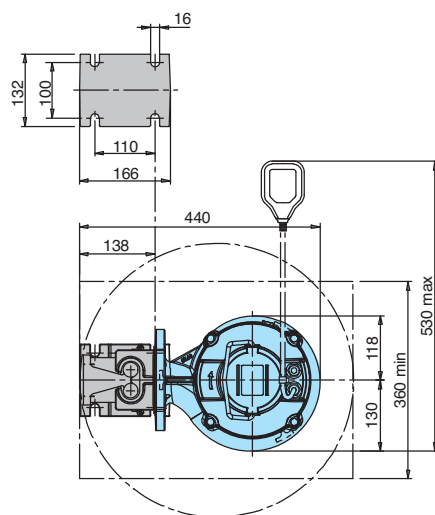
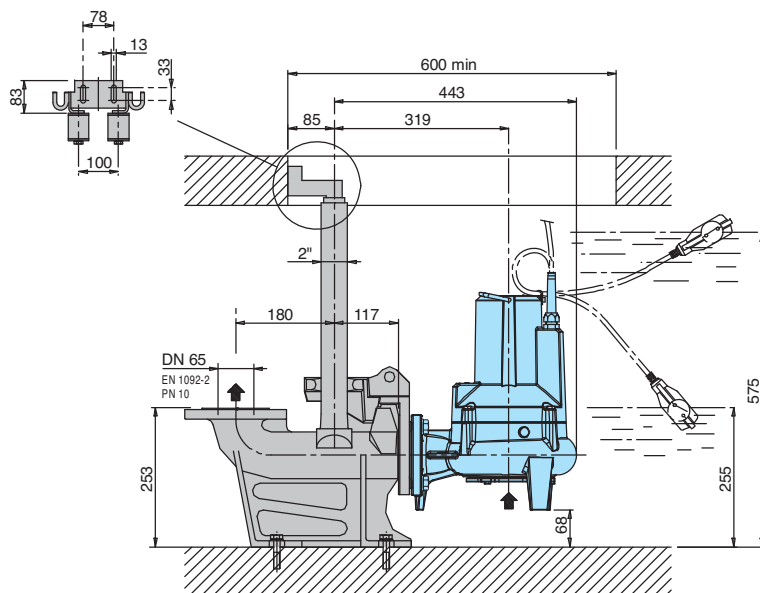
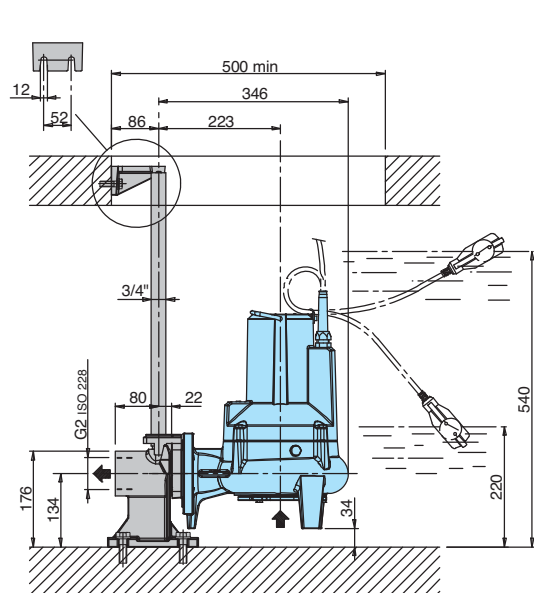
Kinematic viscosity $\nu = \max 20$ mm²/sec.

P2 Rated motor power output.

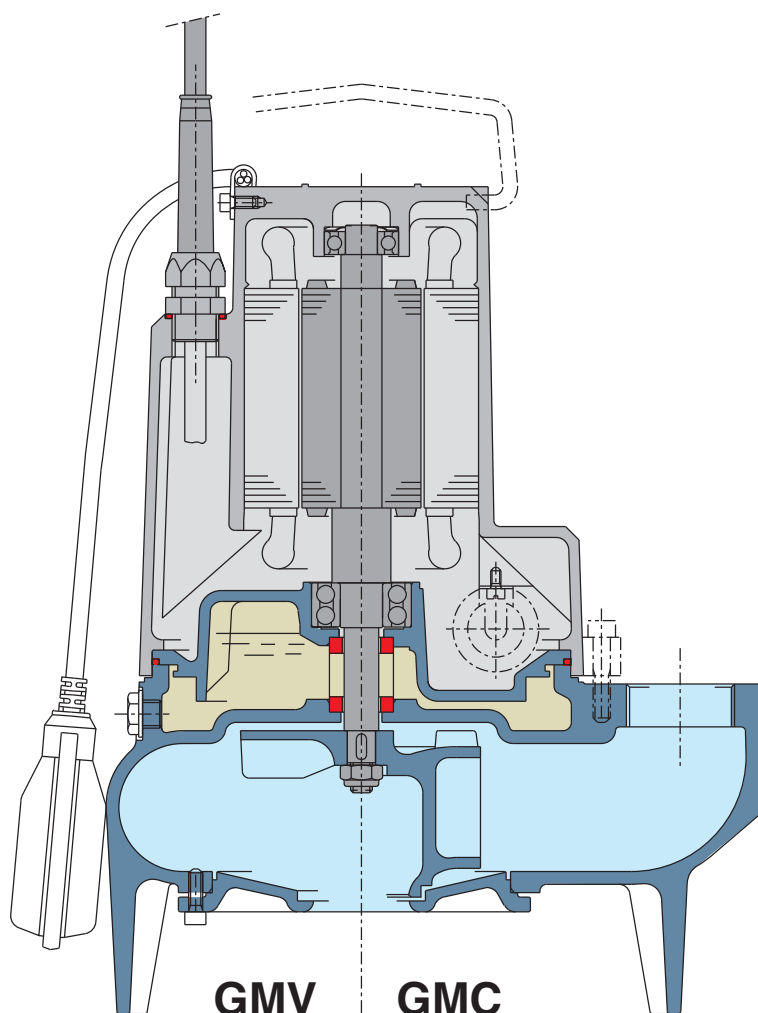
Dimensions and weights



Dimensions with duck foot coupling



Features



SAFETY

The double mechanical seal with oil chamber ensures safe separation separating the motor from water and providing further protection against accidental operation when dry.

RELIABILITY

The lower double ball bearing ensures high reliability under all operating conditions.

HIGH SECURITY

The three-phase motors are equipped with integrated thermistors, which provide the motor with thermal protection. The motor cable is pre-wired to enable the user to connect directly to a control panel, providing easier installation.

FLEXIBLE INSTALLATION

The availability of the pump casing with horizontal or vertical flanged ports allows the installation of pumps in all pits and wells, both small and large sizes. Installation is also possible with a duck foot coupling.



Construction

This macerating pumping system has been designed to pump away the waste water from a WC and a washbasin.

It is possible to use it to add a new cloakroom, washroom or toilet, in a basement or loft conversion or anywhere conventional large bore pipework is impractical.

The GEOTRIT macerating system is installed in a case specifically designed for horizontal outlet spigots.

Installed and used correctly, this unit will give consistent and reliable service.

The system has a grinder pump, clapet valve and carbon filter. GEOTRIT is provided with flexible sleeves, elbow, metal hose clips.

Operating conditions

Voltage: 220-240 V

Frequency: 50 Hz

Degree of protection: IP44

Maximum power rating: 550 W

Maximum current consumption: 2,5 A

Vertical pumping: max. 4 m

Liquid temperature up to 35 °C

Application

GEOTRIT takes waste from :

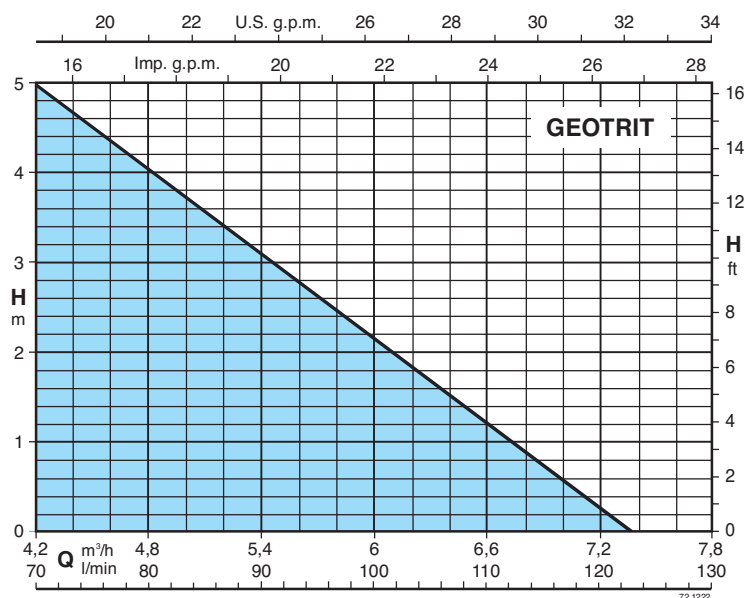


WC



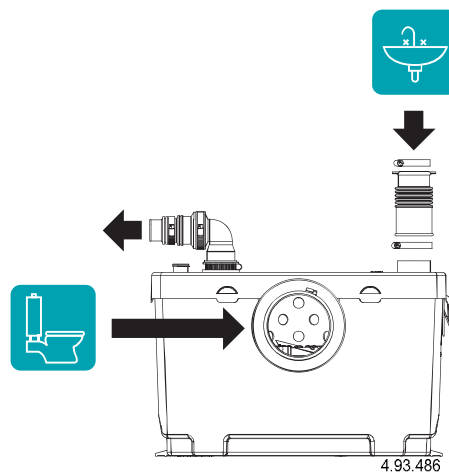
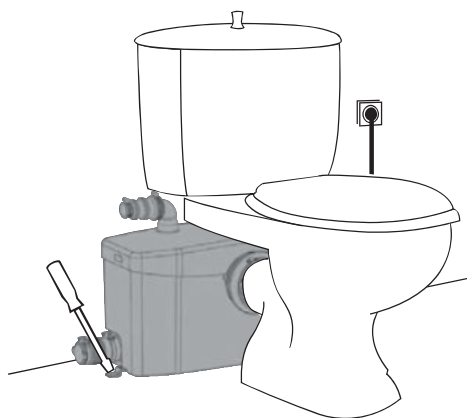
Washbasin

Characteristic curve

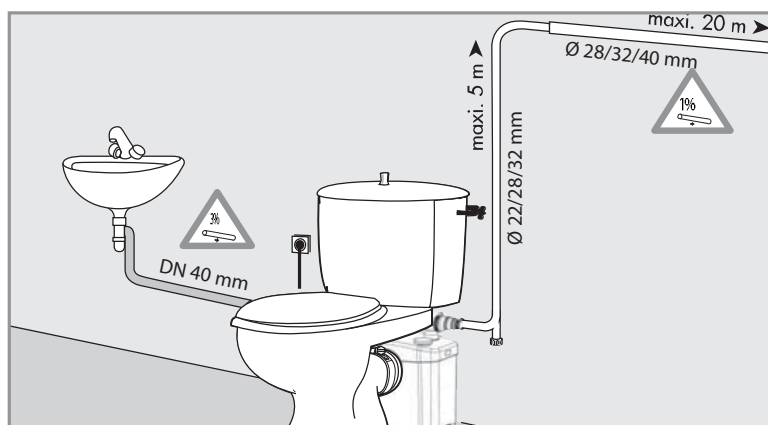
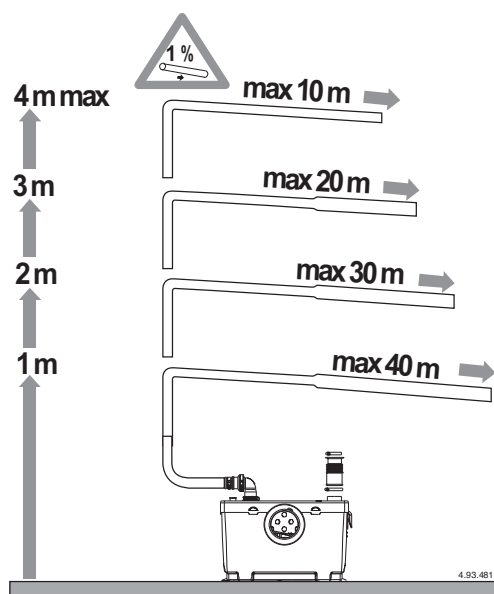


Q m³/h	4,2	4,8	5,4	6	6,6	7,2
Q l/min	70	80	90	100	110	120
H m	4,97	4,05	3,1	2,16	1,21	0,27

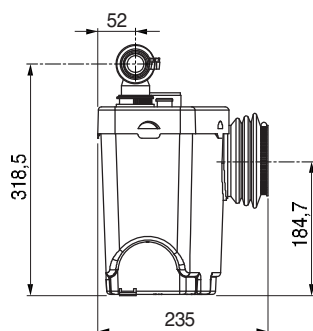
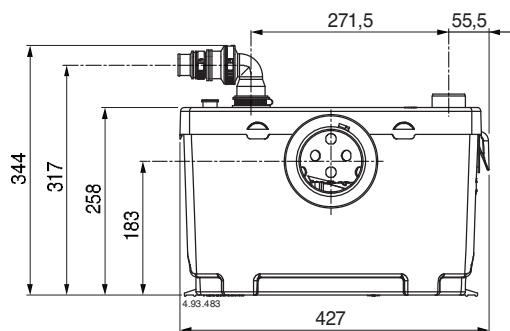
Installation



Performance



Dimensions and weights



peso: kg 6,8



Construction

This macerating pumping system has been designed to pump away the waste water from WC, washbasin, bidet and shower. It is possible to install a complete bathroom in a basement conversion or loft extension.

The GEOCOMP macerating system is installed in a case specifically designed for horizontal outlet spigots.

Installed and used correctly, this unit will give consistent and reliable service.

The system has a grinder pump, clapet valve and carbon filter.

GEOCOMP is provided with flexible sleeves, elbow, metal hose clips.

Operating conditions

Voltage: 220-240 V

Frequency: 50 Hz

Degree of protection: IP44

Maximum power rating: 550 W

Maximum current consumption: 2,5 A

Vertical pumping: max. 4 m

Liquid temperature up to 35 °C

Application

GEOCOMP takes waste from :



WC



Washbasin



Bidet

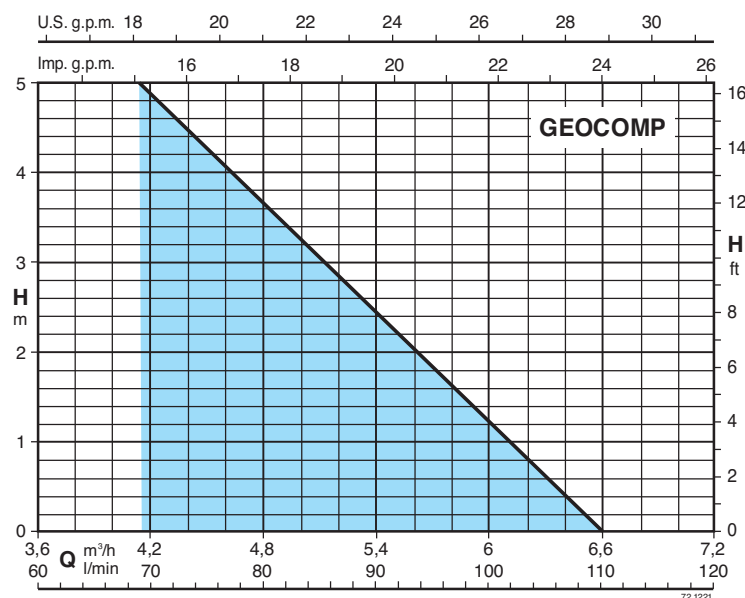


Tube



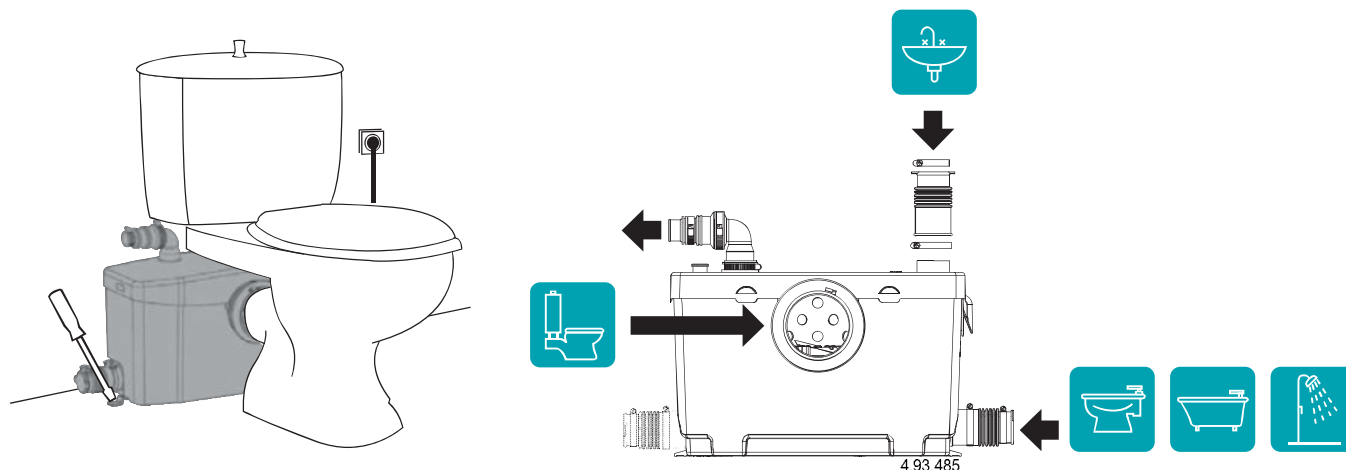
Shower

Characteristic curve

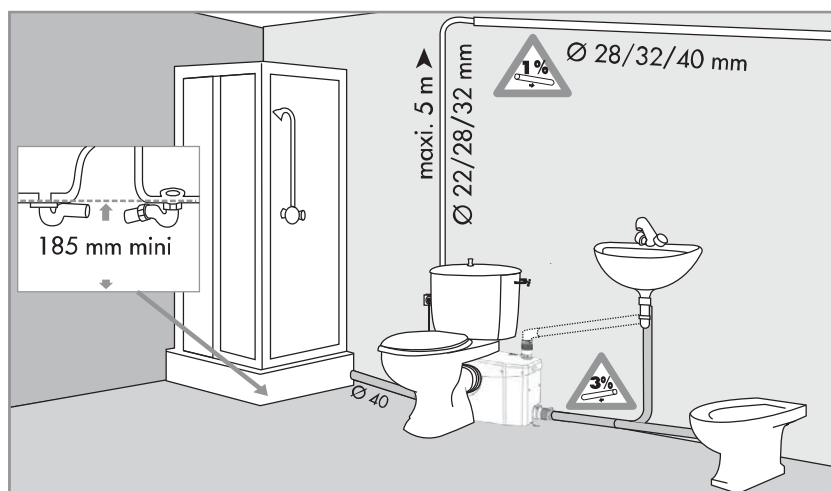
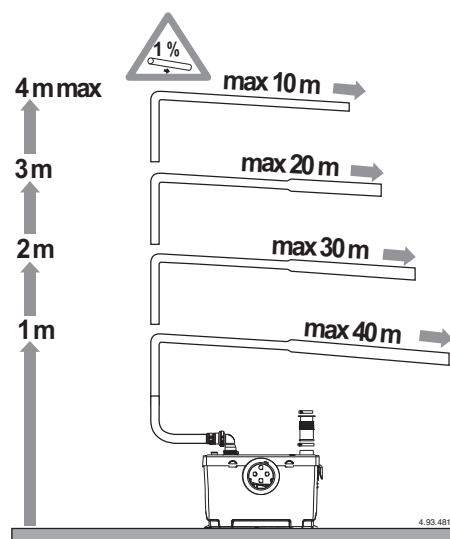


Q m ³ /h	4,14	4,2	4,8	5,4	6	6,6
Q l/min	69	70	80	90	100	110
H m	5	4,89	3,66	2,42	1,24	0

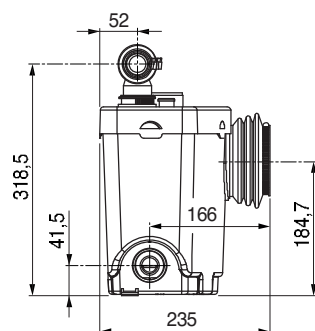
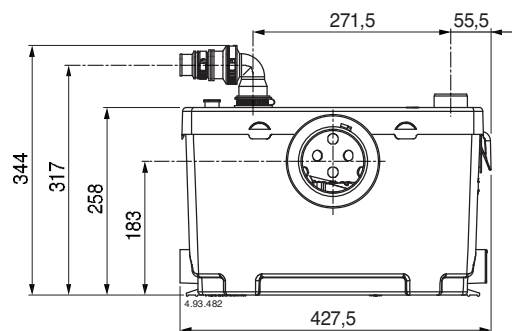
Installation



Performance



Dimensions and weight



weight: kg 6,8



Construction

The system is design to handle the evacuation water from a domestic kitchen sink, dishwasher and washing machine – all working at the same time if required.

GEOCLEAN makes the addition of a domestic kitchen or utility room easy even when below or distant from a drain.

The system has a clapet valve and it cannot be used with waste waters.

GEOCLEAN is provided with flexible sleeves, elbow, metal hose clips, plugs.

Operating conditions

Voltage: 220-240 V

Frequency: 50 Hz

Degree of protection: IP44

Maximum power rating: 350 W

Maximum current consumption: 1,7 A

Vertical pumping: max. 5 m

Liquid temperature up to 60 °C

Application

GEOCLEAN takes waste from :



Washbasin



Bidet



Tube



Shower



Kitchen sink

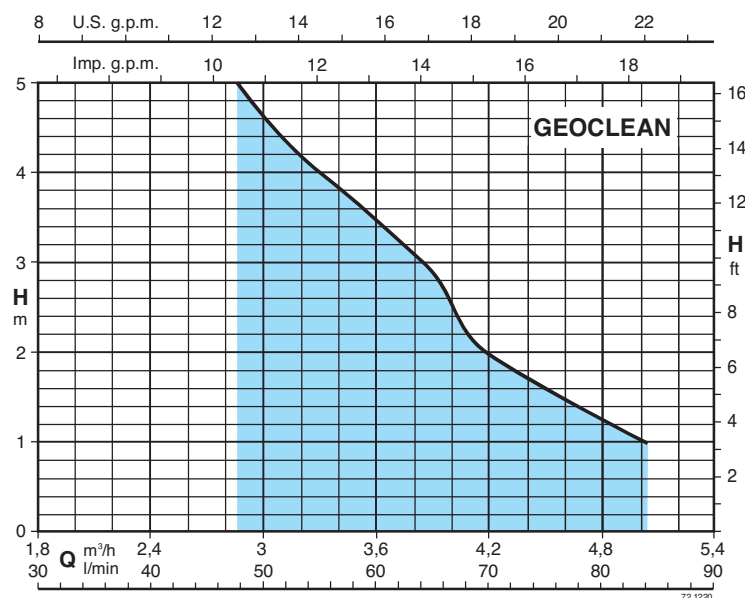


Dishwasher



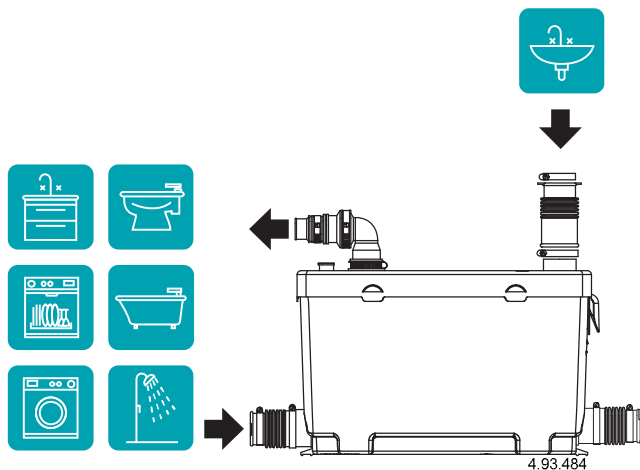
Washing machine

Characteristic curve

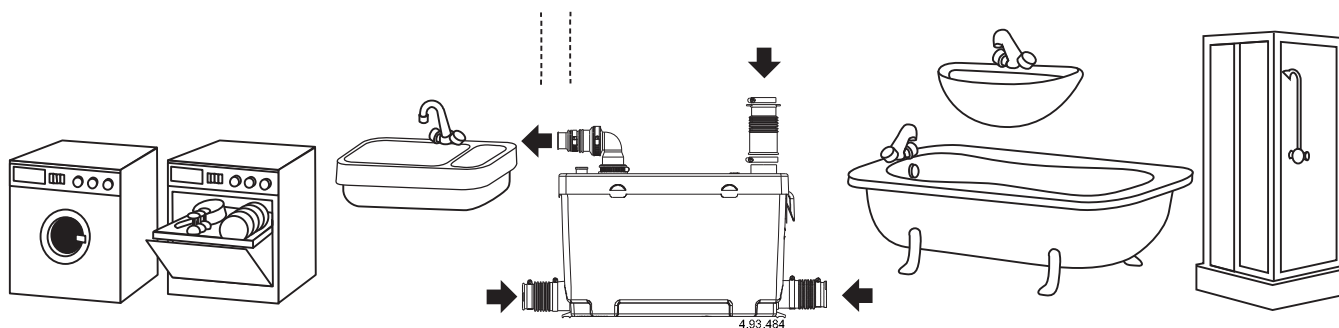
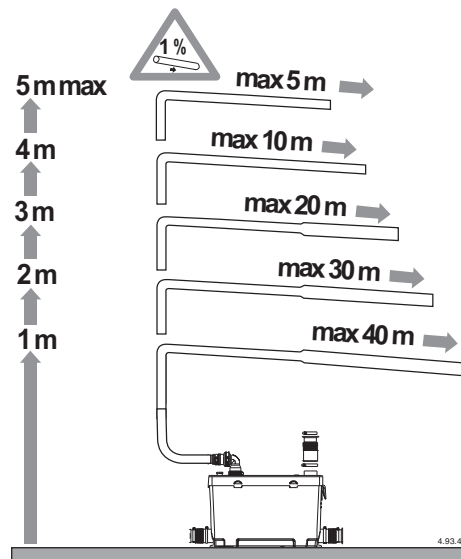


Q	2,88	3	3,6	4,2	4,8	5,04
m ³ /h						
l/min	48	50	60	70	80	84
H	4,95	4,62	3,46	1,97	1,25	1
m						

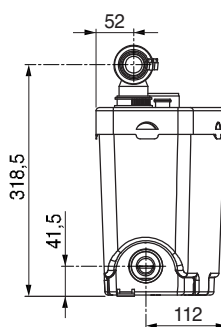
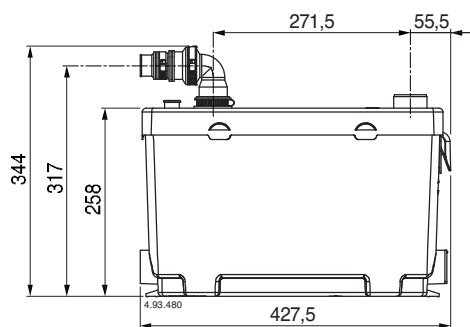
Installation



Performance



Dimensions and weight



weight: kg 6,6



Construction

High-density polyethylene tank, resistant to corrosion, with minimum overall dimensions.

- **GEO 40** single tank with 40 liter nominal capacity for the installation of a GXRM type.
- **GEO 230** single tank with 230 liter nominal capacity for the installation of an electropump type GM 10, GQ, GX or GM series.
- **GEO 500** double tank with 500 liter nominal capacity for the installation of two electropumps type GM 10, GQ, GX or GM series.

Pipe kit for electropump connection.

Two possible installation, at ground level or underground.

For underground installation, extensions can be used.

Easy pump access through a cover fixed with screws.

Applications

Automatic waste water collecting and lifting stations, to handle domestic, civil and industrial waste water.

For collecting and lifting clean waste water and rain water.

For flood drainage.

Designation

GEO 40-GXRM 9

Series _____
Nominal tank capacity _____
Pump type _____

GEO 230-GXVM 40B

Series _____
Nominal tank capacity _____
Pump type _____

GEO 500-2 GXVM 40B

Series _____
Nominal tank capacity _____
Nr of pumps _____
Pump type _____

36

Installation examples

GEO 40-GXR



GEO 230-GX..



GEO 500-2GM..



Pumps characteristics

GEO 40-GXRM

GEO 40-GXRM GF



Features

Automatic collecting and lifting station for clean water with GXRM pump type .

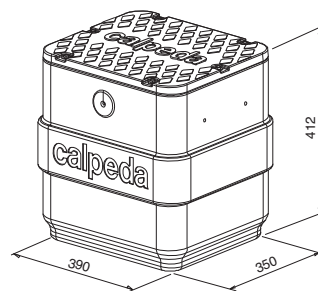
It includes:

- 1 40 lt capacity tank
- 1 single-phase pump with 5 m cable and float switch
- 1 non-return valve with clapet on the pump delivery side
- 1 discharge pipe kit arranged for the connection of a Ø 40 mm PVC pipe
- 1 PVC adapting nipple for Ø 40 mm inlet
- 1 connector for Ø 25 mm flexible pipe

ON DEMAND

- 1 pump with 10 m cable

Single-phase type	1 ~ 230 V		Q max m³/h	H max m
	kW	A		
GEO 40-GXRM 9	0,25	2,5	10,2	8,3
GEO 40-GXRM 9 GF	0,25	2,5	10,2	8,3
GEO 40-GXRM 11 GF	0,37	3,5	12	10,4
GEO 40-GXRM 13 GF	0,45	4,5	13,2	11,7



GXRM

Submersible drainage pump in chrome-nickel stainless steel, for clean water containing solids up to 10 mm grain size, with vertical delivery port.

Open impeller.

2-pole induction motor, 50Hz (n = 2900 rpm),

Single-phase 230 V +/-10% with float switch and thermal protector.

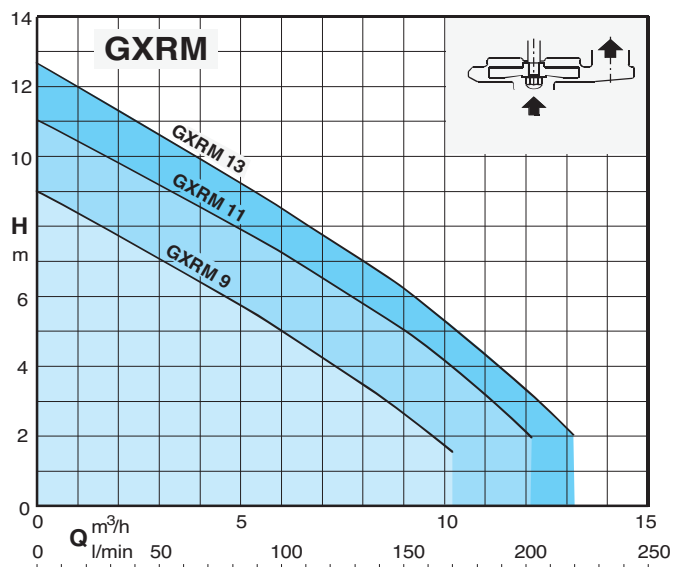
- GXRM: with standard float switch.

- GXRM .. GF: with vertical magnetic float switch.

Incorporated capacitor.

Cable length 5 m, Shuko plug.

Liquid temperature up to 50 °C



Pumps characteristics

GEO 230-GM 10



Features

Automatic clear water collecting and lifting station GM 10 pump series.

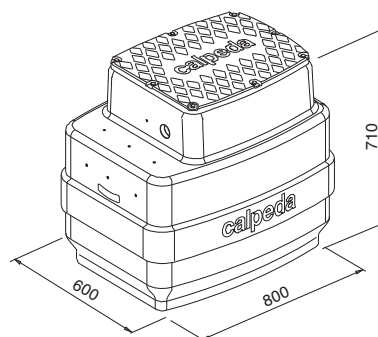
include:

- 1 tank capacity 230 lt
- 1 single-phase pump with 5 m cable and float switch
- 1 control box QM 6,3 type with capacitor
- 1 discharge pipe kit Ø 40 mm in PVC

ON DEMAND

- 1 pump with 10 m cable
- 1 discharge pipe kit Ø 40 mm in PVC with a ball valve and non-return ball valve
- 1 support kit with safety float switch and auto-supplied control panel for remote alarm with horn and flashing light
- extension 300 mm

Single-phase type	1 ~ 230 V		Q max m³/h	H max m
	kW	A		
GEO 230-GM 10	0,3	1,75	12	6,5



GM 10

Submersible drainage pump constructed from composite polymers.

Shaft of chrome steel AISI 430.

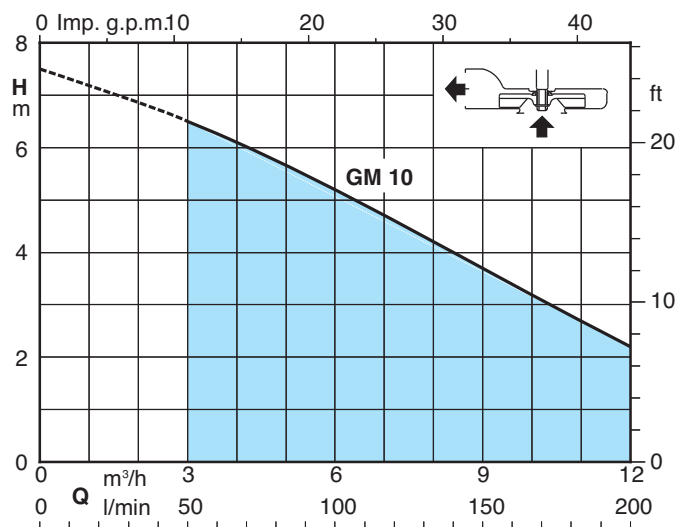
2-pole induction motor, 50Hz (n = 2900 rpm).

Single-phase 230 V +/-10% with thermal protector.

Float switch for automatic operation.

5 m cable and control box QM 6,3 with capacitor.

Liquid temperature up to 35 °C



Pumps characteristics

GEO 230-GX..



Features

Automatic collecting and lifting station - for clean water **GXR** pump series.
- for waste water **GXM** pump series.

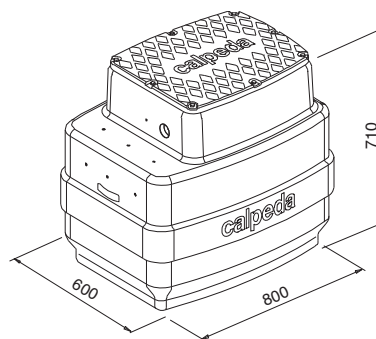
include:

1 tank capacity 230 lt
1 single-phase pump with 5 m cable and float switch
1 discharge pipe kit Ø 40 mm in PVC

ON DEMAND

1 pump with 10 m cable
1 discharge pipe kit Ø 40 mm in PVC with a ball valve and non-return ball valve
1 support kit with safety float switch and auto-supplied control panel for remote alarm with horn and flashing light
- extension 300 mm

Single-phase type	1 ~ 230 V		Q max m³/h	H max m
	kW	A		
GEO 230-GXVM 25-6	0,25	2,5	10,2	5,7
GEO 230-GXVM 25-8	0,37	3,5	12	7,8
GEO 230-GXVM 25-10	0,45	4,5	13,2	9,5
GEO 230-GXRM 9	0,25	2,5	10,2	8,3
GEO 230-GXRM 11	0,37	3,5	12	10,4
GEO 230-GXRM 13	0,45	4,5	13,2	11,7



GXVM

GXRM

GXRM, GXVM

Submersible drainage pump in chrome-nickel stainless steel, with vertical delivery port.

GXRM: with open impeller.

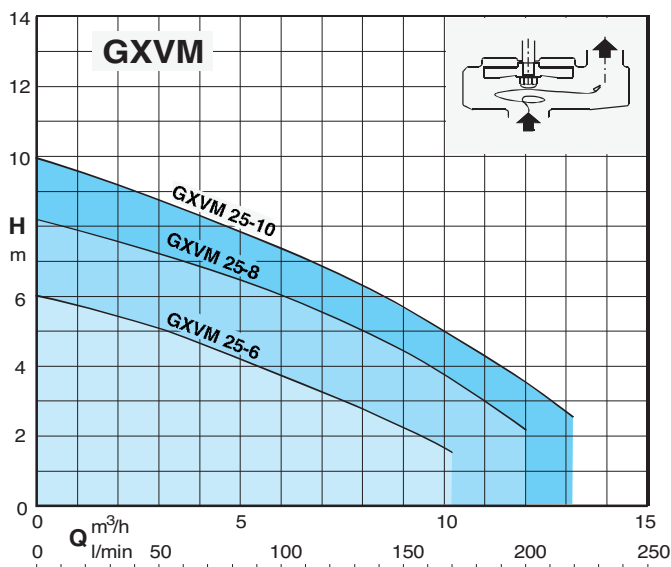
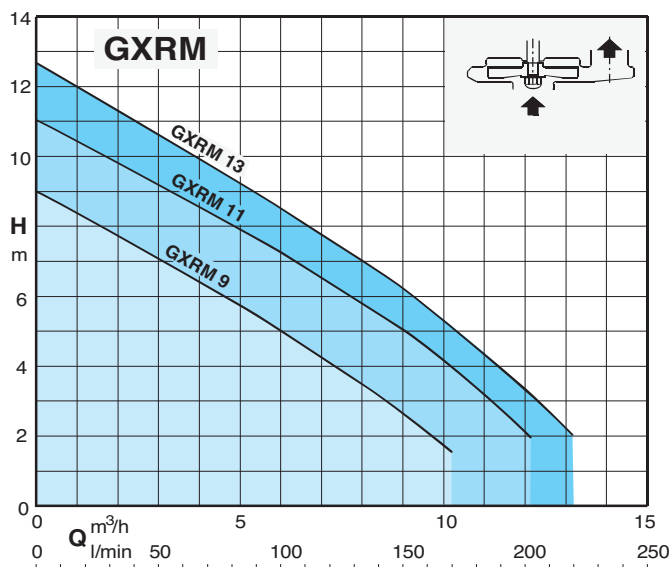
GXVM: with free-flow (vortex) impeller.

2-pole induction motor, 50Hz (n = 2900 rpm),

Single-phase 230 V +/-10% with float switch and thermal protector. Incorporated capacitor.

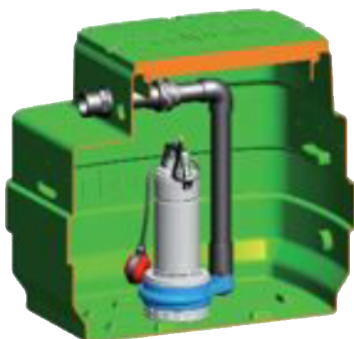
Cable length 5 m.

Liquid temperature up to 50 °C



Pumps characteristics

GEO 230-GQR..



Single-phase type	1 ~ 230 V		Q max m³/h	H max m
	kW	A		
GEO 230-GQRM 10-10	0,45	3,1	18	9,5
GEO 230-GQRM 10-12	0,55	3,6	21	11,6
GEO 230-GQRM 10-14	0,75	4,6	24	13,5
GEO 230-GQRM 10-16	0,9	6	27	15,5
GEO 230-GQRM 10-18	1,1	8	30	17,5

Three-phase type	3 ~ 400 V		Q max m³/h	H max m
	kW	A		
GEO 230-GQR 10-10	0,45	1,2	18	9,5
GEO 230-GQR 10-12	0,55	1,4	21	11,6
GEO 230-GQR 10-14	0,75	1,6	24	13,5
GEO 230-GQR 10-16	0,9	2,3	27	15,5
GEO 230-GQR 10-18	1,1	2,8	30	17,5
GEO 230-GQR 10-20	1,5	3,8	30	19,5

Features

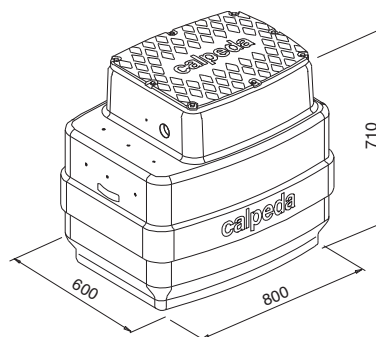
Automatic collecting and lifting station for clean water with **GQR** pump series.

include:

- 1 tank capacity 230 lt
- 1 pump - single-phase with 10 m cable and float switch
 - three-phase with 10 m cable with support and float switch kit
- 1 control box for three-phase version
- 1 discharge pipe kit Ø 50 mm in PVC

ON DEMAND

- 1 discharge pipe kit Ø 50 mm in PVC with a ball valve and non-return ball valve
- 1 support kit with safety float switch and auto-supplied control panel for remote alarm with horn and flashing light
 - extension 300 mm



GQR

Single-impeller submersible drainage pump, with vertical delivery port.

GQR: with open impeller.

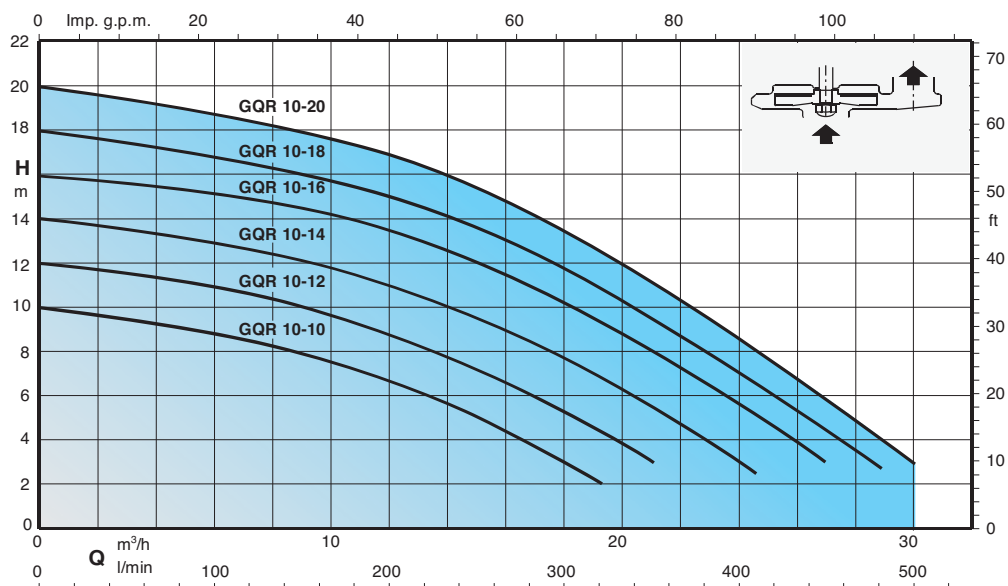
2-pole induction motor, 50Hz (n = 2900 rpm),

GQR: three-phase 400 V;

GQRM: Single-phase 230 V +/-10% with float switch and thermal protector.
Incorporated capacitor.

Cable length 10 m.

Liquid temperature up to 35 °C



Pumps characteristics

GEO 230-GX..



Single-phase type	1 ~ 230 V		Q max m³/h	H max m
	kW	A		
GEO 230-GXCM 40-10	0,55	4,6	21	9
GEO 230-GXCM 40-13	0,9	6,6	26	11,6
GEO 230-GXVM 40-7	0,55	4,6	15	6,2
GEO 230-GXVM 40-8	0,75	5,4	18	7,2
GEO 230-GXVM 40-8	0,9	6	21	8,1

Three-phase type	3 ~ 400 V		Q max m³/h	H max m
	kW	A		
GEO 230-GXC 40-10	0,55	1,6	21	9
GEO 230-GXC 40-13	0,9	2,3	26	11,6
GEO 230-GXV 40-7	0,55	1,6	15	6,2
GEO 230-GXV 40-8	0,75	2,2	18	7,2
GEO 230-GXV 40-9	0,9	2,3	21	8,1

Features

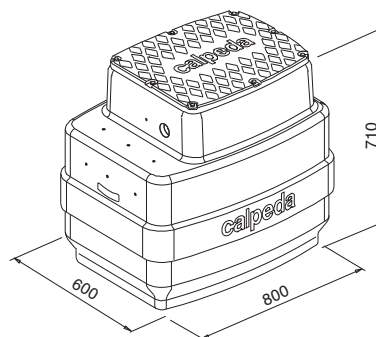
Automatic waste water collecting and lifting station GX 40 pump series.

include:

- 1 tank capacity 230 lt
- 1 pump - single-phase with 10 m cable and float switch
- three-phase with 10 m cable with support and float switch kit
- 1 control box for three-phase version
- 1 discharge pipe kit Ø 50 mm in PVC

ON DEMAND

- 1 discharge pipe kit Ø 50 mm in PVC with a ball valve and non-return ball valve
- 1 safety float switch (with support for single-phase version) and auto-supplied control panel for remote alarm with horn and flashing light
- extension 300 mm



GXC, GXV

Submersible sewage and drainage pumps in chrome-nickel stainless steel, with vertical delivery port.

GXC, with single-channel impeller.

GXV: with free-flow (vortex) impeller

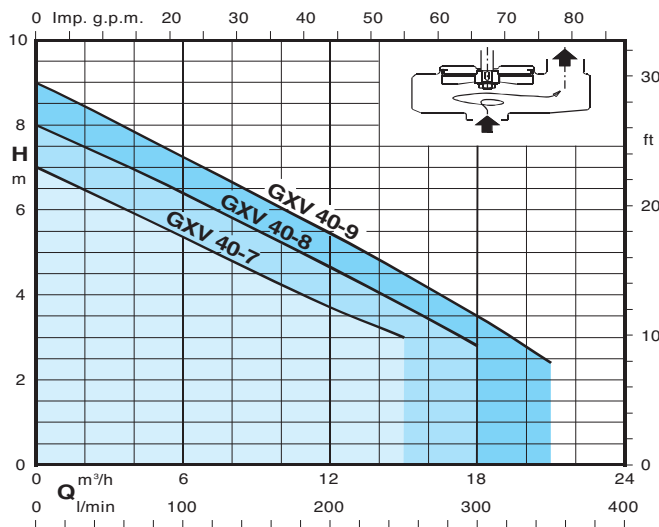
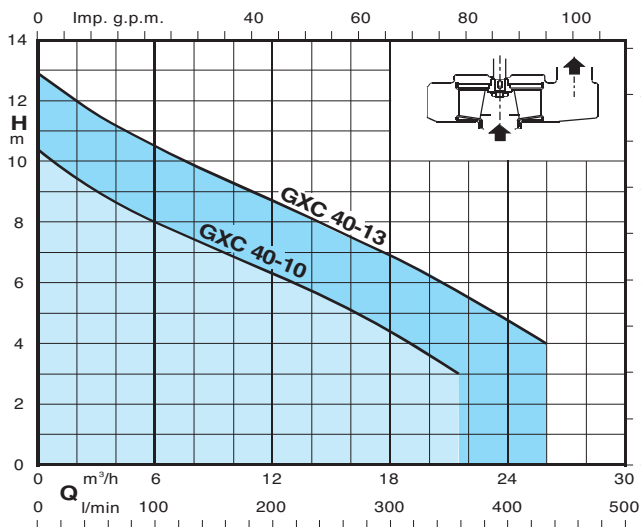
2-pole induction motor, 50Hz (n = 2900 rpm).

