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Domestic Drainage pumps

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Domestic Drainage pumps

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Vigila 100 Drainage

Submersible pumps for the drainage of clear water

Applications
Drainage of clear water, decorative fountains, tanks, etc.

Materials
Pump body, impellers and suction filter in technopolymer.
Motor shaft in stainless steel AISI 420.
Double lip seal and o-rings in NBR.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Forced cooling through the discharge water.

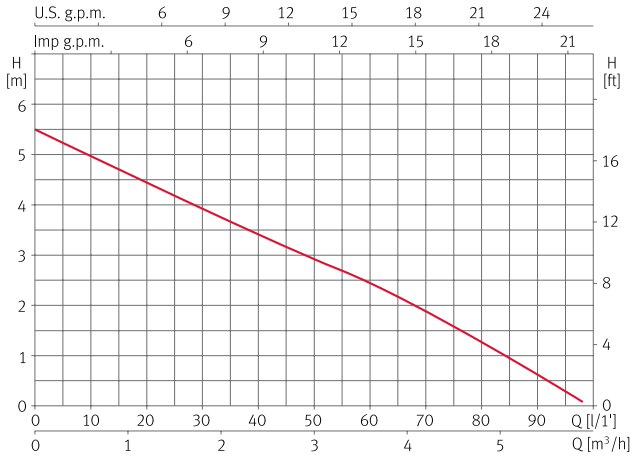
Limitations
Maximum solids handling: Ø 5 mm.

Equipment
Supplied with 10 m power cable.
Vigila 100 M A: with float switch.

Hydraulic performance table

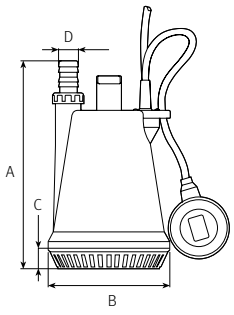
Model	I [A]	P1 [kW]	P2		c	l/min	10	20	30	40	50	60	80	95	1~ 230 V
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	0,6	1,2	1,8	2,4	3,0	3,6	4,8	5,7	Code
Vigila 100	1.04	0,23	0,11	0,15	6	mwc	5	4,3	3,7	3,4	3,0	2,5	1,2	0,3	97806

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	Kg
Vigila 100	272	159	26,5	1"/25	3,8



Vigila 200/350/500 Drainage

Submersible pumps for the drainage of clear water

Applications
Emptying of drains, residential sumps, rain water tanks, etc.
Emergency emptying of flooded garages or basements.
Water transfer from tanks and cisterns.

Materials
Pump body, impellers and suction filter in technopolymer.
Double lip seal and o-rings in NBR.
Vigila M H A: internal metal parts in stainless steel AISI 316.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Built-in thermal protection and capacitor.

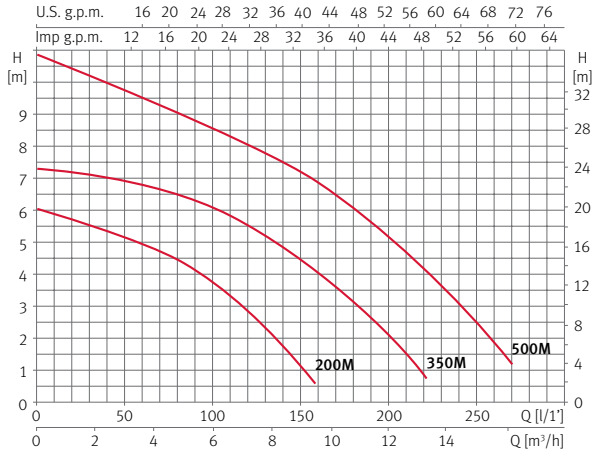
Limitations
Maximum solids handling: Ø 10 mm.

Equipment
Supplied with 10 m power cable.
Vigila M A: with float switch.

Hydraulic performance table

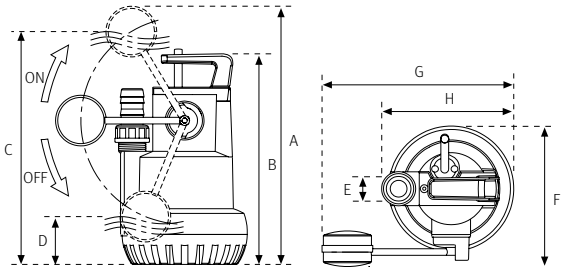
Model	I [A]	P1 [kW]	P2		c	l/min	20	40	80	120	160	200	240	260	1~230 V (Model M A)	1~230 V (Model M H A)
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	1,2	2,4	4,8	7,2	9,6	12	14,4	15,6	Code	Code
Vigila 200	1,5	0,35	0,25	0,33	8	mwc	5,6	5,3	4,5	2,8					105776	105779
Vigila 350	2,2	0,5	0,5	0,67	10		7,2	7	6,5	5,5	4	2			105781	105784
Vigila 500	3,7	0,85	0,6	0,8	10		10,4	10	9	8	6,8	5	3	1,8	105787	105790

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	E	F	G	H	Kg
Vigila 200	392	319,7	353	72	30	213,5	291	201	4,5
Vigila 350	443,5	372	405	124	30	213,5	291	201	6,7
Vigila 500	443,5	372	405	124	30	213,5	291	201	7,1



Vigilex Drainage

Submersible pumps, Vortex system for sewage water

Applications
Drainage of sewage and dirty water, in domestic installations, operation in septic tanks and small purifying installations.

