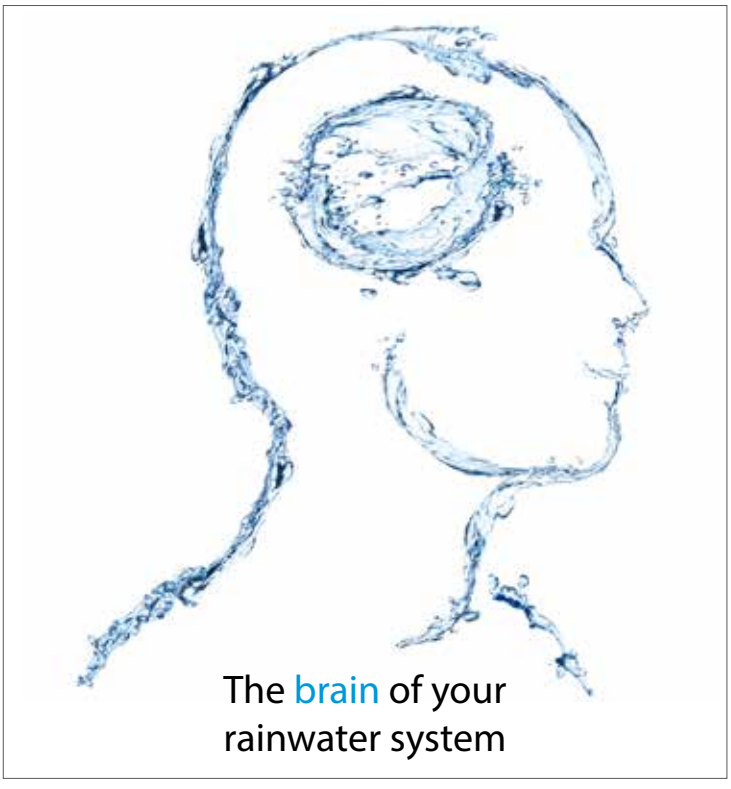
IRM® Control systems and rainwater pumps



The brain of your rainwater system

GEP rethinking water

iRM Intelligent Rainwater Management

IRM®-1 WATERMANAGER

Rainwater changeover system with self-priming diaphragm pump

PRODUCT DESCRIPTION

The IRM®-1 Watermanager is a plug-in, compact installation for rainwater use in single-family homes. The break tank for drinking water supply is in accordance with EN1717 type AB. Content 3 liters. The IRM®-1 Watermanager has a 24 Volt self-priming membrane pump with automatic pressure control. The motor-controlled ball valve provides for the switch between rainwater and drinking water operation.

Control provides an automatic drinking water refreshment system that regularly switches the system to drinking water. For example, the contents of the break tank are regularly updated and prevent the tap water in the drinking water pipe from being idle for too long. In the absence of rainwater, the system automatically switches to drinking water by means of the float with a 20 meter cable length. The IRM®-1 Watermanager is provided with a sound-proof EPP housing. The 8 liter pressure vessel, including mounting bracket and shut-off valve, ensures optimum operation of the membrane pump. The IRM®-1 Water Manager is suitable for wall and floor mounting. To reduce resonance, the device should be placed, preferably on a solid floor. The device is KIWA, Belgaqua and DVGW certified.

SCOPE

The system is applicable for the use of filtered rainwater for toilet flushing and for the connection of a washing machine. Not suitable for continuous consumers such as sprinkling. The characteristic feature of this pump is the very low energy consumption.

TECHNICAL DATA

Height A in mm:	340
Width B in mm:	340
Depth C in mm:	279
Drinking water connection D:	1/2"
Suction pipe E:	3/4"
Pressure line F:	3/4"
Emergency overflow G in mm:	Ø40
Volume breaktank in liters:	3