GXC, GXV: three-phase 400 V;

GXCM, GXVM: single-phase 230 V +/-10%, with float switch and thermal protector. Incorporated capacitor.

Cable length 10 m.

Liquid temperature up to 35 °C



Pumps characteristics



Features

Automatic sewage water collecting and lifting station with grinder pumps GMG series.

include:

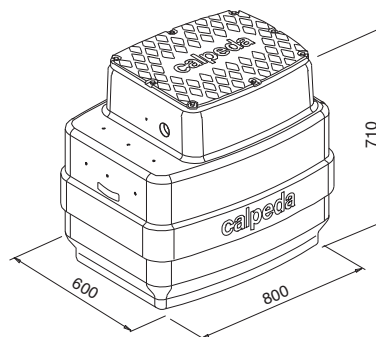
- 1 tank capacity 230 lt
- 1 pump - single-phase with 10 m cable without float switch
- three-phase with 10 m cable
- 1 support kit with float switch
- 1 control box (with capacitor for single-phase motors)
- 1 duck foot coupling kit
- 1 discharge pipe kit Ø 63 mm in PVC with a ball valve and non-return ball valve

ON DEMAND

- 1 safety float switch and auto-supplied control panel for remote alarm with horn and flashing light
- extension 300 mm

Single-phase type	1 ~ 230 V		Q max m³/h	H max m
	kW	A		
GEO 230-GMGM 6-40E/A	1,1	7,5	12	5,5
GEO 230-GMGM 6-40D/A	1,1	7,5	14	9
GEO 230-GMGM 6-40C	1,1	7,5	16	15,5
GEO 230-GMGM 6-40B	1,1	7,5	14	19,5
GEO 230-GMGM 6-40A	1,8	10	16	23,5

Three-phase type	3 ~ 400 V		Q max m³/h	H max m
	kW	A		
GEO 230-GMG 6-40B	1,4	3,5	14	19,5
GEO 230-GMG 6-40A	2,4	5	16	23,5



GMGM

Submersible pumps with high power grinder.

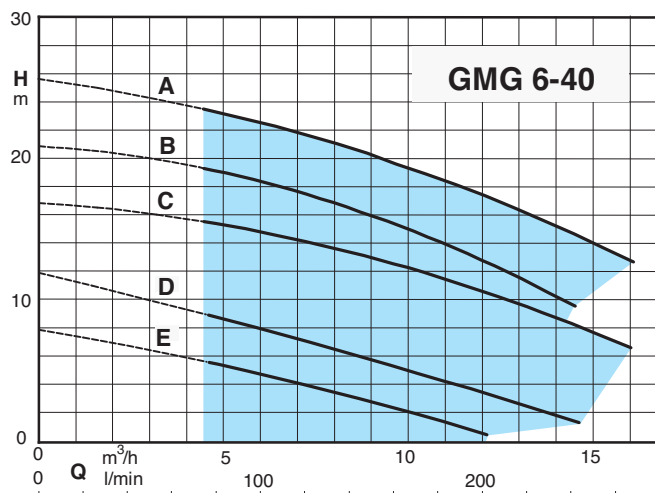
2-pole induction motor, 50Hz (n = 2900 rpm)

GMG: three-phase 400 V;

GMGM: Single-phase 230 V +/-10% complete control box with thermal protector and capacitors (without float switch).

10 m cable.

Liquid temperature up to 40 °C.



Pumps characteristics

GEO 230-GQS



Features

Automatic waste water collecting and lifting station GQS series.

include:

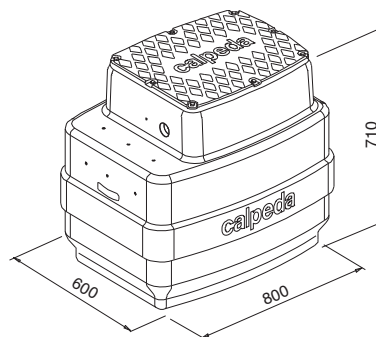
- 1 tank capacity 230 lt
- 1 pump - single-phase 10 m cable and float switch
- three-phase with 10 cable with support kit and float switch
- 1 control box for three-phase version
- 1 duck foot coupling kit
- 1 discharge pipe kit Ø 63 mm in PVC with a ball valve and non-return ball valve

ON DEMAND

- 1 safety float switch (with support for single-phase version) and auto-supplied control panel for remote alarm with horn and flashing light
- extension 300 mm

Single-phase type	1 ~ 230 V		Q max m³/h	H max m
	kW	A		
GEO 230-GQSM 50-8	0,55	4,3	24	7,4
GEO 230-GQSM 50-9	0,75	4,8	27	8,8
GEO 230-GQSM 50-11	0,9	6,6	33	10,5
GEO 230-GQSM 50-13	1,1	8,4	36	12,5

Three-phase type	3 ~ 400 V		Q max m³/h	H max m
	kW	A		
GEO 230-GQS 50-8	0,55	1,5	24	7,4
GEO 230-GQS 50-9	0,75	1,8	27	8,8
GEO 230-GQS 50-11	0,9	2,3	33	10,5
GEO 230-GQS 50-13	1,1	3	36	12,5
GEO 230-GQS 50-15	1,5	4	36	14,4



GQS

Single-impeller submersible pumps, with vertical delivery port.

GQS: with free-flow (vortex) impeller

2-pole induction motor, 50Hz (n = 2900 rpm)

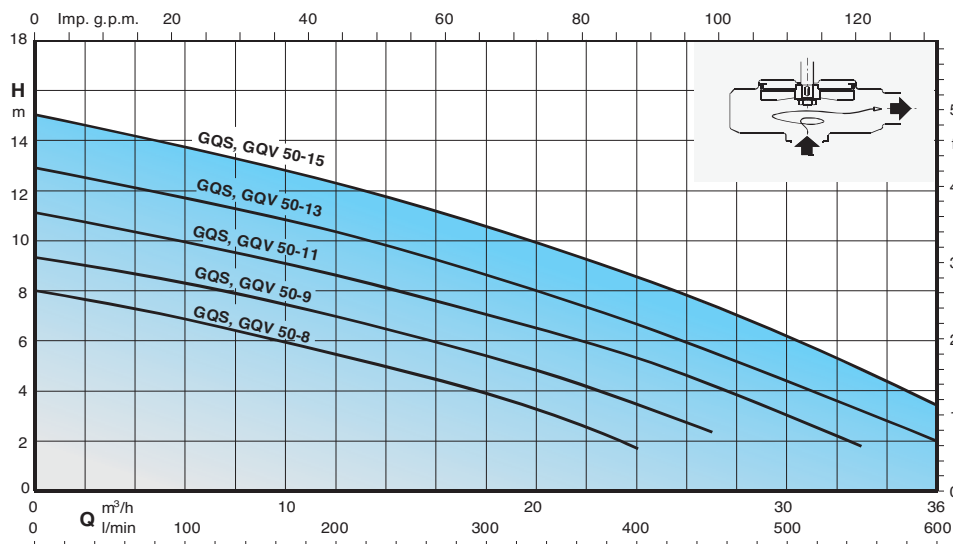
GQS: three-phase 400 V;

GQSM: single-phase 230 V +/-10%, with float switch and thermal protector.

Incorporated capacitor.

Cable length 10 m.

Liquid temperature up to 35 °C



Pumps characteristics



GEO 230-GQV

Features

Automatic waste water collecting and lifting station GQV series.

include:

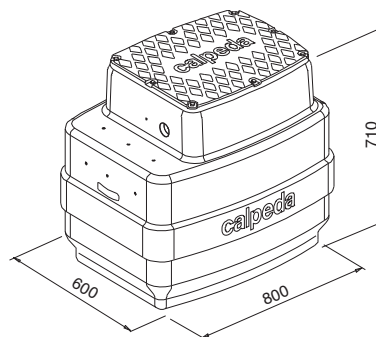
- 1 tank capacity 230 lt
- 1 pump - single-phase with 10 m cable, without float switch
- three-phase with 10 cable, without float switch
- 1 support kit with float switch
- 1 control box
- 1 duck foot coupling kit
- 1 discharge pipe kit Ø 63 mm in PVC/inox with a ball valve and non-return ball valve

ON DEMAND

- 1 safety float switch and auto-supplied control panel for remote alarm with horn and flashing light
- extension 300 mm

Single-phase type	1 ~ 230 V		Q max m³/h	H max m
	kW	A		
GEO 230-GQVM 50-8	0,55	4,3	24	7,4
GEO 230-GQVM 50-9	0,75	4,8	27	8,8
GEO 230-GQVM 50-11	0,9	6,6	33	10,5
GEO 230-GQVM 50-13	1,1	8,4	36	12,5

Three-phase type	3 ~ 400 V		Q max m³/h	H max m
	kW	A		
GEO 230-GQV 50-8	0,55	1,5	24	7,4
GEO 230-GQV 50-9	0,75	1,8	27	8,8
GEO 230-GQV 50-11	0,9	2,3	33	10,5
GEO 230-GQV 50-13	1,1	3	36	12,5
GEO 230-GQV 50-15	1,5	4	36	14,4



GQV

Single-impeller submersible pumps, with horizontal delivery port.

GQV: with free-flow (vortex) impeller

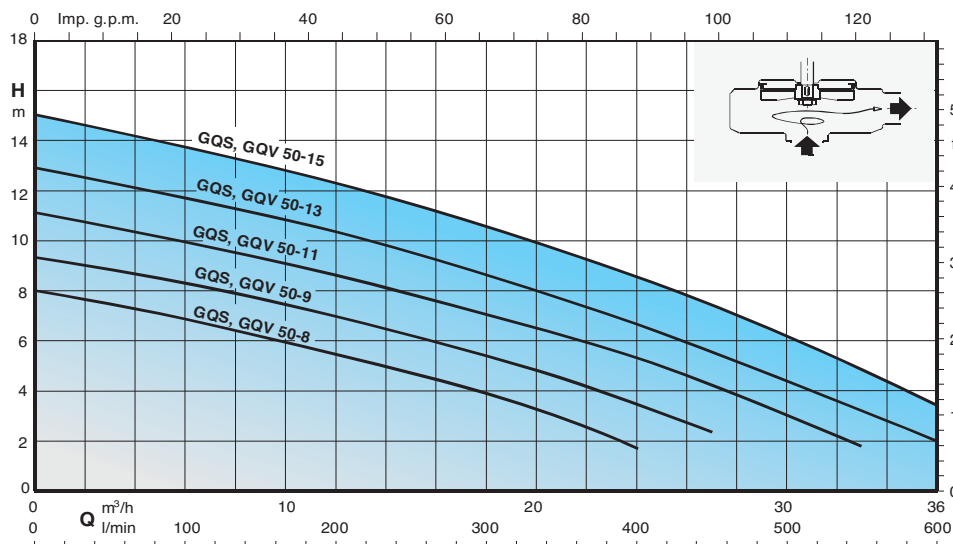
2-pole induction motor, 50Hz (n = 2900 rpm)

GQV: three-phase 400 V;

GQVM: single-phase 230 V +/-10%, with thermal protector, with built-in capacitor (without float switch).

Cable length 10 m.

Liquid temperature up to 35 °C



Pumps characteristics

GEO 230-GM..



Features

Automatic waste water collecting and lifting station GMV, GMC series.

include:

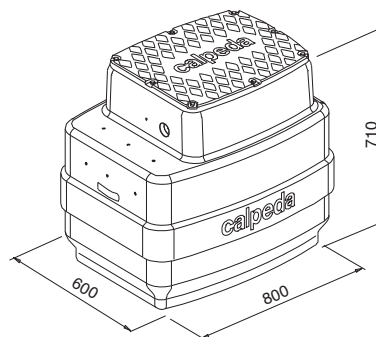
- 1 tank capacity 230 lt
- 1 pump - single-phase 10 m cable and float switch
- three-phase with 10 cable with support kit and float switch
- 1 control box for three-phase version
- 1 discharge pipe kit Ø 63 mm in PVC with a ball valve and non-return ball valve

ON DEMAND

- 1 safety float switch (with support for single-phase version) and auto-supplied control panel for remote alarm with horn and flashing light
- extension 300 mm

Single-phase type	1 ~ 230 V		Q max m³/h	H max m
	kW	A		
GEO 230-GMCM 50CE	0,75	4,5	36	9,5
GEO 230-GMCM 50BE	1,1	6,5	42	12,5
GEO 230-GMVM 50CE	0,75	4,5	31	8
GEO 230-GMVM 50BE	1,1	6,5	35	9,5

Three-phase type	3 ~ 400 V		Q max m³/h	H max m
	kW	A		
GEO 230-GMC 50CE	0,75	1,9	36	9,5
GEO 230-GMC 50BE	1,1	2,7	42	12,5
GEO 230-GMC 50AE	1,5	3,8	48	14,5
GEO 230-GMV 50CE	0,75	1,9	31	8
GEO 230-GMV 50BE	1,1	2,7	35	9,5
GEO 230-GMV 50AE	1,5	3,8	39	11,5



GMC, GMV

Submersible sewage and drainage pumps.

GMC, with single-channel impeller.

GMV, with free-flow (vortex) impeller.

2-pole induction motor, 50Hz (n = 2900 rpm)

GMV, GMC: three-phase 400 V;

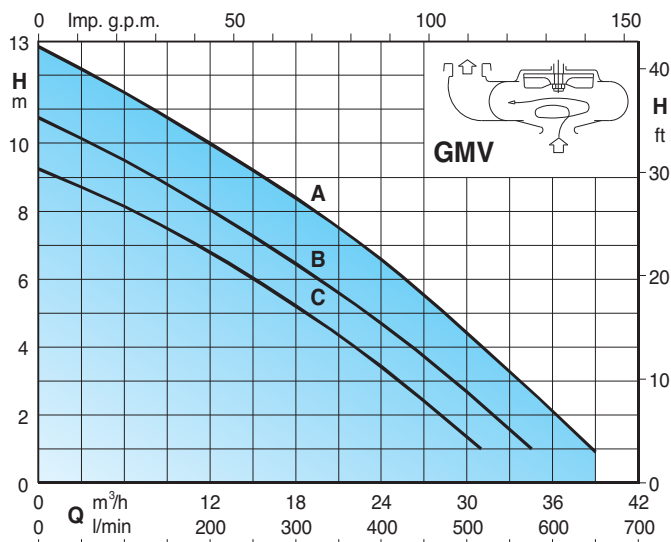
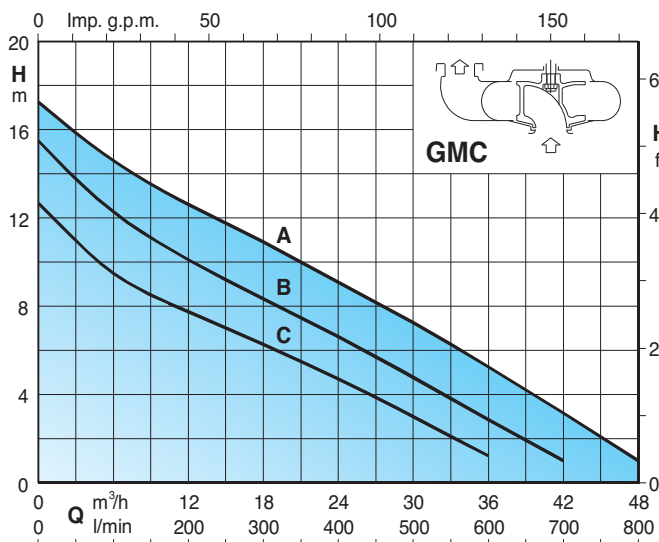
with 2 built-in thermal protectors to be connected to the control panel.

GMVM, GMVM: single-phase 230 V ± 10%, built-in thermal protector and built-in capacitor.

Float switch for automatic operation.

Cable length 10 m.

Liquid temperature up to 35 °C.



Pumps characteristics



GEO 230-GM..

Features

Automatic waste water collecting and lifting station GMV, GMC series.

include:

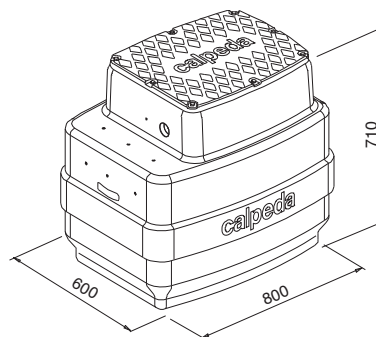
- 1 tank capacity 230 lt
- 1 pump - single-phase 10 m cable and float switch
- three-phase with 10 cable with support kit and float switch
- 1 control box for three-phase version
- 1 duck foot coupling kit
- 1 discharge pipe kit Ø 63 mm in PVC with a ball valve and non-return ball valve

ON DEMAND

- 1 safety float switch (with support for single-phase version) and auto-supplied control panel for remote alarm with horn and flashing light
- extension 300 mm

Single-phase type	1 ~ 230 V		Q max m³/h	H max m
	kW	A		
GEO 230-GMCM 50-65C	0,75	4,5	36	9,5
GEO 230-GMCM 50-65B	1,1	6,5	42	12,5
GEO 230-GMVM 50-65C	0,75	4,5	31	8
GEO 230-GMVM 50-65B	1,1	6,5	35	9,5

Three-phase type	3 ~ 400 V		Q max m³/h	H max m
	kW	A		
GEO 230-GMC 50-65C	0,75	1,9	36	9,5
GEO 230-GMC 50-65B	1,1	2,7	42	12,5
GEO 230-GMC 50-65A	1,5	3,8	48	14,5
GEO 230-GMV 50-65C	0,75	1,9	31	8
GEO 230-GMV 50-65B	1,1	2,7	35	9,5
GEO 230-GMV 50-65A	1,5	3,8	39	11,5



GMC, GMV

Submersible sewage and drainage pumps.

GMC, with single-channel impeller.

GMV, with free-flow (vortex) impeller.

2-pole induction motor, 50Hz (n = 2900 rpm)

GMV, GMC: three-phase 400 V;

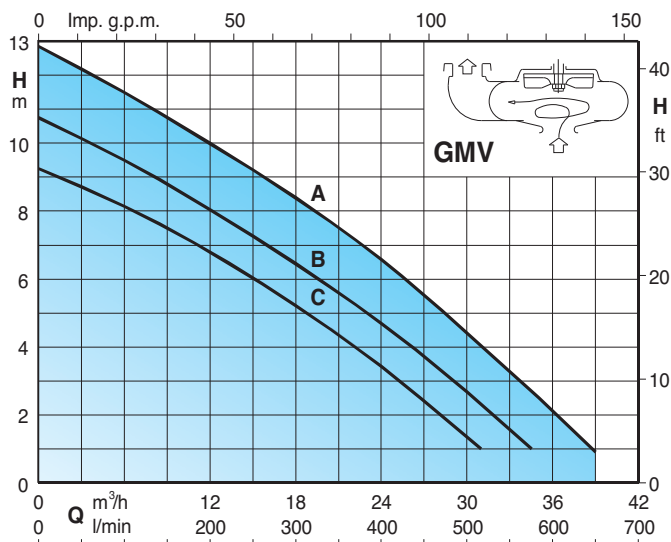
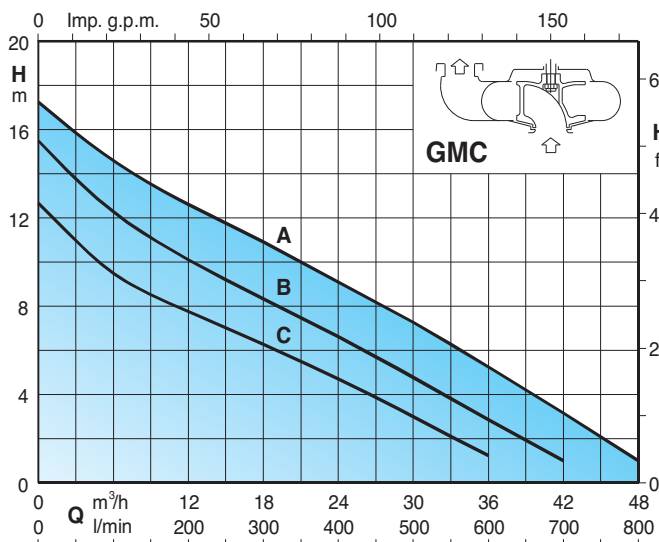
with 2 built-in thermal protectors to be connected to the control panel.

GMVM, GMVM: single-phase 230 V ± 10%, built-in thermal protector and built-in capacitor.

Float switch for automatic operation.

Cable length 10 m.

Liquid temperature up to 35 °C.



Pumps characteristics

GEO 500-GM 10



Features

Automatic clear water collecting and lifting station with GM 10 pump series.

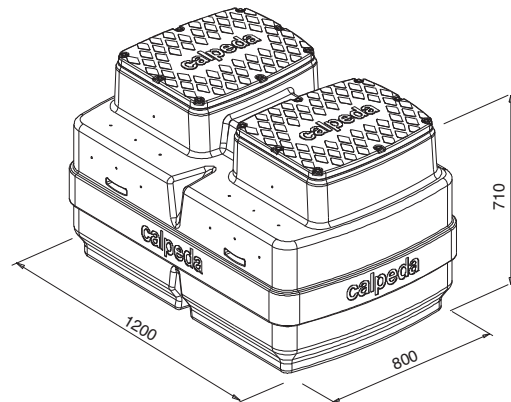
include:

- 1 tank capacity 500 lt
- 2 single-phase pump with 5 m cable without float switch
- 1 support kit with 2 float switch
- 1 control box
- 2 discharge pipe kit Ø 40 mm in PVC

ON DEMAND

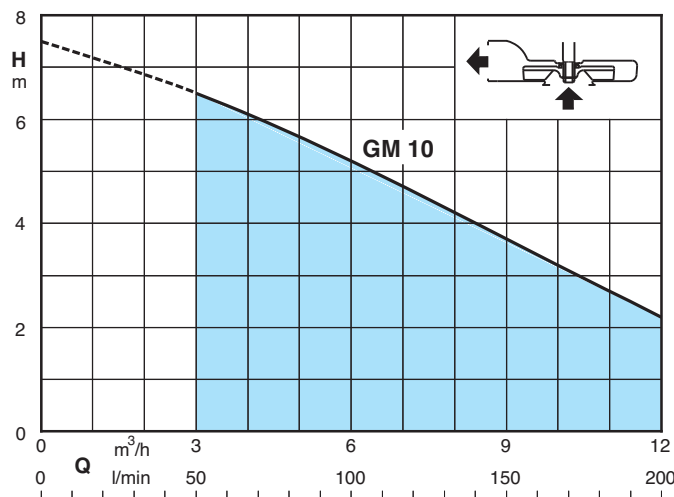
- 2 single-phase pumps with 10 m cable, without float switch
- 2 discharge pipe kit Ø 40 mm in PVC with a ball valve and non-return ball valve
- 1 safety float switch and auto-supplied control panel for remote alarm with horn and flashing light
- extension 300 mm

Single-phase type	1 ~ 230 V		Q max m³/h	H max m
	kW	A		
GEO 500-2GM 10	0,3x2	1,75x2	12x2	6,5



GM 10

Submersible drainage pump constructed from composite polymers.
 Shaft of chrome steel AISI 430.
 2-pole induction motor, 50Hz (n = 2900 rpm).
 Single-phase 230 V +/-10% with thermal protector (without float switch).
 5 m cable and control box with capacitor.
 Liquid temperature up to 35 °C



Pumps characteristics

GEO 500-2GX..



Single-phase type	1 ~ 230 V		Q max m³/h	H max m
	kW	A		
GEO 500-2GXVM 25-6	0,25x2	2,5x2	10,2x2	5,7
GEO 500-2GXVM 25-8	0,37x2	3,5x2	12x2	7,8
GEO 500-2GXVM 25-10	0,45x2	4,5x2	13,2x2	9,5
GEO 500-2GXRM 9	0,25x2	2,5x2	10,2x2	8,3
GEO 500-2GXRM 11	0,37x2	3,5x2	12x2	10,4
GEO 500-2GXRM 13	0,45x2	4,5x2	13,2x2	11,7

Features

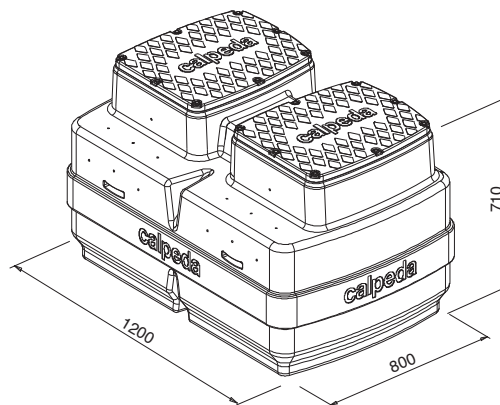
Automatic collecting and lifting station - for clean water with **GXR** pump series
- for waste water with **GXV** pump series.

include:

- 1 tank capacity 500 lt
- 2 single-phase pump with 5 m cable without float switch
- 1 support kit with 2 float switch
- 1 control box
- 2 discharge pipe kit Ø 40 mm in PVC

ON DEMAND

- 2 single-phase pumps with 10 m cable, without float switch
- 2 discharge pipe kit Ø 40 mm in PVC with a ball valve and non-return ball valve
- 1 safety float switch and auto-supplied control panel for remote alarm with horn and flashing light
- extension 300 mm



GXR

GXV

GXR, GXV

Submersible drainage pump in chrome-nickel stainless steel, with vertical delivery port.

GXR: with open impeller.

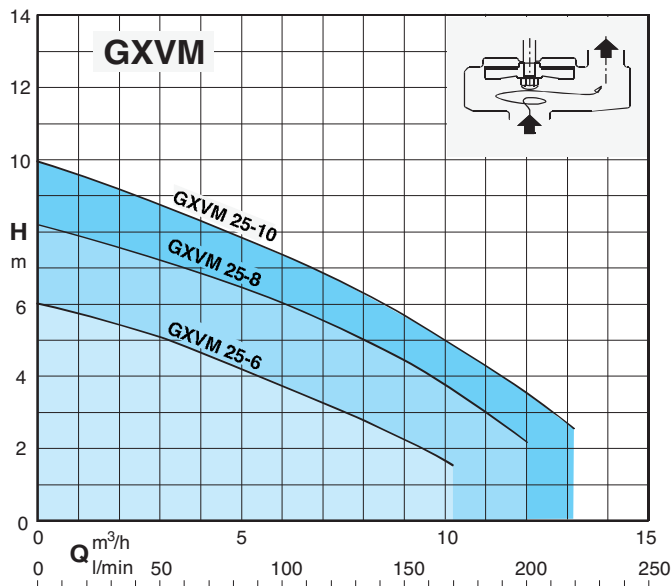
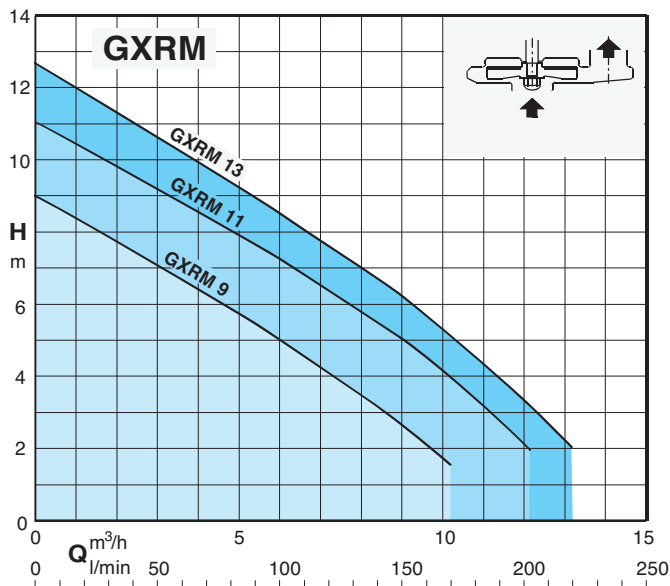
GXV: with free-flow (vortex) impeller.

2-pole induction motor, 50Hz (n = 2900 rpm),

Single-phase 230 V +/-10% with thermal protector. Incorporated capacitor.

Cable length 5 m.

Liquid temperature up to 50 °C



Pumps characteristics

GEO 500-2GQR



Features

Automatic collecting and lifting station for clean water with **GQR** pump series

include:

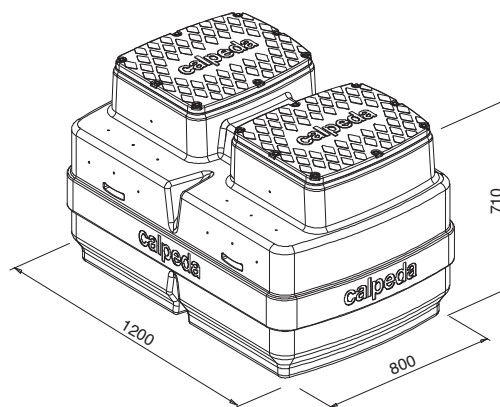
- 1 tank capacity 500 lt
- 2 pumps - single-phase with 10 m cable without float switch
- three-phase with 10 m cable
- 1 support kit with 2 float switch
- 1 control box
- 2 discharge pipe kit Ø 50 mm in PVC

ON DEMAND

- 2 discharge pipe kit Ø 50 mm in PVC with a ball valve and non-return ball valve
- 1 safety float switch and auto-supplied control panel for remote alarm with horn and flashing light
- extension 300 mm

Single-phase type	1 ~ 230 V		Q max	H max
	kW	A	m³/h	m
GEO 500-2GQRM 10-10	0,45x2	3,1x2	18x2	9,5
GEO 500-2GQRM 10-12	0,55x2	3,6x2	21x2	11,6
GEO 500-2GQRM 10-14	0,75x2	4,6x2	24x2	13,5
GEO 500-2GQRM 10-16	0,9x2	6x2	27x2	15,5
GEO 500-2GQRM 10-18	1,1x2	8x2	30x2	17,5

Three-phase type	3 ~ 400 V		Q max	H max
	kW	A	m³/h	m
GEO 500-2GQR 10-10	0,45x2	1,2x2	18x2	9,5
GEO 500-2GQR 10-12	0,55x2	1,4x2	21x2	11,6
GEO 500-2GQR 10-14	0,75x2	1,6x2	24x2	13,5
GEO 500-2GQR 10-16	0,9x2	2,3x2	27x2	15,5
GEO 500-2GQR 10-18	1,1x2	2,8x2	30x2	17,5
GEO 500-2GQR 10-20	1,5x2	3,8x2	30x2	19,5



GQR

Single-impeller submersible drainage pump, with vertical delivery port.

GQR: with open impeller.

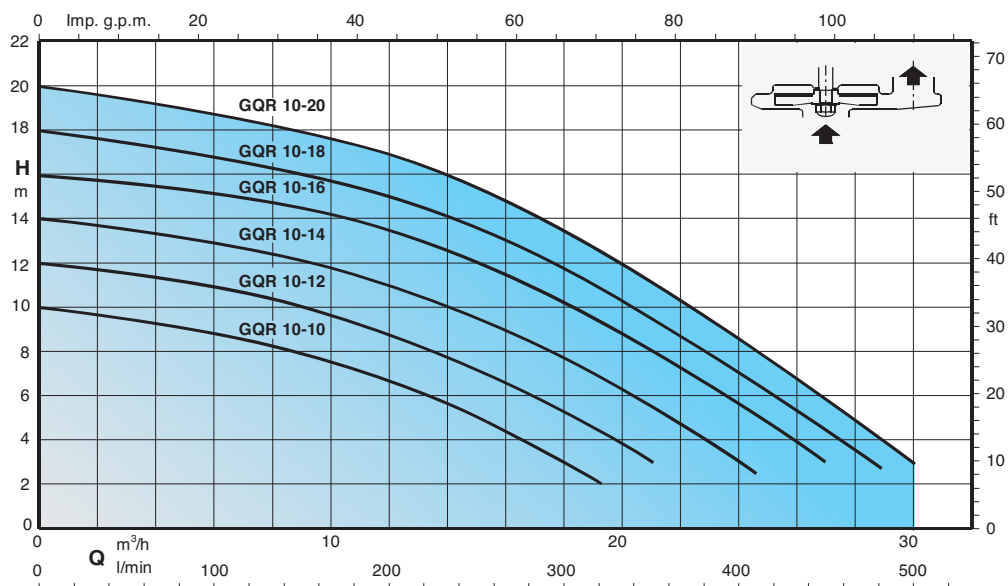
2-pole induction motor, 50Hz (n = 2900 rpm),

GQR: three-phase 400 V;

GQRM: Single-phase 230 V +/-10% with thermal protector and incorporated capacitor (without float switch).

Cable length 10 m.

Liquid temperature up to 35 °C.



Pumps characteristics

GEO 500-2GX..



Features

Automatic waste water collecting and lifting station with GX 40 pump series.

include:

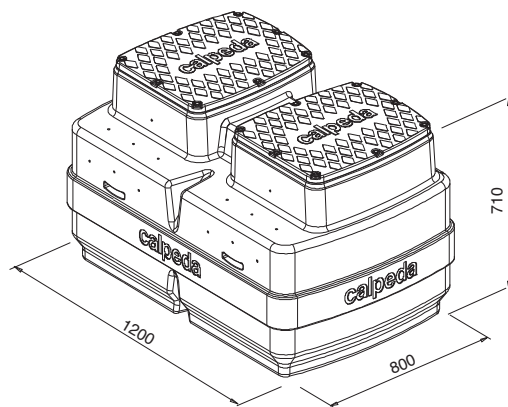
- 1 tank capacity 500 lt
- 2 pumps - single-phase with 10 m cable without float switch
- three-phase with 10 m cable
- 1 support kit with 2 float switch
- 1 electric control box
- 2 discharge pipe kit Ø 50 mm in PVC

ON DEMAND

- 2 discharge pipe kit Ø 50 mm in PVC with a ball valve and non-return ball valve
- 1 safety float switch and auto-supplied control panel for remote alarm with horn and flashing light
- extension 300 mm

Single-phase type	1 ~ 230 V		Q max m³/h	H max m
	kW	A		
GEO 500-2GXCM 40-10	0,55x2	4,6x2	21x2	9
GEO 500-2GXCM 40-13	0,9x2	6,6x2	26x2	11,6
GEO 500-2GXVM 40-7	0,55x2	4,6x2	15x2	6,2
GEO 500-2GXVM 40-8	0,75x2	5,4x2	18x2	7,2
GEO 500-2GXVM 40-8	0,9x2	6x2	21x2	8,1

Three-phase type	3 ~ 400 V		Q max m³/h	H max m
	kW	A		
GEO 500-2GXC 40-10	0,55x2	1,6x2	21x2	9
GEO 500-2GXC 40-13	0,9x2	2,3x2	26x2	11,6
GEO 500-2GXV 40-7	0,55x2	1,6x2	15x2	6,2
GEO 500-2GXV 40-8	0,75x2	2,2x2	18x2	7,2
GEO 500-2GXV 40-9	0,9x2	2,3x2	21x2	8,1



GXC, GXV

Submersible sewage and drainage pumps in chrome-nickel stainless steel, with vertical delivery port.

GXC, with single-channel impeller.

GXV: with free-flow (vortex) impeller

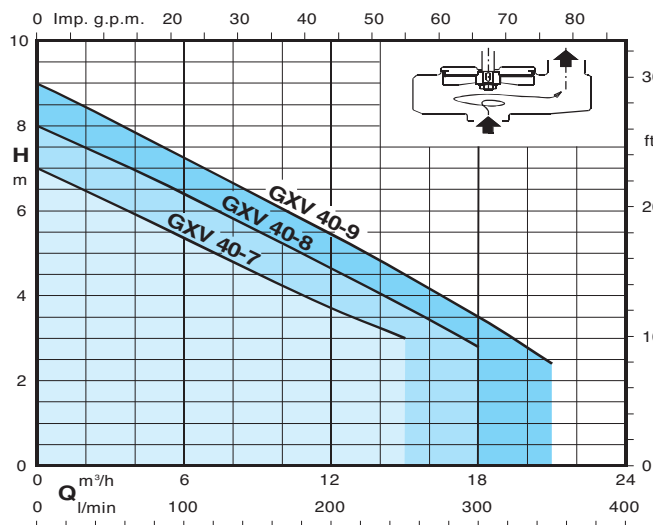
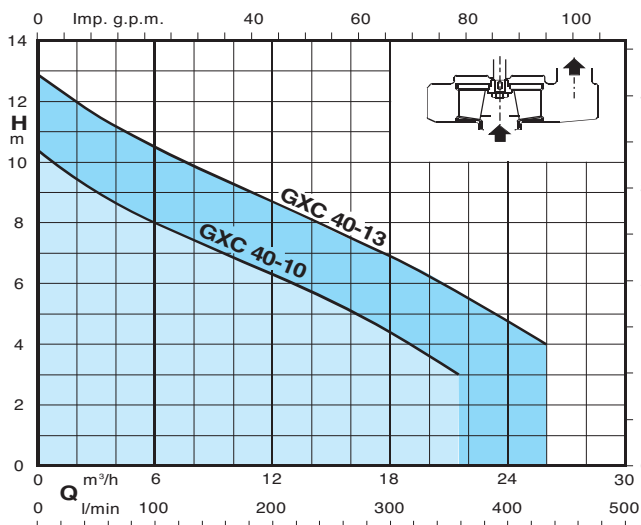
2-pole induction motor, 50Hz (n = 2900 rpm).

GXC, GXV: three-phase 400 V;

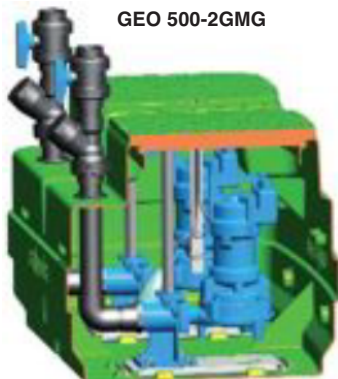
GXCM, GXVM: single-phase 230 V +/-10%, with thermal protector and incorporated capacitor (without float switch).

Cable length 10 m.

Liquid temperature up to 35 °C



Pumps characteristics



GEO 500-2GMG

Features

Automatic sewage water collecting and lifting station with grinder pumps GMG series.

include:

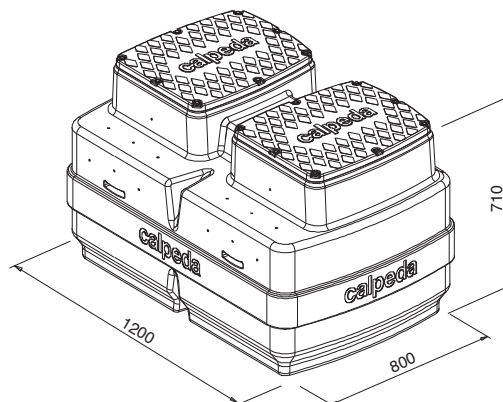
- 1 tank capacity 500 lt
- 2 pumps - single-phase 10 m cable without float switch
- three-phase with 10 cable
- 1 support kit with 2 float switch
- 1 electric control box (with capacitor for single-phase motors)
- 2 duck foot coupling kit
- 2 discharge pipe kit Ø 63 mm in PVC with a ball valve and non-return ball valve

ON DEMAND

- 1 safety float switch and auto-supplied control panel for remote alarm with horn and flashing light
- extension 300 mm

Single-phase type	1 ~ 230 V		Q max m³/h	H max m
	kW	A		
GEO 500-2GMGM 6-40E/A	1,1x2	7,5x2	12x2	5,5
GEO 500-2GMGM 6-40D/A	1,1x2	7,5x2	14x2	9
GEO 500-2GMGM 6-40C	1,1x2	7,5x2	16x2	15,5
GEO 500-2GMGM 6-40B	1,1x2	7,5x2	14x2	19,5
GEO 500-2GMGM 6-40A	1,8x2	10x2	16x2	23,5

Three-phase type	3 ~ 400 V		Q max m³/h	H max m
	kW	A		
GEO 500-2GMGM 6-40B	1,4x2	3,5x2	14x2	19,5
GEO 500-2GMGM 6-40A	2,4x2	5x2	16x2	23,5



GMGM

Submersible pumps with high power grinder.

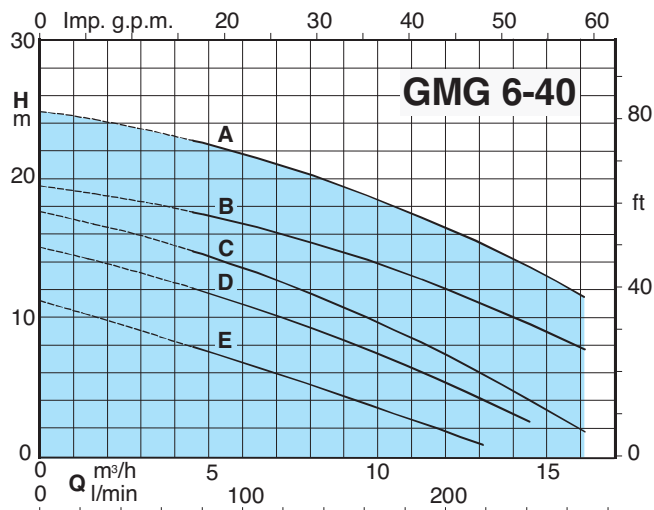
2-pole induction motor, 50Hz (n = 2900 rpm)

GMG: three-phase 400 V;

GMGM: Single-phase 230 V +/-10% complete control box with thermal protector and capacitors (without float switch).

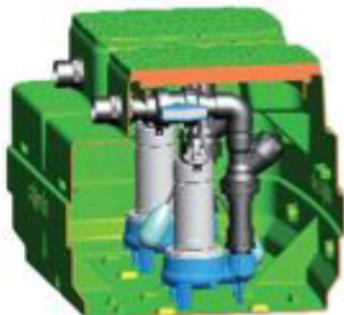
10 m cable.

Liquid temperature up to 40 °C.



Pumps characteristics

GEO 500-2GQS



Features

Automatic waste water collecting and lifting station GQS series.

include:

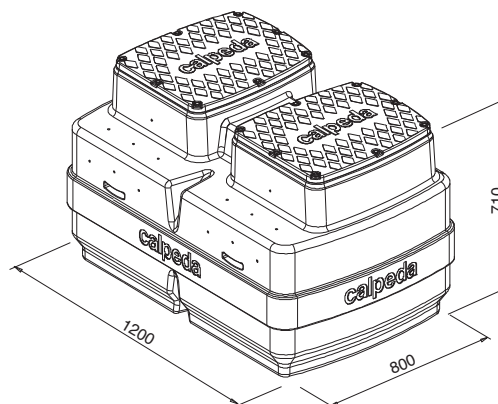
- 1 tank capacity 500 lt
- 2 pumps - single-phase 10 m cable without float switch
- three-phase with 10 cable
- 1 support kit with 2 float switch
- 1 control box for three-phase version
- 2 discharge pipe kit Ø 63 mm in PVC with a ball valve and non-return ball valve

ON DEMAND

- 1 safety float switch and auto-supplied control panel for remote alarm with horn and flashing light
- extension 300 mm

Single-phase type	1 ~ 230 V		Q max m³/h	H max m
	kW	A		
GEO 500-2GQSM 50-8	0,55x2	4,3x2	24x2	7,4
GEO 500-2GQSM 50-9	0,75x2	4,8x2	27x2	8,8
GEO 500-2GQSM 50-11	0,9x2	6,6x2	33x2	10,5
GEO 500-2GQSM 50-13	1,1x2	8,4x2	36x2	12,5

Three-phase type	3 ~ 400 V		Q max m³/h	H max m
	kW	A		
GEO 500-2GQV 50-8	0,55x2	1,5x2	24x2	7,4
GEO 500-2GQS 50-9	0,75x2	1,8x2	27x2	8,8
GEO 500-2GQS 50-11	0,9x2	2,3x2	33x2	10,5
GEO 500-2GQS 50-13	1,1x2	3x2	36x2	12,5
GEO 500-2GQS 50-15	1,5x2	4x2	36x2	14,4



GQS

Single-impeller submersible pumps, with vertical delivery port.

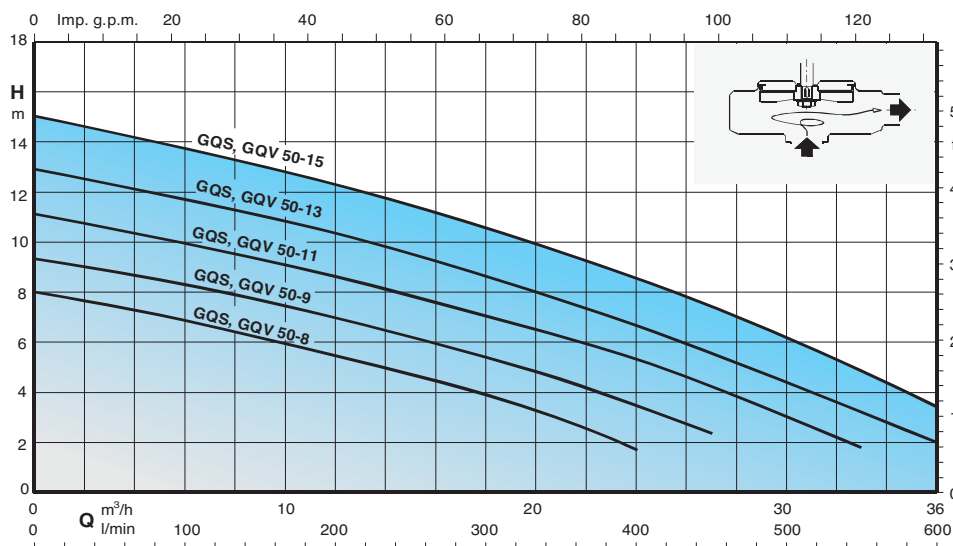
GQS: with free-flow (vortex) impeller

2-pole induction motor, 50Hz (n = 2900 rpm)

GQS: three-phase 400 V;

GQSM: single-phase 230 V +/-10%, with thermal protector, with built-in capacitor (without float switch). 10 m cable.