Materials
Pump body and pump foot in glass-loaded polypropylene.
Impeller in glass-loaded polyamide.
Double lip seal in NBR.
Vigilex M H A: internal metal parts in stainless steel AISI 316.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Built-in thermal protector.

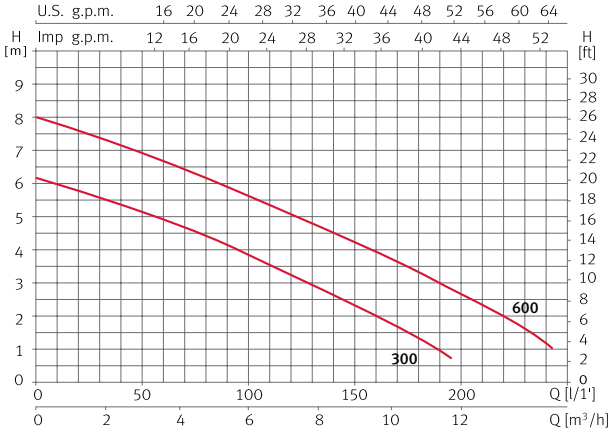
Limitations
Maximum solids handling: Ø 24 mm.
Maximum immersion: 5 m.

Equipments
Supplied with capacitor box.
Supplied with 10 m power cable.
Vigilex M A: with float switch.

Hydraulic performance table

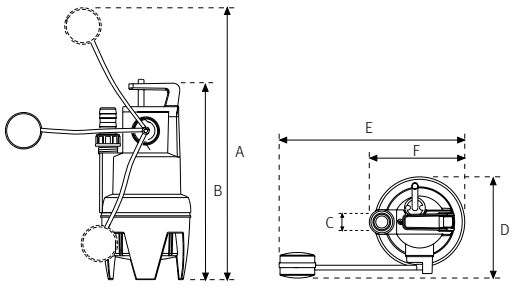
Model	I [A]	P1 [kW]	P2		c	l/min	25	50	75	100	125	150	190	240	1~230 V (Model M A)	1~230 V (Model M H A)
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m^3/h	1,5	3,0	4,5	6,0	7,5	9,0	11,4	14,4	Code	Code
Vigilex 300	3	0,7	0,5	0,67	10	mwc	5,7	5,2	4,6	3,8	3,2	2,3	1		105796	134347
Vigilex 600	3,4	0,8	0,6	0,8	10		7,5	7	6,3	5,6	5	4,3	3	1	105800	134348

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	E	F	Kg
Vigilex 300	380	362	30	213,5	410	201	4,5
Vigilex 600	380	362	30	213,5	410	201	6,7



MXO Drainage

Portable submersible pumps for drainage

Applications
Emptying of drains, residential sumps, rain water tanks, etc.
Emergency emptying of flooded garages or basements.
Water transfer from tanks and cisterns.

Materials
Outer casing: stainless steel AISI 304.
Impeller in tecnopolymer.
Diffuser, motor casing, pump base and upper cover in stainless steel AISI 304.
Pump shaft in stainless steel AISI 303.
Double sealed. Mechanical seal on the pump side in silicon carbide/alumine oxided. Lip seal on motor side in NBR.
O-rings: NBR.

Motor
Asynchronous single-phase, two poles.
Built-in thermal protection and capacitor.
Cooling via circulation of pumped liquid.
Protection IP 68.
Isolation class F.

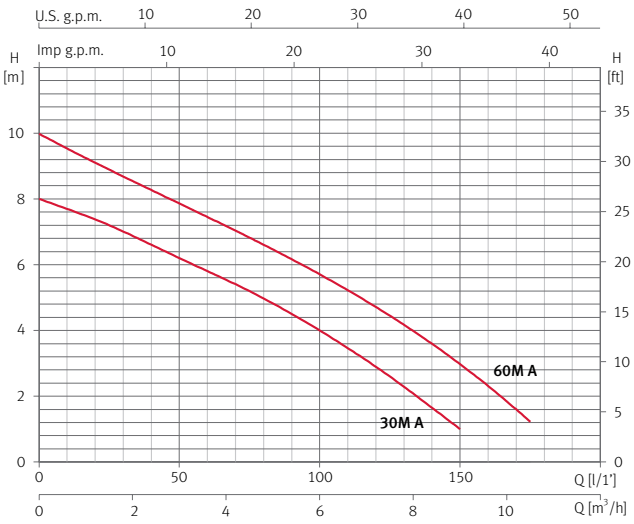
Limitations
Maximum immersion: 5 m.
Maximum liquid temperature: 40 °C.
Maximum passage of solids: Ø10 mm.

Equipment
Supplied with 5 m of electric cable H07RN-F and plug.
With float switch.
MXO M: without float switch.
MXO M A: with float switch.