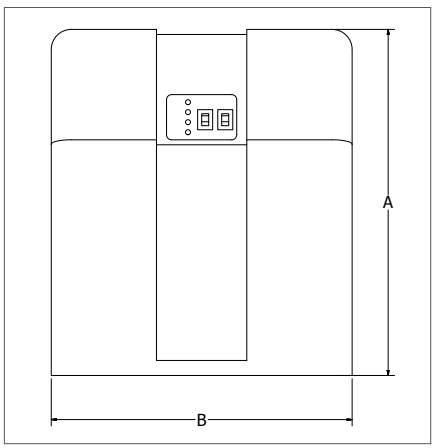
TECHNICAL SPECIFICATIONS

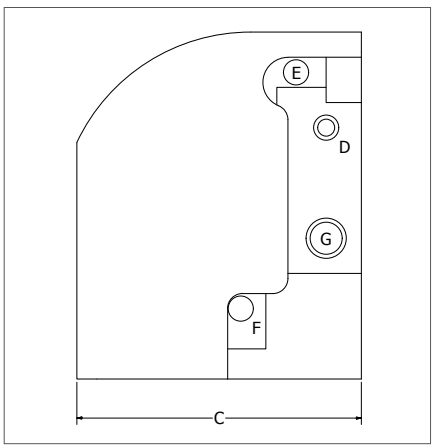
Voltage in V:	230
Power in Watt:	98
Maximaal debiet liter/min:	15
Max. opvoerHeight in m:	28
Leeggewicht in kg:	6

MATERIAL

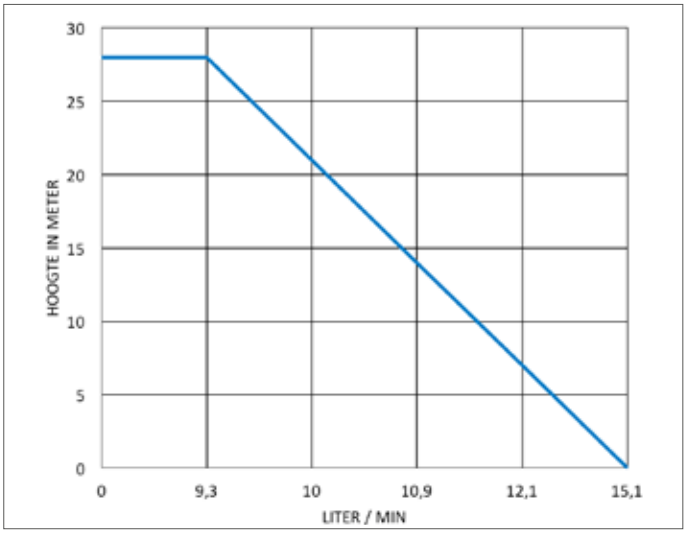
Name	Material
Soundproof hood:	EPP
Breaktank:	HDPE
Pressure vessel:	Staal, vervangbare balg EPDM
Pump house:	Polypropyleen
Membrane:	Santoprene
Motor housing:	RVS
Electro cable pump:	3 aderig 1,00 mm² H07Rn-F
Press-suction side:	Messing

TECHNICAL DRAWINGS

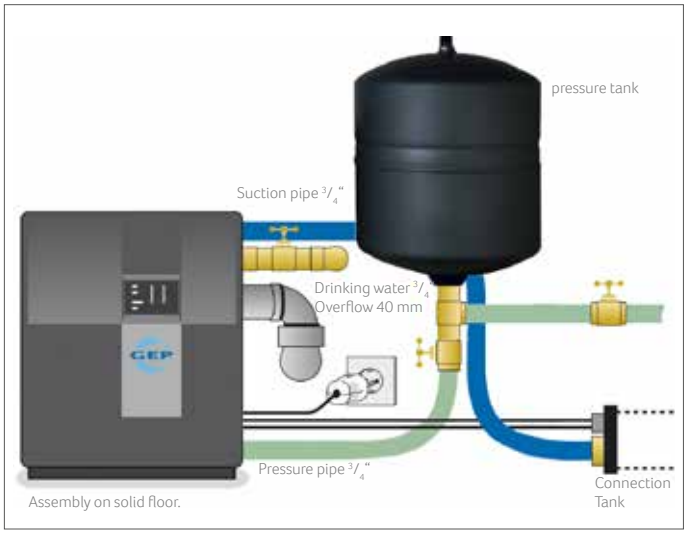




PUMP CHARACTERISTIC



CONNECTION DIAGRAM



OPTIONS

IRM®-1 water lock

If there is no Emergency overflow connection present, the device can be extended with a water seal, which closes the drinking water supply when a leaking drinking water valve is.