Liquid temperature up to 35 °C



Pumps characteristics



GEO 500-2GQV

Features

Automatic waste water collecting and lifting station with GQV pump series.

include:

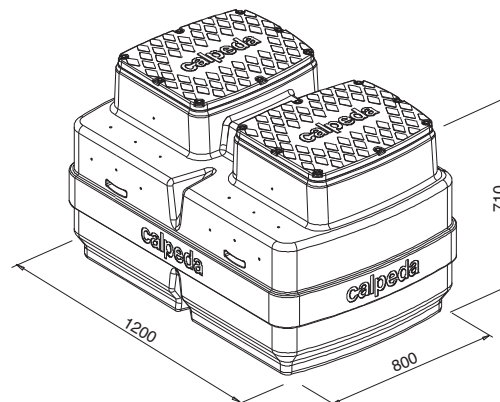
- 1 tank capacity 500 lt
- 2 pumps - single-phase 10 m cable without float switch
- three-phase with 10 cable
- 1 support kit with 2 float switch
- 1 control box
- 2 duck foot coupling kit
- 2 discharge pipe kit Ø 63 mm in PVC with a ball valve and non-return ball valve

ON DEMAND

- 1 safety float switch and auto-supplied control panel for remote alarm with horn and flashing light
- extension 300 mm

Single-phase type	1 ~ 230 V		Q max m³/h	H max m
	kW	A		
GEO 500-2GQVM 50-8	0,55x2	4,3x2	24x2	7,4
GEO 500-2GQVM 50-9	0,75x2	4,8x2	27x2	8,8
GEO 500-2GQVM 50-11	0,9x2	6,6x2	33x2	10,5
GEO 500-2GQVM 50-13	1,1x2	8,4x2	36x2	12,5

Three-phase type	3 ~ 400 V		Q max m³/h	H max m
	kW	A		
GEO 500-2GQV 50-8	0,55x2	1,5x2	24x2	7,4
GEO 500-2GQV 50-9	0,75x2	1,8x2	27x2	8,8
GEO 500-2GQV 50-11	0,9x2	2,3x2	33x2	10,5
GEO 500-2GQV 50-13	1,1x2	3x2	36x2	12,5
GEO 500-2GQV 50-15	1,5x2	4x2	36x2	14,4



GQV

Single-impeller submersible pumps, with horizontal delivery port.

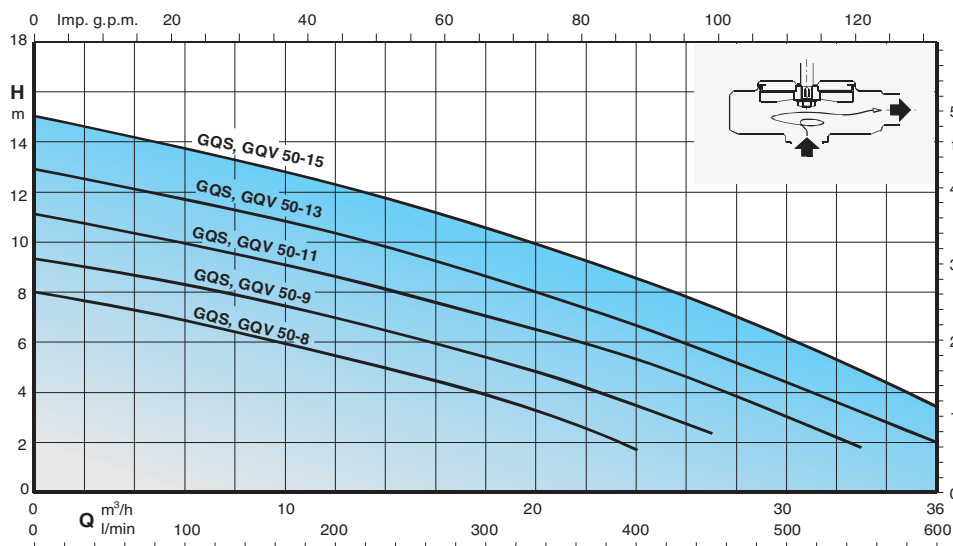
GQV: with free-flow (vortex) impeller

2-pole induction motor, 50Hz (n = 2900 rpm)

GQV: three-phase 400 V;

GQVM: single-phase 230 V +/-10%, with thermal protector, with built-in capacitor (without float switch).
10 m cable.

Liquid temperature up to 35 °C



Pumps characteristics

GEO 500-2GM..



Features

Automatic waste water collecting and lifting station GMV, GMC series.

include:

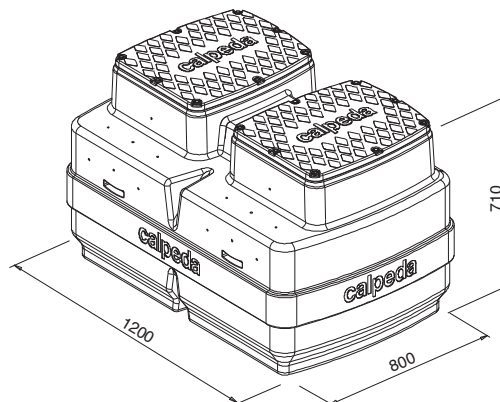
- 1 tank capacity 500 lt
- 2 pumps - single-phase 10 m cable without float switch
- three-phase with 10 cable
- 1 support kit with 2 float switch
- 1 control box for three-phase version
- 2 discharge pipe kit Ø 63 mm in PVC with a ball valve and non-return ball valve

ON DEMAND

- 1 safety float switch and auto-supplied control panel for remote alarm with horn and flashing light
- extension 300 mm

Single-phase type	1 ~ 230 V		Q max m³/h	H max m
	kW	A		
GEO 500-2GMCM 50CE	0,75x2	4,5x2	36x2	9,5
GEO 500-2GMCM 50BE	1,1x2	6,5x2	42x2	12,5
GEO 500-2GMVM 50CE	0,75x2	4,5x2	31x2	8
GEO 500-2GMVM 50BE	1,1x2	6,5x2	35x2	9,5

Three-phase type	3 ~ 400 V		Q max m³/h	H max m
	kW	A		
GEO 500-2GMC 50CE	0,75x2	1,9x2	36x2	9,5
GEO 500-2GMC 50BE	1,1x2	2,7x2	42x2	12,5
GEO 500-2GMC 50AE	1,5x2	3,8x2	48x2	14,5
GEO 500-2GMV 50CE	0,75x2	1,9x2	31x2	8
GEO 500-2GMV 50BE	1,1x2	2,7x2	35x2	9,5
GEO 500-2GMV 50AE	1,5x2	3,8x2	39x2	11,5



GMC, GMV

Submersible sewage and drainage pumps.

GMC, with single-channel impeller.

GMV, with free-flow (vortex) impeller.

2-pole induction motor, 50Hz (n = 2900 rpm)

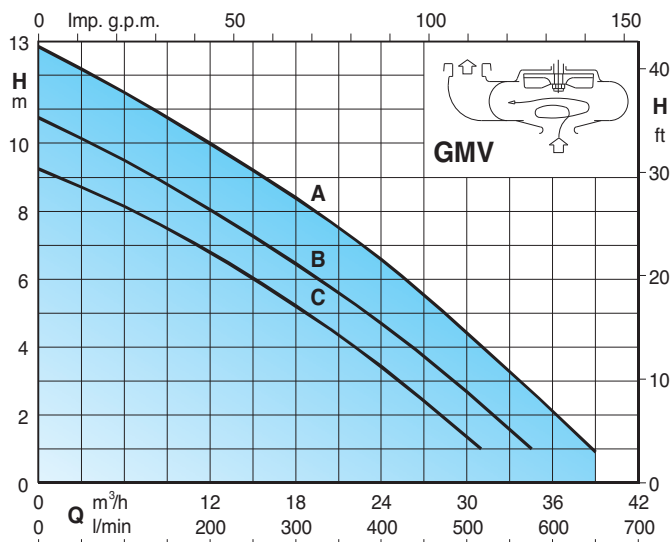
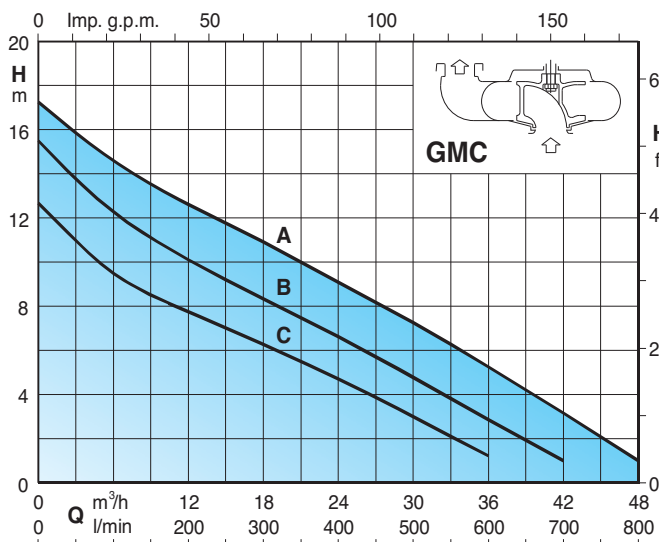
GMV, GMC: three-phase 400 V;

with 2 built-in thermal protectors to be connected to the control panel.

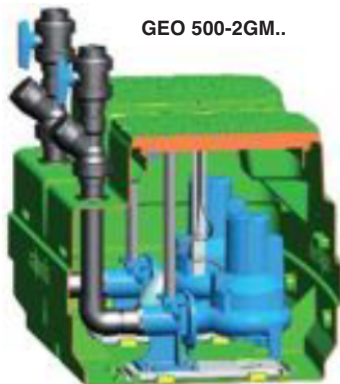
GMVM, GMVM: single-phase 230 V ± 10%, built-in thermal protector and built-in capacitor. (without float switch)

Cable length 10 m.

Liquid temperature up to 35 °C.



Pumps characteristics



GEO 500-2GM..

Features

Automatic waste water collecting and lifting station GMV, GMC series.

include:

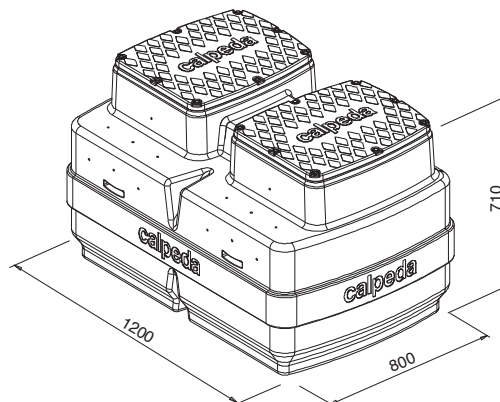
- 1 tank capacity 500 lt
- 2 pumps - single-phase 10 m cable without float switch
- three-phase with 10 cable
- 1 support kit with 2 float switch
- 1 control box for three-phase version
- 2 duck foot coupling kit
- 2 discharge pipe kit Ø 63 mm in PVC with a ball valve and non-return ball valve

ON DEMAND

- 1 safety float switch and auto-supplied control panel for remote alarm with horn and flashing light
- extension 300 mm

Single-phase type	1 ~ 230 V		Q max m³/h	H max m
	kW	A		
GEO 500-2GMCM 50-65C	0,75x2	4,5x2	36x2	9,5
GEO 500-2GMCM 50-65B	1,1x2	6,5x2	42x2	12,5
GEO 500-2GMVM 50-65C	0,75x2	4,5x2	31x2	8
GEO 500-2GMVM 50-65B	1,1x2	6,5x2	35x2	9,5

Three-phase type	3 ~ 400 V		Q max m³/h	H max m
	kW	A		
GEO 500-2GMC 50-65C	0,75x2	1,9x2	36x2	9,5
GEO 500-2GMC 50-65B	1,1x2	2,7x2	42x2	12,5
GEO 500-2GMC 50-65A	1,5x2	3,8x2	48x2	14,5
GEO 500-2GMV 50-65C	0,75x2	1,9x2	31x2	8
GEO 500-2GMV 50-65B	1,1x2	2,7x2	35x2	9,5
GEO 500-2GMV 50-65A	1,5x2	3,8x2	39x2	11,5



GMC, GMV

Submersible sewage and drainage pumps.

GMC, with single-channel impeller.

GMV, with free-flow (vortex) impeller.

2-pole induction motor, 50Hz (n = 2900 rpm)

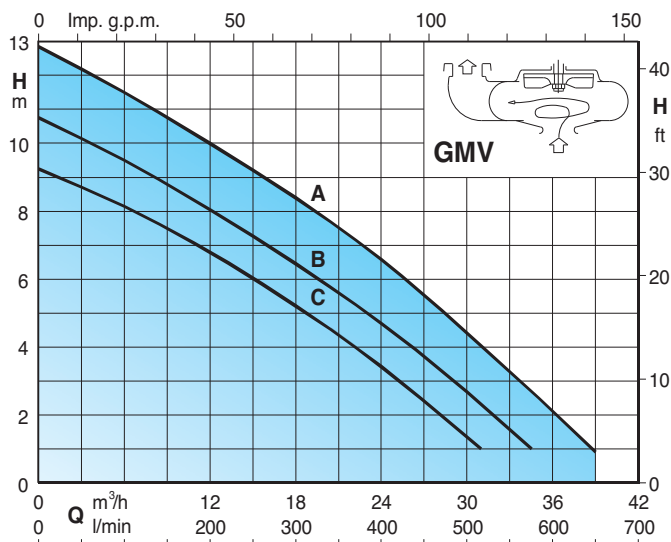
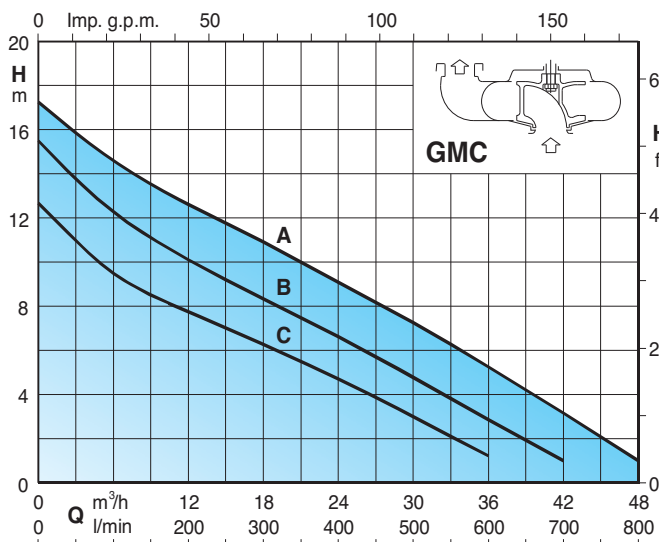
GMV, GMC: three-phase 400 V;

with 2 built-in thermal protectors to be connected to the control panel.

GMVM, GMVM: single-phase 230 V ± 10%, built-in thermal protector and built-in capacitor. (without float switch)

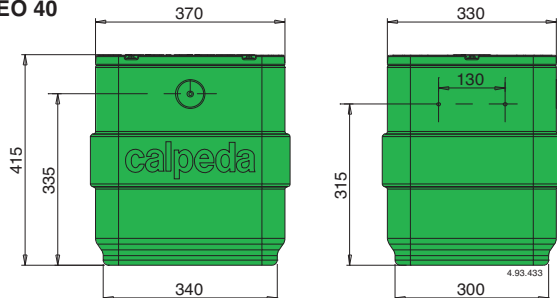
Cable length 10 m.

Liquid temperature up to 35 °C.

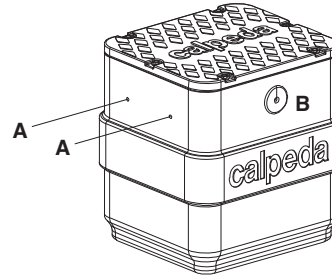


Dimensions and weights

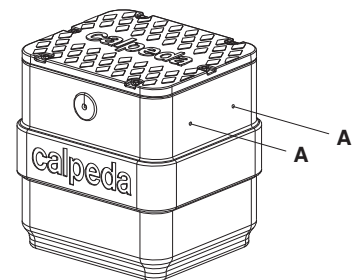
GEO 40



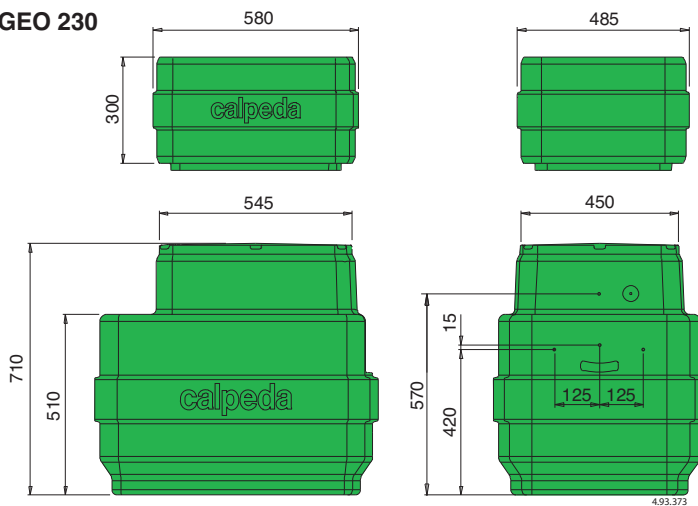
Tank
kg.6



- A) Arrangement for :
 Ø 40 mm inlet
 Ø 40 mm outlet
 Ø 25 mm relief
- B) Cable passage with Shuko plug

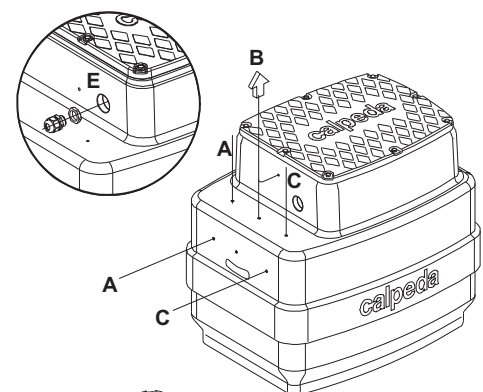


GEO 230

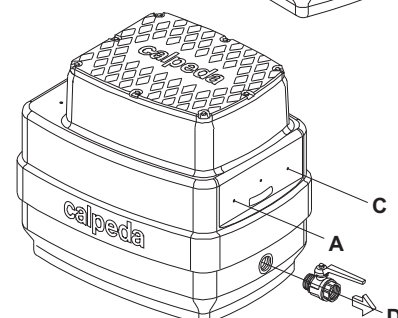


Extention
kg.4,5

Tank
kg.16



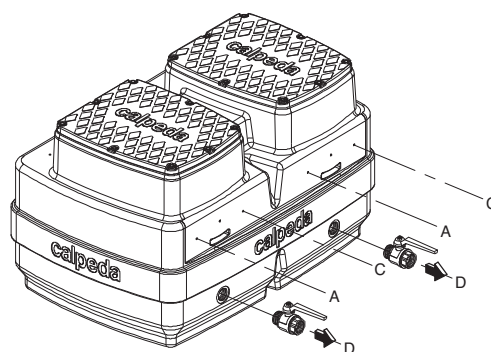
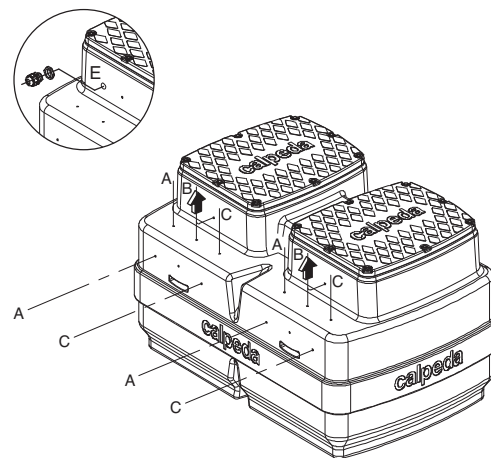
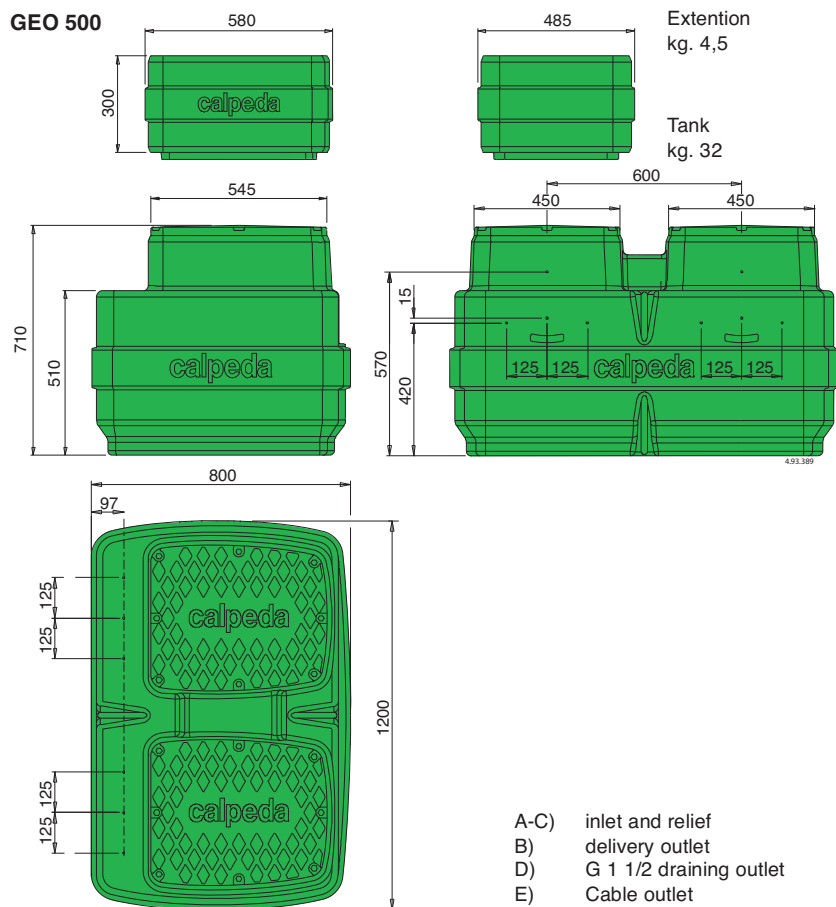
36



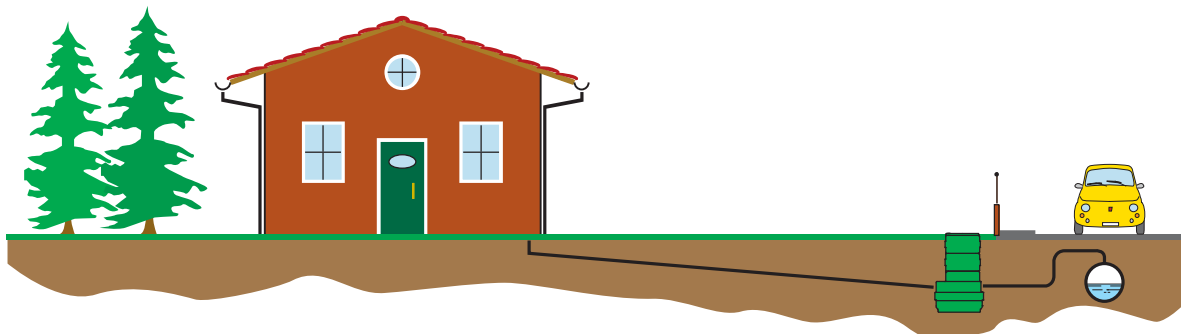
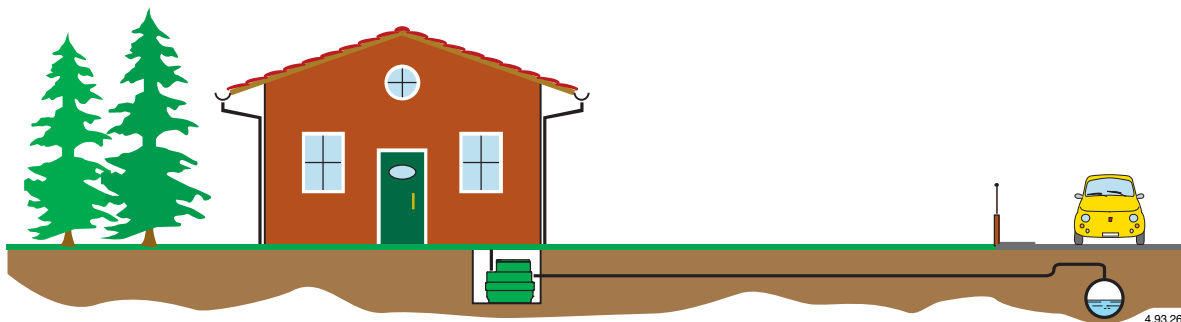
- A-C) inlet and relief
 delivery outlet
- B) G 1 1/2 draining outlet
- E) Cable outlet

Dimensions and weights

GEO 500



Installation examples



LIFTING STATION SIZING

Normally the domestic waste water flows by gravity into the mains sewage collectors.

If there are underground rooms with discharge positions below the sewage main, a lifting station with one or more pumps may be required.

It is necessary to remember that the UNI-EN 12056-4 standard allows rainwater to be pumped to the sewage main only in exceptional cases.

To sizing a lifting station pump it is necessary to calculate the flow Q_{tot} and the Head h_{mt} necessary for the water drainage.

FLOW CALCULATION

The flow of the lifting pumps can be calculated using Table 1, according to the number of people using the building and the location of the building. It is easy to calculate the flow Q_r of the sewage water.

The Q_r value is already adjusted by a coefficient that includes the peak hours, when the water consumption is higher.

The lifting systems of waste water are usually separated from the rainwater system. In case of a mixed system is required to sum the flow Q_m of the rainwater of the Table 2 with the flow Q_r of the Table 1.

The table indicates the rainwater flow Q_m as a function of the exposed surface to rainfall, it varies according to the capacity of the surface to absorb rain water (Table 3).

The total flow of the pump or pumps is:

$$Q_{tot} = Q_r + Q_m$$

HEAD CALCULATION

To calculate the head h_{mt} it is necessary to add the geodetic head existing between the fluid levels with the head losses from internal friction created by the flow of the fluid in the hydraulic pipes and fittings (Figure 1).

After the choice of the discharge pipe diameter, such that the flow speed it is not lower than 0,7 m/s (to avoid deposits) and higher than 2,3 m/s, it is possible to determine the distributed head loss H_d and concentrated head loss H_v H_c , due to valves and curves (Table 4).

The sum of the head losses DPC is:

$$\Delta p_c = H_d + \sum H_v + \sum H_c$$

The total head h_{mt} is calculated as:

$$H_{mt} = H_g + \Delta p_c$$

- 1) Water arriving from sinks discharge, toilets, showers, washing machines etc.
- 2) Excluding consumption from industrial processes.
- 3) The unit flow reference is 1,5 l/min/m²

Table 1
Maximum flow of domestic waste water at peak demand

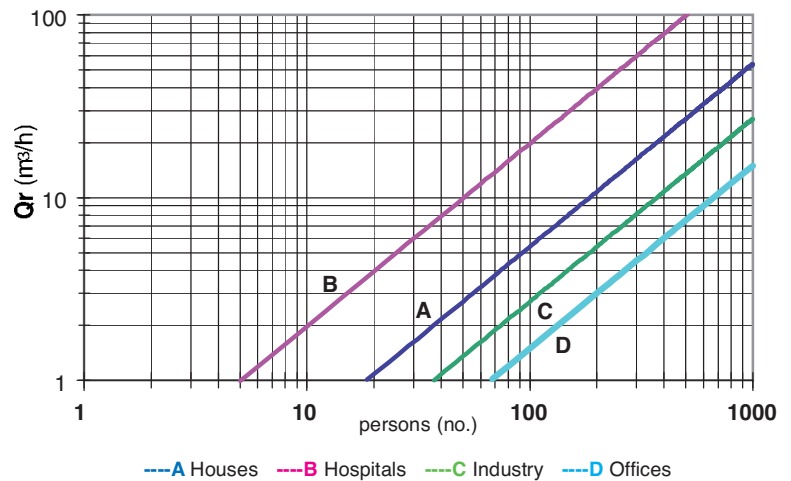


Table 2
Rainwater Flow

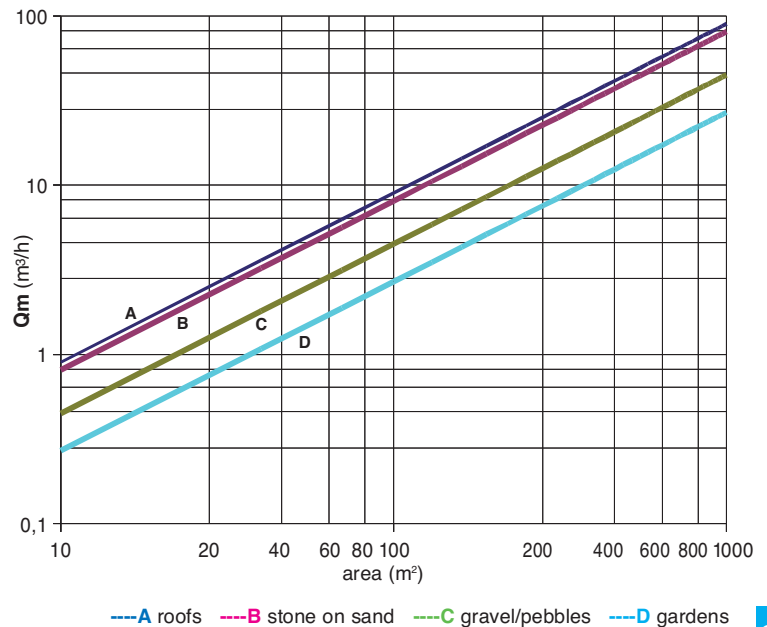


Figure 1

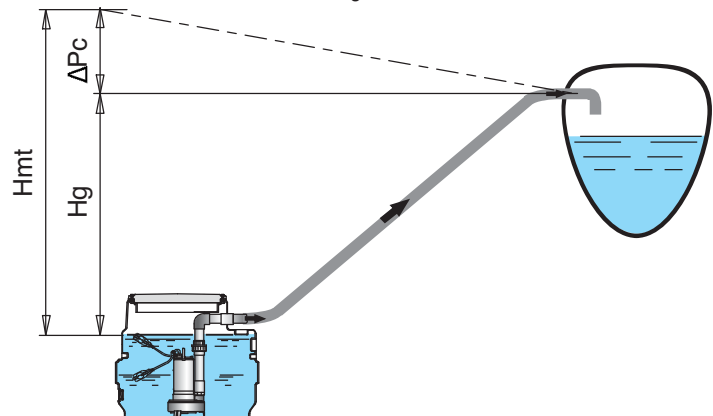


Table no. 3
Head loss in m for PVC PN6 (m) pipes

PVC pipe PN6 Øe mm	Q m³/h	1,8	3,6	5,4	7,2	9	18	27	36	50,4	64,8	90	126	162	180
	Q l/min	30	60	90	120	150	300	450	600	840	1080	1500	2100	2700	3000
50		0,24 0,30	0,85 0,59	1,8 0,89	3,1 1,18	4,6 1,48	16,7 2,96	35,3 4,44	-	-	-	-	-	-	-
63		0,08 0,18	0,26 0,37	0,56 0,55	0,95 0,73	1,11 0,92	5,2 1,83	10,9 2,75	18,6 3,66	34,8 5,13	-	-	-	-	-
75			0,11 0,26	0,24 0,39	0,4 0,51	0,61 0,64	2,2 1,29	4,6 1,93	7,9 2,57	14,7 3,6	23,4 4,63	43 6,43	-	-	-
90			0,05 0,18	0,1 0,27	0,16 0,36	0,25 0,45	0,9 0,89	1,9 1,34	3,3 1,79	6,1 2,5	9,7 3,22	17,8 4,47	33,2 6,26	-	-
110				0,04 0,17	0,06 0,2	0,09 0,29	0,3 0,58	0,67 0,87	1,15 1,16	2,15 1,63	3,4 2,10	6,25 2,91	11,7 4,08	18,5 5,24	22,5 5,82
125					0,03 0,18	0,05 0,23	0,17 0,45	0,36 0,68	0,6 0,90	1,15 1,26	1,84 1,63	3,37 2,26	6,3 3,16	10 4,06	12,2 4,52
140						0,03 0,18	0,1 0,36	0,2 0,54	0,35 0,72	0,65 1,01	1,05 1,30	1,95 1,80	3,6 2,52	5,77 3,24	7 3,60
160							0,05 0,28	0,11 0,41	0,18 0,55	0,34 0,77	0,55 0,99	1,02 1,38	1,9 1,93	3 2,48	3,66 2,76
180							0,03 0,22	0,06 0,33	0,1 0,43	0,19 0,61	0,31 0,78	0,57 1,09	1,06 1,52	1,69 1,96	2,05 2,17
200							0,02 0,18	0,04 0,26	0,06 0,35	0,12 0,49	0,18 0,88	0,34 1,23	0,64 1,59	1 1,59	1,23 1,76
225								0,02 0,21	0,04 0,28	0,07 0,39	0,1 0,55	0,19 0,70	0,36 0,97	0,57 1,25	0,7 1,39
250									0,02 0,23	0,04 0,32	0,06 0,41	0,12 0,56	0,22 0,79	0,34 1,02	0,42 1,13
280									0,01 0,18	0,02 0,25	0,04 0,32	0,07 0,45	0,13 0,63	0,2 0,81	0,24 0,90

Table no. 4
Head loss in cm for bends and gate valves

Water flow velocity m/sec.	$\alpha = 90$ sweep elbow					Gate valves
	$\frac{d}{R} = 0,4$	$\frac{d}{R} = 0,6$	$\frac{d}{R} = 0,8$	$\frac{d}{R} = 1$	$\frac{d}{R} = 1,5$	
0,4	0,11	0,13	0,16	0,23	0,43	0,23
0,5	0,18	0,21	0,26	0,37	0,67	0,37
0,6	0,25	0,29	0,36	0,52	0,97	0,52
0,7	0,34	0,40	0,48	0,70	1,35	0,70
0,8	0,45	0,53	0,64	0,93	1,7	0,95
0,9	0,57	0,67	0,82	1,18	2,2	1,20
1,0	0,7	0,82	1,0	1,45	2,7	1,45
1,5	1,6	1,9	2,3	3,3	6	3,3
2,0	2,8	3,3	4,0	5,8	11	5,8
2,5	4,4	5,2	6,3	9,1	17	9,1
3,0	6,3	7,4	9	13	25	13
3,5	8,5	10	12	18	33	18
4,0	11	13	16	23	42	23
4,5	14	21	26	37	55	37
5,0	18	29	36	52	67	52

EXAMPLE OF CALCULATION

Suppose it is required to size a lifting station, for a residential building where 80 people live. The pumps will have to lift waste water up to an additional tank located 5m higher, the linear distance between the 2 tanks is 70 m. In addition the station will receive rainwater from 400 m² of tarmac, roof surfaces and 120 m² of garden.

Considering: $Q_{tot} = Q_r + Q_m$

It is possible to calculate the Q_r from the Table1 which is 4 m³/h, while Q_m is obtained from the Table 2 and is 36 m³/h (roofs and tarmac) plus 2 m³/h from gardens, with this value Q_{tot} is 42 m³/h. At this flow it will be necessary split the flow between two pumps.

We choose a delivery pipe diameter such that the flow rate with two pumps in operation does not exceed 2.3 m / sec and not be lower than 0.7 m / s with a single pump.

From (Table 3) we obtain:

42 m³/h $\Rightarrow$ 1,4 m/s $\Rightarrow$ TUBO DN 110 (with two pumps in parallel operation)

21 m³/h $\Rightarrow$ 0,7 m/s $\Rightarrow$ TUBO DN 110 (with one operating pump)

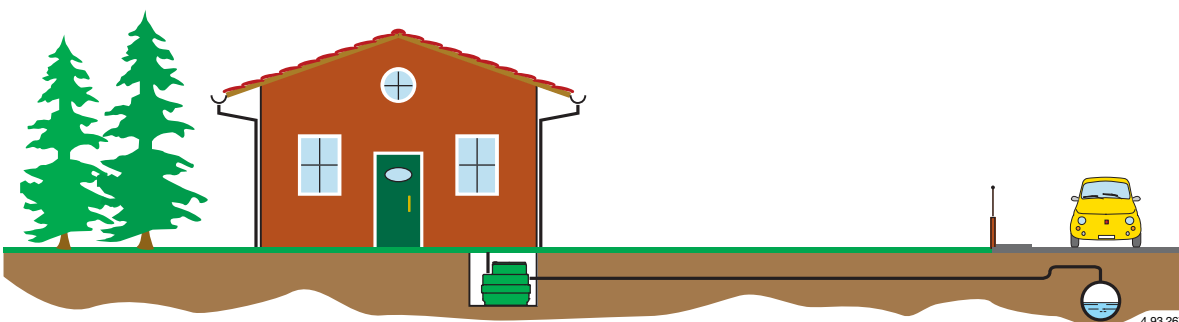
The distributed head loss in 70 m pipe with 720 l / min is 1.13 m (Table 3), then from the formula:

$$H_{mt} = H_g + \Delta p_c$$

It is obtained $H_{mt} = 6,13$ mca

he suitable pumps are no. 2 GMCM 50-65B and then it result a station type **GEO 500-2GMCM 50-65B**.

INSTALLATION EXAMPLE





GMV



Submersible pumps with vortex impeller in cast iron EN-GJL-250

pag. 250

GMVS



Submersible pumps with vortex impeller in cast iron with polyurethane coating

pag. 257

GMC



Submersible pumps with single channel impeller in cast iron EN-GJL-250

pag. 259

GMN



Submersible pumps with channels impeller in cast iron EN-GJL-250

pag. 268

GMG



Submersible pumps with grinder in cast iron EN-GJL-250

pag. 282

I-GMV



Submersible pumps with vortex impeller in stainless steel AISI316

pag. 286

I-GMC



Submersible pumps with single channel impeller in stainless steel AISI316

pag. 286

I-GMN



Submersible pumps with channels impeller in stainless steel AISI316

pag. 286

B-GMV



Submersible pumps with vortex impeller in Marine Bronze B10

pag. 297

B-GMC



Submersible pumps with single channel impeller in Marine Bronze B10

pag. 297

B-GMN



Submersible pumps with channels impeller in Marine Bronze B10

pag. 297

A new series of submersible pumps with high efficiency hydraulics designed to move slurry, sewage and industrial process fluids.

The range covers a wide field of use with head up to 75 m And flows up to 2300 m³/h, with a maximum solid passage up to 140 mm keeping the risk of blockage to a minimum. Dimensionally designed for heavy demand, even on critical applications.

Explosion proof version on request.

Pump designation

B-GM V 4 M 50-80 A

Version B = bronze
I = stainless steel
(no indication: cast iron version)

Series _____

Impeller type V = Vortex
C = Singlechannel
N = Channels
G = Grinder

4-6-8 poles motor (no indication: 2 poles) _____

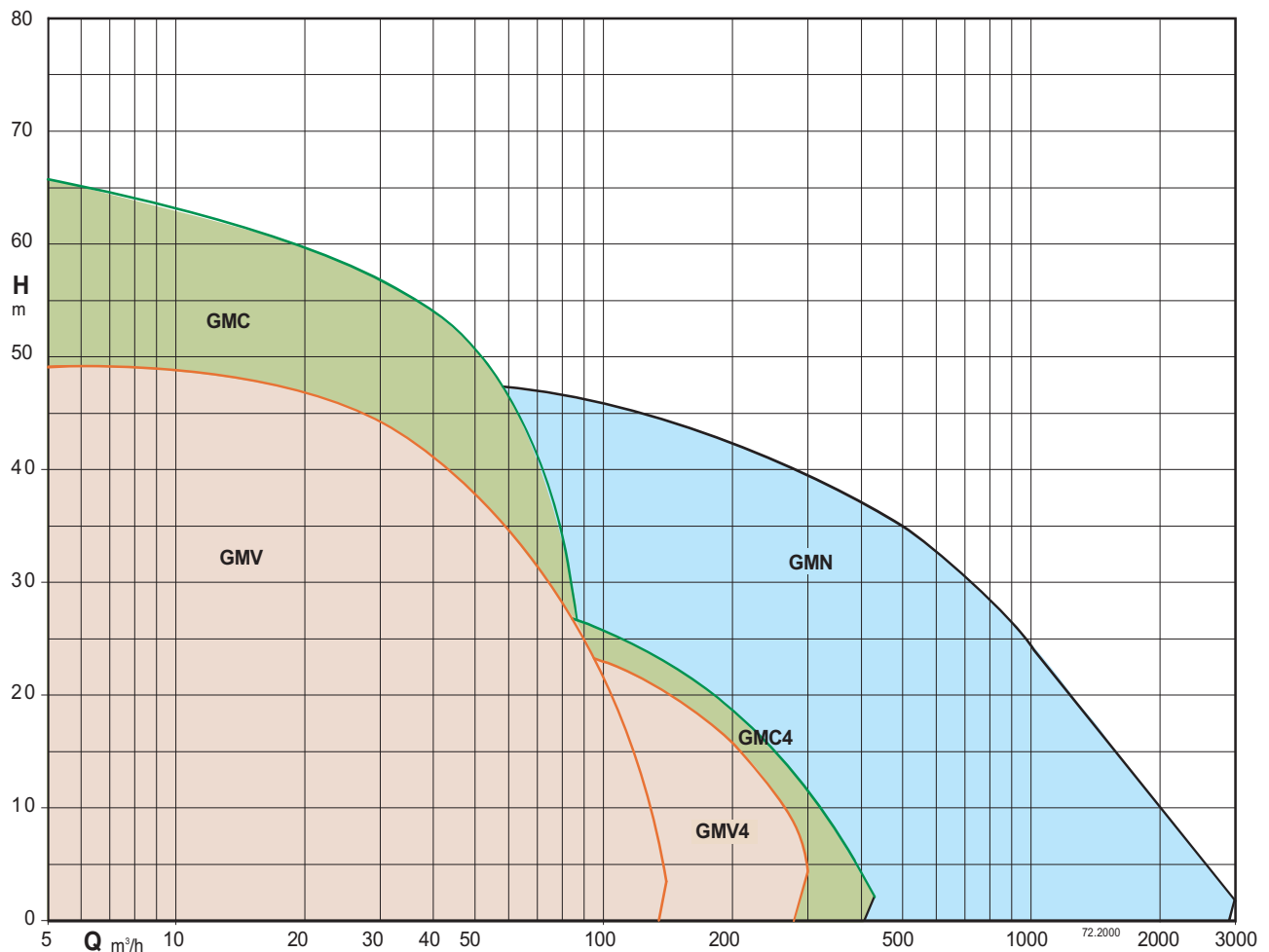
Singlephase M (no indication: threephase) _____

Free passage _____

Discharge diameter in mm _____

Pump size _____

Coverage chart



Tolerances according to ISO 9906, annex A.



Main materials

Pump casing: cast iron EN-GJL-250
 Impeller: cast iron EN-GJL-250+Ni
 Motor casing: cast iron EN-GJL-250
 Motor cover: cast iron EN-GJL-250
 Shaft: stainless steel AISI 420B
 Mechanical seal motor side: graphite/ceramic
 Mechanical seal pump side: silicon carbide/silicon carbide

Construction

Submersible pumps with vortex impeller.
 Twin mechanical seal with oil chamber.
 Delivery connection DN 80-100-150.

Applications

Suitable to pump slurry and sewage waters with the presence of solid and filamentous parts in suspension, they are in particular pointed out for emptying septic tanks in the domestic, residential and industrial installations.
 Solid passage diameter from 50 to 100 mm.

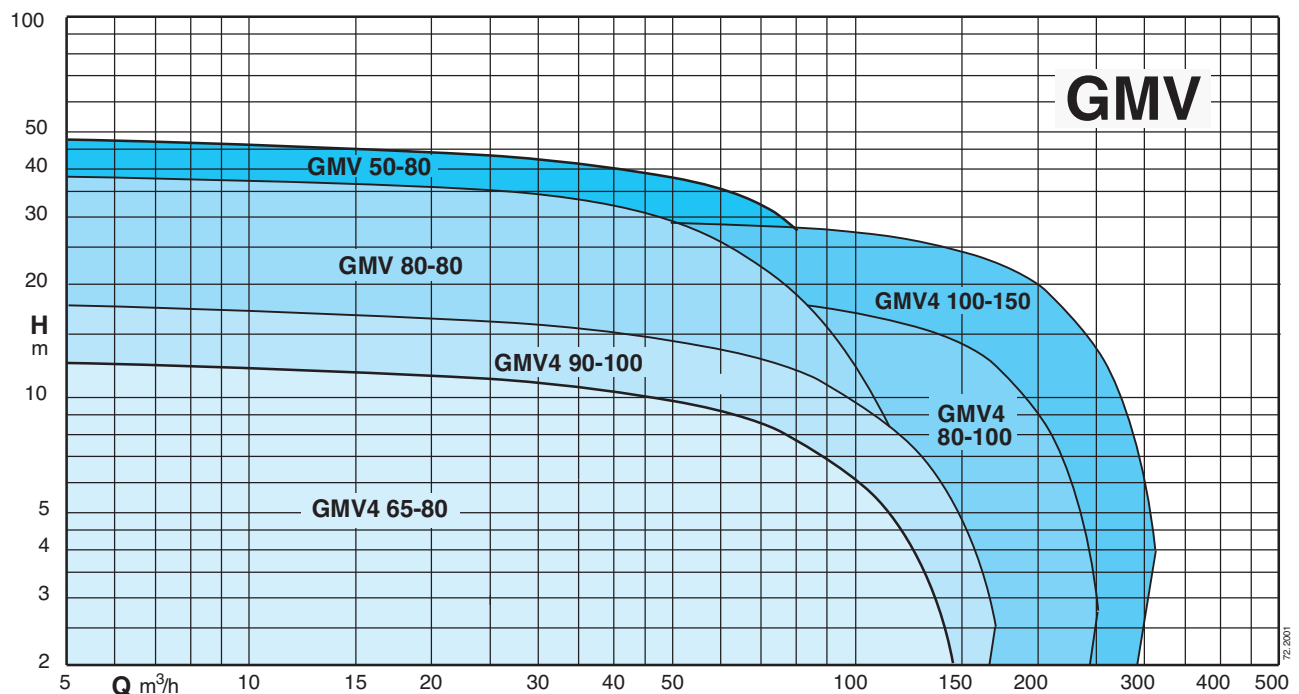
Operating conditions

Liquid temperature up to 40 °C.
 Maximum immersion depth: 20 m (with suitable cable length).
 Continuous duty (with pump immersed at minimum level).