Hydraulic performance table

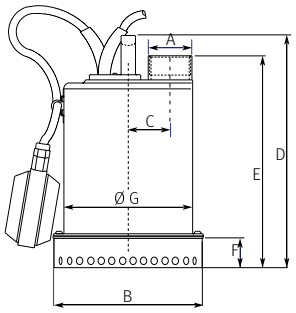
Model	I [A]	P1 [kW]	P2		c	l/min	0	25	50	75	100	125	150	175	Code
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	0	1.5	3.0	4.5	6.0	7.5	9.0	10.5	
MXO 30	2.2	0.5	0.25	0.33	8	mwc	8.0	7.2	6.2	5.2	4.0	2.6	1.0		197365
MXO 60	3.0	0.7	0.45	0.6	10		10.0	8.8	8.0	6.8	5.6	4.5	3.0	1.2	197366

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	E	F	G	Kg
MXO 30	1 1/4"	154	47	249	228	45	Ø132	5.5
MXO 60	1 1/4"	154	47	249	228	45	Ø132	6.2



DMR Drainage

Submersible pumps for clear water

Applications
Drainage of water without solids in suspension.
Drainage of seepage water or rainwater, via tanks and vats.

Materials
External housing, suction filter, cover and impeller made of AISI 304 stainless steel.
Diffusor in cast iron (G20)
Mechanical seal in silicon carbide-alumina and alumina-carbon
NBR O-ring seals.
Motor shaft pump side in stainless steel AISI 316.

Limitations
Through section: 8 mm.
Maximum immersion: 9 m.
Maximum liquid temperature: 40 °C. with pump totally immersed.

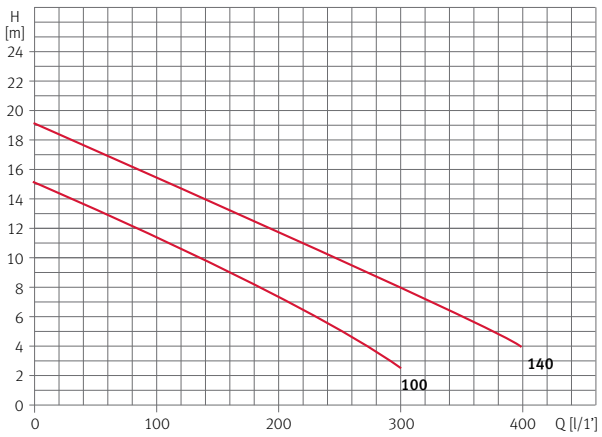
Motor
Asynchronous two poles with oil bath lubrication.
Class F insulation.
IP 68 protection.

Features
10 m long power cable.
Single-phase versions with built-in capacitor and thermal protection.

Hydraulic performance table

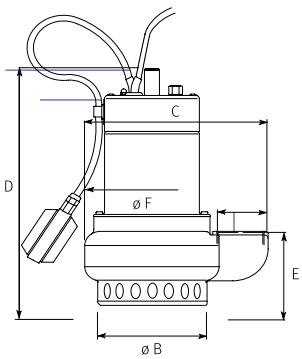
Model	I [A]		P1 [kW]	P2		l/min	0	25	50	100	150	200	250	300	400	1~230 V (Model M A)
	1~ 230 V	3~ 400 V		[kW]	[HP]	m^3/h	0	1.5	3	6	9	12	15	18	24	Code
DMR 100	6.5	2.6	1.3	0.75	1	mwc	15	14	12.8	11.2	9.2	7.4	5.2	2.6		DMR 100MA
DMR 140	9	3	2	1.1	1.5		19.5	19	18.5	17.5	16	14	11.8	9.2	4	DMR 140MA

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	Kg
DMR 100	1 1/2"	190	213.5	300	13.5
DMR 140	1 1/2"	190	213.5	344	18.2



Viginox Drainage

Portable submersible pumps for drainage

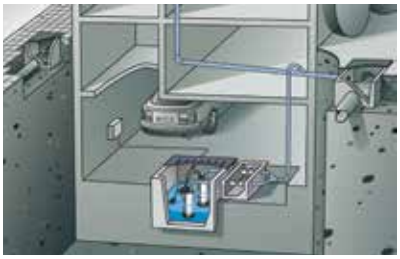
Applications
Drainage of filtered water.
Emptying of pools and operation in decorative fountains, and emptying of rainwater.

Materials
Outer casing, impeller, diffuser, motor casing, pump base and upper cover in stainless steel AISI 304.
Pump shaft in stainless steel AISI 316.
Double mechanical seal on the pump side in silicon carbide/alumine oxided.
Lip seal on motor side in NBR.
O-rings: NBR.

Limitations
Maximum immersion: 5 m.
Maximum liquid temperature: 50 °C.
Maximum passage of solids: Ø10 mm.

Motor
Asynchronous, two poles.
Cooling via circulation of pumped liquid.
Oil-filled motor.
Protection IP 68.
Isolation class F.
Single-phase with built-in thermal protection and capacitor.
The thermal protection for the three-phase motors is to be provided by the user.