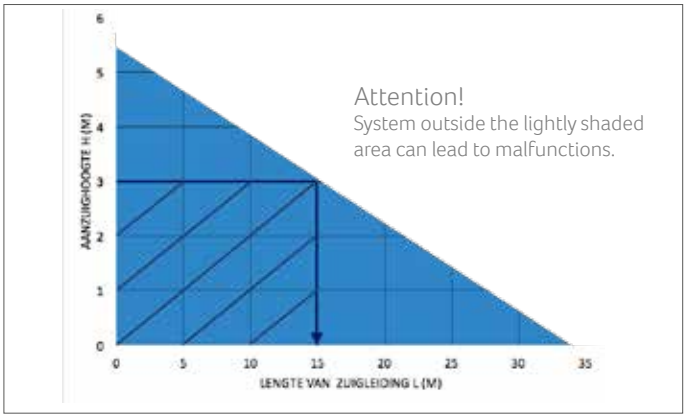

Detail: type AB onderbreking

SCOPE OF DELIVERY

The IRM®-1 Watermanager is supplied with: sound-insulating foam hood, flexible stainless steel hoses for connection of the drinking water, suction and pressure line including shut-off valves, float with 20 meter cable and cable clamp for tank mounting, mains cable of 2 meters, pressure vessel 8 liters including mounting bracket and shut-off valve and installation instructions.

ORDERING INFORMATION

Art nr	NAME	PG
402101	IRM®-1 Watermanager	1
402234	Waterslot IRM®-1	1



IRM®-3/ IRM®-5 WATERMANAGER

Rainwater changeover system with self-priming centrifugal pump

rethinking water

kiwa gecertificeerd

BELGAQUA CERTIFICAAT

DVGW CERT

PRODUCT DESCRIPTION

The IRM®-3 & 5 Watermanager is a plug-in, compact installation for rainwater use in single-family homes. The break tank for drinking water supply is in accordance with EN1717 type AB. Content 7 liters. The IRM®-3 & 5 Water Manager has a self-priming centrifugal pump (RC-3 or RC-5) with automatic pressure control. The motor-controlled ball valve provides for the switch between rainwater and drinking water operation.

Control provides an automatic drinking water refreshment system that regularly switches the system to drinking water. For example, the contents of the break tank are regularly updated and prevent the tap water in the drinking water pipe from being idle for too long. In the absence of rainwater, the system automatically switches to drinking water by means of the float with a 20 meter cable length. The IRM®-3 & 5 Watermanager is equipped with a sound-proof EPP housing. The IRM®-3 & 5 Water Manager is suitable for wall mounting. The device is KIWA, Belgaqua and DVGW certified.

SCOPE

The system can be used for the use of filtered rainwater for flushing toilets, connecting a washing machine and an outdoor tap. Also suitable for continuous consumption such as sprinkling. The appliance is suitable for wall mounting.

TECHNICAL DATA

Height A in mm:	596
Width B in mm:	662
Depth C in mm:	365
Drinking water connection D:	3/4''
Suction pipe E:	1''
Pressure line F:	1''
Emergency overflow G in mm:	Ø75
Volume breaktank in liters:	7

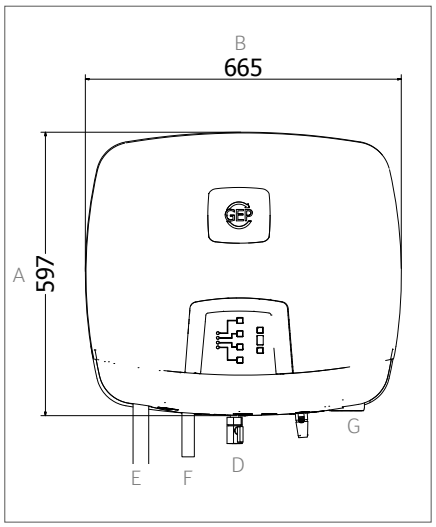
TECHNICAL SPECIFICATIONS

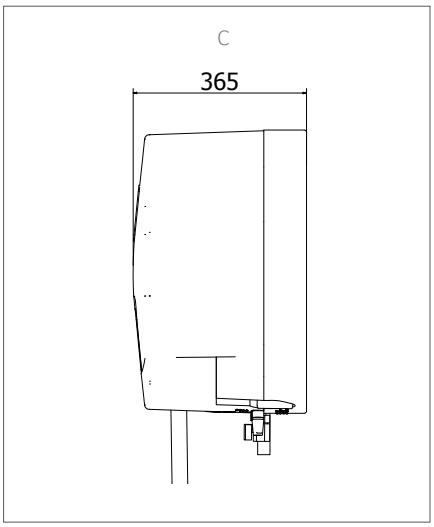
	IRM®-3	IRM®-5
Voltage in V:	230	230
Power in Watt:	1.100	1.350
Max. debiet in liter/min:	60	90
Max. opvoerHeight in m:	50	53
Leeggewicht in kg:	33	33
Aantal waaiers:	5	5
Condensator in µF:	20	25