Motor

2 or 4 poles induction, 50Hz
 Three-phase version: 400V $\pm$ 10%, up to 3,2 kW
 400/690V $\pm$ 10%, over 3,2 kW
 Insulation Class: H
 Protection degree: IP 68
 N° of starting x hour: max 15 with regular intervals
 Cable: H07RN-F, length 10 m
 Other models: contact our sale office

Coverage chart



Technical data

TYPE	P ₂ kW	I _N A	Power Supply	r.p.m.	Starting	DN mm	Free passage Ø mm	Thermal protector	Humidity probe	ATEX Eex
GMV 50-80F	3,2	6,5	3~ 400V	2850	D.O.L.	80	50	NO	NO	✓
GMV 50-80E	3,2	6,5	3~ 400V	2850	D.O.L.	80	50	NO	NO	✓
GMV 50-80D	5	11	3~ 400/690V	2850	Y/Δ	80	50	●	●	✓
GMV 50-80C	5,7	12,5	3~ 400/690V	2850	Y/Δ	80	50	●	●	✓
GMV 50-80B	18,2	34	3~ 400/690V	2850	Y/Δ	80	50	●	●	✓
GMV 50-80A	18,2	34	3~ 400/690V	2850	Y/Δ	80	50	●	●	✓
GMV 70-80B/A	10	17,9	3~ 400/690V	2850	Y/Δ	80	70	●	●	✓
GMV 70-80A/A	10	17,9	3~ 400/690V	2850	Y/Δ	80	70	●	●	✓
GMV 80-80B	15,9	30	3~ 400/690V	2850	Y/Δ	80	80	●	●	✓
GMV 80-80A	18,2	34	3~ 400/690V	2850	Y/Δ	80	80	●	●	✓
GMV 80-80S	22,4	40,1	3~ 400/690V	2850	Y/Δ	80	80	●	●	✓
GMV4 65-80D	2,8	6,5	3~ 400V	1450	D.O.L.	80	65	NO	NO	✓
GMV4 65-80C	2,8	6,5	3~ 400V	1450	D.O.L.	80	65	NO	NO	✓
GMV4 65-80B	3,8	8	3~ 400/690V	1450	Y/Δ	80	65	●	●	✓
GMV4 65-80A	4,6	9,5	3~ 400/690V	1450	Y/Δ	80	65	●	●	✓
GMV4 90-100B	7,1	13,5	3~ 400/690V	1450	Y/Δ	100	90	●	●	✓
GMV4 90-100A	7,1	13,5	3~ 400/690V	1450	Y/Δ	100	90	●	●	✓
GMV4 80-100C	11,6	23,2	3~ 400/690V	1450	Y/Δ	100	80	●	●	✓
GMV4 80-100B	14,4	29,5	3~ 400/690V	1450	Y/Δ	100	80	●	●	✓
GMV4 80-100A	14,4	29,5	3~ 400/690V	1450	Y/Δ	100	80	●	●	✓
GMV4 80-100S	27	52,5	3~ 400/690V	1450	Y/Δ	100	80	●	●	✓
GMV4 100-150E	27	52,5	3~ 400/690V	1450	Y/Δ	150	100	●	●	✓
GMV4 100-150B	25	48	3~ 400/690V	1450	Y/Δ	150	100	●	●	✓
GMV4 100-150A	35,7	65,5	3~ 400/690V	1450	Y/Δ	150	100	●	●	✓

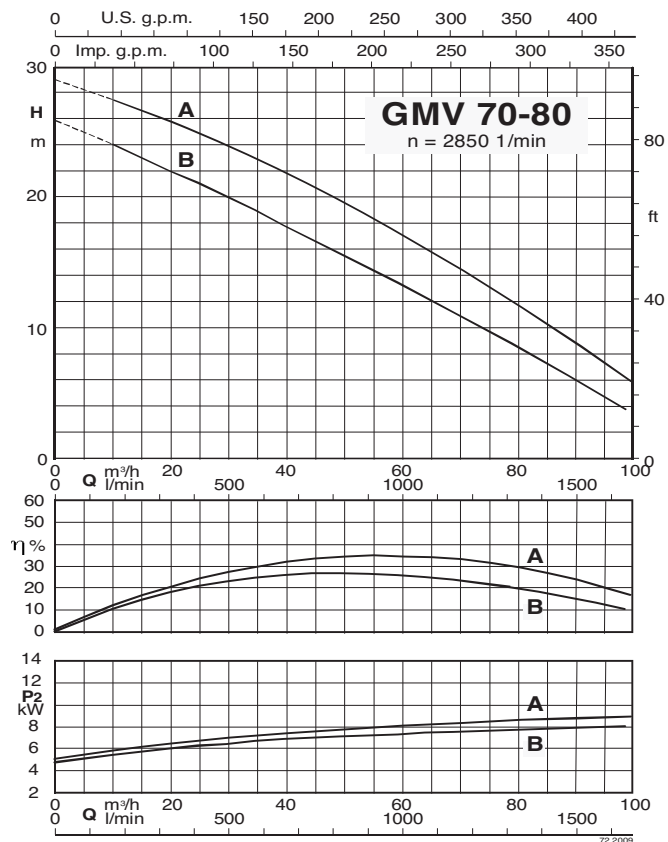
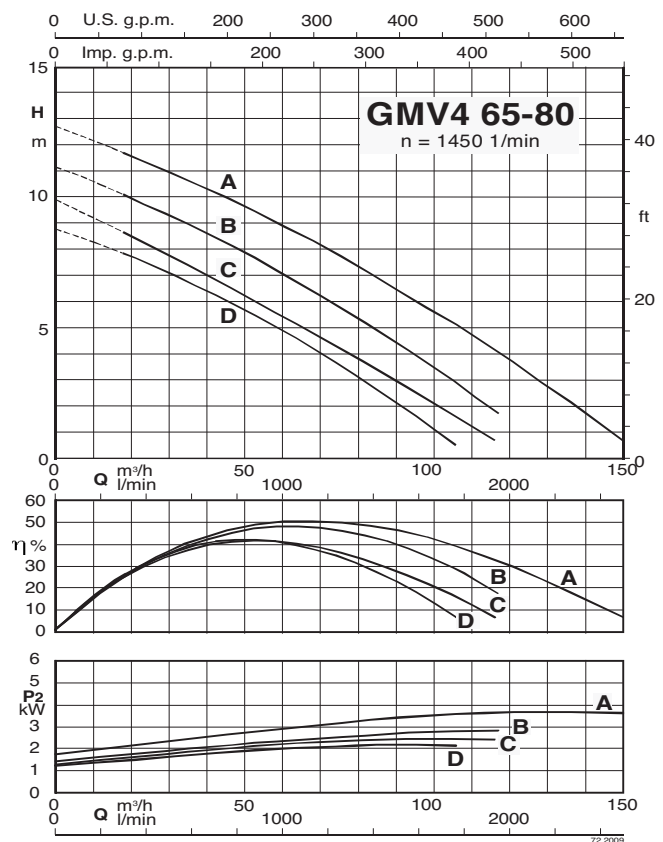
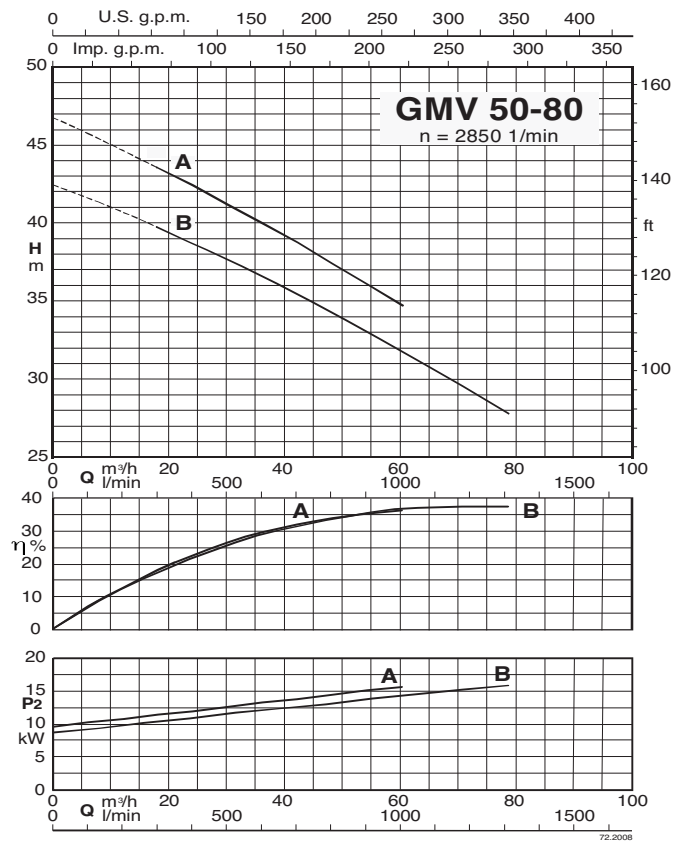
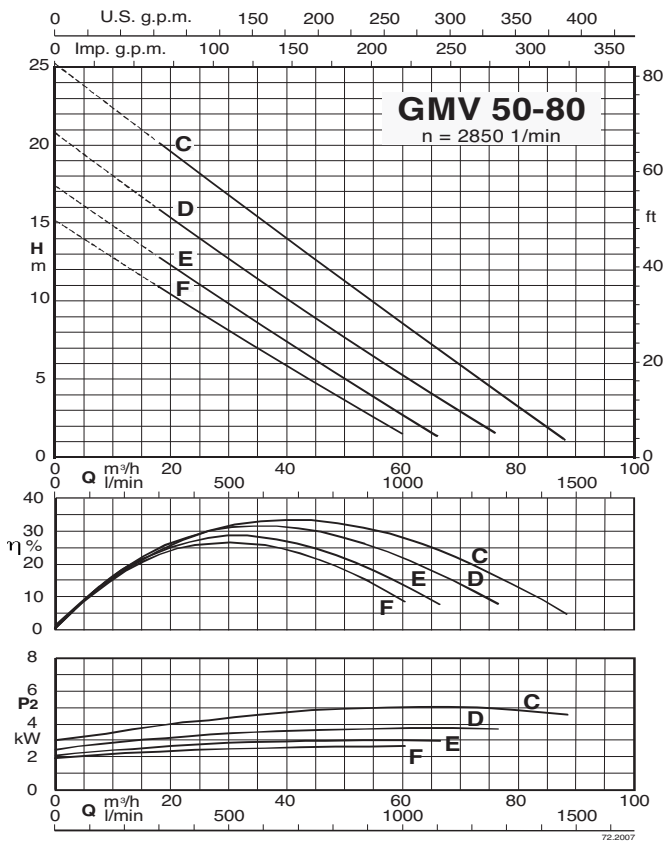
P₂ Rated power output

I_N Rated current

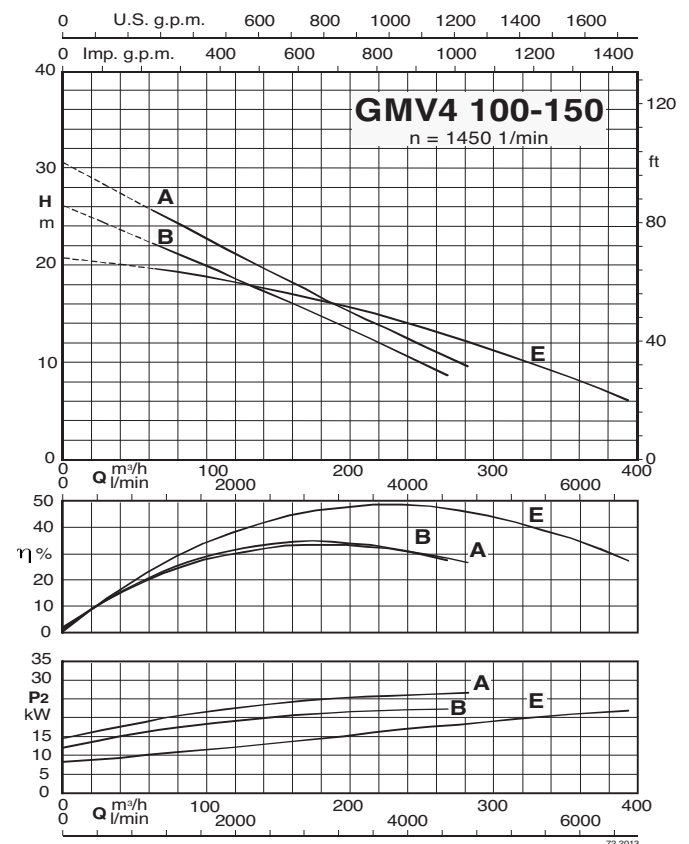
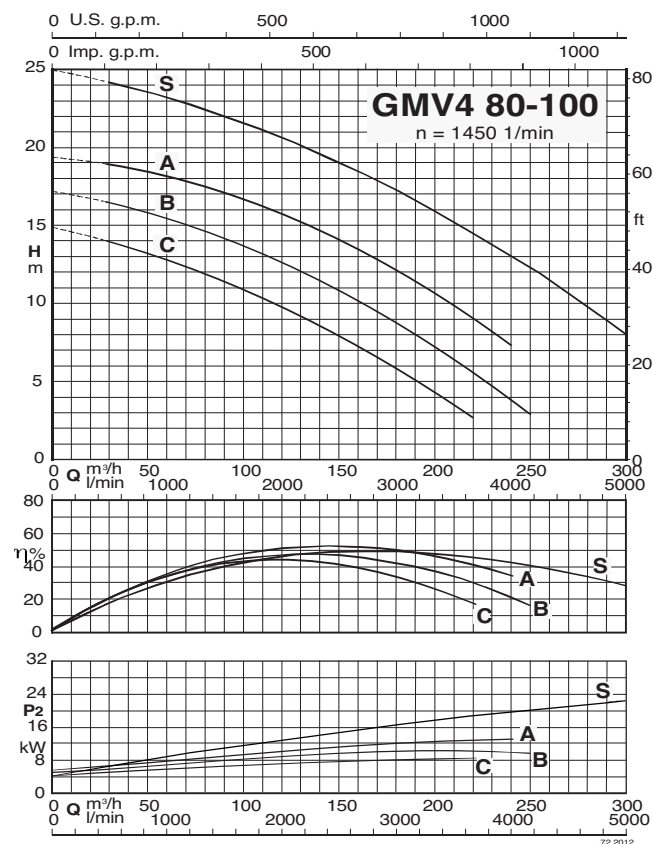
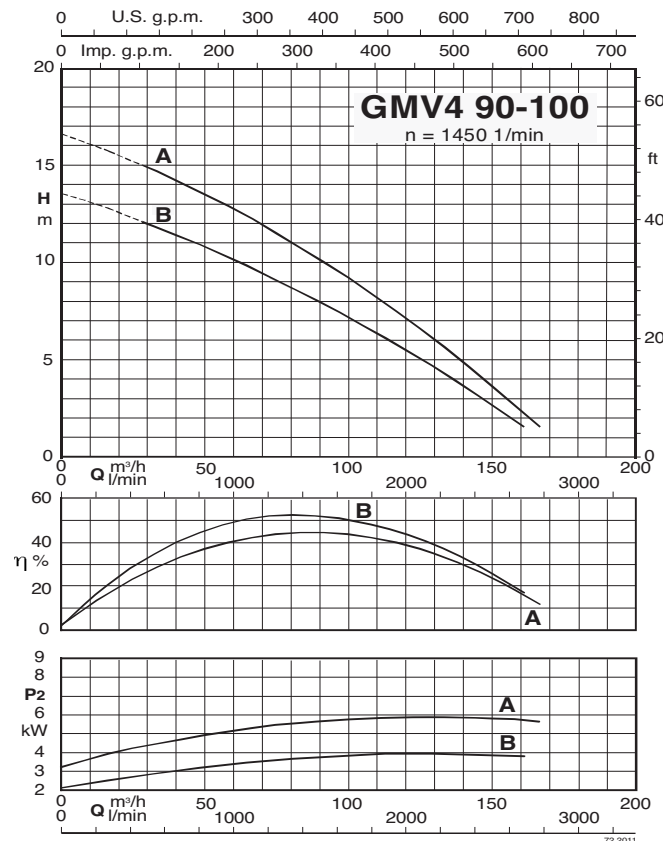
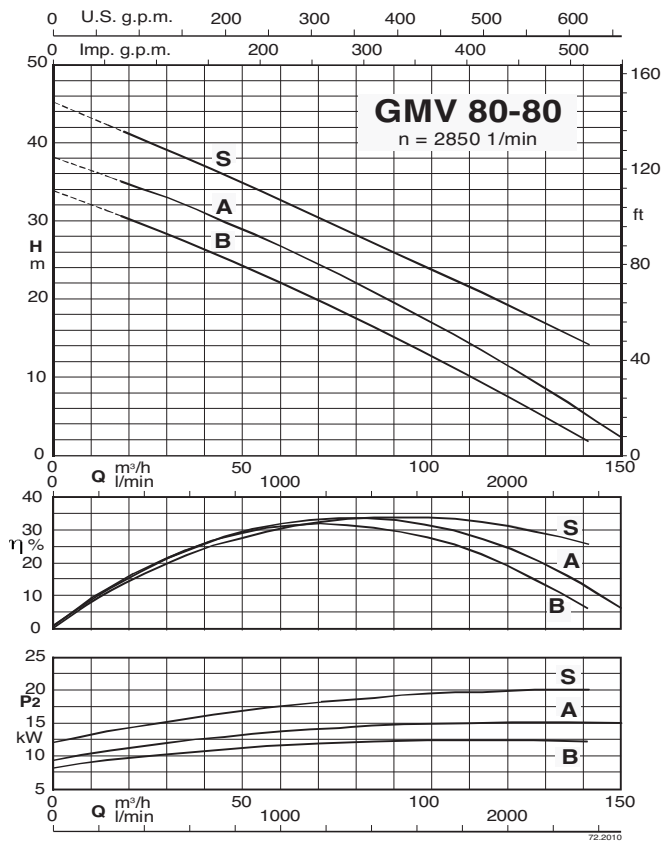
● Standard

✓ ATEX Eex Version on demand

Characteristic curves



Characteristic curves

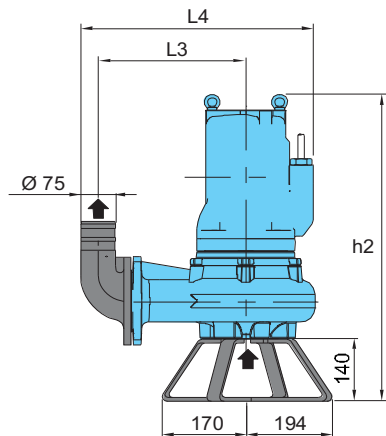
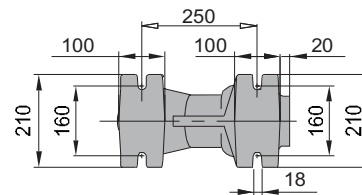
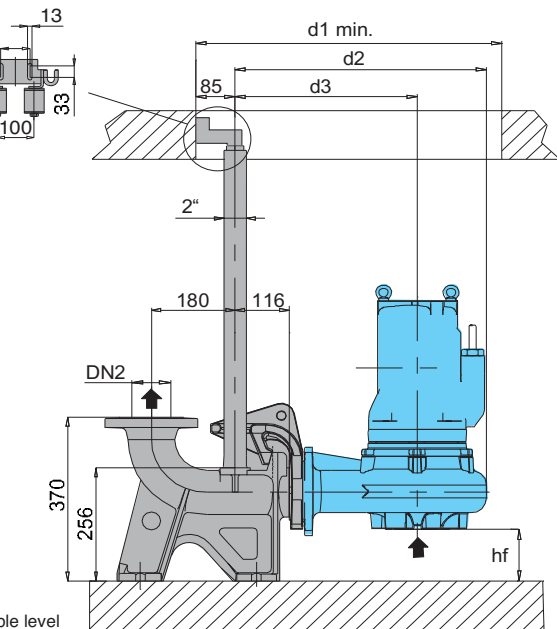
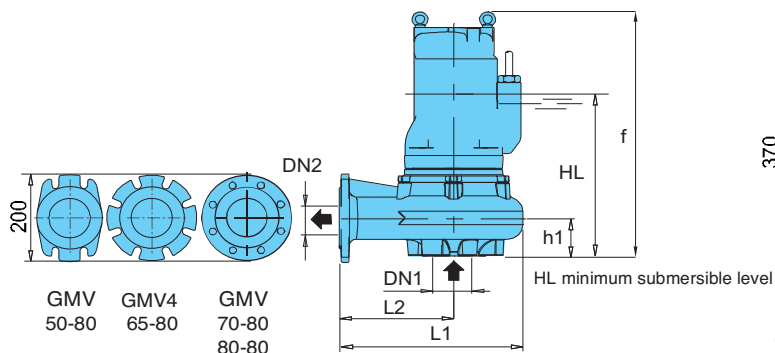


Dimensions and weights

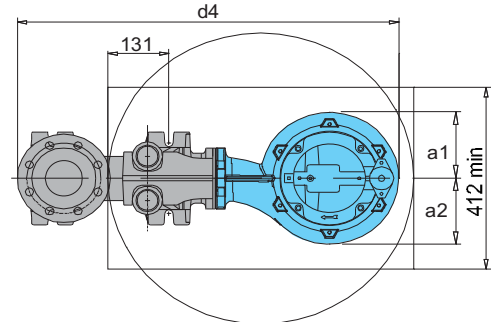
GMV 50-80

GMV 80-80

GMV4 65-80



Version with foot and 90° elbow



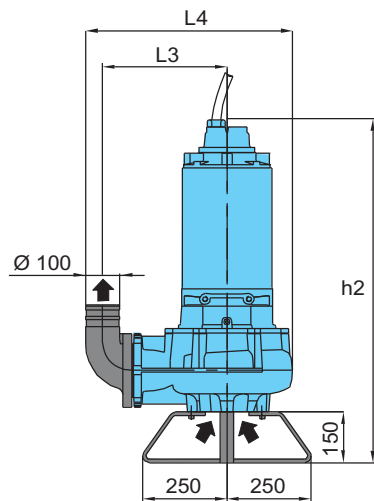
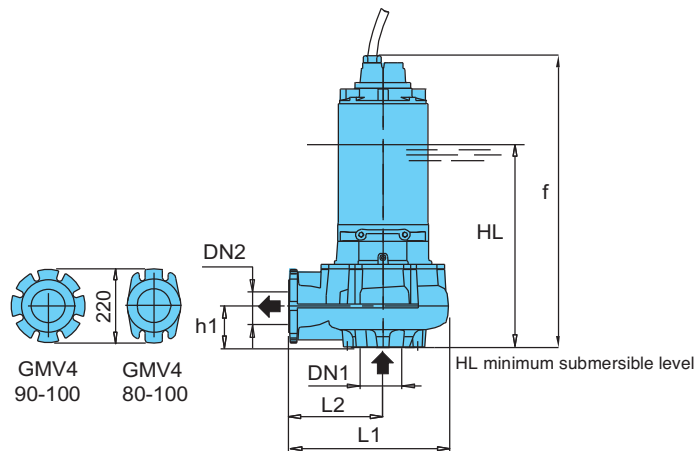
Version with duck foot coupling

TYPE	EN 1092-2 PN 10		Dimensions mm															Weight kg
	DN1	DN2	f	HL	hf	h1	h2	a1	a2	d1	d2	d3	d4	L1	L2	L3	L4	
GMV 50-80F	80	80	487	330	116	84	627	149	149	660	541	392	821	395	246	380	570	52
GMV 50-80E																		
GMV 50-80D			553	365	116	84	693	149	149	660	541	392	821	395	246	380	570	84
GMV 50-80C																		
GMV 50-80B	80	80	836	516	122	78	986	164	164	800	611	428	891	445	262	334	555	190
GMV 50-80A																		
GMV 70-80B/A	80	80	829	500	65	135	969	167	167	800	633	446	913	467	262	353	576	160
GMV 70-80A/A																		
GMV 80-80B			863	548	60	140	1018	169	175	900	671	481	950	505	315	388	612	190
GMV 80-80A																		
GMV 80-80S	80	80	1328	586	127	142	1478	193	193	800	672	483	952	503	280	389	614	200
GMV4 65-80D	80	80	516	380	80	121	656	143	169	700	548	396	828	402	250	323	512	64
GMV4 65-80C																		
GMV4 65-80B			582	400	80	121	722	143	169	700	548	396	828	402	250	323	512	79
GMV4 65-80A																		

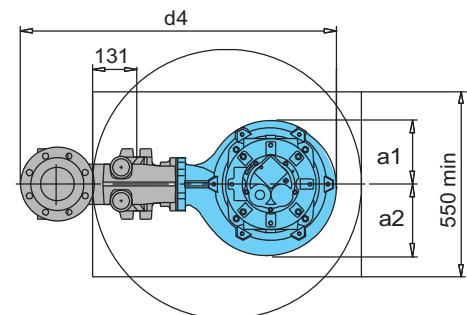
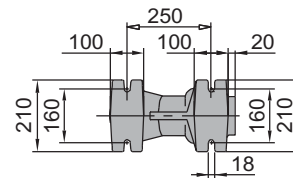
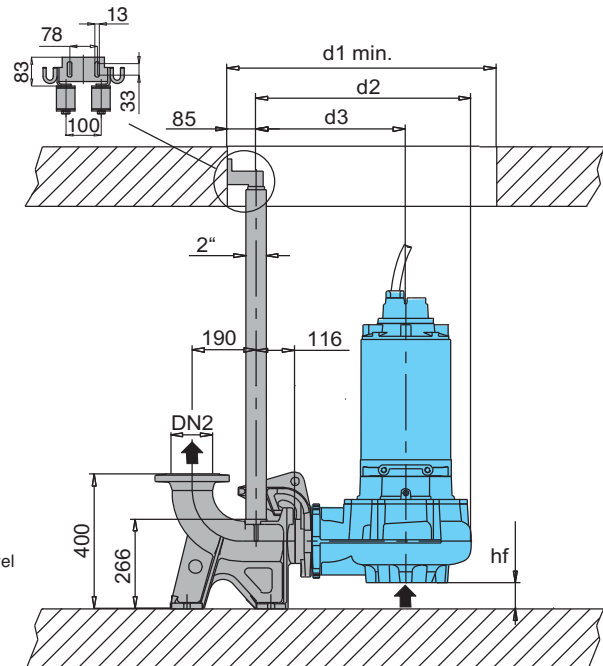
Dimensions and weights

GMV4 90-100

GMV4 80-100



Version with foot and 90° elbow

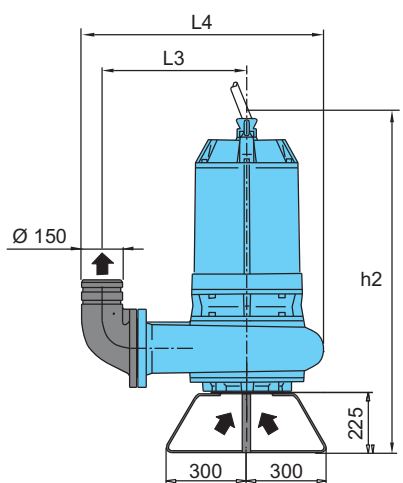
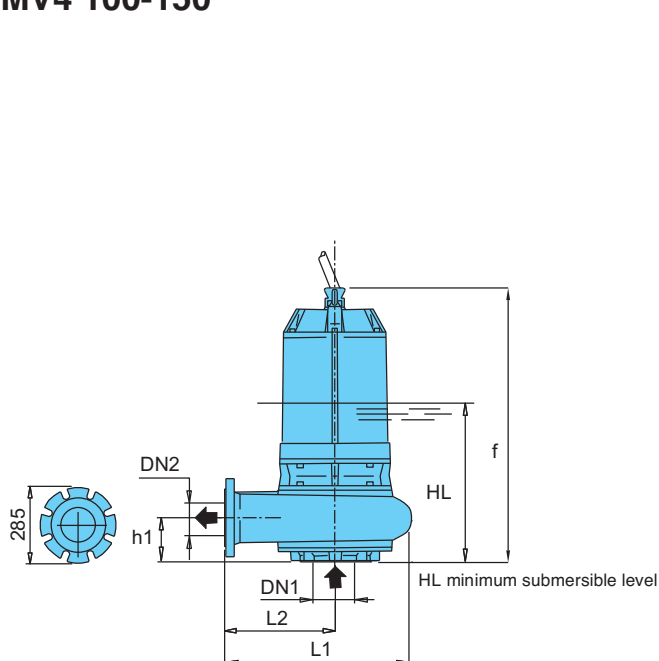


Version with duck foot coupling

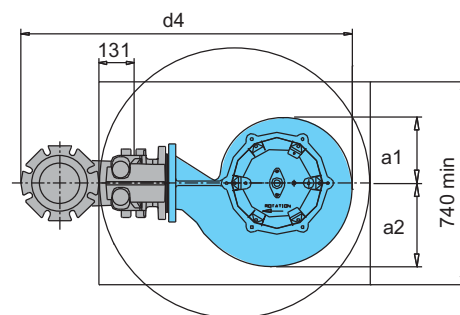
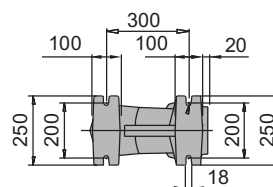
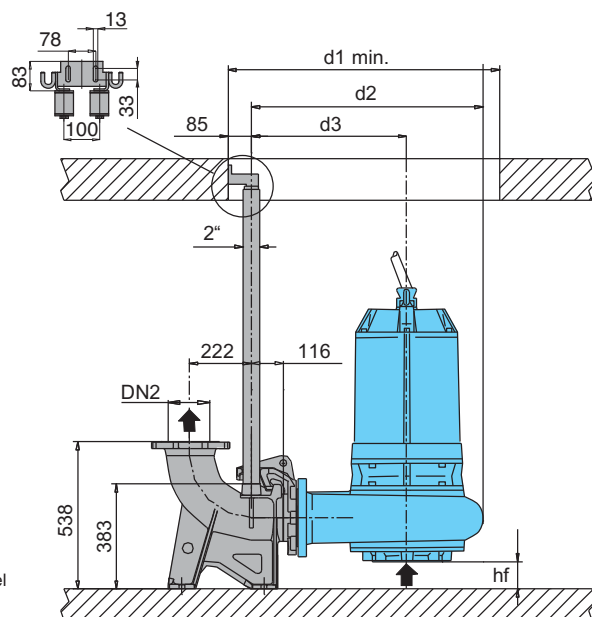
TYPE	EN 1092-2 PN 10		Dimensions mm														Weight kg	
	DN1	DN2	f	HL	hf	h1	h2	a1	a2	d1	d2	d3	d4	L1	L2	L3		L4
GMV4 90-100B	125	100	829	490	89	111	979	180	180	800	633	443	933	468	277	367	607	170
GMV4 90-100A																		
GMV4 80-100C	125	100	921	570	54	147	1091	189	212	800	640	445	940	474	279	369	614	200
GMV4 80-100B																		
GMV4 80-100A																		
GMV4 80-100S	125	100	1343	670	54	146	1497	193	212	800	640	441	936	475	280	370	615	340

Dimensions and weights

GMV4 100-150



Version with foot and 90° elbow



Version with duck foot coupling

TYPE	EN 1092-2 PN 10		Dimensions mm															Weight kg
	DN1	DN2	f	HL	hf	h1	h2	a1	a2	d1	d2	d3	d4	L1	L2	L3	L4	
GMV4 100-150E	150	150	1359	710	114	146	1581	193	223	850	675	469	1040	486	280	431	712	355
GMV4 100-150B	150	150	1014	592	135	143	1236	264	264	1000	880	616	1249	714	450	580	919	361
GMV4 100-150A																		



Construction

Submersible pumps with vortex impeller
Impeller in Polyurethane with a stainless steel core - Pump casing in Cast iron EN-GJL-250, with polyurethane coating for parts subject to high wear.
Twin mechanical seal with oil chamber.
Delivery connection DN 80.

Applications

The pumps are designed to suit applications in plants with an high sand presence, in marble work companies, in the ceramic industry, crystals machining or industrial processes handling abrasives liquids.
Solid passage diameter from 35 mm.

Operating conditions

Liquid temperature up to 40 °C.
Maximum immersion depth: 20 m (with suitable cable length).
Continuous duty (with pump immersed at minimum level).

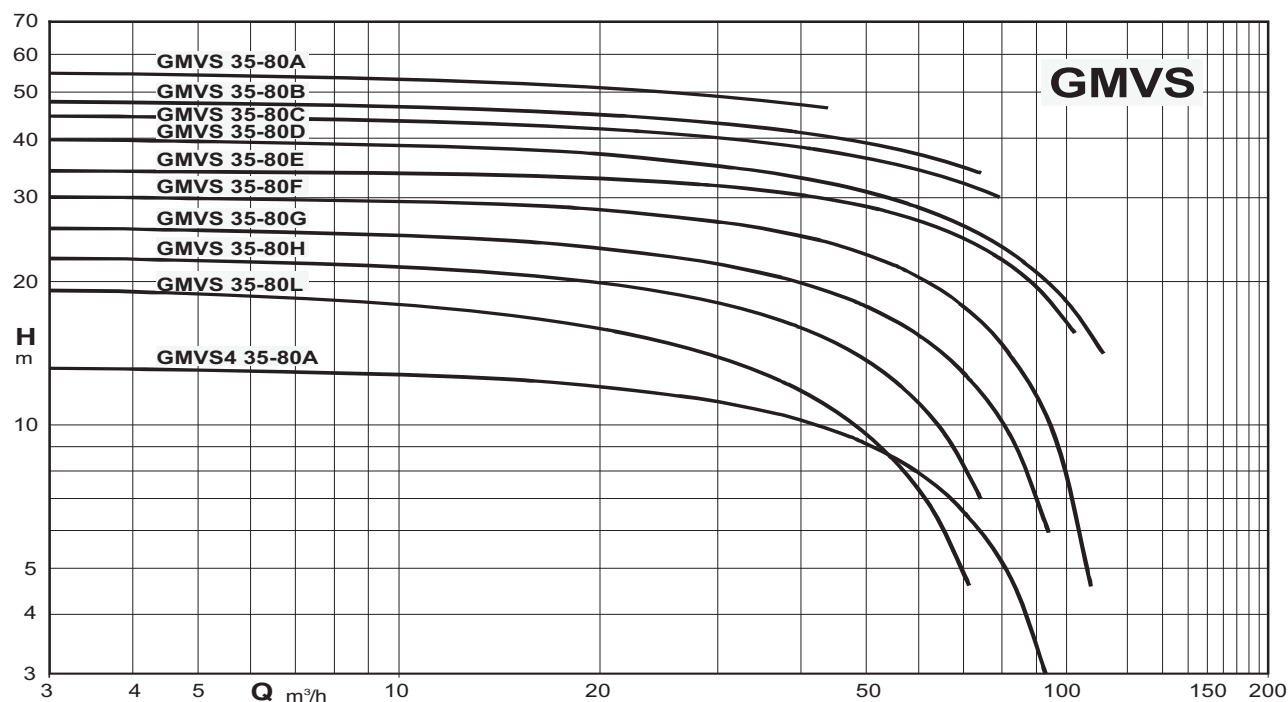
Main materials

Pump casing: cast iron EN-GJL-250 with polyurethane coating
Impeller: Polyurethane with a stainless steel core
Motor casing: cast iron EN-GJL-250
Motor cover: cast iron EN-GJL-250
Shaft: stainless steel AISI 420B
Mechanical seal motor side: graphite/ceramic
Mechanical seal pump side: silicon carbide/silicon carbide

Motor

2 or 4 poles induction, 50Hz
Three-phase version: 400/690V $\pm$ 10%
Insulation Class: H
Protection degree: IP 68
N° of starting x hour: max 15 with regular intervals
Cable: H07RN-F, length 10 m
Other models: contact our sale office

Coverage chart



Technical data

TYPE	P ₂ kW	I _N A	Power Supply	r.p.m.	Starting	DN mm	Free passage Ø mm	Thermal protector	Humidity probe	ATEX Eex
GMVS 35-80L	8,2	15,5	3~ 400/690V	2850	Y/Δ	80	35	●	●	
GMVS 35-80H	8,2	15,5	3~ 400/690V	2850	Y/Δ	80	35	●	●	
GMVS 35-80G	14,7	26,8	3~ 400/690V	2850	Y/Δ	80	35	●	●	
GMVS 35-80F	14,7	26,8	3~ 400/690V	2850	Y/Δ	80	35	●	●	
GMVS 35-80E	15,9	30	3~ 400/690V	2850	Y/Δ	80	35	●	●	
GMVS 35-80D	18,2	34	3~ 400/690V	2850	Y/Δ	80	35	●	●	
GMVS 35-80C	18,2	34	3~ 400/690V	2850	Y/Δ	80	35	●	●	
GMVS 35-80B	18,2	34	3~ 400/690V	2850	Y/Δ	80	35	●	●	
GMVS 35-80A	18,2	34	3~ 400/690V	2850	Y/Δ	80	35	●	●	
GMVS4 35-80A	7	13,2	3~ 400/690V	1450	Y/Δ	80	35	●	●	

P₂ Rated power output

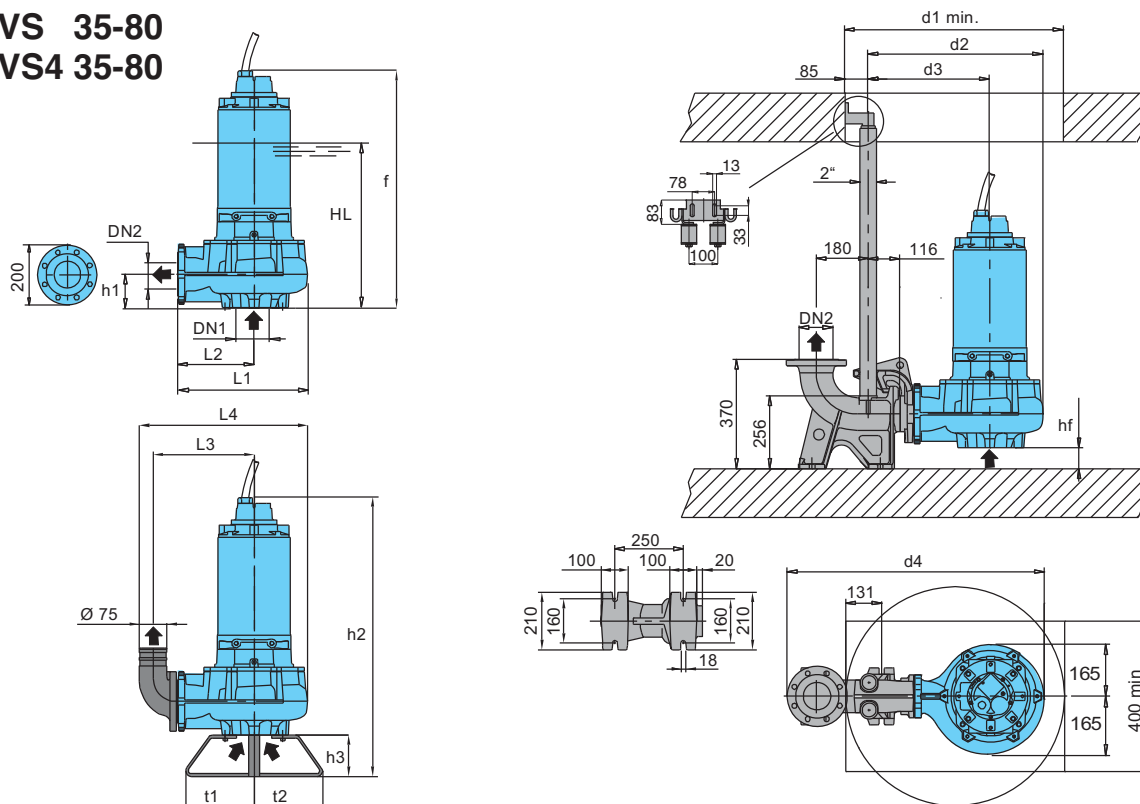
I_N Rated current

● Standard

✓ ATEX Eex Version on demand

Dimensions and weights

GMVS 35-80 GMVS4 35-80



TYPE	EN 1092-2 PN 10		Dimensions mm																Weight kg
	DN1	DN2	f	HL	hf	h1	h2	h3	t1	t2	d1	d2	d3	d4	L1	L2	L3	L4	
GMVS 35-80L	80	80	796	468	122	78	936	140	200	200	800	593	408	873	427	242	314	537	150
GMVS 35-80H																			
GMVS 35-80G																			
GMVS 35-80F																			
GMVS 35-80E																			
GMVS 35-80D	80	80	867	514	124	100	1017	150	250	250	800	593	408	873	427	242	314	537	191
GMVS 35-80C																			
GMVS 35-80B																			
GMVS 35-80A																			
GMVS4 35-80A	80	80	796	468	122	78	936	140	200	200	800	593	408	873	427	242	314	537	160



Main materials

Pump casing: cast iron EN-GJL-250 - Impeller: cast iron EN-GJL-250+Ni
 Motor casing, Motor cover: cast iron EN-GJL-250
 Motor shaft: stainless steel AISI 420B
 Lip seal made of nitrile up to 1,4 kW
 Mechanical seal motor side: graphite/ceramic over 1,4 kW
 Mechanical seal pump side: silicon carbide/silicon carbide

Construction

Submersible pumps with single channel impeller.
 Twin mechanical seal with oil chamber (lip-seal motor side up to 1,4 kW).
 Delivery connection DN 50-65-80-100-150

Applications

Suitable to pump slurry, sewage, waste water (non-corrosive).
 In industrial and residential installations and drainag applications
 Solid passage from 40 to 100mm

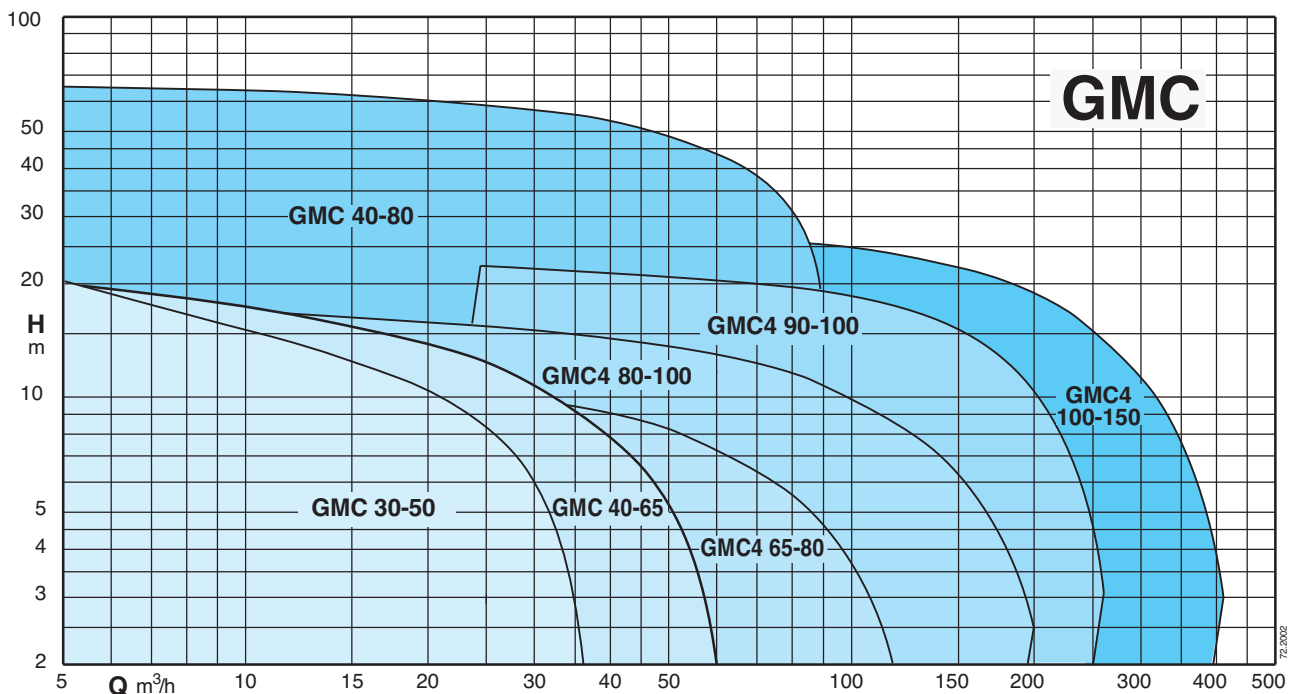
Operating conditions

Liquid temperature up to 40 °C.
 Maximum immersion depth: 20 m (with suitable cable length).
 Continuous duty (with pump immersed at minimum level).