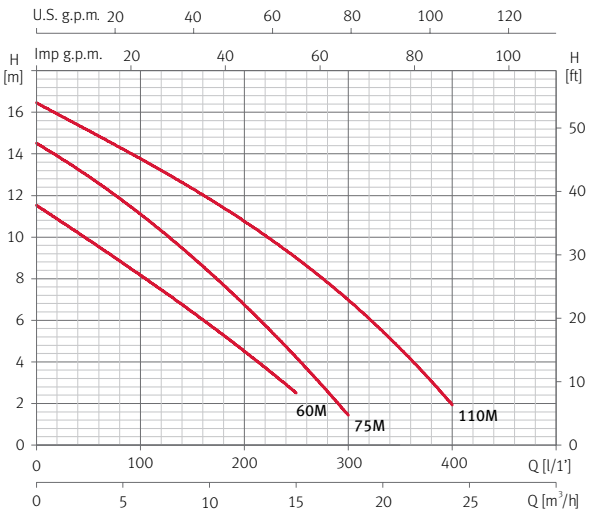
Equipment
Supplied with 10 m of electric cable H07RN-F.
Viginox M: without float switch.
Viginox M A: with float switch.
Viginox T: three phase without float switch.



Hydraulic performance table

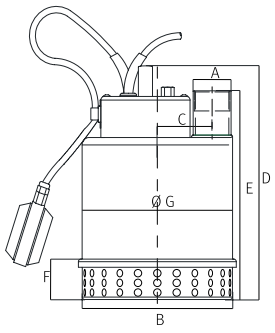
Model	I [A]		P1 [kW]		P2		c	l/min	0	100	200	300	350	400	1~230 V (Model M)	1~230 V (Model M A)	3~400 V (Model T)
	1~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]	m³/h	0	6.0	12.0	18.0	21.0	24.0	Code	Code	Code
Viginox 60	4.5	2.1	1.1	0.9	0.6	0.8	16	mwc	11.5	8.0	4.5	2.5			197367	197368	197369
Viginox 75	6.5	2.2	1.5	1.3	0.75	1.0	20		14.5	11.0	7.0	4.0	1.5		197370	197371	197372
Viginox 110	10.6	3.3	2.2	2.0	1.1	1.5	30		16.5	14.0	11.0	9.0	7.0	2.0	197373	197377	197378

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	E	F	G	Kg
Viginox 60	1 1/2"	212.4	89.7	290.2	259.2	50.5	Ø202.4	9.0
Viginox 75	1 1/2"	212.4	89.7	290.2	259.2	50.5	Ø202.4	11.0
Viginox 110	2"	212.4	89.7	326.7	294.7	50.5	Ø202.4	18.0



Viginox V Drainage

Portable submersible pumps for drainage, Vortex system

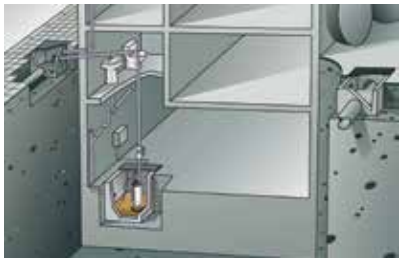
Applications
Drainage of sewage/dirty water, operation in septic tanks, small purifying installations and emptying of rainwater.
Specially adapted for building use.

Materials
Outer casing, impeller, diffuser, motor casing, pump base and upper cover in stainless steel AISI 304.
Pump shaft in stainless steel AISI 316.
Double mechanical seal on the pump side in silicon carbide/alumine oxided.
Lip seal on motor side in NBR.
O-rings: NBR.

Limitations
Maximum immersion: 5 m.
Maximum liquid temperature: 50 °C.
Maximum passage of solids: Ø30 mm.

Motor
Asynchronous, two poles.
Cooling via circulation of pumped liquid.
Oil-filled motor.
Protection IP 68.
Isolation class F.
Single-phase with built-in thermal protection and capacitor.

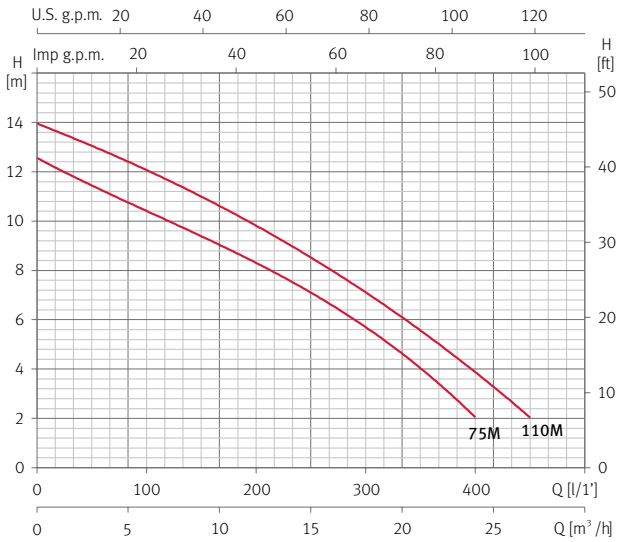
Equipment
Supplied with 10 m of electric cable H07RN-F.
Viginox V M: without float switch.
Viginox V M A: with float switch.
Viginox V T: three phase without float switch.