MATERIAL

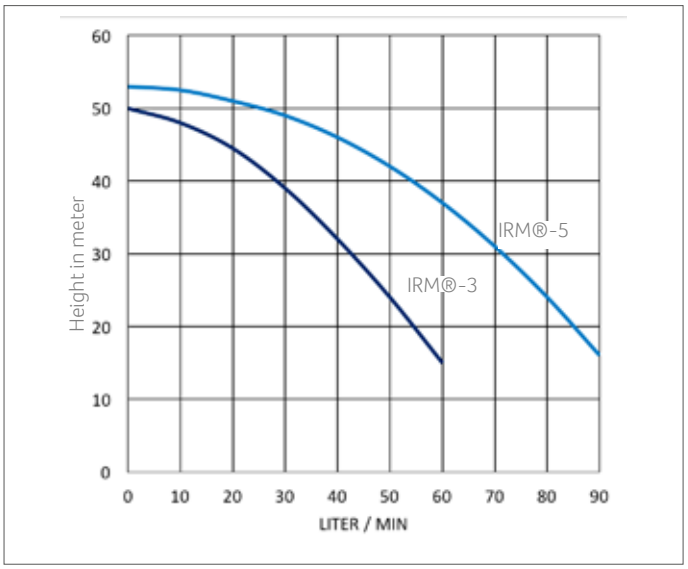
Name	Material
Sound insulating hood:	EPP
Breaktank:	HDPE
Press, suction side:	Messing
Impellers:	RVS
Pump housing:	RVS
Motor housing:	RVS
Air separator and guide wheel:	PPO (noryl)

TECHNICAL DRAWINGS

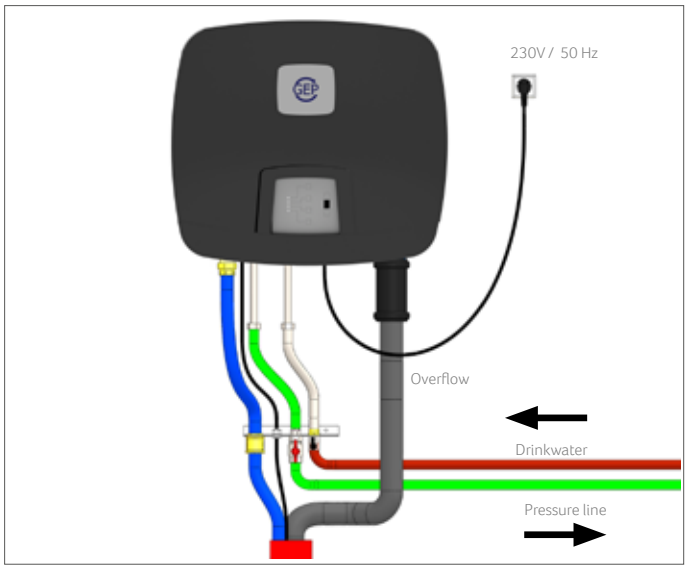




PUMP CHARACTERISTIC



CONNECTION DIAGRAM



OPTIONS

IRM® 3/5 water lock
If there is no Emergency overflow connection present, the device can be extended with a water seal, which closes the drinking water supply with a leaky drinking water valve.

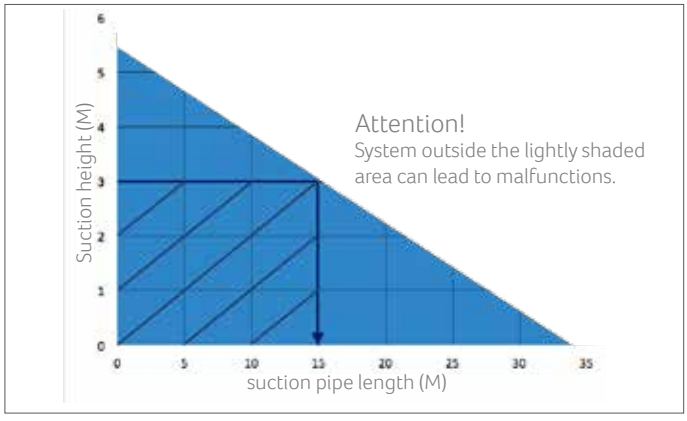
Automatic time-controlled filter cleaner 1/2 “
Set consisting of: adjustable automatic timer, solenoid valve 1/2 “ including 1,5m cable and plug. Digital display.