Motor

2 or 4 poles induction, 50Hz
 Single-phase version: 230V $\pm$ 10%, with float switch and built-in capacitor.
 Three-phase version: 400V $\pm$ 10%, up to 3,2 kW
 400/690V $\pm$ 10%, over 3,2 kW
 Insulation class: H
 Protection degree: IP 68
 N° of starting x hour: max 15 with regular intervals
 Cable: H07RN-F, length 10 m
 Other models: contact our sale office

Coverage chart



Technical data

TYPE	P ₂ kW	I _N A	Power Supply	r.p.m.	Starting	DN mm	Free passage Ø mm	Thermal protector	Humidity probe	ATEX Eex
GMC 30-50B	1,1	7,5	1~ 230V	2850	D.O.L.	50	30	●	NO	
GMC 30-50B	1,4	3	3~ 400V	2850	D.O.L.	50	30	NO	NO	
GMC 30-50A	1,4	3	3~ 400V	2850	D.O.L.	50	30	NO	NO	
GMC 40-65B	1,8	10	1~ 230V	2850	D.O.L.	65	40	NO	NO	✓
GMC 40-65B	2,4	5	3~ 400V	2850	D.O.L.	65	40	NO	NO	✓
GMC 40-65A	2,9	6	3~ 400V	2850	D.O.L.	65	40	NO	NO	✓
GMC 40-80D	13,8	29,5	3~ 400/690V	2850	Y/Δ	80	40	●	●	✓
GMC 40-80C	13,8	29,5	3~ 400/690V	2850	Y/Δ	80	40	●	●	✓
GMC 40-80B	18,2	34	3~ 400/690V	2850	Y/Δ	80	40	●	●	✓
GMC 40-80A	18,2	34	3~ 400/690V	2850	Y/Δ	80	40	●	●	✓
GMC4M 65-80C	1,2	8,5	1~ 230V	1450	D.O.L.	80	65	●	NO	✓
GMC4 65-80C	1,3	3,5	3~ 400V	1450	D.O.L.	80	65	NO	NO	✓
GMC4 65-80B	2,3	5	3~ 400V	1450	D.O.L.	80	65	NO	NO	✓
GMC4 65-80A	2,8	6,5	3~ 400V	1450	D.O.L.	80	65	NO	NO	✓
GMC4 75-80A	2,8	6,5	3~ 400V	1450	D.O.L.	80	75	NO	NO	✓
GMC4 80-100C	3,8	8	3~ 400/690V	1450	Y/Δ	100	80	●	●	✓
GMC4 80-100B	3,8	8	3~ 400/690V	1450	Y/Δ	100	80	●	●	✓
GMC4 80-100A	5	11	3~ 400/690V	1450	Y/Δ	100	80	●	●	✓
GMC4 90-100B	11,6	23,2	3~ 400/690V	1450	Y/Δ	100	90	●	●	✓
GMC4 90-100A	14,4	29,5	3~ 400/690V	1450	Y/Δ	100	90	●	●	✓
GMC4 100-150C	14,4	29,5	3~ 400/690V	1450	Y/Δ	150	100	●	●	✓
GMC4 100-150B/A	17,8	32,5	3~ 400/690V	1450	Y/Δ	150	100	●	●	✓
GMC4 100-150A/A	21	43,1	3~ 400/690V	1450	Y/Δ	150	100	●	●	✓

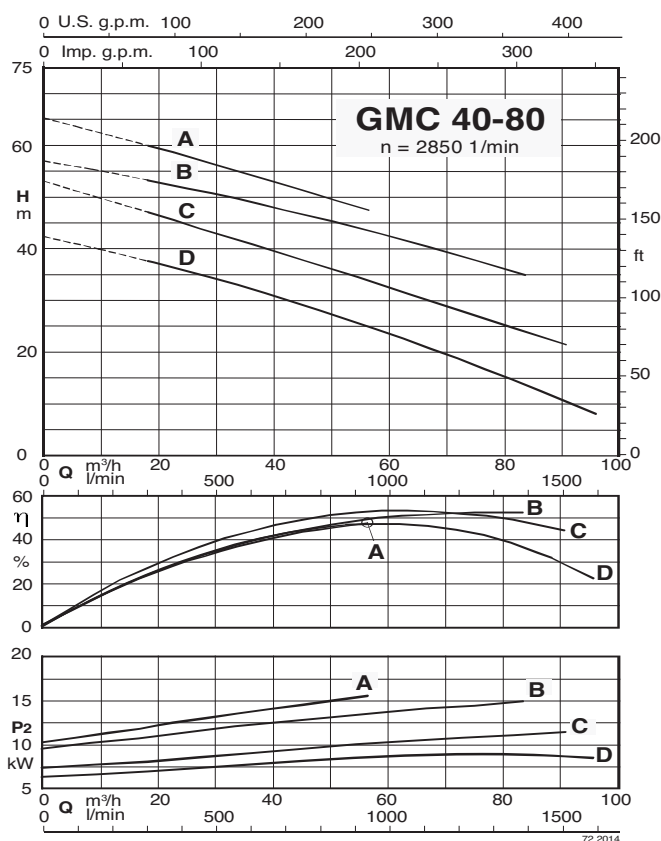
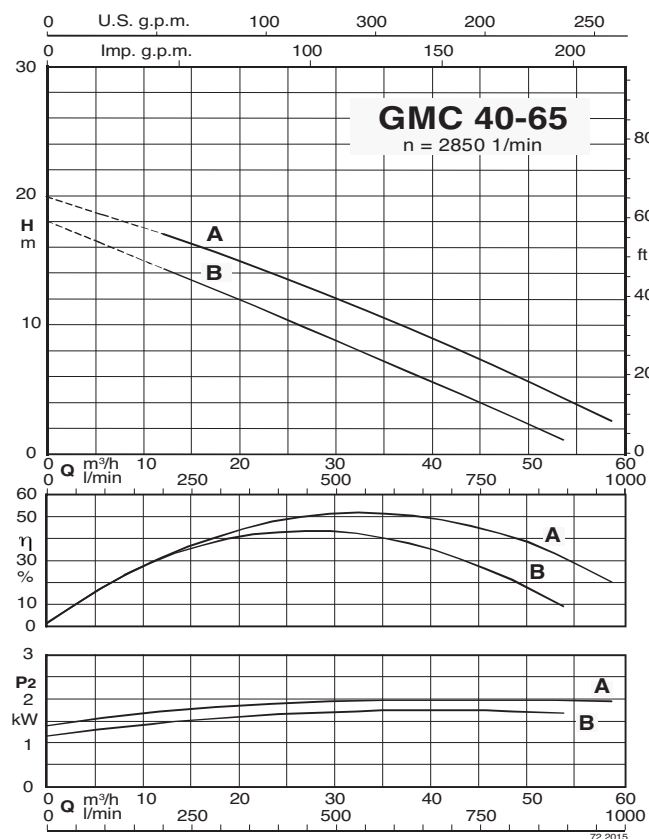
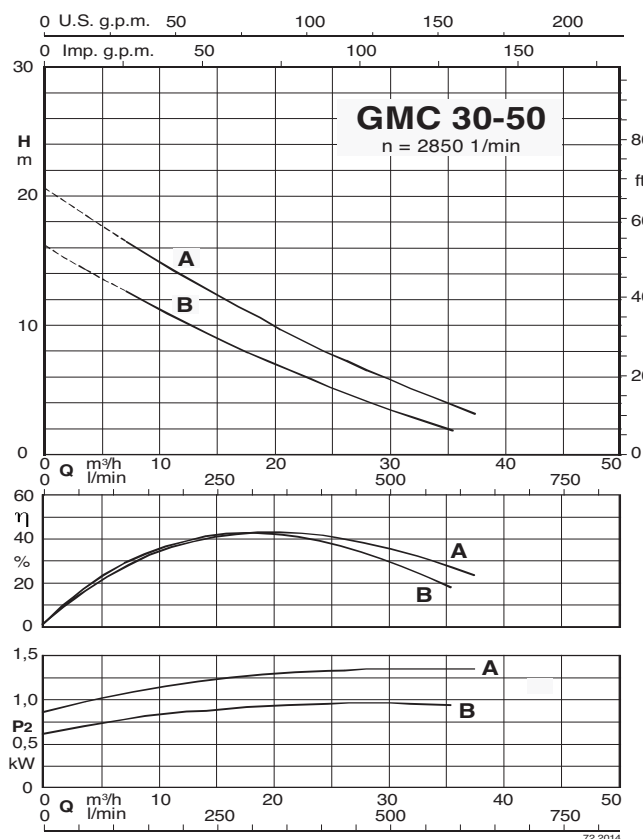
P₂ Rated power output

I_N Rated current

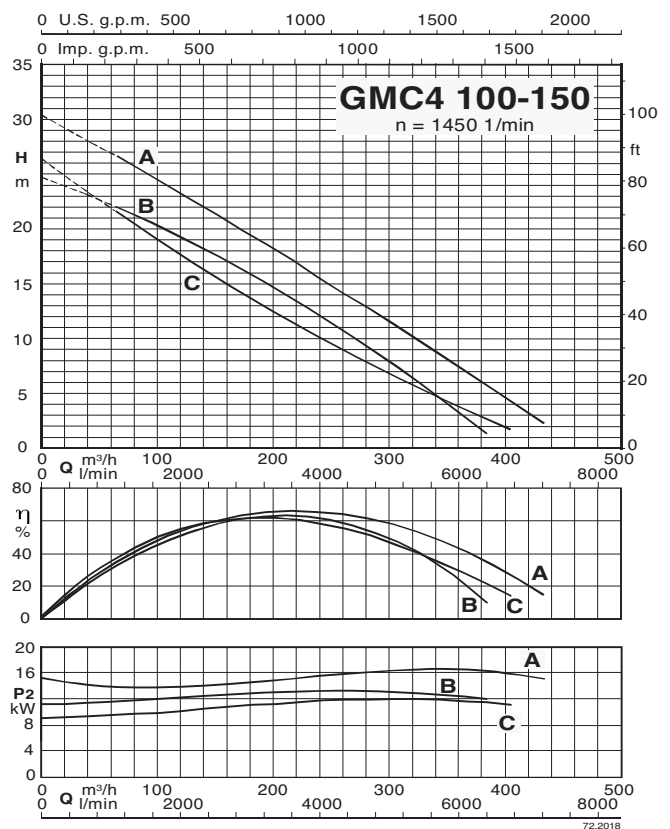
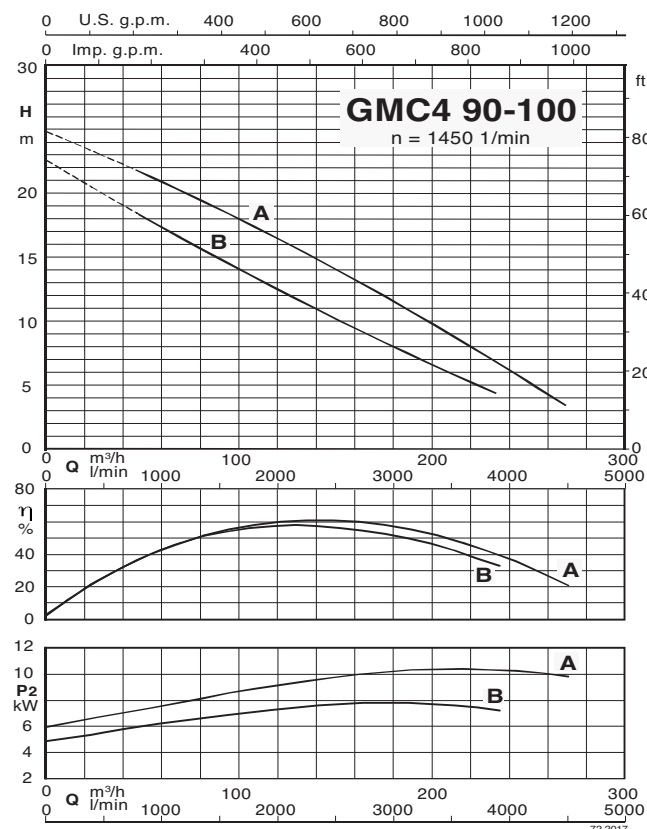
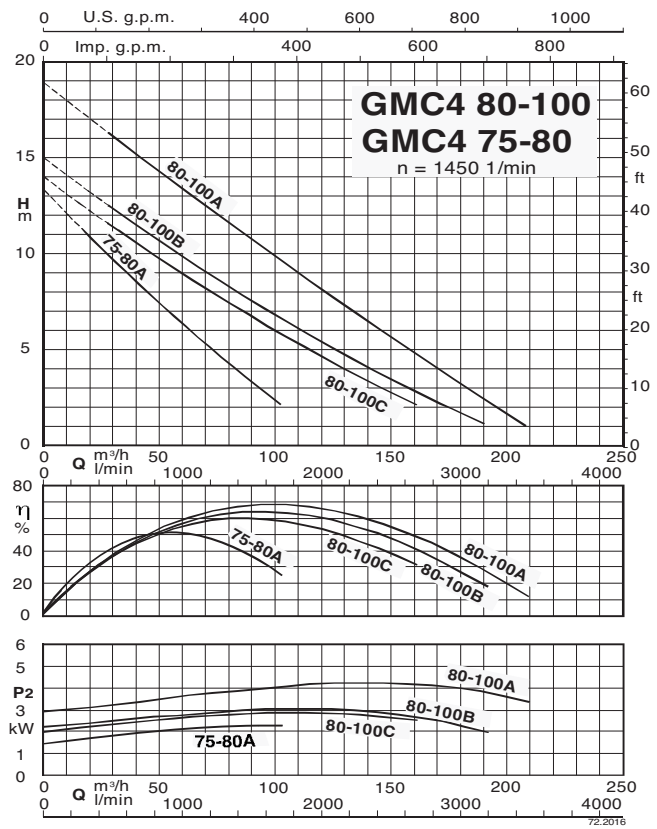
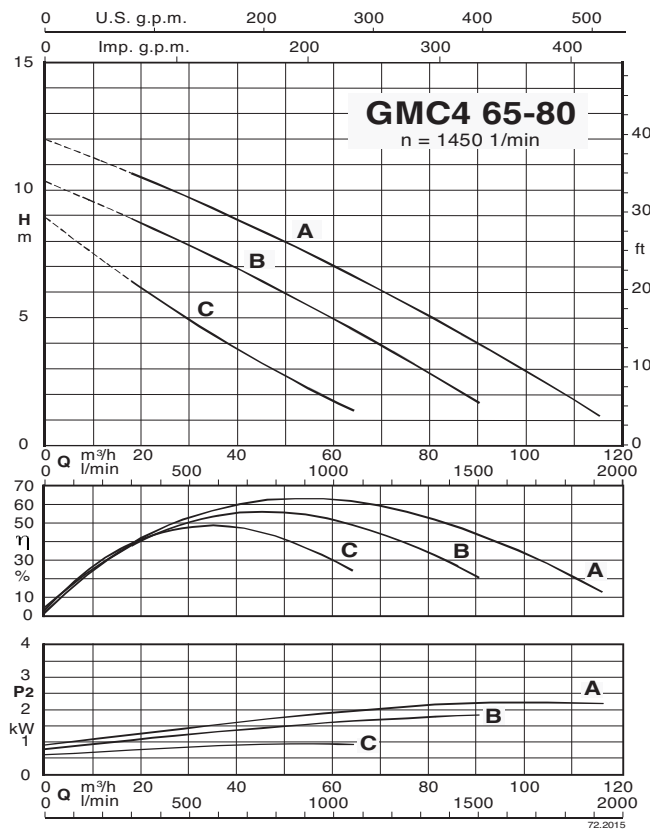
● Standard

✓ ATEX Eex Version on demand

Characteristic curves

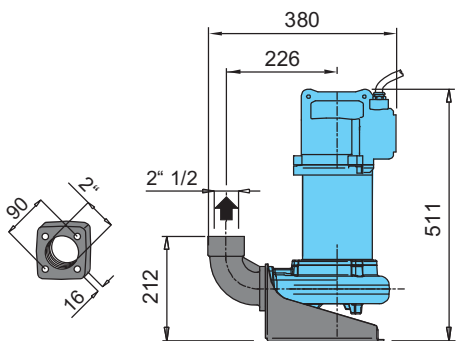
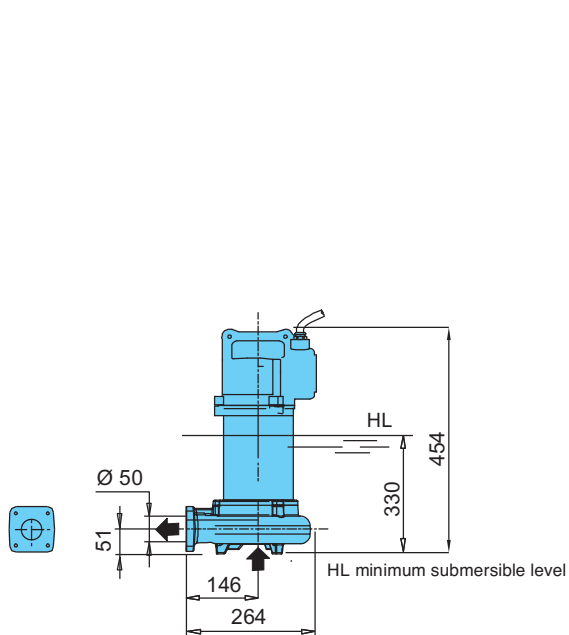


Characteristic curves

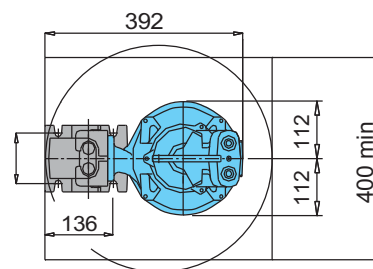
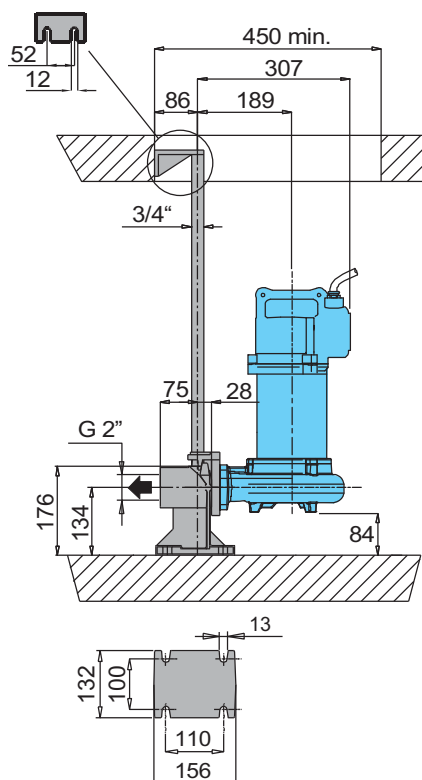


Dimensions and weights

GMC 30-50



Version with foot and 90° elbow

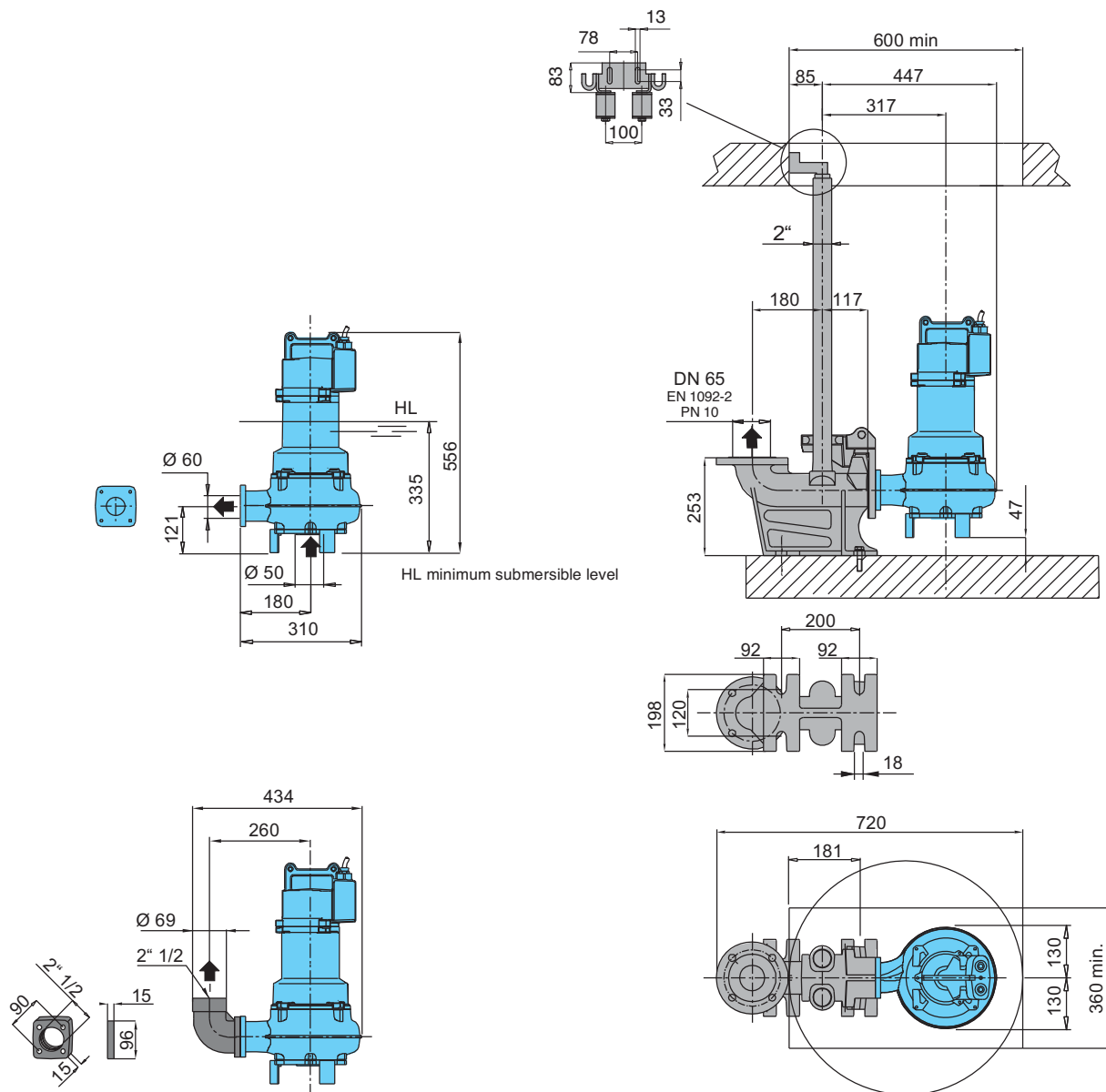


Version with duck foot coupling

TYPE	Weight kg
GMCM 30-50B	45
GMC 30-50B	
GMC 30-50A	

Dimensions and weights

GMC 40-65



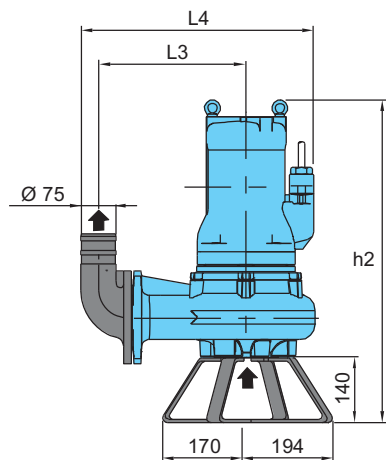
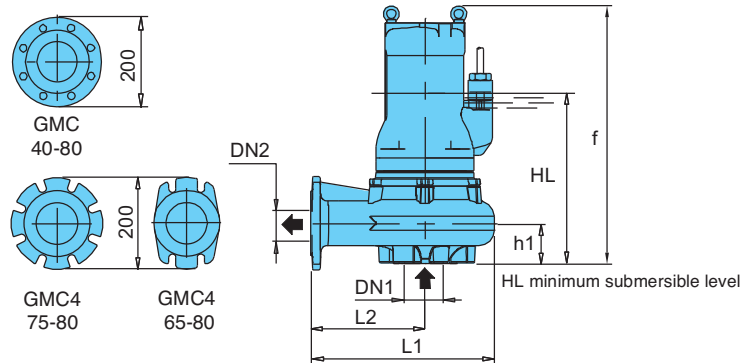
Version with foot and 90° elbow

Version with duck foot coupling

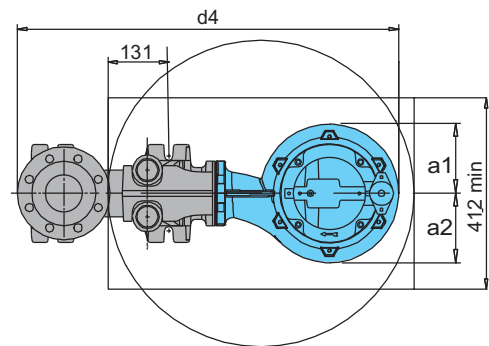
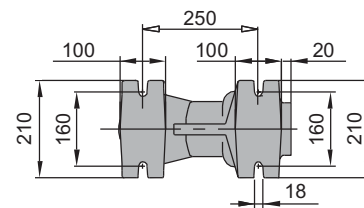
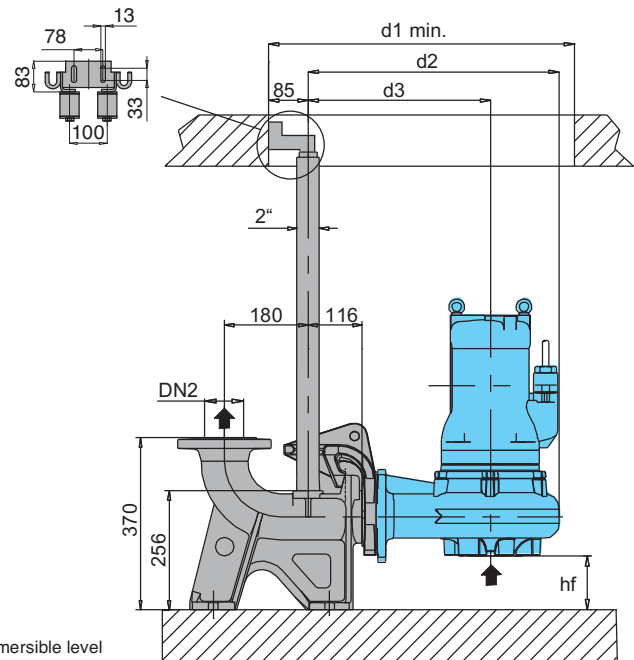
TYPE	Weight kg
GMCM 40-65B	45
GMC 40-65B	
GMC 40-65A	

Dimensions and weights

GMC 40-80
GMC4M 65-80
GMC4 65-80
GMC4 75-80



Version with foot and 90° elbow

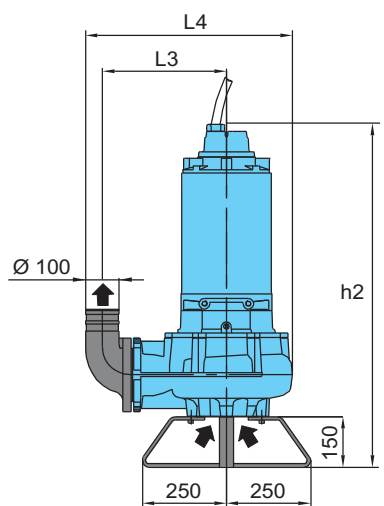
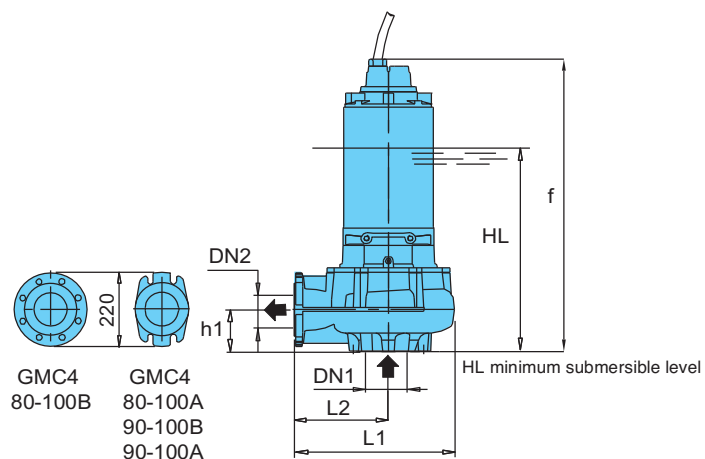


Version with duck foot coupling

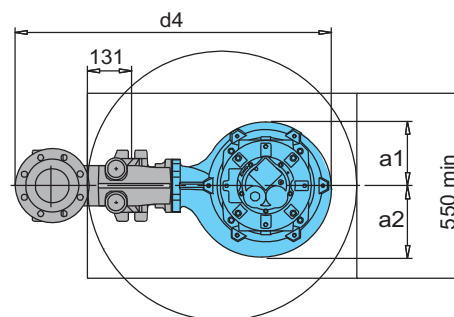
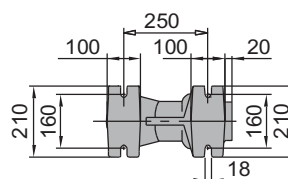
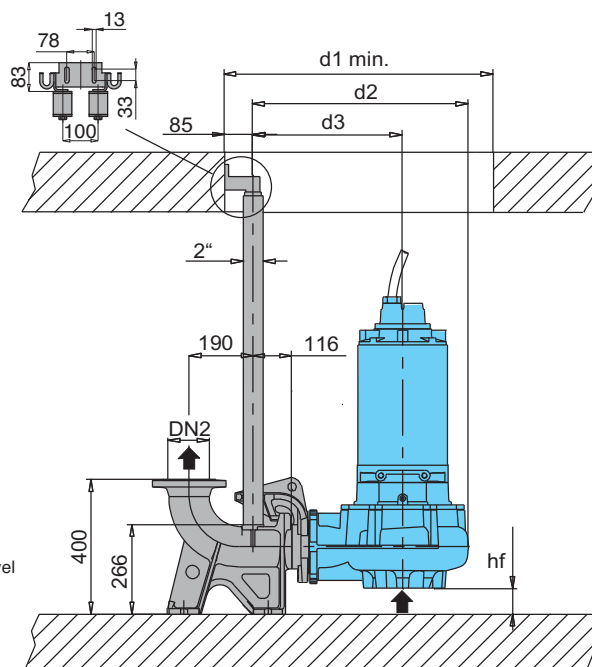
TYPE	EN 1092-2 PN 10		Dimensions mm																Weight kg
	DN1	DN2	f	HL	hf	h1	h2	a1	a2	d1	d2	d3	d4	L1	L2	L3	L4		
GMC 40-80D	80	80	890	523	85	116	1040	168	168	750	603	416	883	437	250	323	547	190	
GMC 40-80C																			
GMC 40-80B																			
GMC 40-80A																			
GMC4M 65-80C	80	80	533	330	104	100	673	132	132	658	498	366	775	332	200	273	442	49	
GMC4 65-80C																			
GMC4 65-80B	80	80	519	360	84	116	659	136	157	658	511	366	791	365	220	293	475	67	
GMC4 65-80A																			
GMC4 75-80A	80	80	516	380	80	121	656	143	169	700	548	396	828	402	250	323	512	66	

Dimensions and weights

GMC4 80-100 GMC4 90-100



Version with foot and 90° elbow

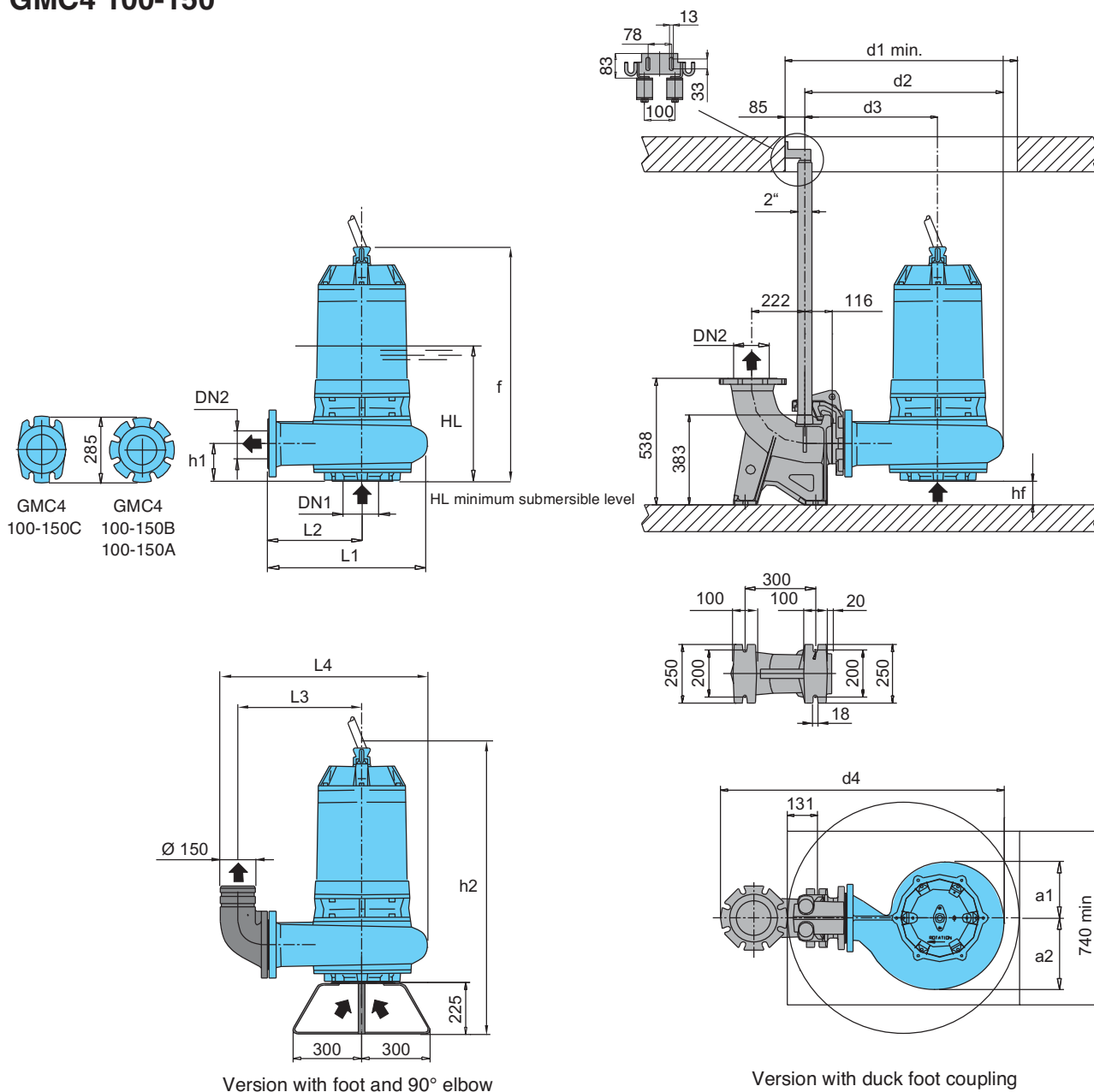


Version with duck foot coupling

TYPE	EN 1092-2 PN 10		Dimensions mm															Weight kg
	DN1	DN2	f	HL	hf	h1	h2	a1	a2	d1	d2	d3	d4	L1	L2	L3	L4	
GMC4 80-100C GMC4 80-100B	125	100	597	420	62	138	747	180	231	850	673	466	973	507	300	390	647	117
GMC4 80-100A	125	100	852	520	54	147	1002	189	212	800	640	445	940	474	279	369	614	161
GMC4 90-100B GMC4 90-100A	125	100	920	570	54	147	1070	189	212	800	640	445	940	474	279	369	614	204

Dimensions and weights

GMC4 100-150



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TYPE	EN 1092-2 PN 10		Dimensions mm																Weight kg
	DN1	DN2	f	HL	hf	h1	h2	a1	a2	d1	d2	d3	d4	L1	L2	L3	L4		
GMC4 100-150C	150	150	933	580	113	147	1155	191	223	850	673	467	1038	507	301	431	712	218	
GMC4 100-150B/A	150	150	1354	660	80	180	1494	239	304	990	840	566	1208	673	400	530	875	375	
GMC4 100-150A/A			1410	760			1632											450	



Main materials

Pump casing: cast iron EN-GJL-250
 Impeller: cast iron EN-GJL-250+Ni
 Motor casing: cast iron EN-GJL-250
 Motor cover: cast iron EN-GJL-250
 Shaft: stainless steel AISI 420B
 Mechanical seal motor side: graphite/ceramic
 Mechanical seal pump side: silicon carbide/silicon carbide

Construction

Submersible pumps with channels impeller.
 Twin mechanical seal with oil chamber.
 Delivery connection DN 65-80-100-150-200-250-300.

Applications

Suitable to pump slurry, sewage and waste water (non-corrosive) with solids in suspension.
 For industrial and residential installations and general drainage applications.
 They are ideal for applications with smaller solids.
 Solid passage from 30 to 140 mm

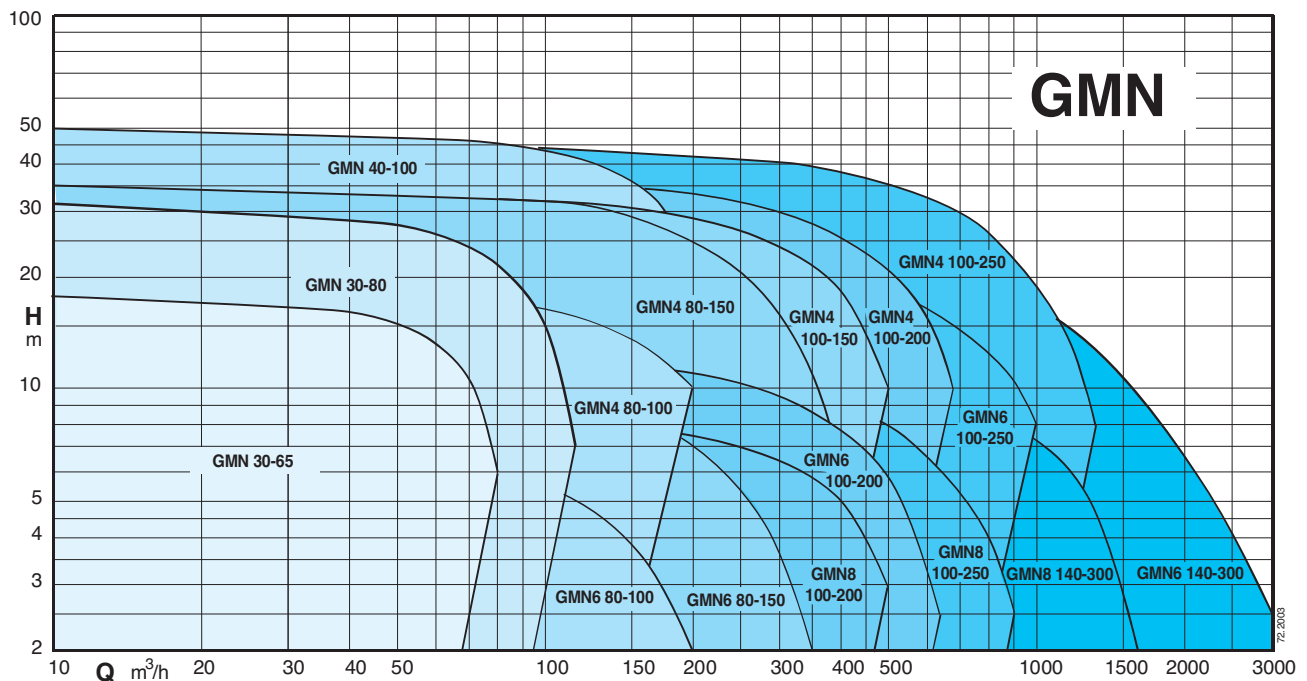
Operating conditions

Liquid temperature up to 40 °C.
 Maximum immersion depth: 20 m (with suitable cable length).
 Continuous duty (with pump immersed at minimum level).

Motor

2-4-6 or 8 poles induction, 50Hz
 Three-phase version: 400V $\pm$ 10%, up to 3,2 kW
 400/690V $\pm$ 10%, over 3,2 kW
 Insulation class: H
 Protection degree: IP 68
 N° of starting x hour: max 15 with regular intervals
 Cable: H07RN-F, length 10 m
 Other models: contact our sale office

Coverage chart



Technical data

TYPE	P ₂ kW	I _N A	Power Supply	r.p.m.	Starting	DN mm	Free passage Ø mm	Thermal protector	Humidity probe	 ATEX Eex
GMN 30-65B	3,2	6,5	3~ 400V	2850	D.O.L.	65	30	NO	NO	✓
GMN 30-65A	3,2	6,5	3~ 400V	2850	D.O.L.	65	30	NO	NO	✓
GMN 30-80B	5,7	12,5	3~ 400/690V	2850	Y/Δ	80	30	●	●	✓
GMN 30-80A	5,7	12,5	3~ 400/690V	2850	Y/Δ	80	30	●	●	✓
GMN 30-80S	8,2	15,5	3~ 400/690V	2850	Y/Δ	80	30	●	●	
GMN 40-100D	13,8	29,5	3~ 400/690V	2850	Y/Δ	100	40	●	●	✓
GMN 40-100C	13,8	29,5	3~ 400/690V	2850	Y/Δ	100	40	●	●	✓
GMN 40-100B	18,2	34	3~ 400/690V	2850	Y/Δ	100	40	●	●	✓
GMN 40-100S	22,4	40,1	3~ 400/690V	2850	Y/Δ	100	40	●	●	
GMN4 80-100D	4,6	9,5	3~ 400/690V	1450	Y/Δ	100	80	●	●	✓
GMN4 80-100C	7,1	13,5	3~ 400/690V	1450	Y/Δ	100	80	●	●	✓
GMN4 80-100A	11,6	23,2	3~ 400/690V	1450	Y/Δ	100	80	●	●	✓
GMN6 80-100B	2,3	6	3~ 400V	950	D.O.L.	100	80	NO	NO	✓
GMN6 80-100A	2,8	6,6	3~ 400V	950	D.O.L.	100	80	NO	NO	✓
GMN6 80-150B	5,2	12,5	3~ 400/690V	950	Y/Δ	150	80	●	●	✓
GMN6 80-150A	6,4	16	3~ 400/690V	950	Y/Δ	150	80	●	●	✓
GMN6 100-150B/A	16	34,2	3~ 400/690V	950	Y/Δ	150	100	●	●	
GMN6 100-150A/A	16	34,2	3~ 400/690V	950	Y/Δ	150	100	●	●	
GMN4 80-150C/A	27	52,2	3~ 400/690V	1450	Y/Δ	150	80	●	●	
GMN4 80-150B/A	35,7	65,5	3~ 400/690V	1450	Y/Δ	150	80	●	●	
GMN4 100-150G	20,7	41,5	3~ 400/690V	1450	Y/Δ	150	100	●	●	
GMN4 100-150F	25,4	48,5	3~ 400/690V	1450	Y/Δ	150	100	●	●	
GMN4 100-150E/A	26,1	51	3~ 400/690V	1450	Y/Δ	150	100	●	●	
GMN4 100-150D/A	35,7	65,5	3~ 400/690V	1450	Y/Δ	150	100	●	●	
GMN4 100-150S/A	35,7	65,5	3~ 400/690V	1450	Y/Δ	150	100	●	●	
GMN4 100-200C	46	83,5	3~ 400/690V	1450	Y/Δ	200	100	●	●	
GMN4 100-200B	52,1	92,5	3~ 400/690V	1450	Y/Δ	200	100	●	●	
GMN4 100-200A	52,1	92,5	3~ 400/690V	1450	Y/Δ	200	100	●	●	
GMN4 100-250D	77,2	135	3~ 400/690V	1450	Y/Δ	250	100	●	●	
GMN4 100-250C	77,2	135	3~ 400/690V	1450	Y/Δ	250	100	●	●	
GMN4 100-250B	79,5	135	3~ 400/690V	1450	Y/Δ	250	100	●	●	
GMN4 100-250A	79,5	135	3~ 400/690V	1450	Y/Δ	250	100	●	●	
GMN6 100-200F/A	16	34,2	3~ 400/690V	950	Y/Δ	200	100	●	●	
GMN6 100-200E/A	16	34,2	3~ 400/690V	950	Y/Δ	200	100	●	●	
GMN6 100-200D/A	16	34,2	3~ 400/690V	950	Y/Δ	200	100	●	●	
GMN6 100-250D	23,4	45,5	3~ 400/690V	950	Y/Δ	250	100	●	●	
GMN6 100-250C	29	57	3~ 400/690V	950	Y/Δ	250	100	●	●	
GMN6 100-250B	40	80	3~ 400/690V	950	Y/Δ	250	100	●	●	
GMN6 100-250A	40	80	3~ 400/690V	950	Y/Δ	250	100	●	●	
GMN6 140-300D	32	60,5	3~ 400/690V	950	Y/Δ	300	140	●	●	
GMN6 140-300C	40	80	3~ 400/690V	950	Y/Δ	300	140	●	●	
GMN6 140-300B	55,8	108	3~ 400/690V	950	Y/Δ	300	140	●	●	
GMN6 140-300A	55,8	108	3~ 400/690V	950	Y/Δ	300	140	●	●	
GMN8 100-200B/B	9,6	20	3~ 400/690V	750	Y/Δ	200	100	●	●	
GMN8 100-200A	9,6	20	3~ 400/690V	750	Y/Δ	200	100	●	●	
GMN8 100-250B/A	13,7	29,5	3~ 400/690V	750	Y/Δ	250	100	●	●	
GMN8 100-250A/B	21,8	47,5	3~ 400/690V	750	Y/Δ	250	100	●	●	
GMN8 140-300A	26,7	59	3~ 400/690V	750	Y/Δ	300	140	●	●	

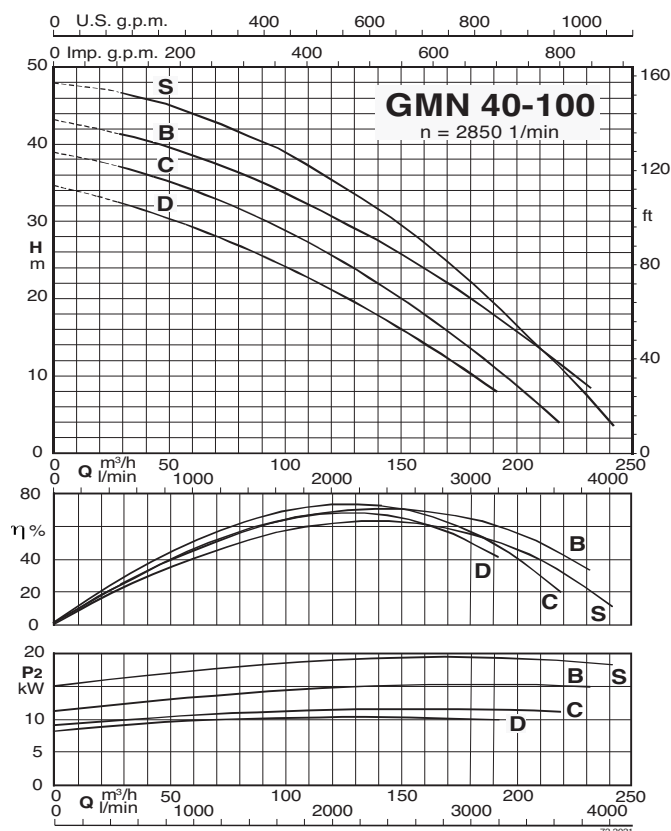
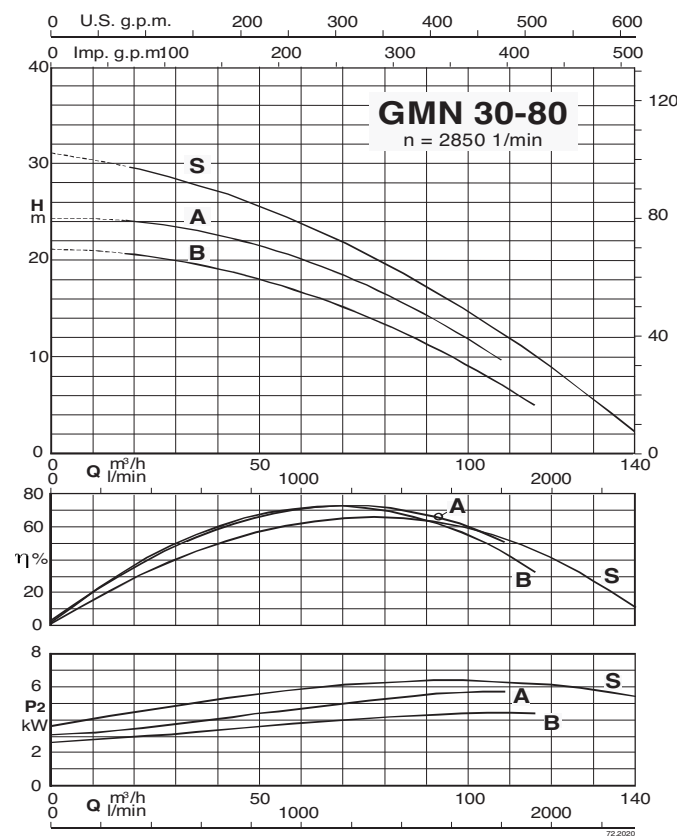
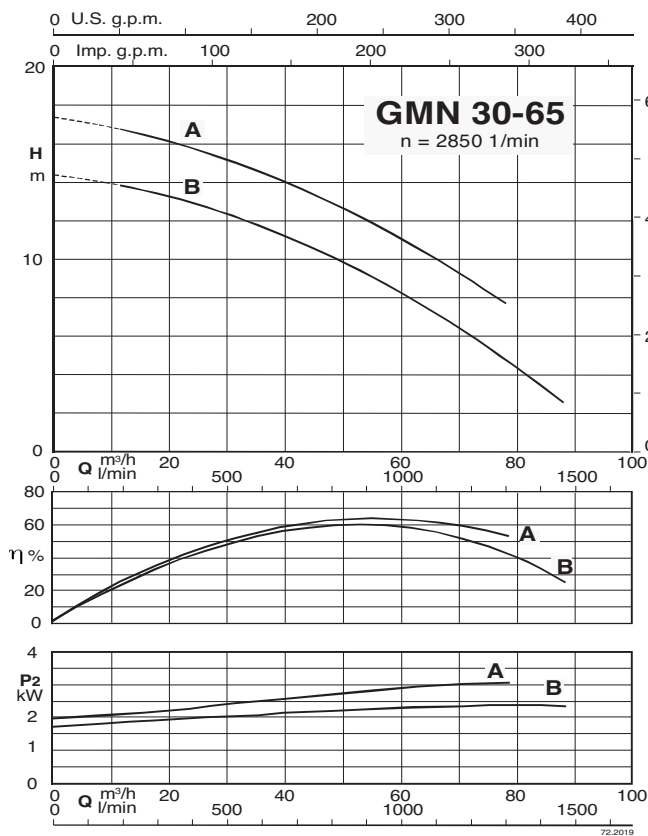
P₂ Rated power output