Hydraulic performance table

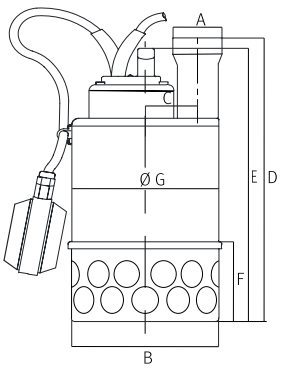
Model	I [A]		P1 [kW]		P2		c	l/min	0	100	200	300	350	400	1~230 V (Model M A)	1~230 V (Model M H A)	3~400 V (Model T)
	1~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]	[µF]	m³/h	0.0	6.0	12.0	18.0	21.0	24.0	Code	Code	Code
Viginox V 75	6.8	2.4	1.5	1.5	0.75	1.0	20	mwc	10.5	8.5	6.5	3.5	2.0		197379	197380	197381
Viginox V 110	9.0	3.3	2.2	2.0	1.1	1.5	30		12.5	10.5	8.0	6.0	4.0	2.0	197382	197383	197384

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	E	F	G	Kg
Viginox V 75	1 1/2"	204	73	344.2	325.2	106	Ø202	13.0
Viginox V 110	2"	204	73	384.7	393.2	106	Ø203	20.0



Drainex 100 Drainage

Submersible pumps, Vortex system for sewage water

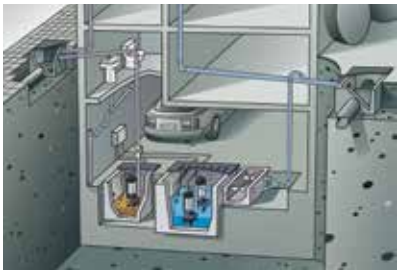
Applications
Drainage of sewage and dirty water, operation in septic tanks and small purifying intallations.

Materials
Discharge body and upper mounting in cast iron.
Impeller in brass with free passage of particles in suspension of Ø 34 mm.
Double mechanical seal in ceramic/graphite and ceramic/silicon carbide.
Motor housing and transport handle in stainless steel AISI 304.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Continuous operation.
Single-phase version built-in thermal protection.

Limitations
Maximum solids handling: 32 mm.
Maximum immersion: 8 m.
Maximum liquid temperature: 40 °C.

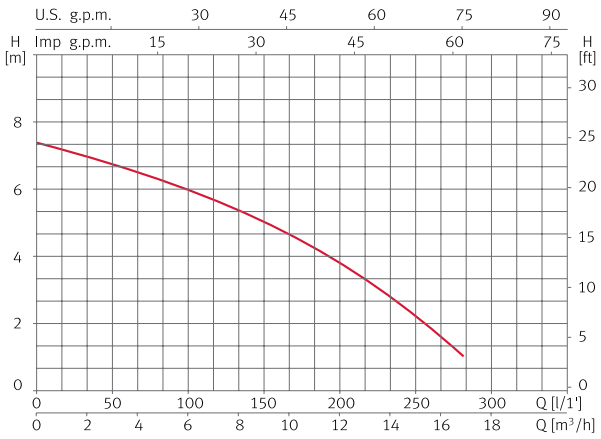
Equipment
Supplied with 10 m power cable.
Single-phase supplied with capacitor box.
Drainex 100M: without float switch.
Drainex 100M A: with float switch.



Hydraulic performance table

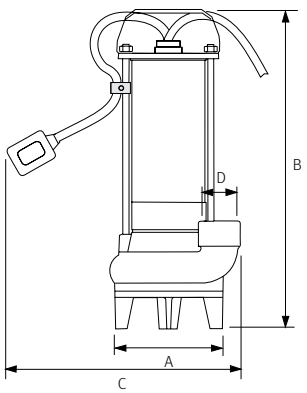
Model	I [A]	P1 [kW]	P2		c	l/min	25	50	100	125	150	200	250	280	1~230 V (Model M)	1~230 V (Model M A)
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	1.5	3.0	6.0	7.5	9.0	12	15	16.8	Code	Code
Drainex 100	3.4	0,75	0,75	1	12	mwc	7	6.7	5.9	5.5	5	3.7	2	1	96622	96625

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	Kg
Drainex 100	138	407	300	1 1/4"	11



TGR Drainage

Submersible pumps for drainage and sewage

Applications
Emptying of septic tanks, cesspools, sewage collection wells, pumping of sewage water with solids in suspension by means of vortex impeller.

Materials
Outer casing, suction filter, support, counter flange, cover, handle and impeller in AISI 304 stainless steel.
Motor flange mount and pump body in cast iron (G20).
Mechanical seal on pump side in silicon carbide and alumina and NBR ring on motor side.
O-ring: NBR.
Motor shaft pump side in stainless steel AISI 316.

Motor
Asynchronous two poles with oil bath lubrication.
Oil-filled motor.
IP 68 protection.
Class F isolation.