SCOPE OF DELIVERY

IRM®-3 Watermanager / IRM®-5 Watermanager comes with: sound-insulating foam hood, flexible stainless steel hoses for connection of the drinking water, suction and pressure line including shut-off valves, float switch with 20 meter cable and cable clamp for tank mounting, power cord of 2 meter, wall bracket with fastening Material, rubber resonance strip and installation instructions.

ORDERING INFORMATION

Art nr	NAAM	PG
402112	IRM®-3 Watermanager	1
402113	IRM®-5 Watermanager	1
402138	Water lock IRM® 3/5	1
401155	Automatic time-controlled filter cleaner 1/2 “	2



IRM®-3S/ IRM®-5S WATERMANAGER

Rainwater changeover system with pressure immersion pump

PRODUCT DESCRIPTION

The IRM®-3S & 5S Water Manager is a complete rainwater system in combination with a pressure immersion pump in the rainwater tank for the use of rainwater in single-family homes. The break tank for drinking water supply is in accordance with EN1717 type AB. content 7 liters The Water Manager is supplied with a pressure immersion pump (combi-press 5-30 or combipers 5-60) with 2 connections on the suction side. The pump is supplied with a floating suction hose for mounting on the suction side. The other suction side is used to connect the drinking water supply from the IRM®-S Water Manager.

The motor-controlled ball valve provides the supply of drinking water to the pressure submersible pump. In the absence of rainwater, the system automatically switches to drinking water by means of the float with a 20 meter cable length. The control also provides for automatic drinking water refreshment of the break tank with long-term use of rainwater. The Watermanager is provided with a sound-proof EPP housing. The IRM®-3S & 5S Water Manager is suitable for wall mounting. Device is KIWA, Belgaqua and DVGW certified.

SCOPE

The system can be used for the use of filtered rainwater for flushing toilets, connecting a washing machine and an outdoor tap. Also suitable for continuous consumption such as sprinkling. Appliance is suitable for wall mounting.

TECHNICAL DATA

Height A in mm:	596
Width B in mm:	662
Depth C in mm:	365
Drinking water connection D:	3/4”
Suction pipe E:	1’’
Pressure line F:	1’’
Emergency overflow G in mm:	Ø75
Volume breaktank in liters:	7

TECHNICAL SPECIFICATIONS 5-30 5-60

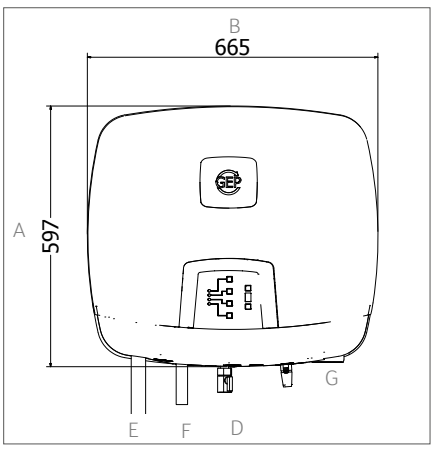
Voltage in V:	230	230
Power in Watt:	550	750
Max. debiet in liter/min:	65	85
Max. opvoerHeight in m:	34	58
Leeggewicht in kg:	21	21
Aantal waaiers	3	5
Condensator in µF:	20	25

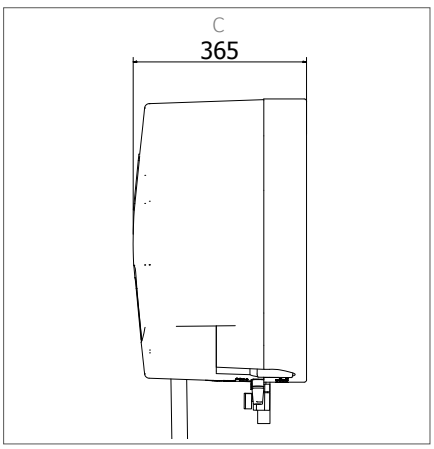
MATERIAL

NAAM	Material
Soundproof hood:	EPP
Breaktank:	HDPE
Pump housing:	RVS (304)
Rotor:	RVS (410)
Leiwiel / air separator:	PPO (noryl)
Electro cable pump:	3 aderig 1,00 mm² H07Rn-F