I_N Rated current

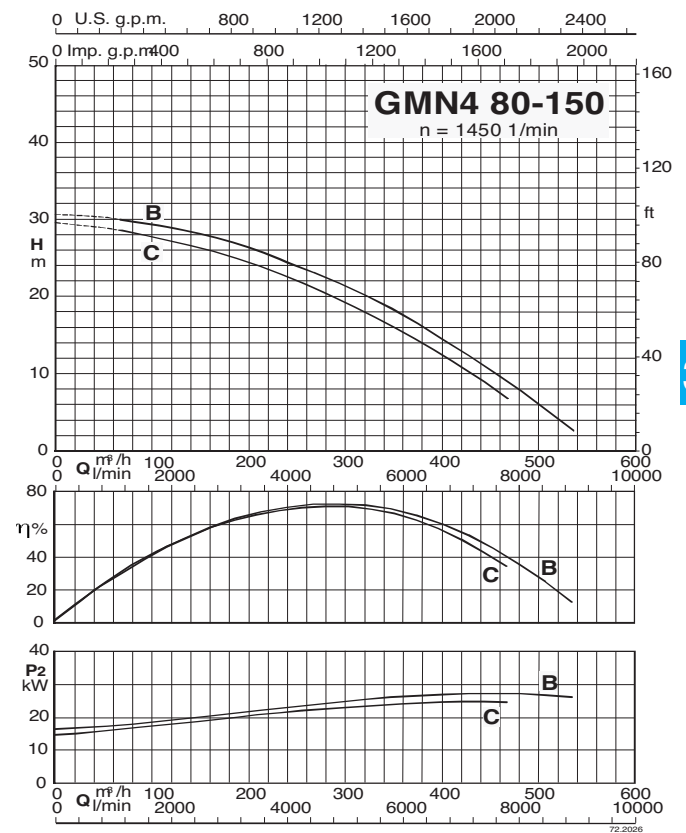
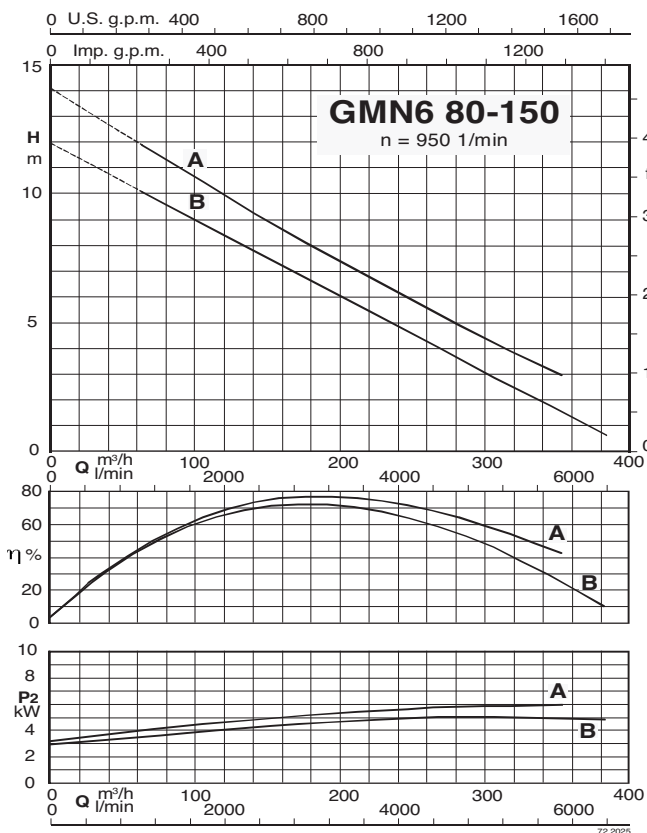
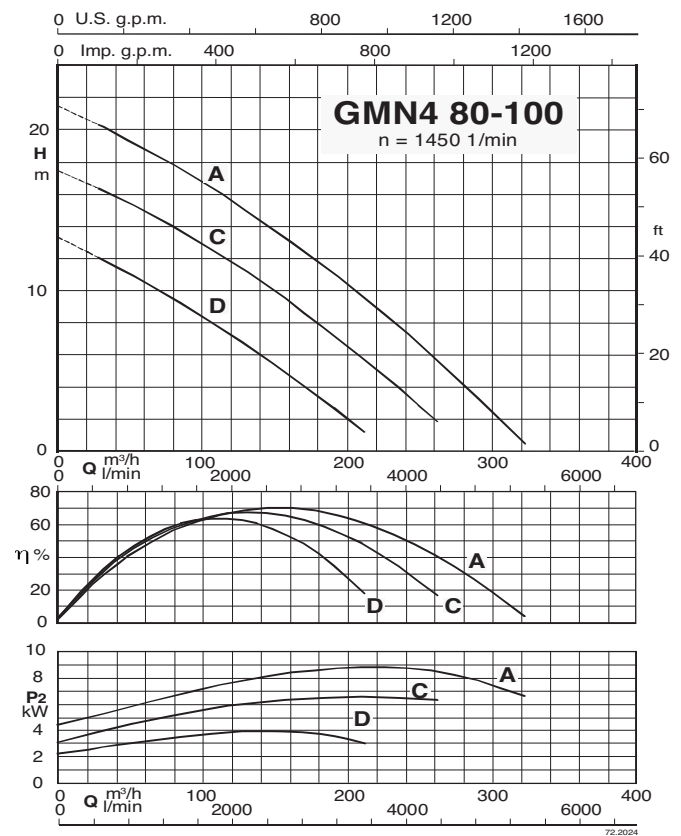
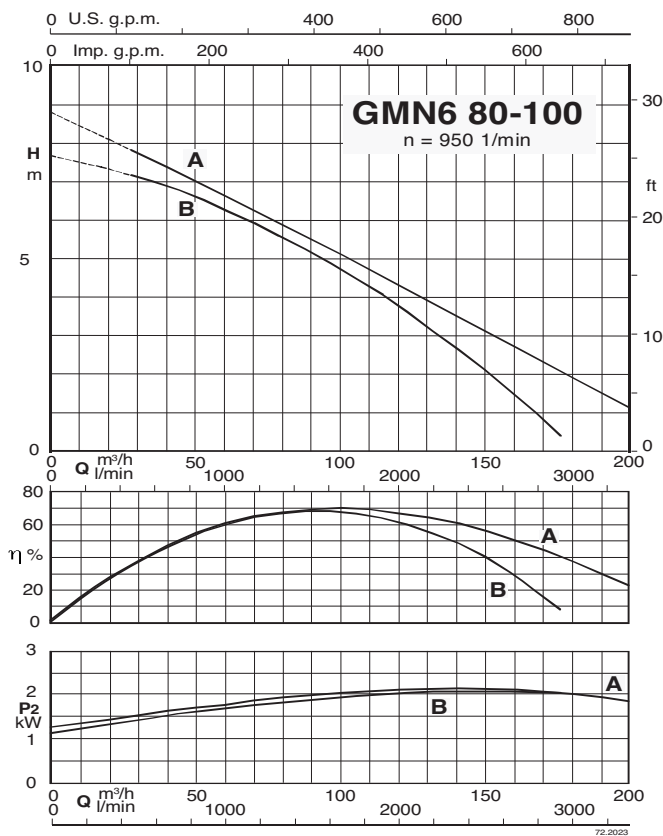
● Standard

✓ ATEX Eex Version on demand

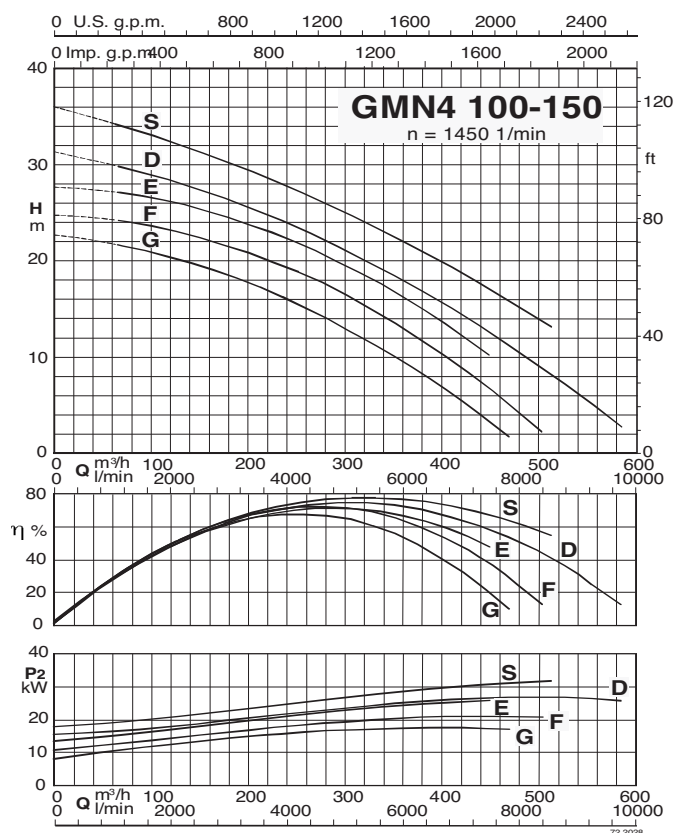
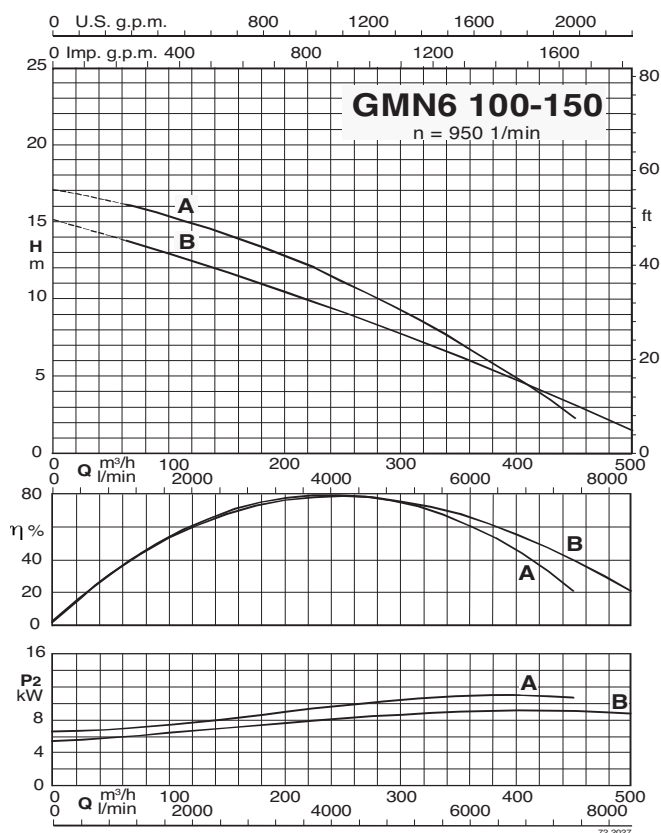
Characteristic curves



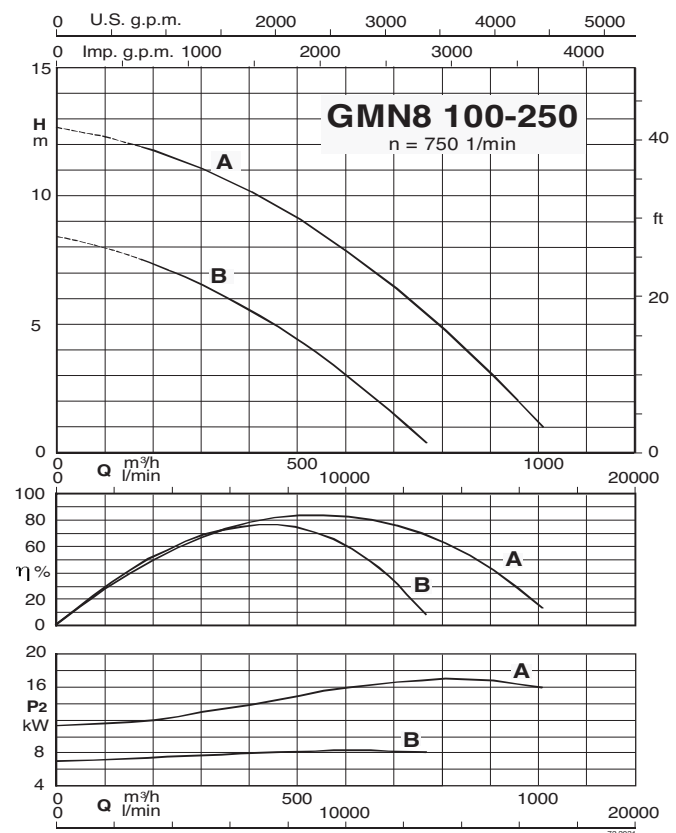
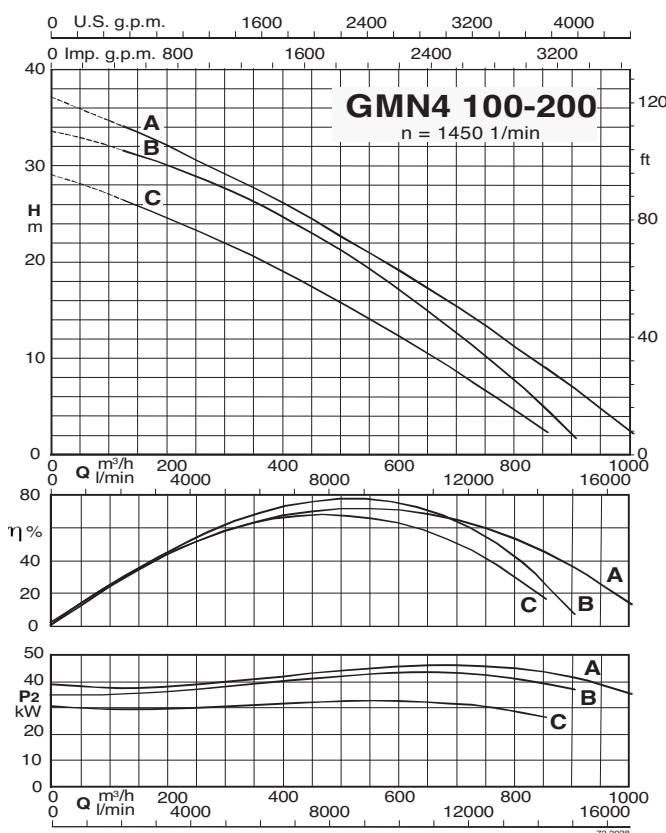
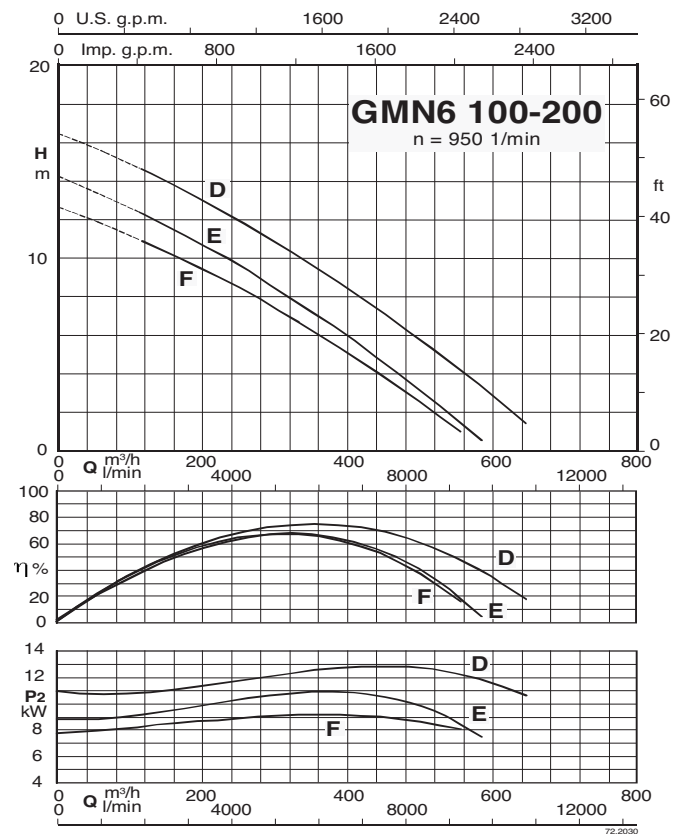
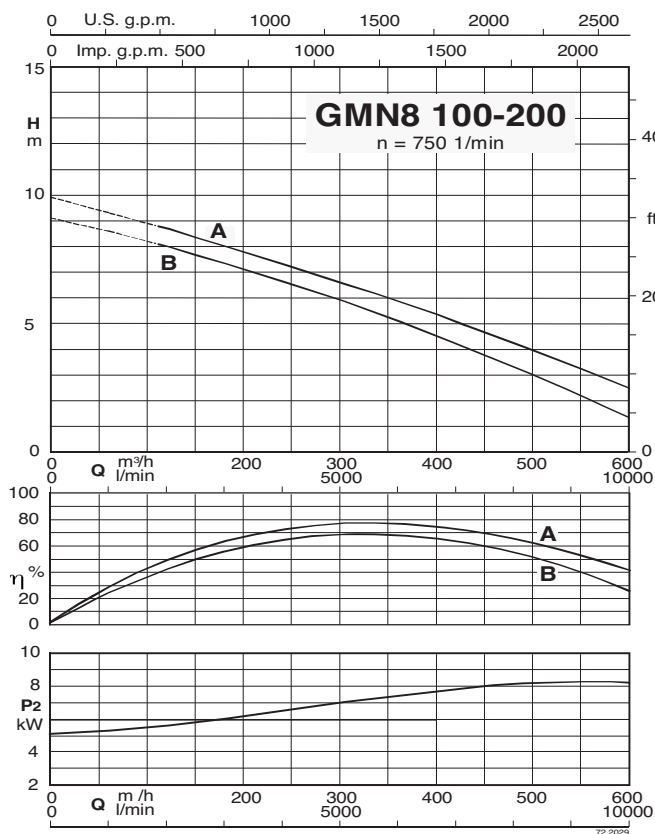
Characteristic curves



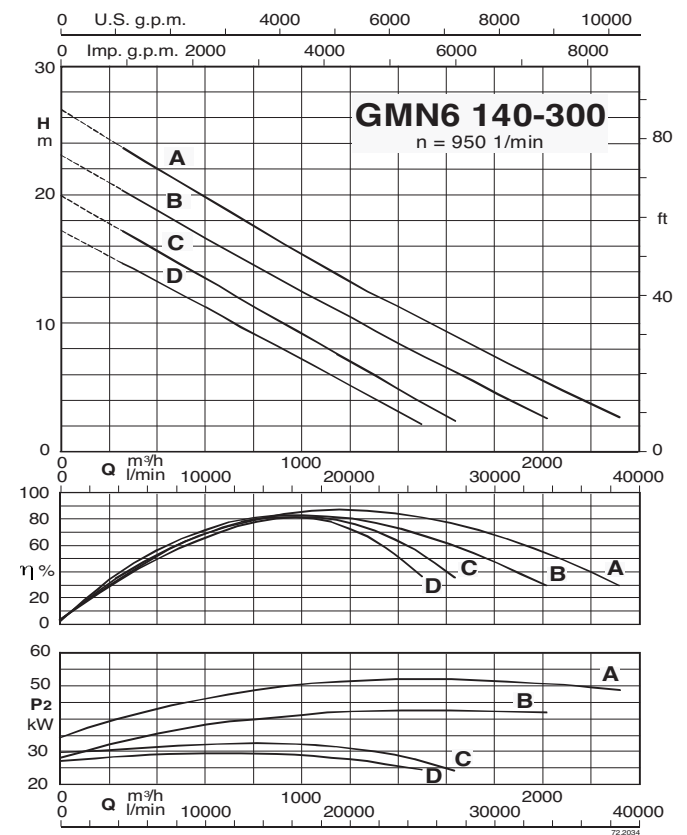
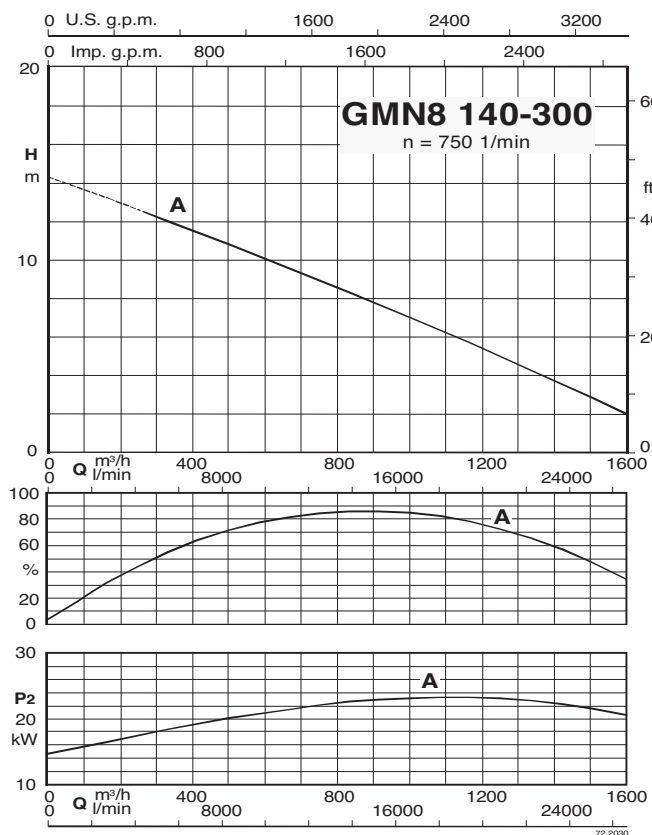
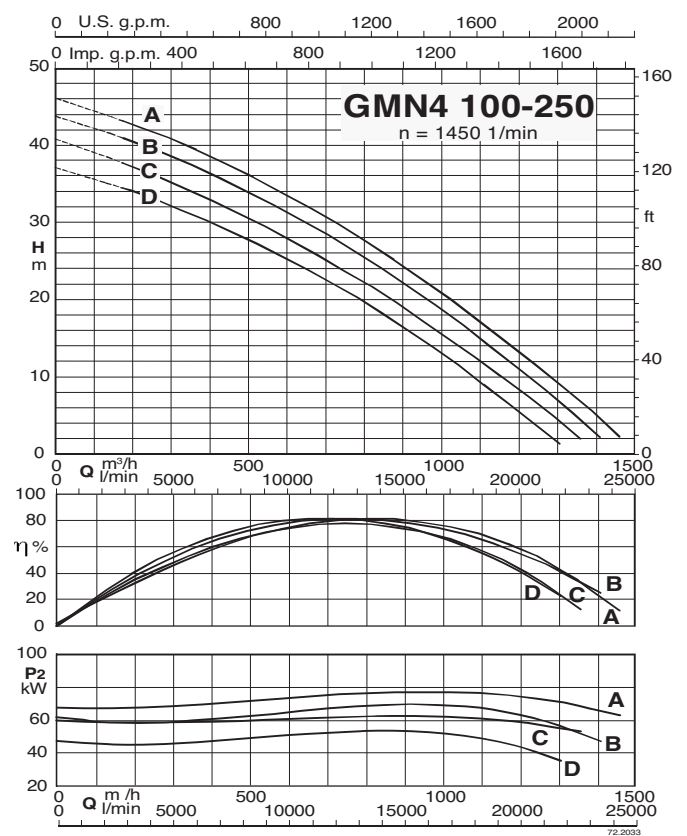
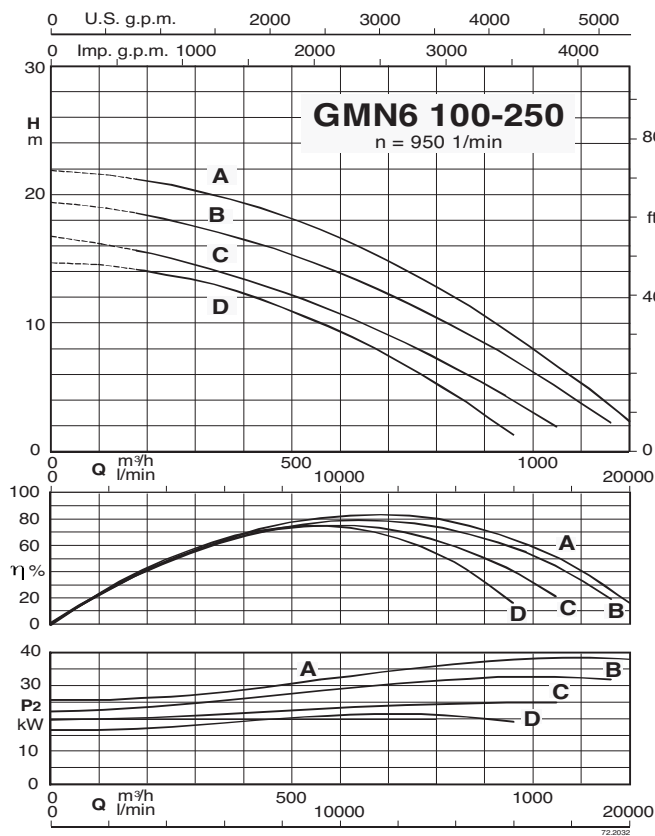
Characteristic curves



Characteristic curves

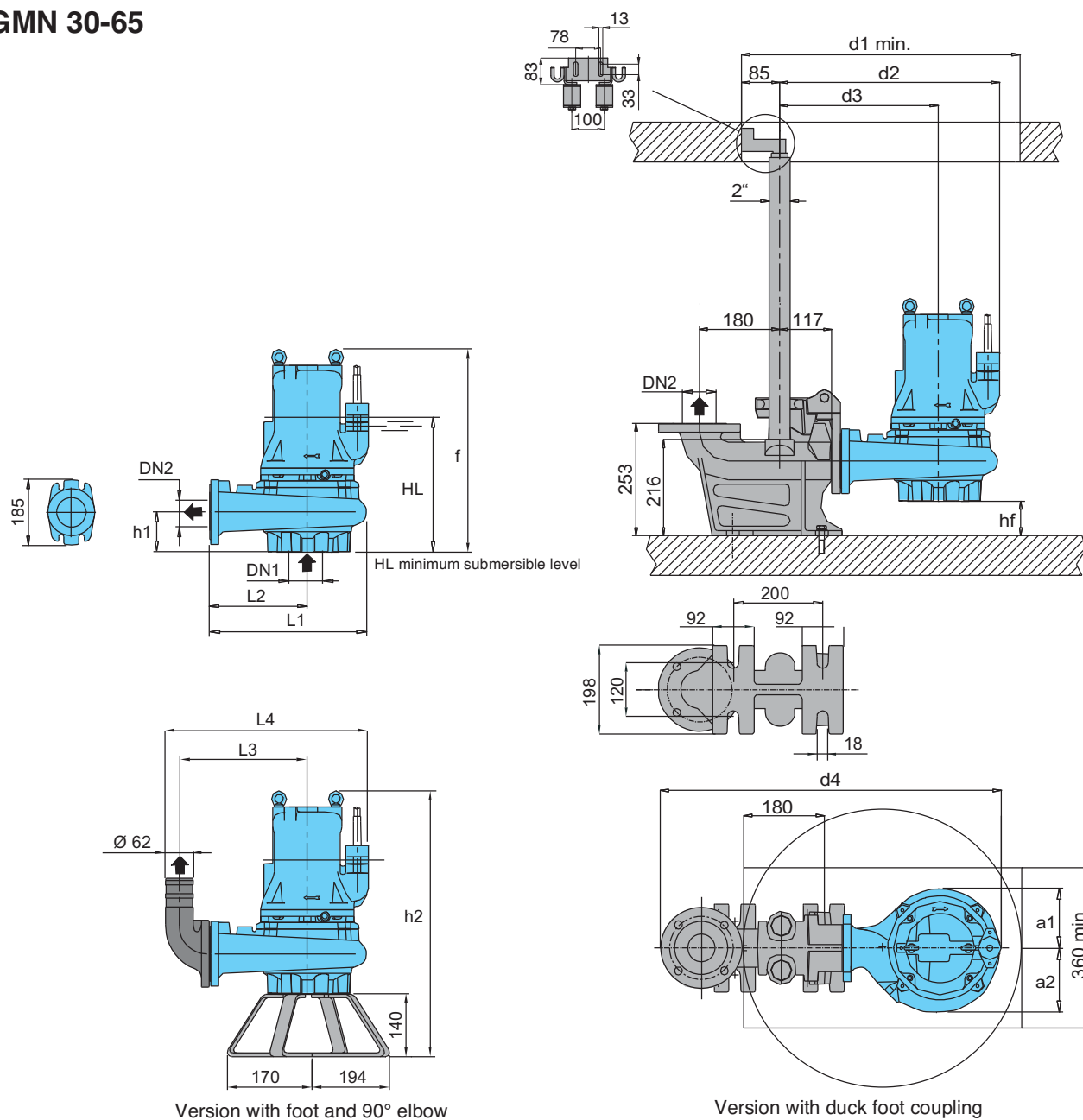


Characteristic curves



Dimensions and weights

GMN 30-65

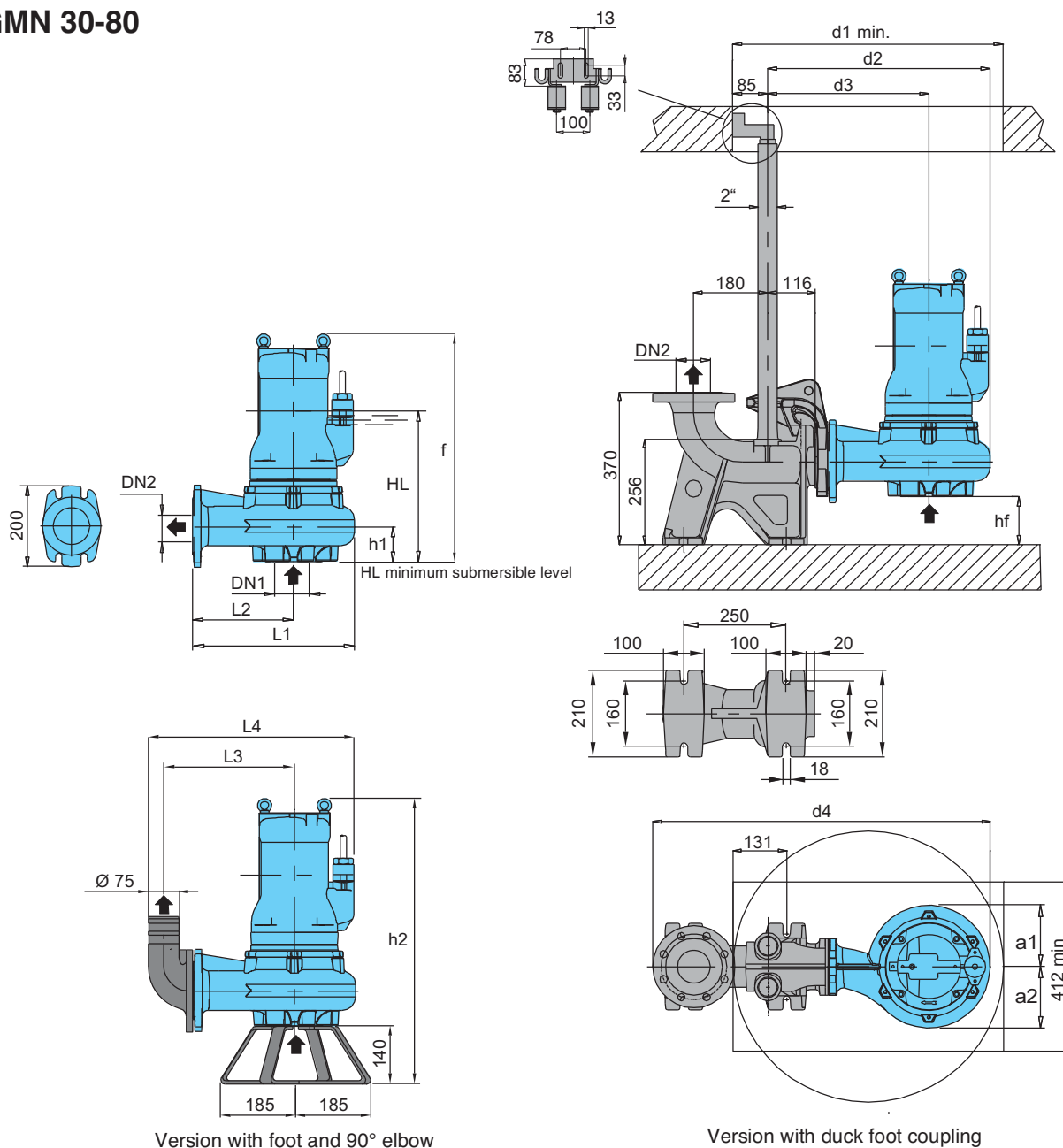


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TYPE	EN 1092-2 PN 10		Dimensions mm															Weight kg
	DN1	DN2	f	HL	hf	h1	h2	a1	a2	d1	d2	d3	d4	L1	L2	L3	L4	
GMN 30-65B	80	65	456	300	78	90	596	133	145	625	495	357	767	358	220	289	458	61
GMN 30-65A																		

Dimensions and weights

GMN 30-80



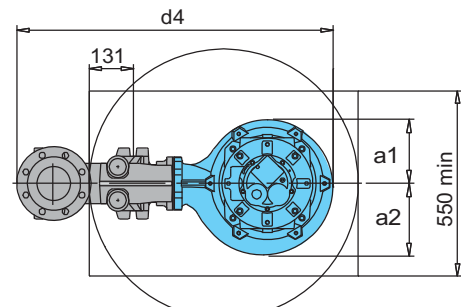
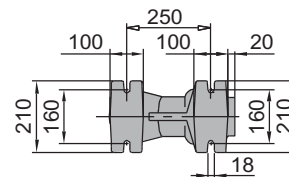
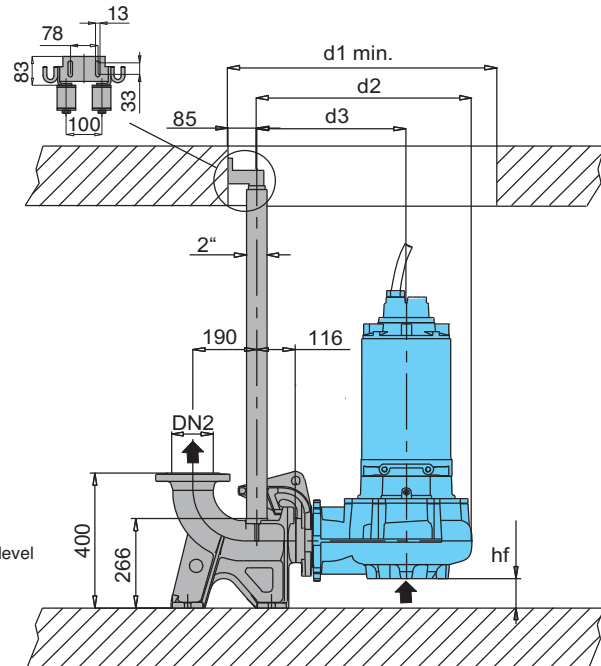
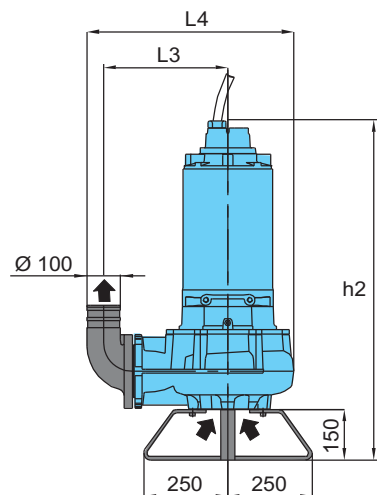
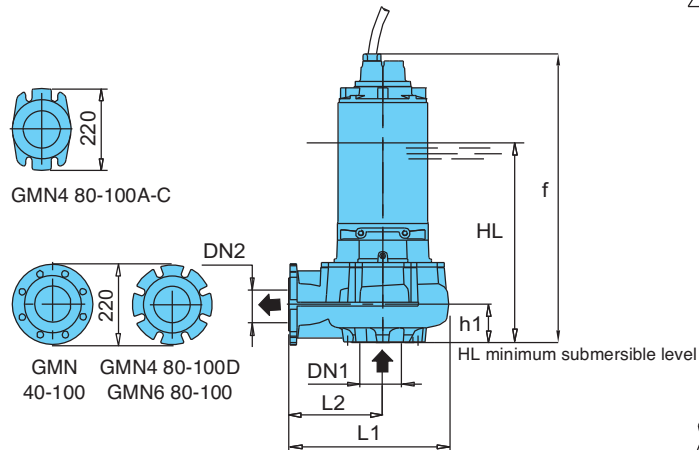
Version with foot and 90° elbow

Version with duck foot coupling

TYPE	EN 1092-2 PN 10		Dimensions mm															Weight kg
	DN1	DN2	f	HL	hf	h1	h2	a1	a2	d1	d2	d3	d4	L1	L2	L3	L4	
GMN 30-80B	80	80	515	330	110	90	655	133	145	700	511	366	791	365	220	293	475	77
GMN 30-80A	80	80	767	438	132	68	917	165	165	700	571	386	851	405	220	292	515	150

Dimensions and weights

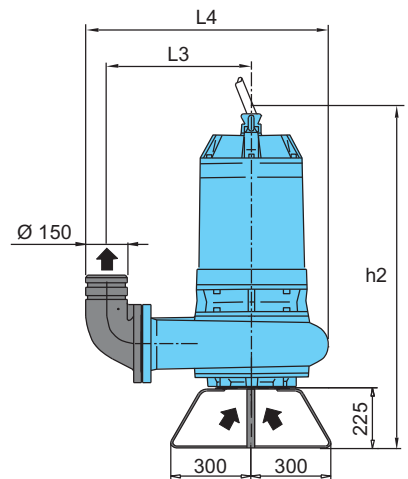
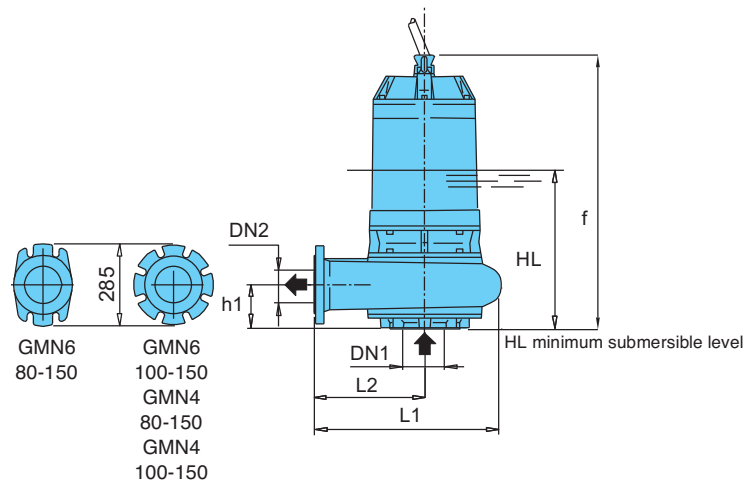
GMN 40-100
GMN 50-100
GMN4 80-100
GMN6 80-100



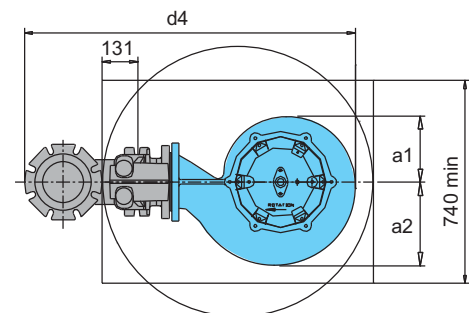
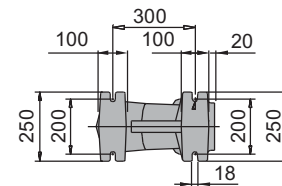
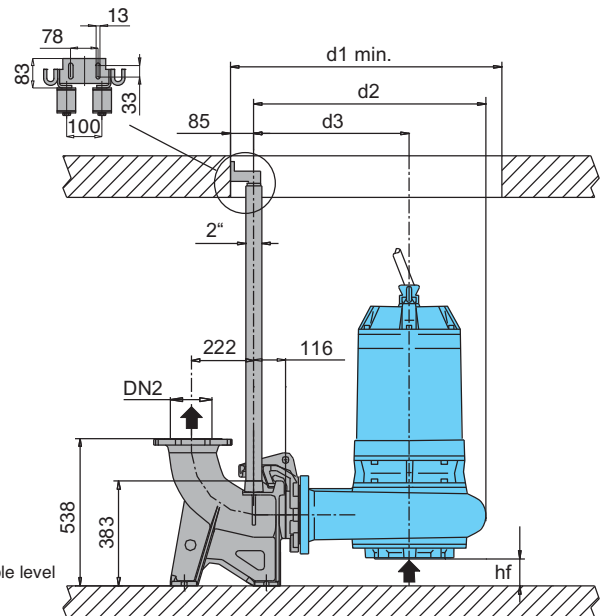
TYPE	EN 1092-2 PN 10		Dimensions mm														Weight kg	
	DN1	DN2	f	HL	hf	h1	h2	a1	a2	d1	d2	d3	d4	L1	L2	L3		L4
GMN 40-100D	125	100	794	480	127	73	944	168	184	750	628	441	928	462	275	365	602	200
GMN 40-100C																		
GMN 40-100B																		
GMN 40-100S	125	100	1269	570	127	73	1419	193	193	800	628	441	928	462	280	365	602	340
GMN4 80-100D	125	100	597	424	62	138	747	180	231	850	673	466	973	507	300	390	647	110
GMN4 80-100C	125	100	852	526	54	147	1002	189	212	800	640	445	940	474	279	369	614	160
GMN4 80-100A	125	100	920	570	54	147	1040	189	212	800	640	445	940	474	279	369	614	200
GMN6 80-100B	125	100	531	372	62	138	681	180	231	850	673	466	973	507	300	390	647	86
GMN6 80-100A			597	424			747											111

Dimensions and weights

GMN6 80-150
GMN6 100-150
GMN4 80-150
GMN4 100-150



Version with foot and 90° elbow

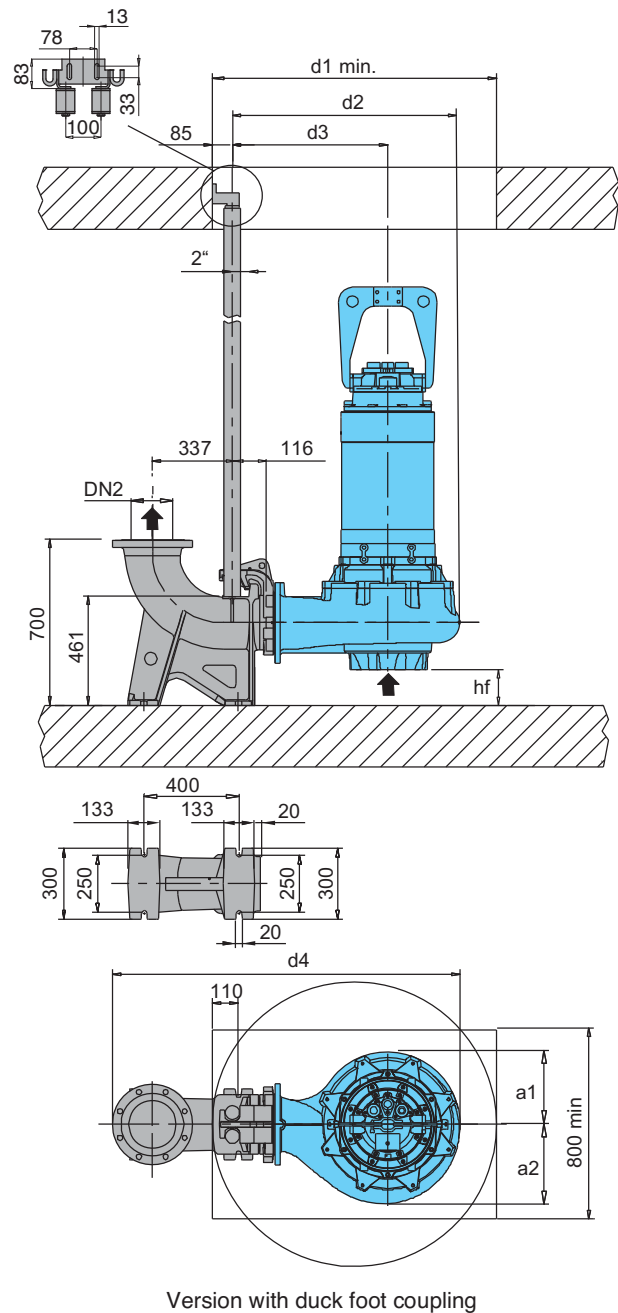
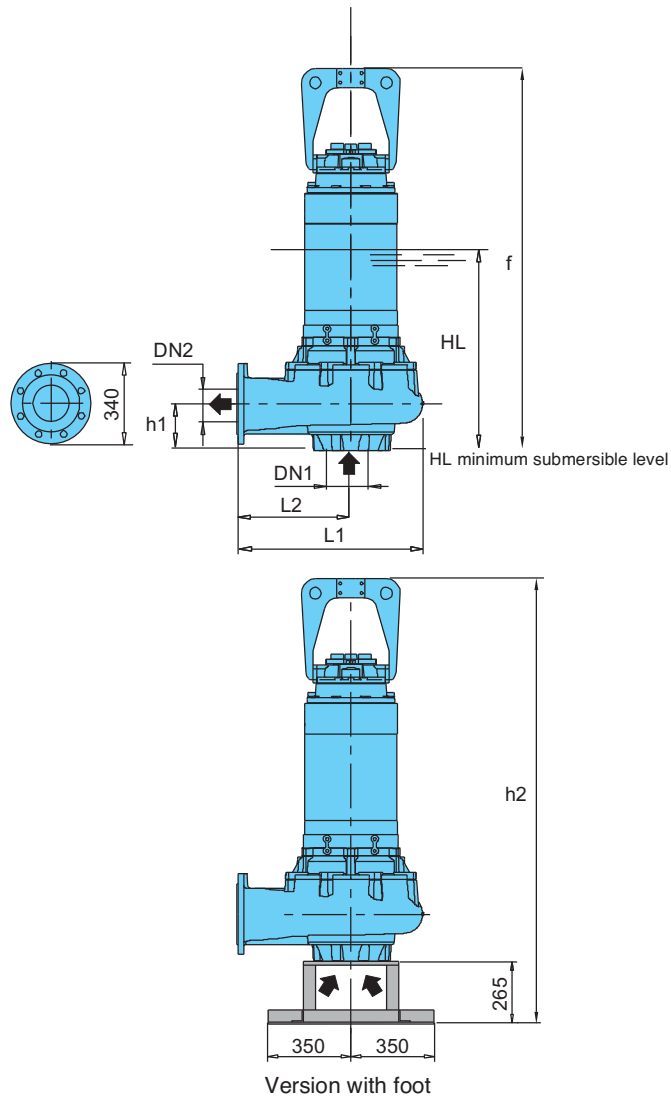