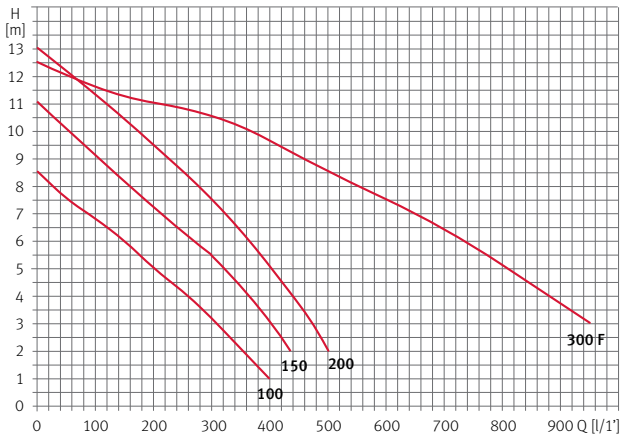
Limitations
Maximum immersion: 5 m.
Maximum liquid temperature: 50 °C.
Maximum passage of solids: Ø30 mm.

Features
10m long power cable
TGR M: without float switch
TGR M A: c/w float switch
TGR T: three phase without float switch
TGR F: three phase with flanged discharge

Hydraulic performance table

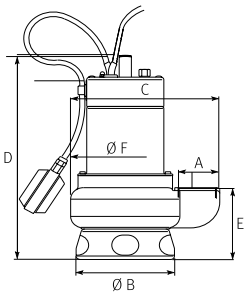
Model	I [A]		P1 [kW]	P2		l/min	0	100	200	300	400	500	700	950	1~230 V (Model M A)	3~400 V (Model T)
	1~ 230 V	3~ 400 V		[kW]	[HP]	m³/h	0	6	12	18	24	30	42	57	Code	Code
TGR 100	7	3.2	1.3	0.75	1	mwc	8.5	6.8	5	3.2	1				TGR 100 MA	TGR 100T
TGR 150	11.5	4.5	1.7	1.1	1.5		11	9	7.3	5.6	3.2				TGR 152 MA	TGR 150T
TGR 200		4.8	2.2	1.5	2		13	11.2	9.5	7.5	3.2					TGR 200T
TGR 300 F		6.5	3.5	2.25	3		12.5	11.5	11	10.5	9.6	8.5	6.5	3		TGR 300F

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	E	F	G	[Kg]
TGR 100	2"	150	232	396	125	50	150	13
TGR 150	2"	150	232	396	125	180	150	15
TGR 200	2"	150	232	396	125	180	150	15
TGR 300 F	3"	214	290	523	133	170	253	32



Drain 100 Drainage

Submersible pumps for the drainage of water without solids in suspension

Applications
Drainage of filtered water, emptying of swimming pools, decorative fountains and waterfalls.

Materials
Discharge body and upper mounting in cast iron.
Impeller in tecnopolimer.
Double mechanical seal in ceramic/graphite/NBR.
Filter in rigid plastic.
Motor housing and transport handle in stainless steel AISI 304.

Motor
Asynchronous, two poles.
IP 68 protection.
Class F insulation.
Continuous operation.
Built-in thermal protection.
Drain 100 M: without float switch.
Drain 100 M A: with float switch.

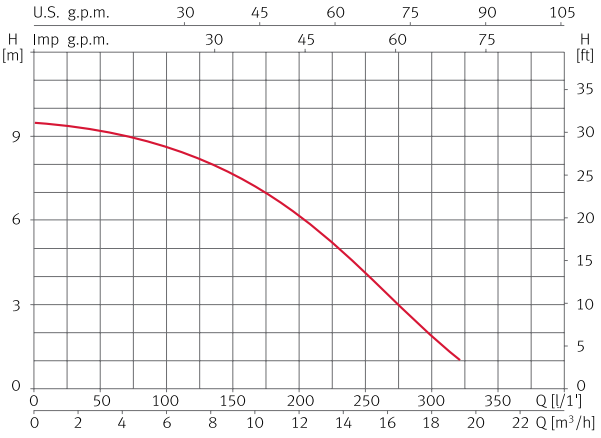
Limitations
Maximum solids handling: 5 mm.
Maximum immersion: 8 m.
Maximum liquid temperature: 40 °C.

Equipment
Supplied with 10 m power cable.
Single-phase supplied with capacitor box.

Hydraulic performance table

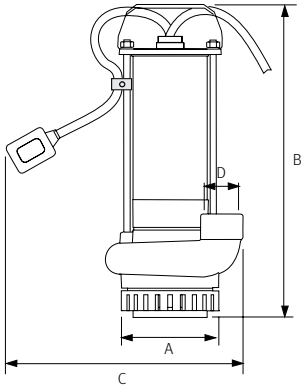
Model	I [A]	P1 [kW]	P2		c	l/min	25	50	100	150	200	250	300	320	1~230 V (Model M)	1~230 V (Model M A)
	1~ 230 V	1~ 230 V	[kW]	[HP]	[µF]	m³/h	1.5	3.0	6.0	9.0	12	15	18	19.2	Code	Code
Drainex 100	3.1	0.7	0.75	1	12	mwc	92	91	87	78	6	4	2	1	96598	96601

Performance curves at 2900 rpm



Dimensions and weights

Model	A	B	C	D	Kg
Drain 100	122	392	300	1 1/4"	10.5



Drainbox 300/600 Drainage

Lifting stations for domestic applications

Applications
Domestic: detached homes, cottages, rural properties, second homes, etc.
Professional: Restaurants, small hotels, stores, workshops, small industries, etc.

Limitations
Maximum temperature of liquid: 40 °C.

Innovation
Drainbox is the advanced, specific solution created by ESPA for the evacuation of water, from any source (foul water, faecal, water, rainwater, etc.) in all environments; domestic or professional, rural or urban, with complicated or unfavourable drainage conditions.

Drainbox collects, stores, treats and drives the water to the drainage level, offering a series of truly outstanding advantages in terms of versatility, installation and performance.

Drainbox is based on simple, highly effective drainage technology that enables each pumping kit to be customised with the type of pump that is most suitable for the function and services to be provided.

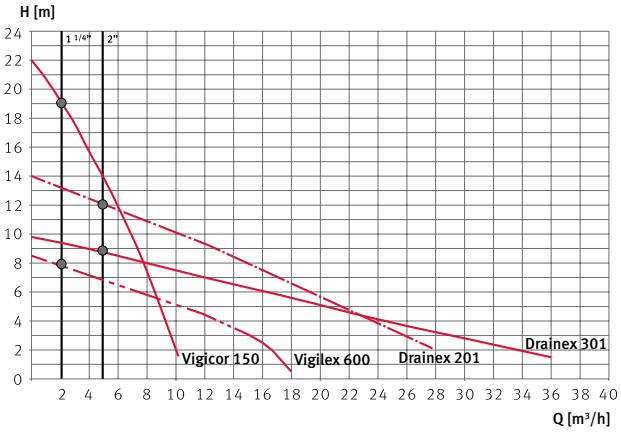
Drainbox is supplied with an innovative tank, and a design that includes a series of novel technical advantages which add up to multiple services that are accumulated for the purpose of customising each installation. Customers can select the input and output pipes, ventilation pipes, emergency evacuation system, retention valve, etc.

Characteristics table

Model	Pump	I [A]		P1 [kW]		P2		Ø Free flows	Ø Con-nection	Q max. [l/min]	Weight [Kg]	Control top panel	Impeller	1~230 V (Model M A)
		1~ 230 V	3~ 400 V	1~ 230 V	3~ 400 V	[kW]	[HP]							Code
Drainbox 300 800M A TP	Vigilex 600 MA	3.4	-	0.8	-	0.6	0.8	24	1 1/4"	240	28.1	-	Vortex	125485
Drainbox 300 1200M D TP FL	Vigicor 150 M	5.4	-	1.2	-	0.9	1.2		1 1/4"	140	41	-	Grinder	142479
Drainbox 300 1400M TP KE FL	Drainex 201M	6.2	2.6	1.4	1.4	1.1	1.5	45	2"	450	55	Top 1	Vortex	142480
Drainbox 300 1400 TP KE FL	Drainex 201	6.2	2.6	1.4	1.4	1.1	1.5	45	2"	450	55	Top 2	Vortex	142481
Drainbox 600 1400M TP KE FL	Drainex 201M	6.2	2.6	1.4	1.4	2 x 1.1	2 x 1.5	45	2"	900	110	Top	Vortex	142482
Drainbox 600 1400 TP KE FL	Drainex 201	6.2	2.6	1.4	1.4	2 x 1.1	2 x 1.5	45	2"	900	110	Top	Vortex	142483
Drainbox 600 1500M TP KE FL	Drainex 301M	6.8	2.7	1.5	1.5	1.1	1.5	60	2"	600	122	Top	Vortex	142484
Drainbox 600 1500 TP KE FL	Drainex 301	6.8	2.7	1.5	1.5	1.1	1.5	60	2"	600	122	Top	Vortex	142485