Version with duck foot coupling

TYPE	EN 1092-2 PN 10		Dimensions mm															Weight kg
	DN1	DN2	f	HL	hf	h1	h2	a1	a2	d1	d2	d3	d4	L1	L2	L3	L4	
GMN6 80-150B	150	150	820	540	113	147	1042	191	223	850	673	467	1038	507	301	431	712	186
GMN6 80-150A			933	580			1155											220
GMN6 100-150B/A	150	150	1409	737	80	180	1630	239	304	990	840	566	1208	673	400	530	878	450
GMN6 100-150A/A			1409	737			1630											
GMN4 80-150C/A	150	150	1409	737	80	180	1630	239	304	990	840	566	1208	673	400	530	878	450
GMN4 80-150B/A	150	150	1439	742	80	180	1660	239	304	990	840	566	1208	673	400	530	878	515
GMN4 100-150G	150	150	1409	737	80	180	1630	239	304	990	840	566	1208	673	400	530	878	450
GMN4 100-150F																		450
GMN4 100-150E/A																		450
GMN4 100-150D/A																		450
GMN4 100-150S/A	150	150	1439	742	80	180	1660	239	304	990	840	566	1208	673	400	530	878	515

Dimensions and weights

GMN4 100-200
GMN6 100-200
GMN8 100-200



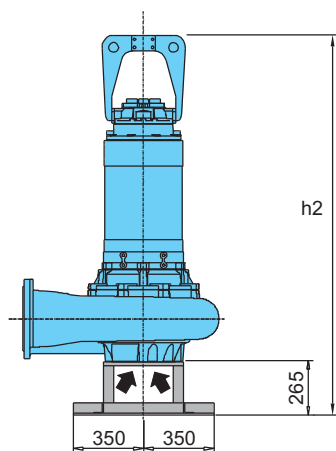
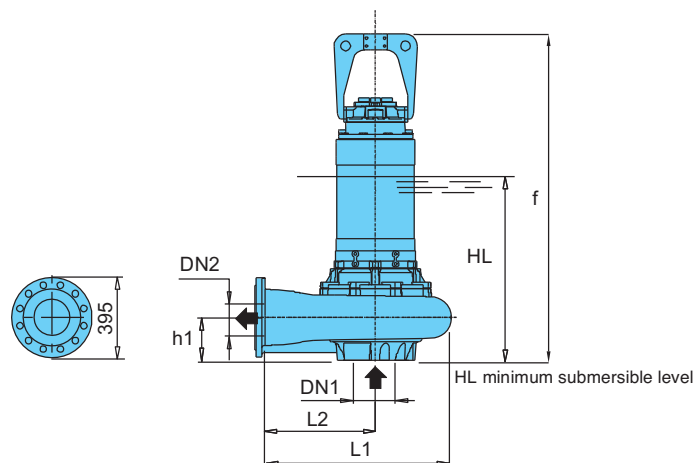
TYPE	EN 1092-2 PN 10		Dimensions mm														Weight kg	
	DN1	DN2	f	HL	hf	h1	h2	a1	a2	d1	d2	d3	d4	L1	L2	L3		L4
GMN4 100-200C	200	200	1613	780	153	198	1878	306	335	1200	962	656	1469	786	480	-	-	665
GMN4 100-200B																		
GMN4 100-200A																		
GMN6 100-200F/A	200	200	1392	665	153	180	1655	269	336	1200	958	656	1314	782	480	-	-	460
GMN6 100-200E/A																		
GMN6 100-200D/A																		
GMN8 100-200B/B GMN8 100-200A	200	200	1392	665	153	180	1655	269	335	1200	958	656	1314	782	480	-	-	435

Dimensions and weights

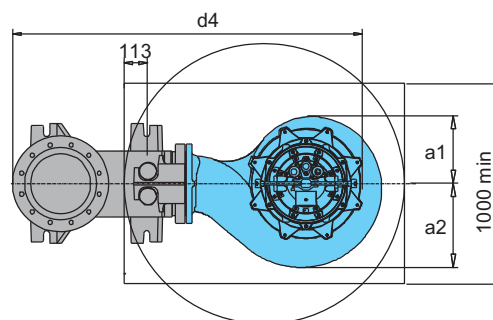
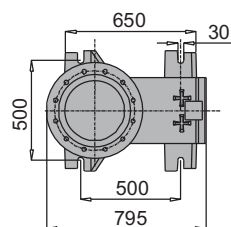
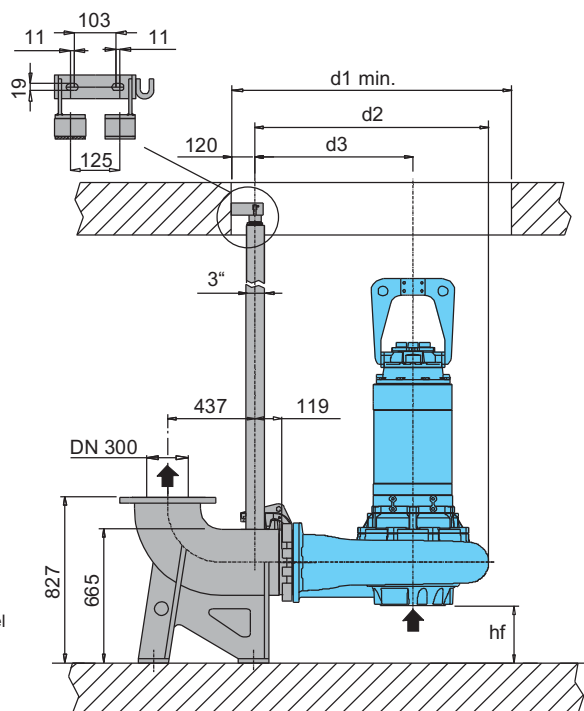
GMN4 100-250

GMN6 100-250

GMN8 100-250



Version with foot

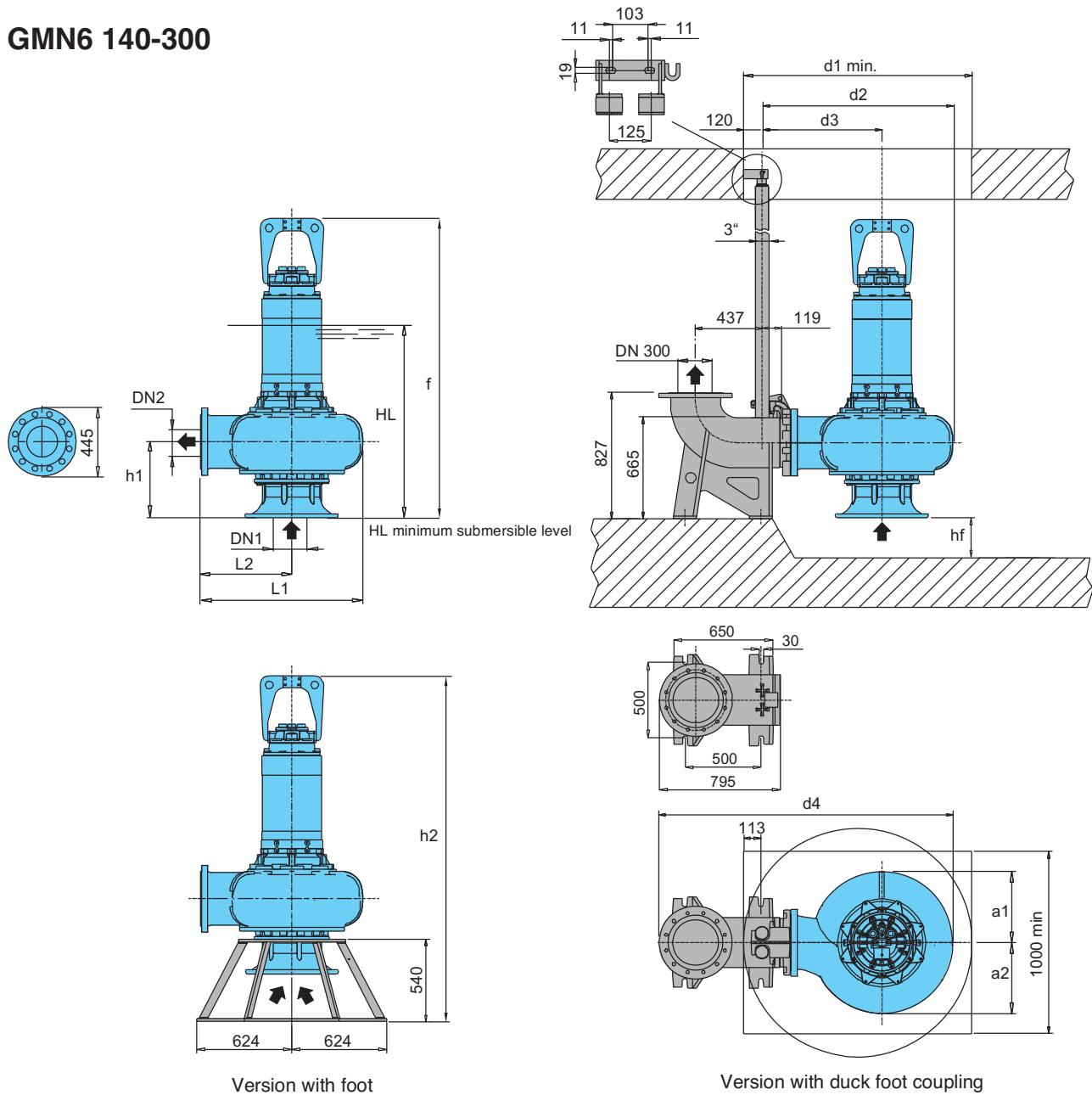


Version with duck foot coupling

TYPE	EN 1092-2 PN 10		Dimensions mm																Weight kg
	DN1	DN2	f	HL	hf	h1	h2	a1	a2	d1	d2	d3	d4	L1	L2	L3	L4		
GMN4 100-250D	250	250	1710	835	286	214	1975	336	419	1400	1167	789	1843	978	600	-	-	914	
GMN4 100-250C																			
GMN4 100-250B																			
GMN4 100-250A																			
GMN6 100-250D	250	250	1408 1437	735	250	180	1670 1702	336	419	1400	1203	789	1843	1014	600	-	-	510 590	
GMN6 100-250C																			
GMN6 100-250B																			
GMN6 100-250A																			
GMN8 100-250B/A	250	250	1408 1437	735	250	180	1670 1702	336	419	1400	1203	789	1843	1014	600	-	-	520 600	
GMN8 100-250A/B																			

Dimensions and weights

GMN6 140-300



TYPE	EN 1092-2 PN 10		Dimensions mm																Weight kg
	DN1	DN2	f	HL	hf	h1	h2	a1	a2	d1	d2	d3	d4	L1	L2	L3	L4		
GMN6 140-300D	350	300	1959	1127	260	494	2271	465	465	1500	1254	789	1930	1065	600	-	-	1042	
GMN6 140-300C																			
GMN6 140-300B	350	300	2040	1164	260	494	2352	465	465	1500	1254	789	1930	1065	600	-	-	1230	
GMN6 140-300A																			
GMN8 140-300A	350	300	1959	1127	260	494	2271	465	465	1500	1254	789	1930	1065	600	-	-	1024	



Construction

Submersible pumps with high power grinder.
Twin mechanical seal with oil chamber (lip-seal motor side up to 1,6 kW).
Delivery connection DN 40.

Applications

Suitable for pumping waste water containing long filamentous, Paper and textile materials and organics.
They are particularly suitable for use in domestic, residential and industrial installations
Solid passage from 6 and 7 mm

Operating conditions

Liquid temperature up to 40 °C.
Maximum immersion depth: 20 m (with suitable cable length).
Continuous duty (with pump immersed at minimum level).

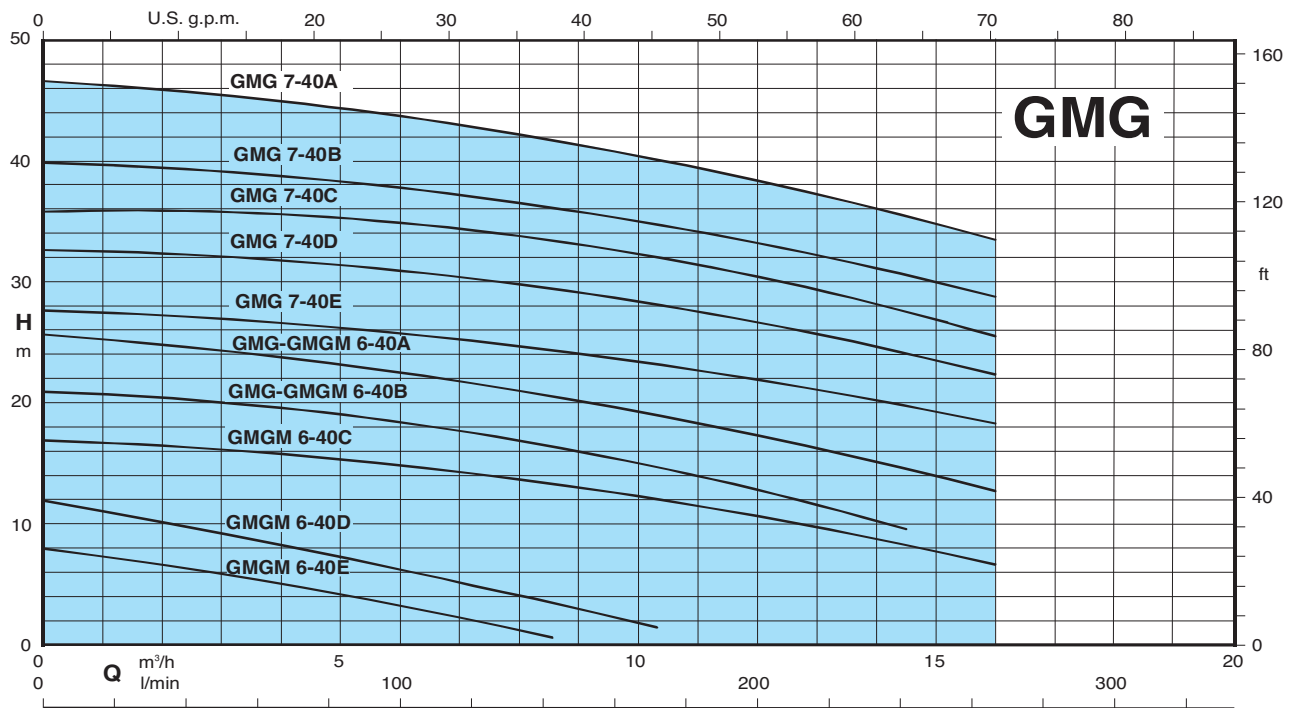
Motor

2 poles induction, 50Hz
Single-phase version: 230V $\pm$ 10%, with float switch and control box with thermal protection and starting capacitors.
Three-phase version: 400V $\pm$ 10%, up to 3,2 kW
400/690V $\pm$ 10%, over 3,2 kW
Insulation class: H
Protection degree: IP 68
N° of starting x hour: max 15 with regular intervals
Cable: H07RN-F, length 10 m
Other models: contact our sale office

Main materials

Pump casing: cast iron EN-GJL-250
Motor casing: cast iron EN-GJL-250
Motor cover: cast iron EN-GJL-250
Impeller: cast iron GS 400
Shaft : stainless steel AISI 420B
Lip seal made of nitrile up to 1,6 kW
Mechanical seal motor side: graphite/ceramic over 1,6 kW
Mechanical seal pump side: silicon carbide/silicon carbide

Coverage chart



Technical data

TYPE	P ₂ kW	I _N A	Power Supply	r.p.m.	Starting	DN mm	Free passage Ø mm	Thermal protector	Humidity probe	ATEX Eex
GMGM 6-40E/A	1,1	7,5	1~ 230V	2850	D.O.L.	40	6	●	NO	
GMGM 6-40D/A	1,1	7,5	1~ 230V	2850	D.O.L.	40	6	●	NO	
GMGM 6-40C	1,1	7,5	1~ 230V	2850	D.O.L.	40	6	●	NO	
GMGM 6-40B	1,1	7,5	1~ 230V	2850	D.O.L.	40	6	●	NO	
GMG 6-40B	1,4	3,5	3~ 400V	2850	D.O.L.	40	6	NO	NO	✓
GMGM 6-40A	1,8	10	1~ 230V	2850	D.O.L.	40	6	●	NO	
GMG 6-40A	2,4	5	3~ 400V	2850	D.O.L.	40	6	NO	NO	✓
GMG 7-40E	3,2	6,5	3~ 400V	2850	D.O.L.	40	7	NO	NO	✓
GMG 7-40D	3,2	6,5	3~ 400V	2850	D.O.L.	40	7	NO	NO	✓
GMG 7-40C	4,1	8,5	3~ 400/690V	2850	Y/Δ	40	7	●	●	✓
GMG 7-40B	5	11	3~ 400/690V	2850	Y/Δ	40	7	●	●	✓
GMG 7-40A	5	11	3~ 400/690V	2850	Y/Δ	40	7	●	●	✓

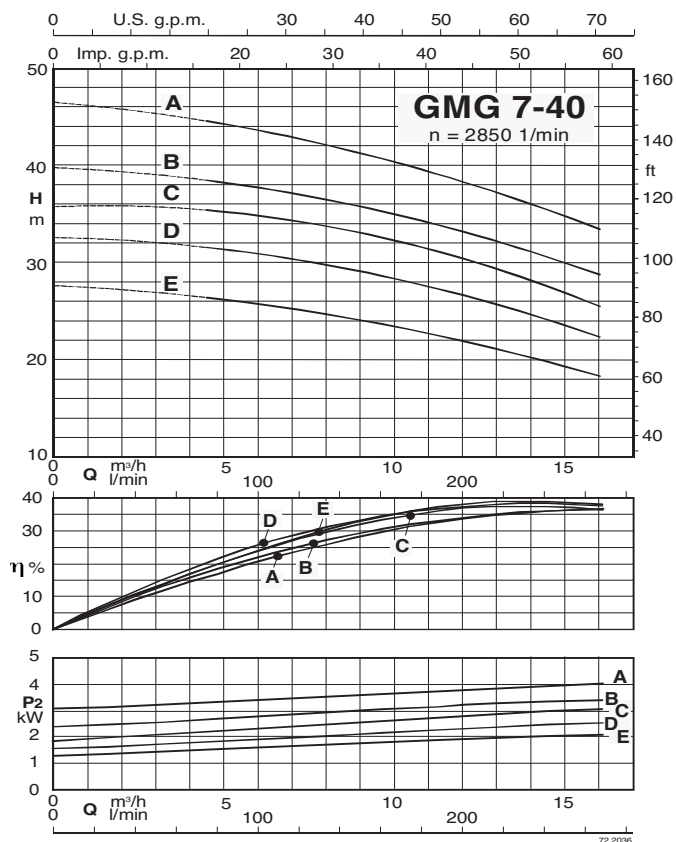
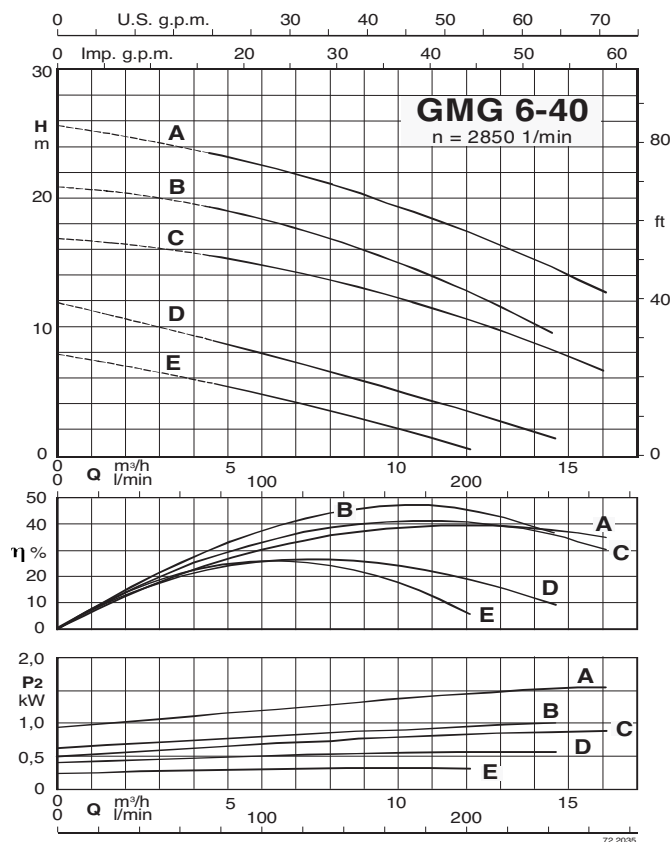
P₂ Rated power output

I_N Rated current

● Standard

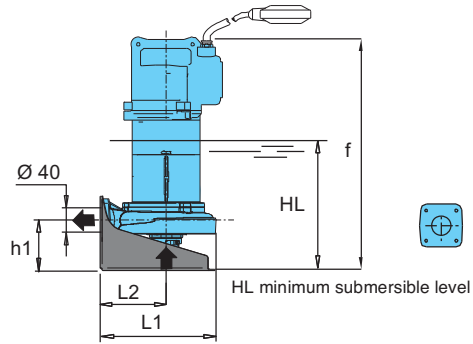
✓ ATEX Eex Version on demand

Characteristic curves

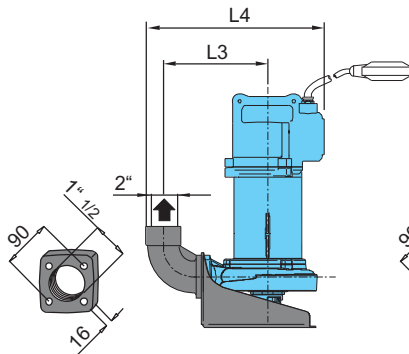
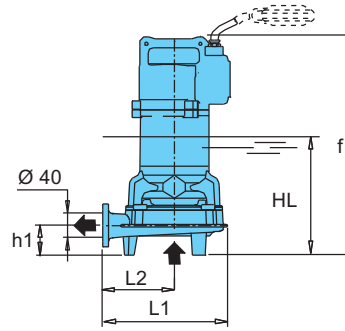


Dimensions and weights

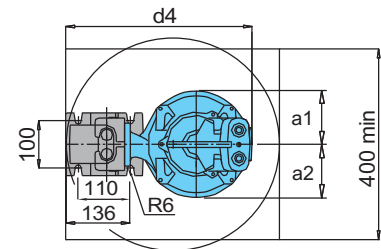
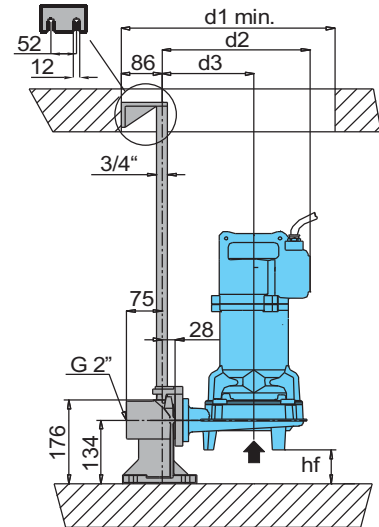
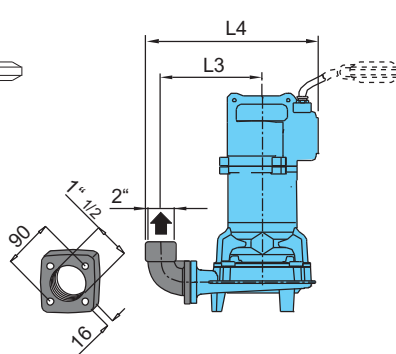
GMGM 6-40D/A, E/A



GMGM 6-40 GMG 6-40 GMG 7-40



Version with threaded flange and 90° elbow



Version with duck foot coupling

TYPE	Dimensions mm															Weight kg
	Ø1	f	HL	hf	h1	a1	a2	d1	d2	d3	d4	L1	L2	L3	L4	
GMGM 6-40E/A	40	441	283	77	106	104	104	450	297	178	392	256	138	154	272	30
GMGM 6-40D/A																
GMGM 6-40C																
GMGM 6-40B																
GMGM 6-40A																
GMG 6-40A	40	460	240	71	63	112	112	450	312	194	392	268	150	212	262	40
GMG 6-40B																
GMG 6-40C																
GMG 6-40D																
GMG 6-40E																
GMG 7-40E	40	458	315	10	124	121	121	450	327	189	413	288	150	230	405	45
GMG 7-40D																
GMG 7-40C																
GMG 7-40B																
GMG 7-40A																
GMG 7-40C	40	517	336	10	124	121	121	450	334	189	420	295	150	230	412	60
GMG 7-40B																
GMG 7-40A																



Construction

Submersible pumps in **AISI 316** stainless steel.

I-GMV with free-flow (vortex) impeller

I-GMC with single-channel impeller

I-GMN with channels impeller

Twin mechanical seal with oil chamber (lip-seal motor side up to 2,4 kW 2 poles).

Delivery connection DN 50-65-80-100-150

Applications

Suitable to pump aggressive and corrosive liquids, particularly to drain waste water in industrial and chemical process plants. Solid passage from 30 to 100 mm

Operating conditions

Liquid temperature up to 40 °C.

Maximum immersion depth: 20 m (with suitable cable length).

Continuous duty (with pump immersed at minimum level).

Main materials

Pump casing: stainless steel AISI 316

Motor casing: stainless steel AISI 316

Motor cover: stainless steel AISI 316

Impeller: stainless steel AISI 316

Shaft: stainless steel AISI 316L

Screws: stainless steel AISI 316

Mechanical seal motor side: graphite/ceramic/FPM (lip-seal made of nitrile up to 2,4 kW 2 poles).

Mechanical seal pump side: silicon carbide/silicon carbide/FPM

Motor

2 or 4 poles induction, 50Hz

Three-phase version: 400V $\pm$ 10%, up to 3,2 kW

400/690V $\pm$ 10%, over 3,2 kW

Insulation class: H

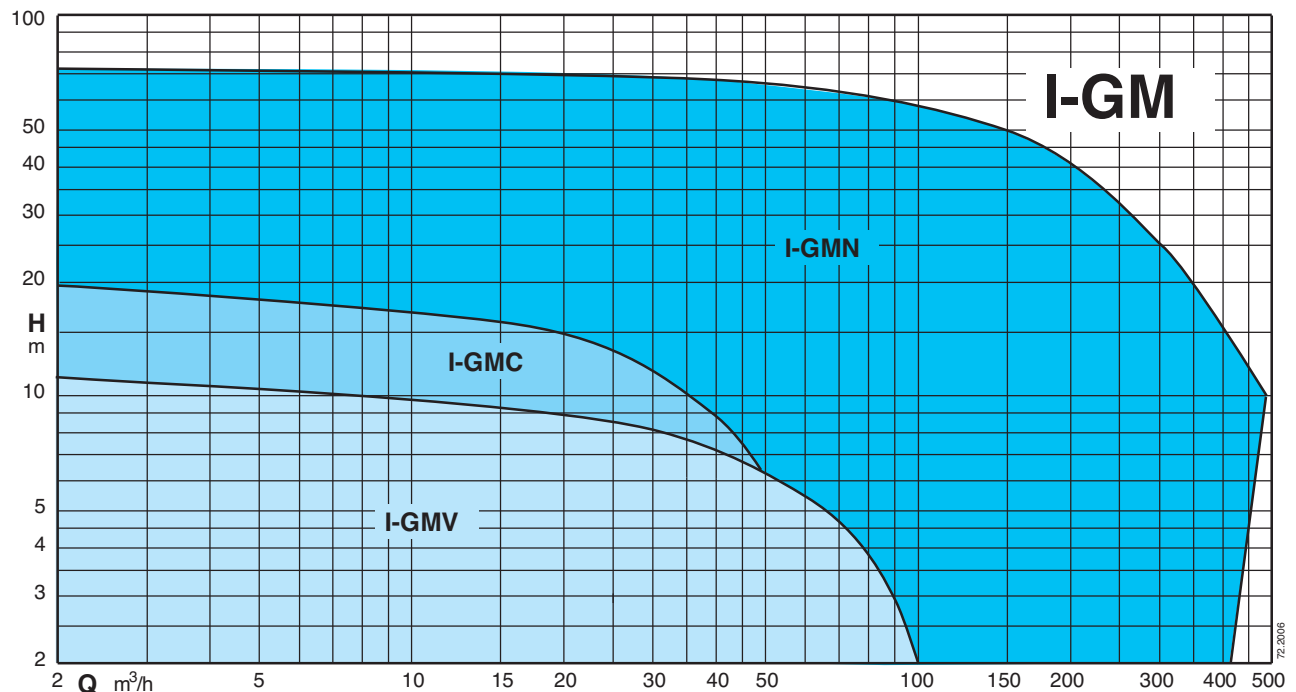
Protection degree: IP 68

N° of starting x hour: max 15 with regular intervals

Cable: H07RN-F, length 10 m

Other models: contact our sale office

Coverage chart



Technical data

TYPE	P ₂ kW	I _N A	Power Supply	r.p.m.	Starting	DN mm	Free passage Ø mm	Thermal protector	Humidity probe	 ATEX Eex
I-GMV 50-50C	1,4	3,5	3~ 400V	2850	D.O.L.	50	50	NO	NO	✓
I-GMV 50-50B/A	1,4	3,5	3~ 400V	2850	D.O.L.	50	50	NO	NO	✓
I-GMV 50-50A/A	2,4	5	3~ 400V	2850	D.O.L.	50	50	NO	NO	✓
I-GMV4 50-65C	1	3	3~ 400V	1450	D.O.L.	65	50	NO	NO	✓
I-GMV4 50-65B	1	3	3~ 400V	1450	D.O.L.	65	50	NO	NO	✓
I-GMV4 50-65A	1,3	3,5	3~ 400V	1450	D.O.L.	65	50	NO	NO	✓
I-GMV4 50-80B	2,3	5	3~ 400V	1450	D.O.L.	80	50	NO	NO	✓
I-GMV4 50-80A	2,8	6,5	3~ 400V	1450	D.O.L.	80	50	NO	NO	✓
I-GMC 40-65B	2,4	5	3~ 400V	2850	D.O.L.	65	40	NO	NO	✓
I-GMC 40-65A	2,9	6	3~ 400V	2850	D.O.L.	65	40	NO	NO	✓
I-GMN 30-65B	3,2	6,5	3~ 400V	2850	D.O.L.	65	30	NO	NO	✓
I-GMN 30-65A	3,2	6,5	3~ 400V	2850	D.O.L.	65	30	NO	NO	✓
I-GMN 30-80B	5,7	12,5	3~ 400/690V	2850	Y/Δ	80	30	●	●	✓
I-GMN 30-80A	5,7	12,5	3~ 400/690V	2850	Y/Δ	80	30	●	●	✓
I-GMN 30-80S	8,2	15,5	3~ 400/690V	2850	Y/Δ	80	30	●	●	✓
I-GMN 40-100D	13,8	29,5	3~ 400/690V	2850	Y/Δ	100	40	●	●	✓
I-GMN 40-100C	13,8	29,5	3~ 400/690V	2850	Y/Δ	100	40	●	●	✓
I-GMN 40-100B	18,2	34	3~ 400/690V	2850	Y/Δ	100	40	●	●	✓
I-GMN 40-100S	22,4	40,1	3~ 400/690V	2850	Y/Δ	100	40	●	●	✓
I-GMN 50-100C	48,2	86,5	3~ 400/690V	2850	Y/Δ	100	50	●	●	✓
I-GMN 50-100B	48,2	86,5	3~ 400/690V	2850	Y/Δ	100	50	●	●	✓
I-GMN 50-100A	48,2	86,5	3~ 400/690V	2850	Y/Δ	100	50	●	●	✓
I-GMN4 60-100B	7,1	13,5	3~ 400/690V	1450	Y/Δ	100	60	●	●	✓
I-GMN4 60-100A	7,1	13,5	3~ 400/690V	1450	Y/Δ	100	60	●	●	✓
I-GMN4 80-100B	11,6	23,2	3~ 400/690V	1450	Y/Δ	100	80	●	●	✓
I-GMN4 80-100A	11,6	23,2	3~ 400/690V	1450	Y/Δ	100	80	●	●	✓
I-GMN4 100-150B	25	48	3~ 400/690V	1450	Y/Δ	150	100	●	●	✓
I-GMN4 100-150A	35,7	65,5	3~ 400/690V	1450	Y/Δ	150	100	●	●	✓

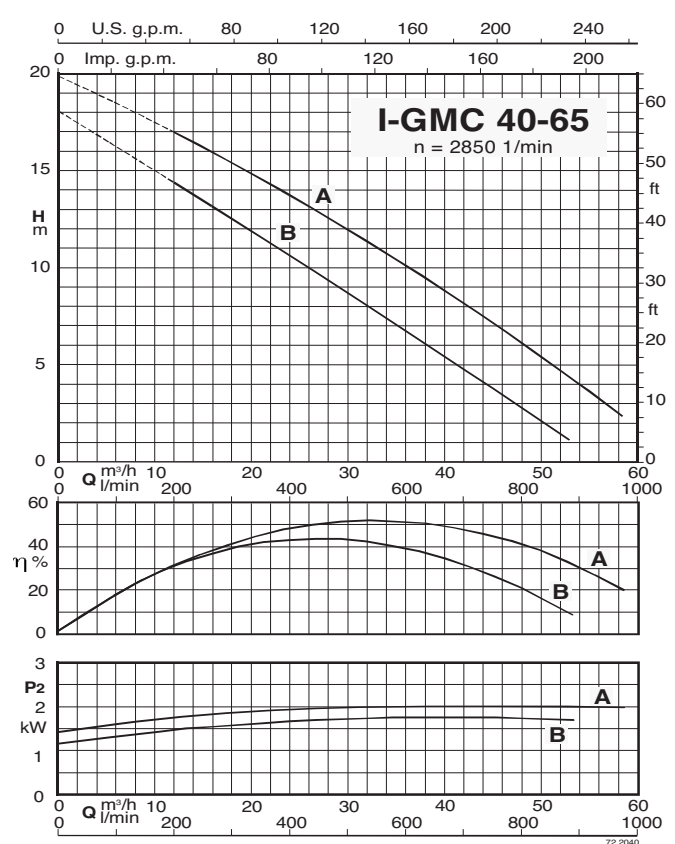
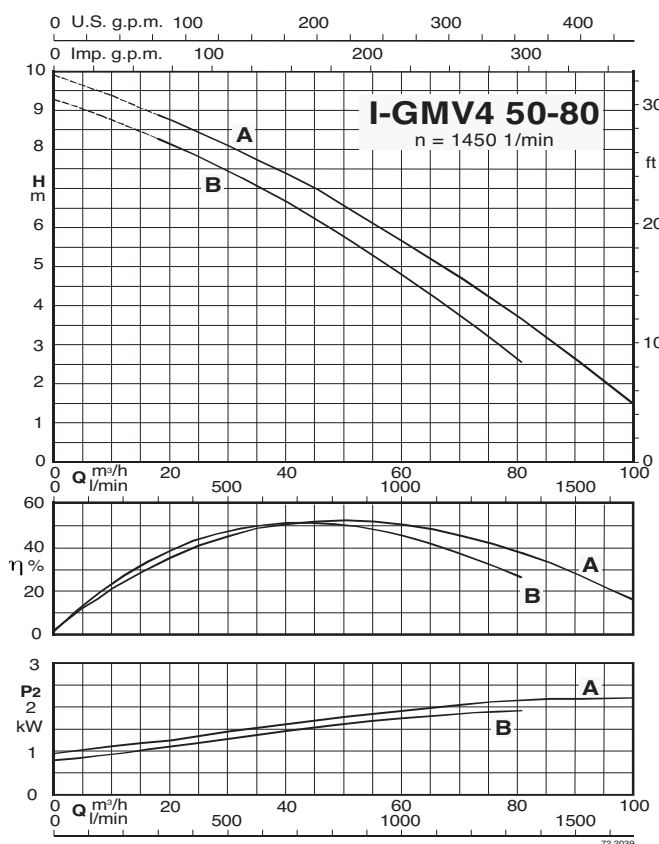
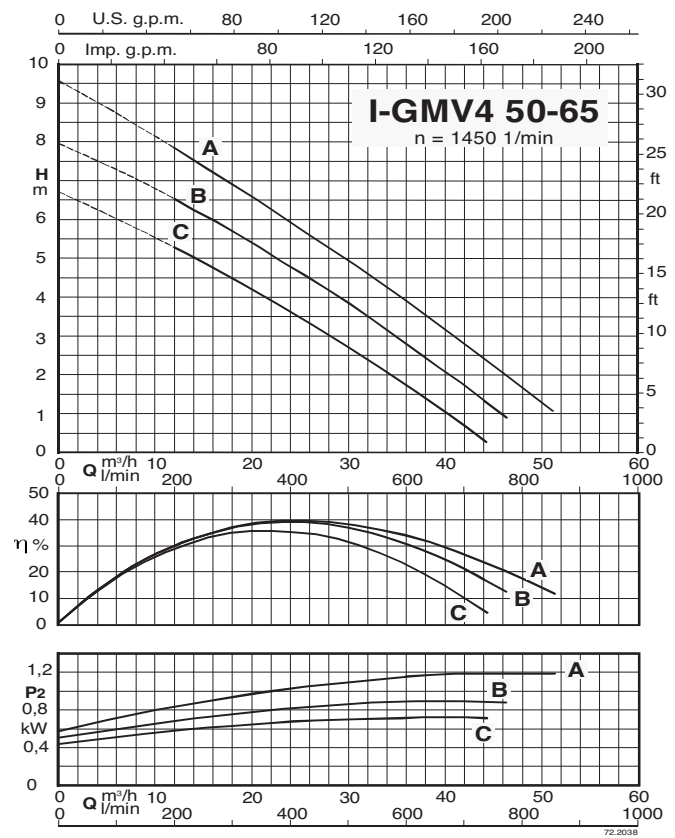
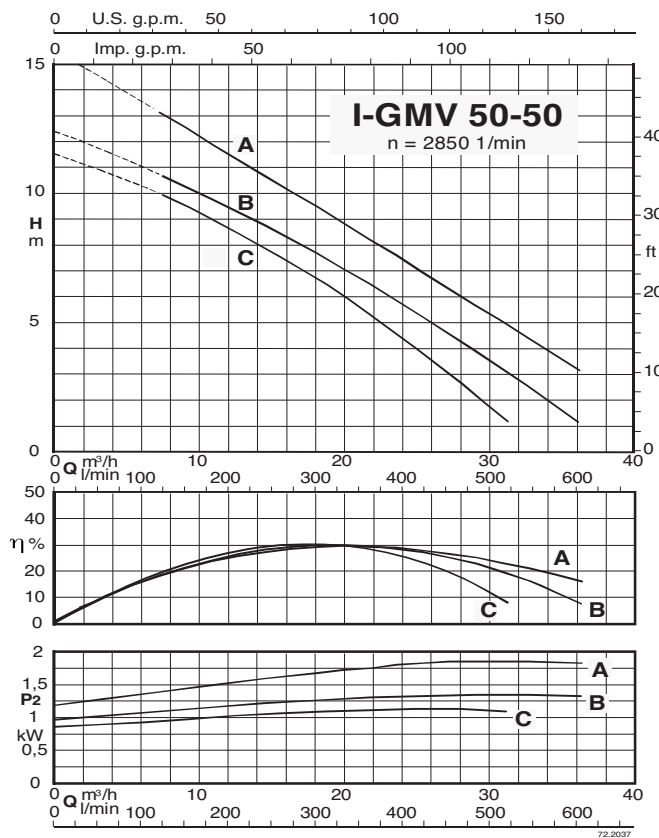
P₂ Rated power output

I_N Rated current

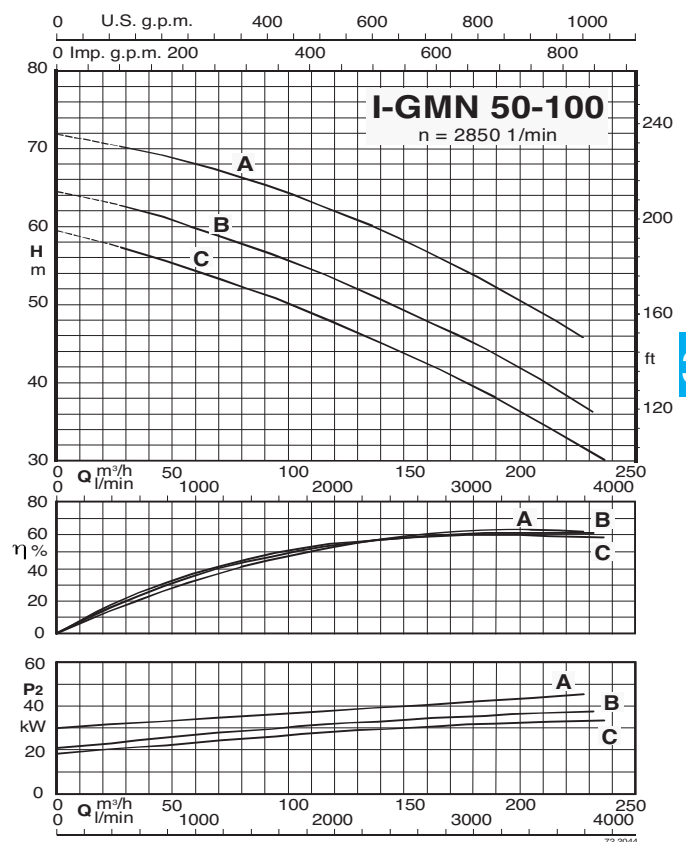
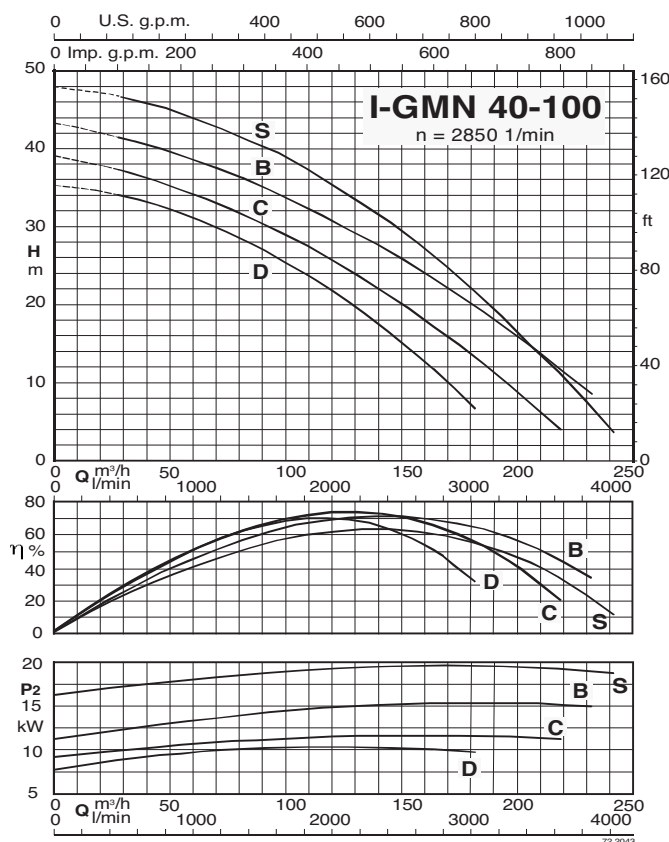
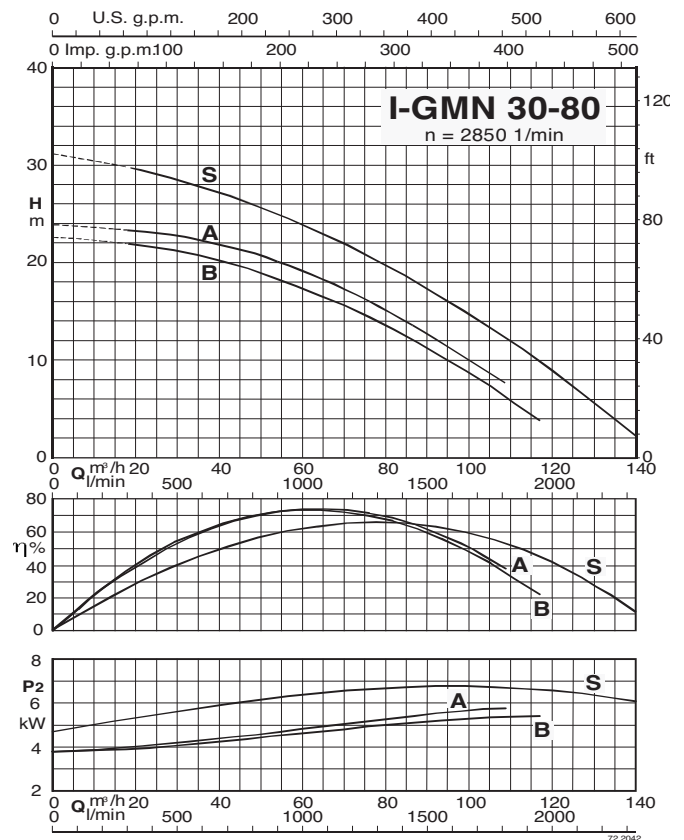
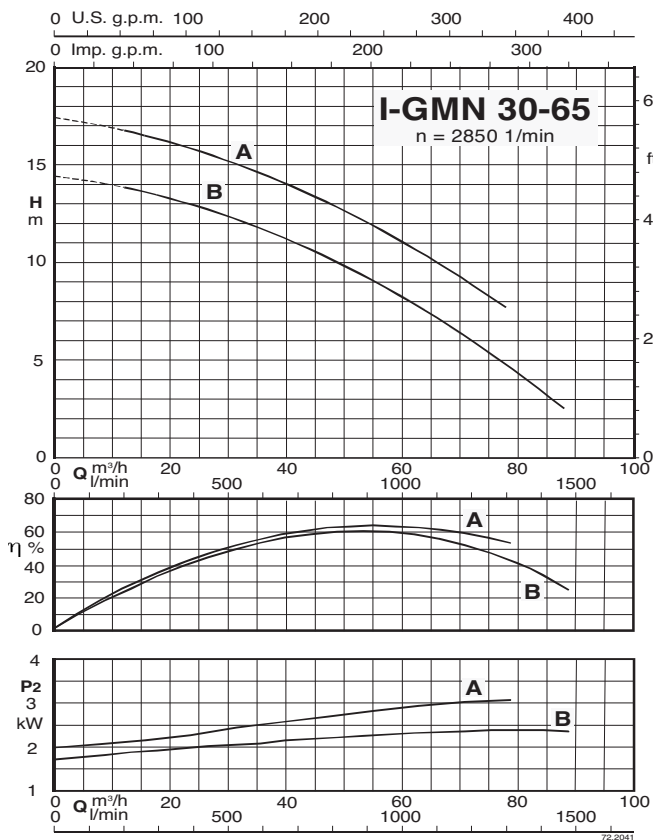
● Standard

✓ ATEX Eex Version on demand

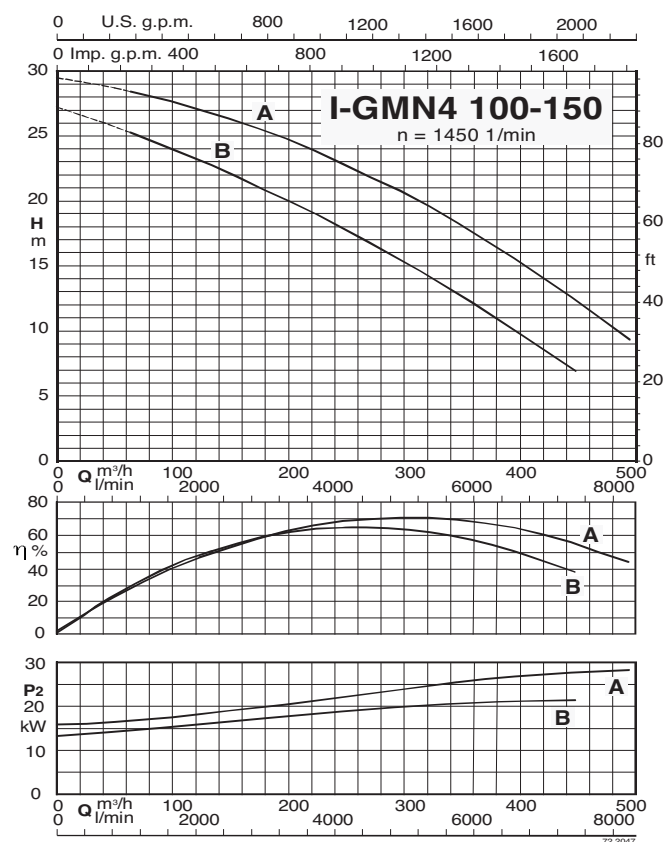
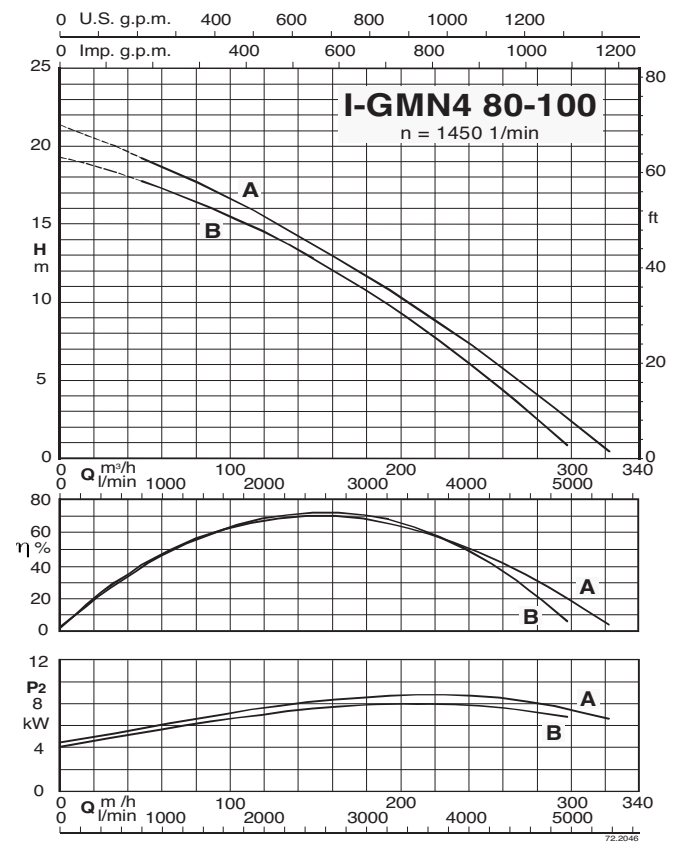
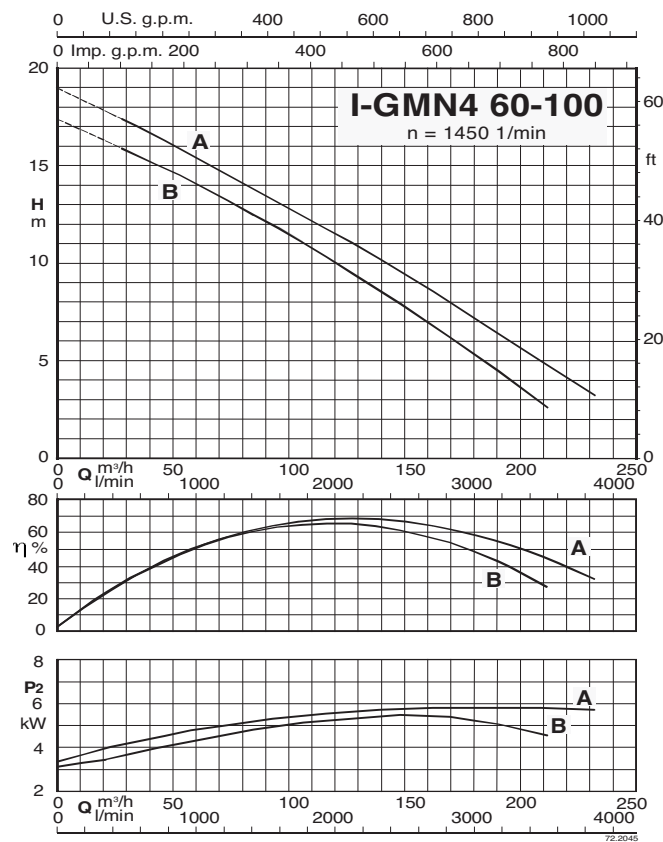
Characteristic curves



Characteristic curves

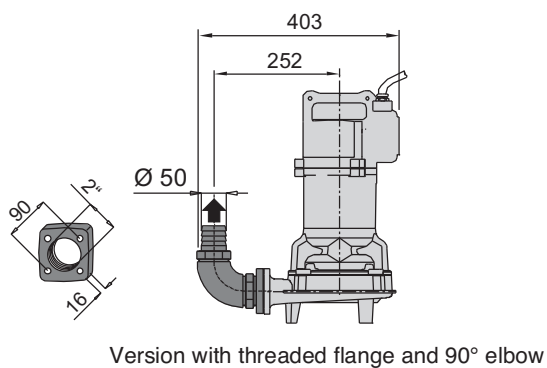
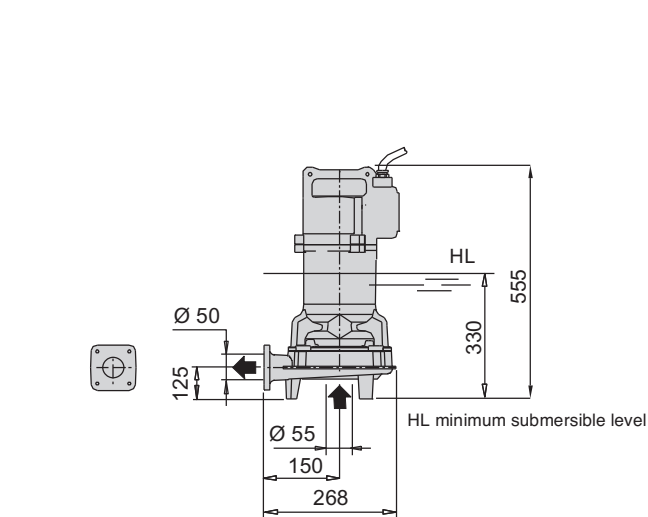


Characteristic curves

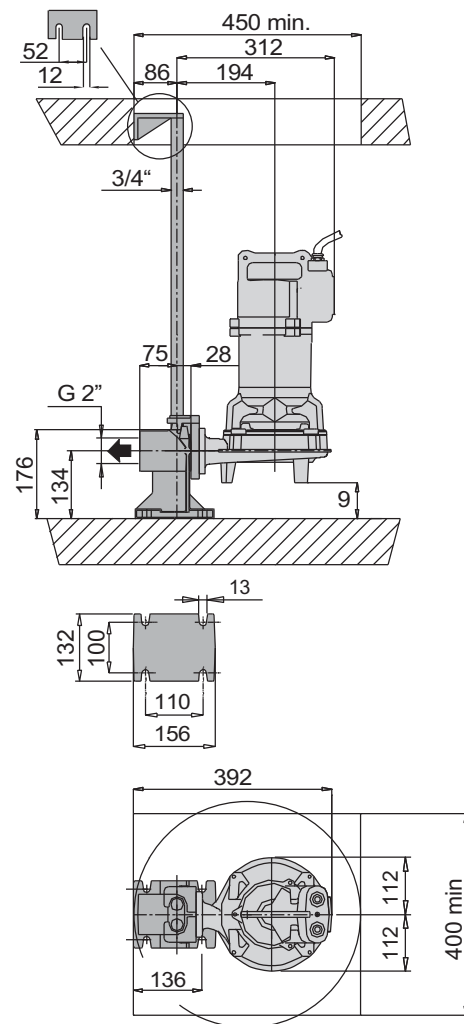


Dimensions and weights

I-GMV 50-50



Version with threaded flange and 90° elbow



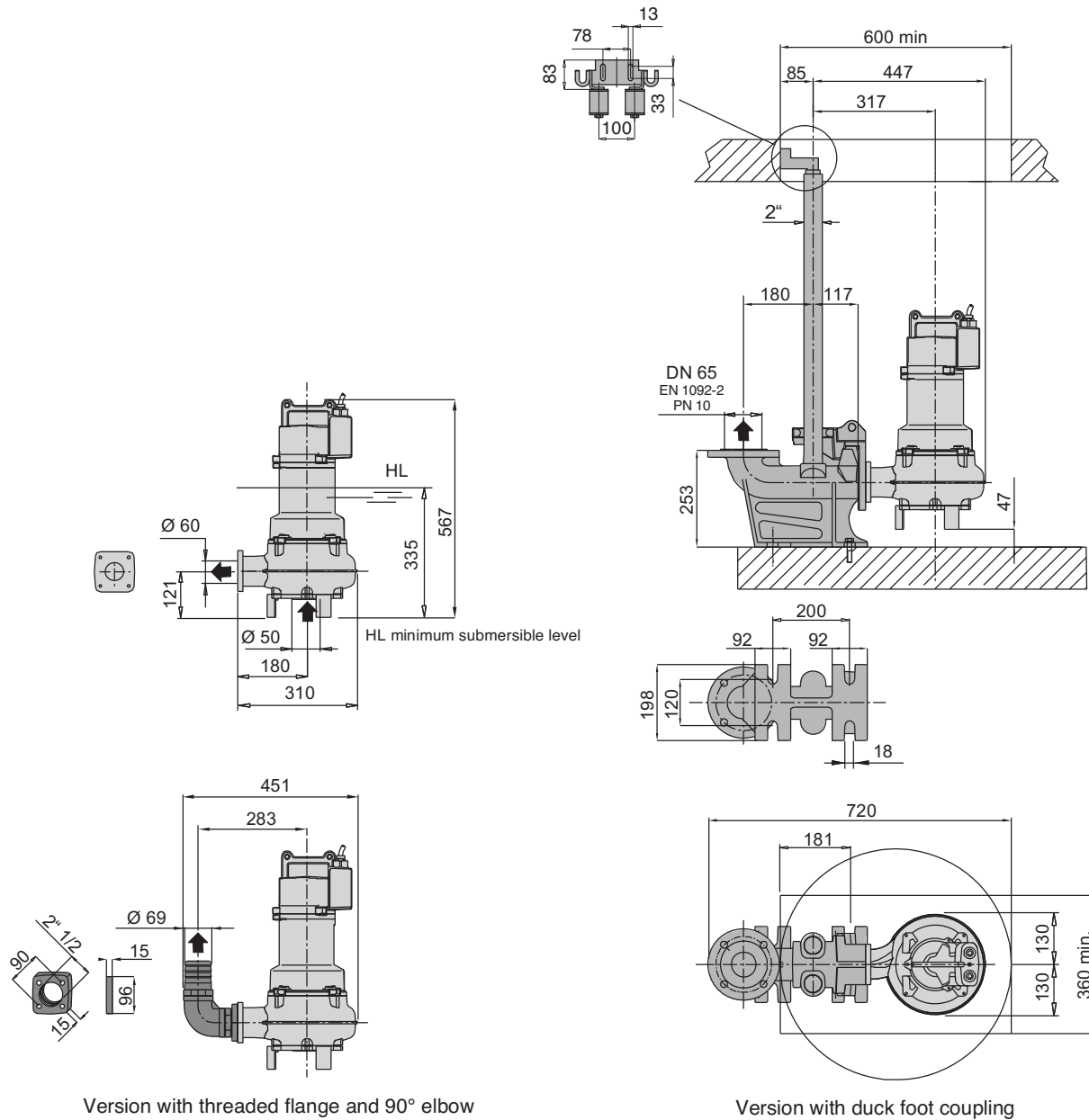
Version with duck foot coupling

TYPE	Weight kg
I-GMV 50-50C	46
I-GMV 50-50B/A	
I-GMV 50-50A/A	

Dimensions and weights

I-GMV4 50-65

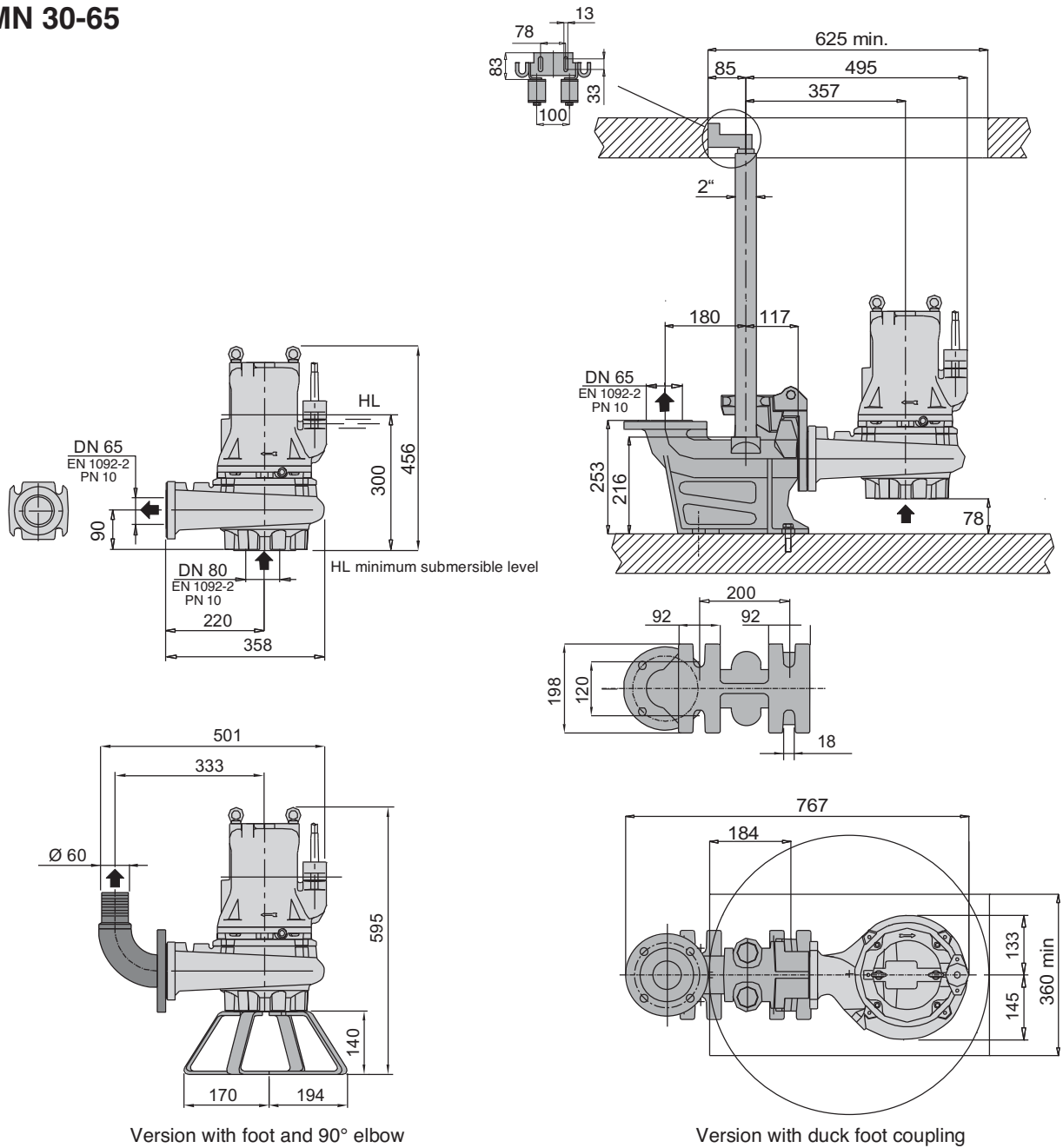
I-GMC 40-65



TYPE	Weight kg
I-GMV4 50-65C	47
I-GMV4 50-65B	
I-GMV4 50-65A	
I-GMC 40-65B	49
I-GMC 40-65A	

Dimensions and weights

I-GMN 30-65

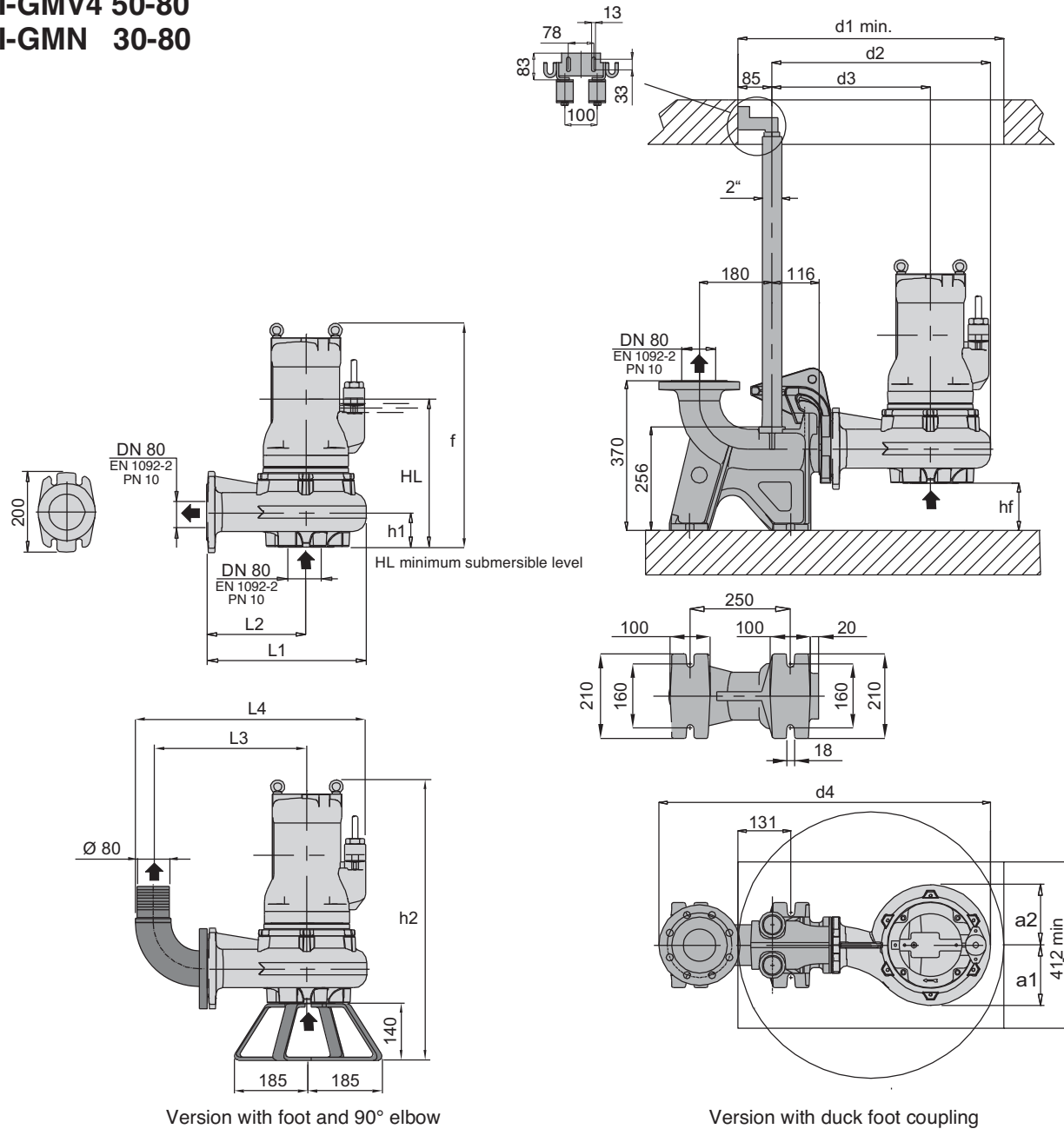


TYPE	Weight kg
I-GMN 30-65B	60
I-GMN 30-65A	

Dimensions and weights

I-GMV4 50-80

I-GMN 30-80



TYPE	EN 1092-2 PN 10		Dimensions mm															Weight kg
	DN1	DN2	f	HL	hf	h1	h2	a1	a2	d1	d2	d3	d4	L1	L2	L3	L4	
I-GMV4 50-80B	80	80	519	363	84	116	659	136	157	658	511	366	791	365	220	355	544	67
I-GMV4 50-80A																		
I-GMN 30-80B	80	80	515	330	110	90	655	133	145	700	511	366	791	365	220	355	544	83
I-GMN 30-80A																		
I-GMN 30-80S	80	80	767	438	132	68	917	165	165	700	571	386	851	405	220	362	590	170

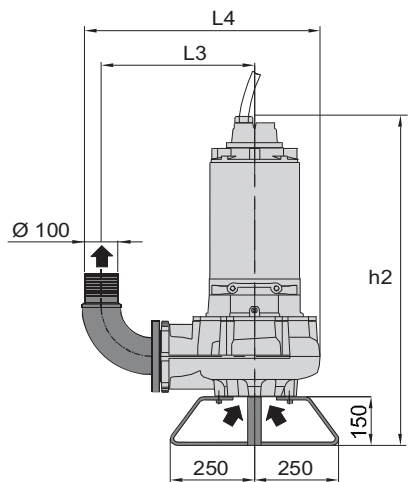
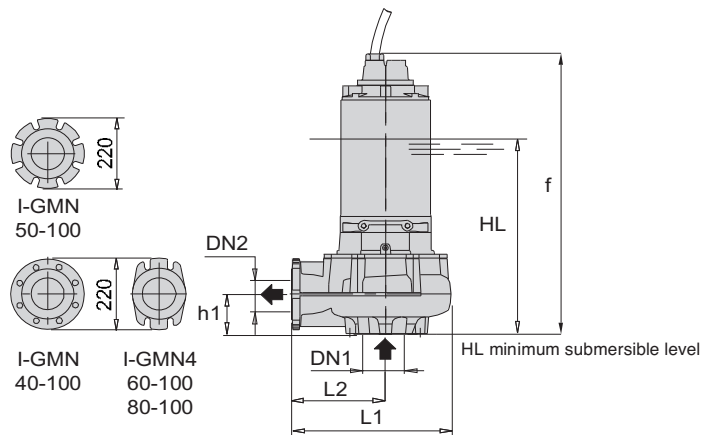
Dimensions and weights

I-GMN 40-100

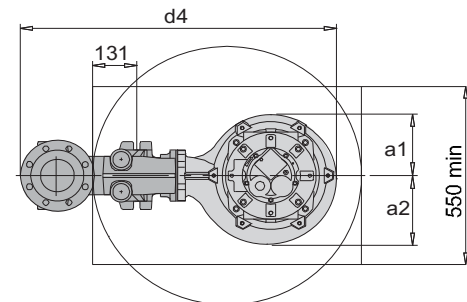
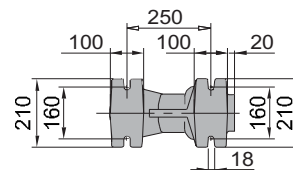
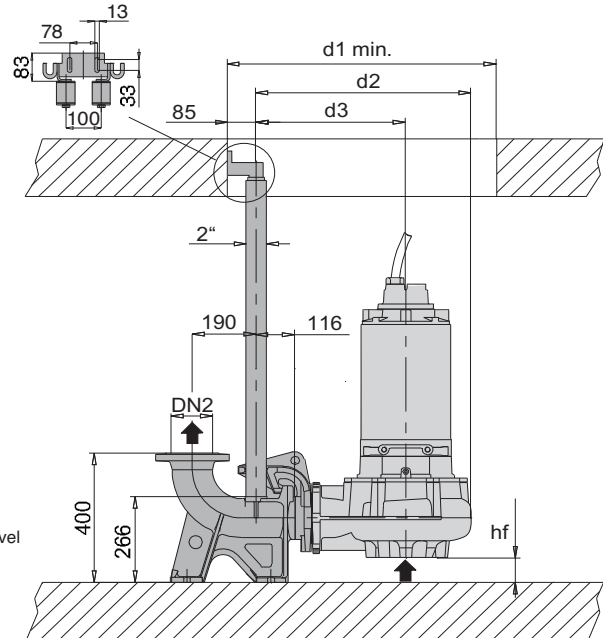
I-GMN 50-100

I-GMN4 60-100

I-GMN4 80-100



Version with foot and 90° elbow

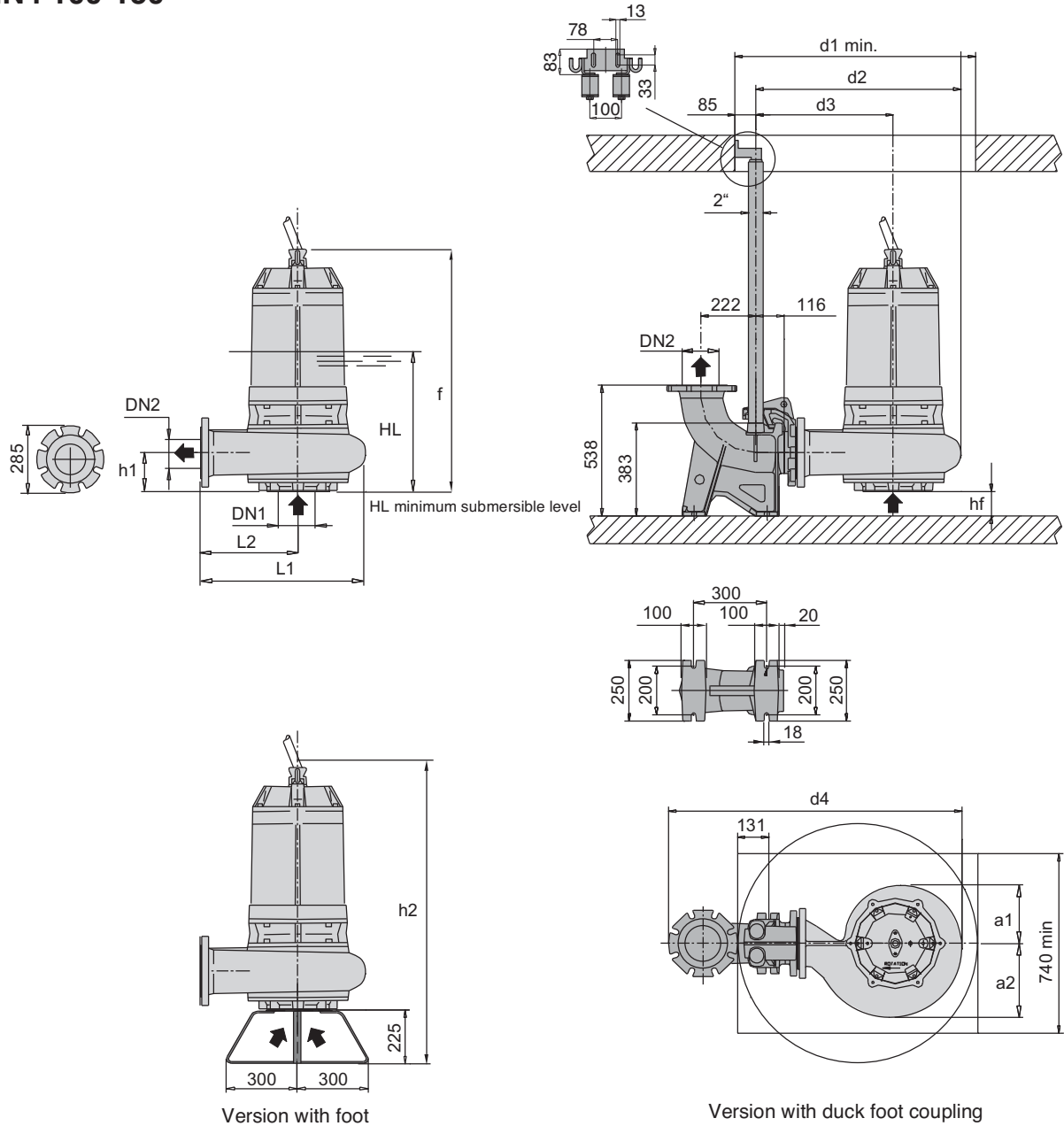


Version with duck foot coupling

TYPE	EN 1092-2 PN 10		Dimensions mm															Weight kg
	DN1	DN2	f	HL	hf	h1	h2	a1	a2	d1	d2	d3	d4	L1	L2	L3	L4	
I-GMN 40-100D	125	100	845	478	127	73	995	168	184	750	628	441	928	467	280	449	694	210
I-GMN 40-100C																		
I-GMN 40-100B																		
I-GMN 40-100S	125	100	1269	570	127	73	1419	193	193	800	628	441	928	462	280	365	602	390
I-GMN 50-100C																		
I-GMN 50-100B																		
I-GMN 50-100A	125	100	1033	628	62	139	1183	180	231	850	673	466	973	507	300	474	738	364
I-GMN4 60-100B																		
I-GMN4 60-100A																		
I-GMN4 80-100B	125	100	852	526	54	147	1002	189	212	800	640	445	940	474	279	456	706	167
I-GMN4 80-100A																		
I-GMN4 80-100B	125	100	921	570	53	147	1071	189	212	800	640	445	940	474	279	453	706	220
I-GMN4 80-100A																		

Dimensions and weights

I-GMN4 100-150



TYPE	EN 1092-2 PN 10		Dimensions mm															Weight kg
	DN1	DN2	f	HL	hf	h1	h2	a1	a2	d1	d2	d3	d4	L1	L2	L3	L4	
GMN4 100-150B	150	150	991	576	100	160	1216	235	305	990	931	566	1208	680	400	-	-	370
GMN4 100-150A			1055	600			1293											405



Construction

Submersible pumps, **B 10 bronze marine** version.

B-GMV with free-flow (vortex) impeller

B-GMC with single-channel impeller

B-GMN with channels impeller

Twin mechanical seal with oil chamber (lip-seal motor side up to 2,4 kW 2 poles).

Delivery connection DN 50-65-80

Applications

Suitable to pump industrial waste water in chemical, and process industries, agricultural and marine areas.

Solid passage from 30 to 50 mm

Operating conditions

Liquid temperature up to 40 °C.

Maximum immersion depth: 20 m (with suitable cable length).

Continuous duty (with pump immersed at minimum level).

Main materials

Pump casing, Motor casing, Motor cover: B 10 bronze marine

Impeller: stainless steel AISI 316

Motor shaft: stainless steel AISI 316L

Screws: stainless steel AISI 316

Mechanical seal motor side: graphite/ceramic/FPM (lip-seal made of nitrile up to 2,4 kW 2 poles).

Mechanical seal pump side: silicon carbide/silicon carbide/FPM

Motor

2 or 4 poles induction, 50Hz

Three-phase version: 400V $\pm$ 10%, up to 3,2 kW

400/690V $\pm$ 10%, over 3,2 kW

Insulation class: H

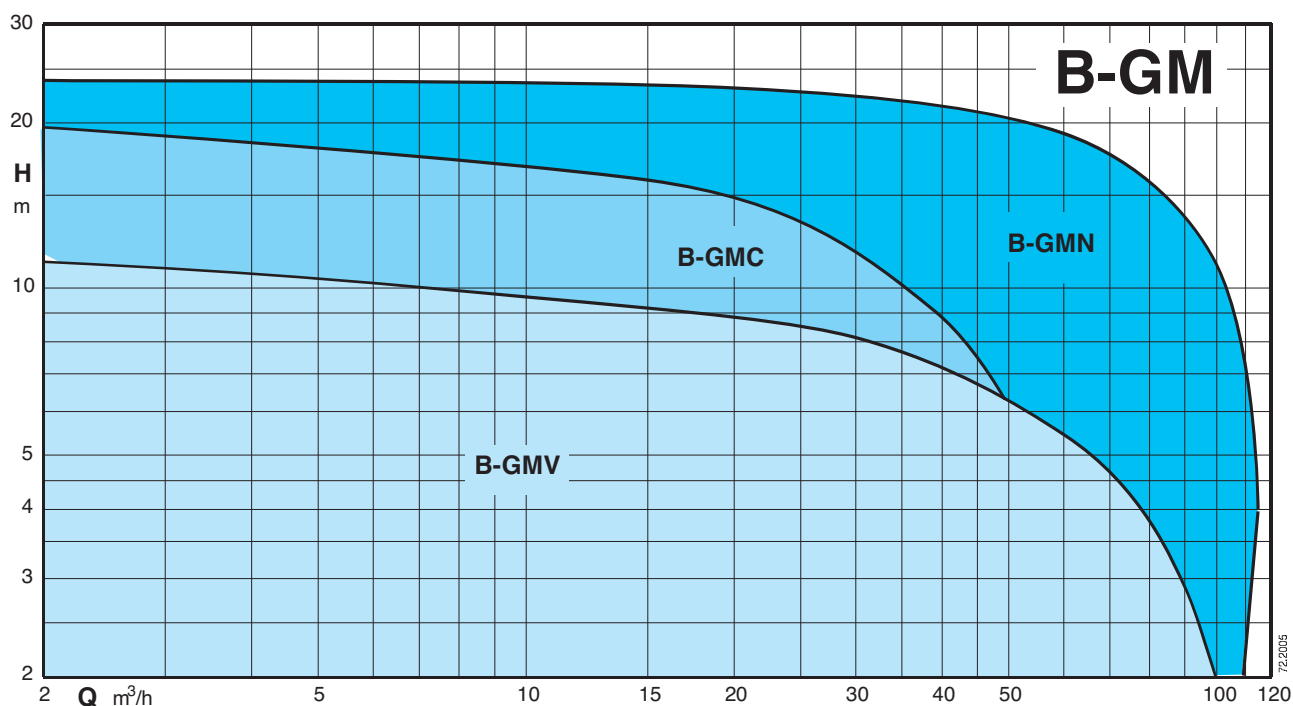
Protection degree: IP 68

N° of starting x hour: max 15 with regular intervals

Cable: H07RN-F, length 10 m

Other models: contact our sale office

Coverage chart



Technical data

TYPE	P ₂ kW	I _N A	Power Supply	r.p.m.	Starting	DN mm	Free passage Ø mm	Thermal protector	Humidity probe	 ATEX Eex
B-GMV 50-50C	1,4	3,5	3~ 400V	2850	D.O.L.	50	50	NO	NO	✓
B-GMV 50-50B/A	1,4	3,5	3~ 400V	2850	D.O.L.	50	50	NO	NO	✓
B-GMV 50-50A/A	2,4	5	3~ 400V	2850	D.O.L.	50	50	NO	NO	✓
B-GMV4 50-65C	1	3	3~ 400V	1450	D.O.L.	65	50	NO	NO	✓
B-GMV4 50-65B	1	3	3~ 400V	1450	D.O.L.	65	50	NO	NO	✓
B-GMV4 50-65A	1,3	3,5	3~ 400V	1450	D.O.L.	65	50	NO	NO	✓
B-GMV4 50-80B	2,3	5	3~ 400V	1450	D.O.L.	80	50	NO	NO	✓
B-GMV4 50-80A	2,8	6,5	3~ 400V	1450	D.O.L.	80	50	NO	NO	✓
B-GMC 40-65B	2,4	5	3~ 400V	2850	D.O.L.	65	40	NO	NO	✓
B-GMC 40-65A	2,9	6	3~ 400V	2850	D.O.L.	65	40	NO	NO	✓
B-GMN 30-65B	3,2	6,5	3~ 400V	2850	D.O.L.	65	30	NO	NO	✓
B-GMN 30-65A	3,2	6,5	3~ 400V	2850	D.O.L.	65	30	NO	NO	✓
B-GMN 30-80B	5,7	12,5	3~ 400/690V	2850	Y/Δ	80	30	●	●	✓
B-GMN 30-80A	5,7	12,5	3~ 400/690V	2850	Y/Δ	80	30	●	●	✓

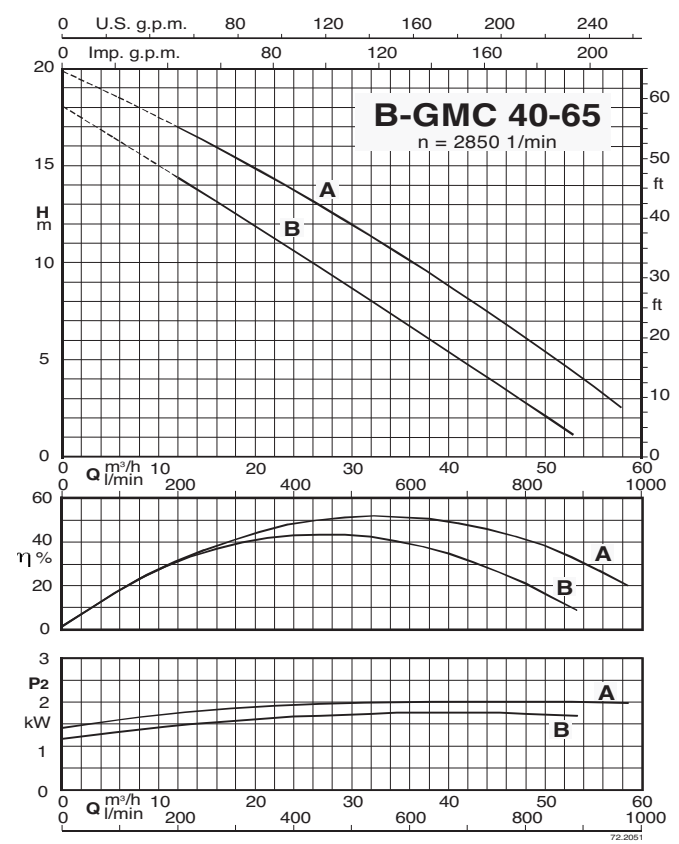
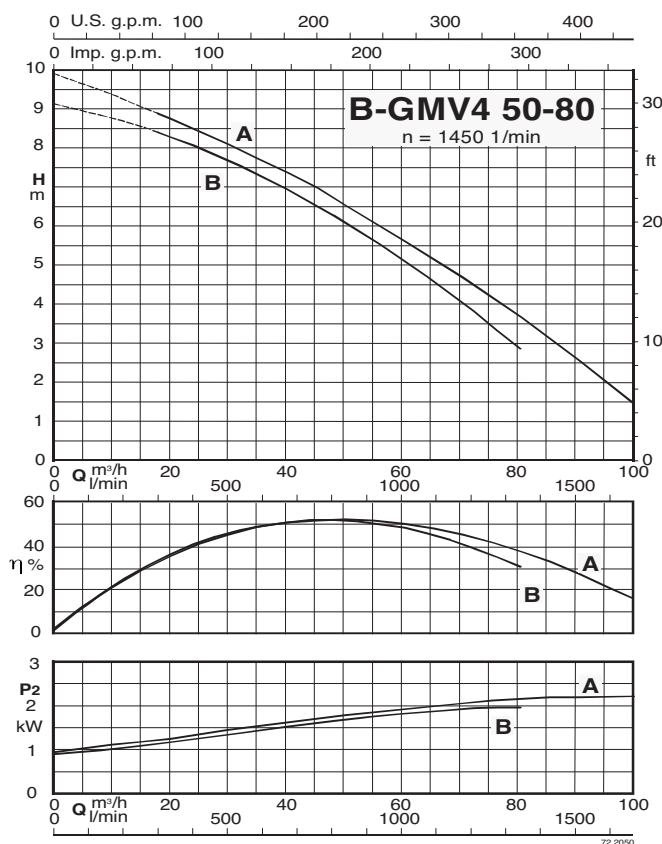
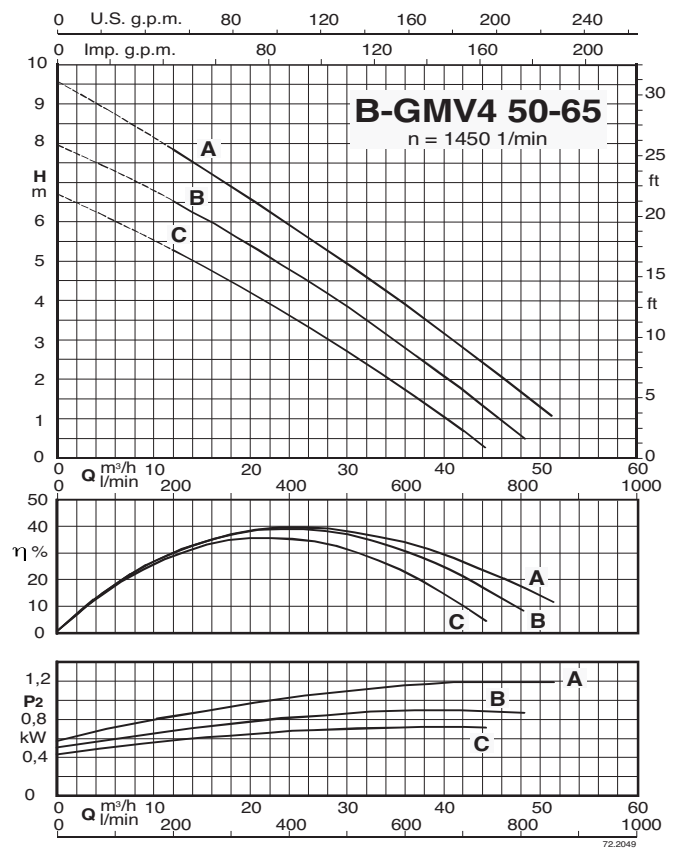
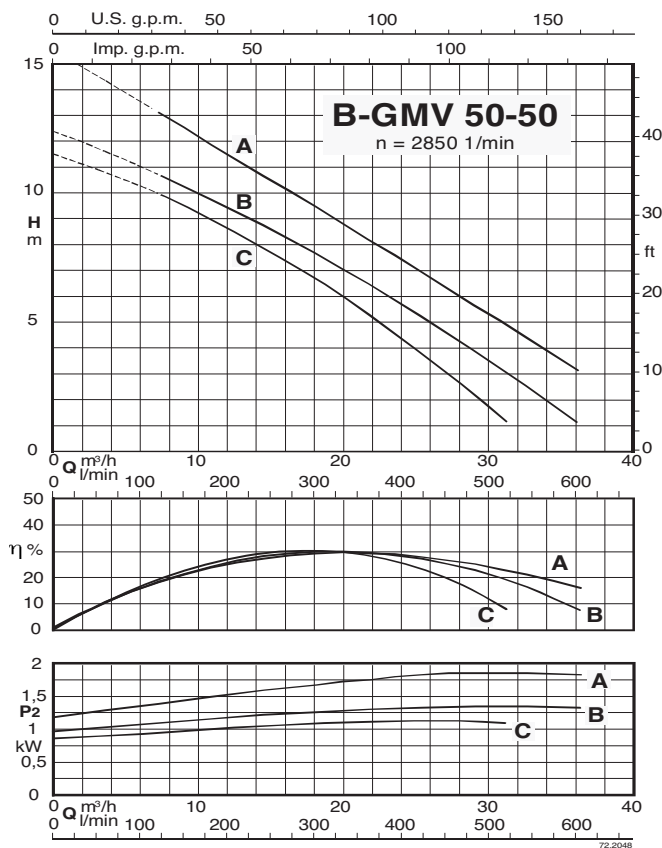
P₂ Rated power output

I_N Rated current

● Standard

✓ ATEX Eex Version on demand

Characteristic curves



Characteristic curves