Drainbox 300/600 Drainage

Performance curves at 2900 rpm



● Minimum flow for preventing particles from acculating in the pipes

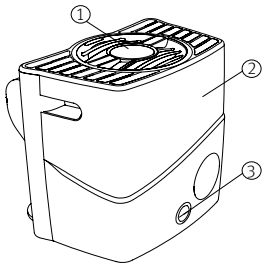
Vigilex M A

Drainex 201/301 M/T

Vigicor 150 M

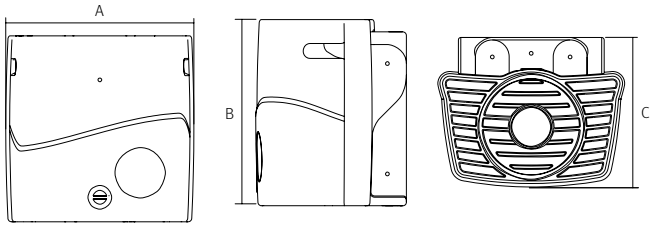
Dimensions and weights

Model	A	B	C
Drainbox 300	770	760	615
Drainbox 600	1230	760	615



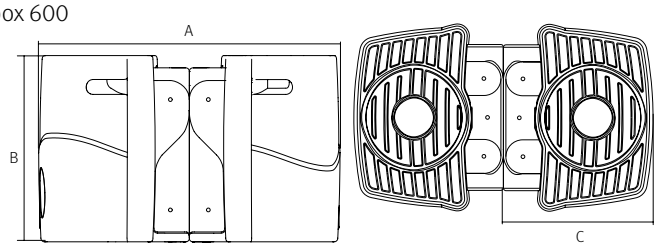
1 Tank cover - 2 Tank - 3 Drain plug

Drainbox 300



1 pump - 1 Tank of 300 liters - Packaging kit - Control Panel

Drainbox 600



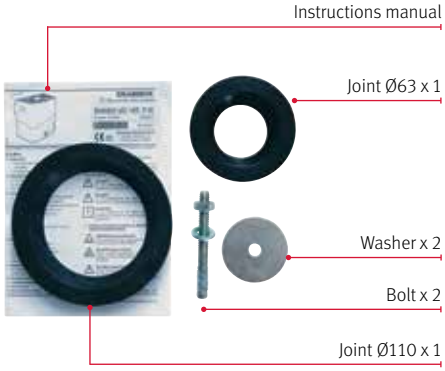
2 pumps - 2 Tanks of 300 liters - Packaging kit - Control Panel

Control Panel Options (depending on model)

Control top panel

Wall box

Packaging kit



Accessories

Ø 63/Ø110 joint

Ø100 elbow male/female

Extension

Ball valve

Non return valve

Float switch kit

Control Panels Drainage

Control panels for sewage pump & stations

Features

Control panel for 1 motor.
D.O.L. start.
Power supply 1~50/60 Hz 230 V ± 10% (DRENA 1-Mono).
Power supply 3~50/60 Hz 400 V ± 10% (DRENA 1-Tri).
Auxiliaries contacts and circuits in low voltage.
Normally open contact for start.
Normally open contact for minimum level/pressure/stop contact or input for 3 levels probes.
Normally open contact for alarm activation 12 Vcc 200 mA.
Normally open contact for clicson of the motor.

Push-buttons for selecting Auto-Off/Reset-Manual (temporary) operation.
Dip-switch selector for probes operating in filling/emptying mode.
Green led indicating mains supply.
Green led indicating motor running.
Green led indicating automatic operation.
Red led indicating level alarm.
Red led indicating motor overload.
Red led indicating clicson alarm.
Adjustable overload electronic protection.
Auxiliaries and motor protection fuses.
Alarm output (com-no-nc resistive load).
Main switch interlocking door.
Running capacitor can be added (not included).

Enclosure in ABS, IP 55
Ambient temperature: -5/+40 °C.
Relative humidity 50% at 40 °C (not condensed).

Features

Control panel for 2 motors.
D.O.L. start.
Power supply 1~50/60 Hz 230 V ± 10% (DRENA 2-Mono).
Power supply 3~50/60 Hz 400 V ± 10% (DRENA 2-Tri).
Auxiliaries contacts and circuits in low voltage.
N.2 normally open contact for start.
Normally open contact for minimum level/pressure/stop.
Normally open contact for alarm activation 12 Vcc 200 mA.
N.2 normally open contact for clicson of the motor.

Push-buttons for selecting Auto-Off/Reset-Manual (temporary) operation.
Motors' exchanger with 5" delay.
Internal selector for exchanger exclusion.
Green led indicating mains supply.
N.2 Green led indicating motor running.
N.2 Green led indicating automatic operation.
Red led indicating level alarm.
N.2 Red led indicating motor overload.
N.2 Red led indicating clicson alarm.
Adjustable overload electronic protection.
Auxiliaries and motor protection fuses.
Alarm output (com-no-nc resistive load).
Main switch interlocking door.

Running capacitor can be added (not included).
Enclosure in ABS, IP 55.
Ambient temperature: -5/+40 °C.
Relative humidity 50% at 40 °C (not condensed).

One Pump

Model	Voltage [V]	P2		Max [A]	Height	Lenght	Width	Weight [Kg]	Code
		[kW]	[HP]						
Drena one pump with alarm 1PH	230	0.37 - 2.2	0.5 - 3	16	320	240	190	1.5	**01.300**
Drena one pump with alarm 3PH	400	0.55 - 4	0.75 - 5.5	8	320	240	190	2	**01.301**
Drena one pump with alarm 3PH	400	0.75 - 5.5	0.75 - 7.5	11	320	240	190	2	**01.302**
Drena one pump with alarm 3PH	400	0.55 - 7.5	0.75 - 10	15	320	240	190	2.5	**01.303**
Drena one pump with alarm 3PH	400	7.5 -11	10 - 15	24	320	240	190	3	**01.304**

Two Pump

Model	Voltage [V]	P2		Max [A]	Height	Lenght	Width	Weight [Kg]	Code
		[kW]	[HP]						
Drena two pump with alarm 1PH	230	0.37 - 2.2 x 2	0.5 - 3 x 2	16 x 2	320	240	190	4	**02.300**
Drena two pump with alarm 3PH	400	0.55 - 4 x 2	0.75 - 5.5 x 2	8 x 2	320	240	190	5.5	**02.301**
Drena two pump with alarm 3PH	400	0.75 - 5.5 x 2	0.75 - 7.5 x 2	11 x 2	320	240	190	5.5	**02.302**
Drena two pump with alarm 3PH	400	0.55 - 7.5 x 2	0.75 - 10 x 2	15 x 2	320	240	190	6.5	**02.303**
Drena two pump with alarm 3PH	400	7.5 -11 x 2	10 - 15 x 2	24 x 2	380	300	190	6.5	**02.304**

Notes

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