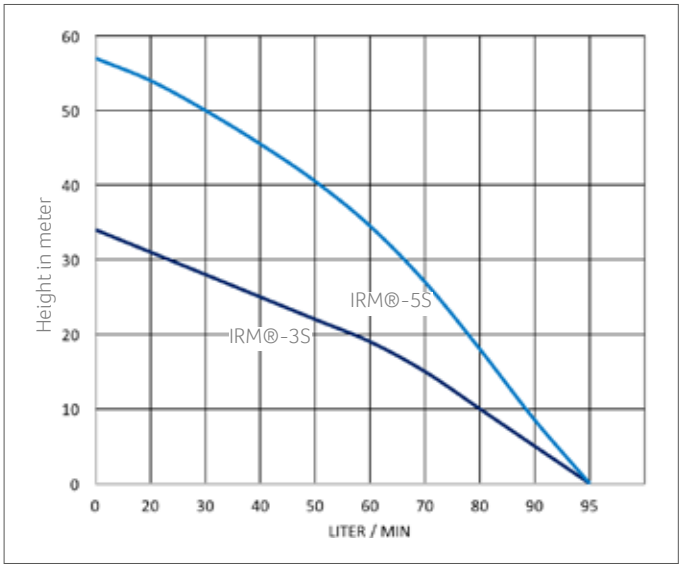
Double shaft seal silicon carbonate and aluminum oxide / ceramic in oil-filled chamber, suction hose bacterial-inhibiting thermoplastic. Suction basket and hose clamps stainless steel.

TECHNICAL DRAWINGS

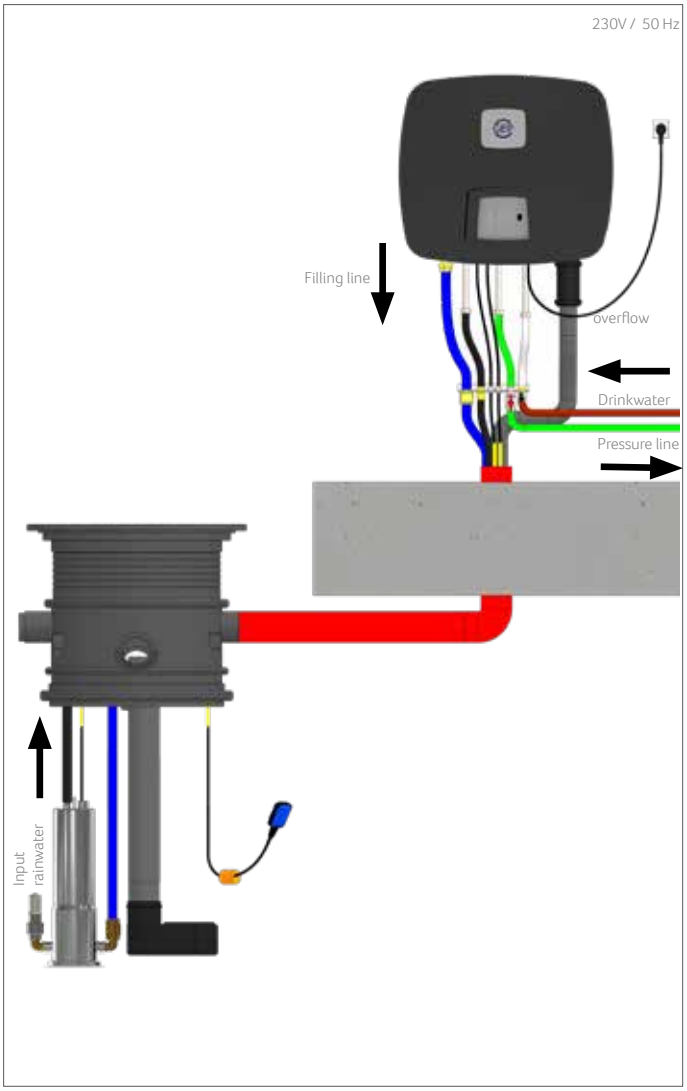




PUMP CHARACTERISTIC



CONNECTION DIAGRAM



OPTIONS

Water lock IRM® 3S / 5S
If there is no Emergency overflow connection present, the device can be extended with a water seal, which closes the drinking water supply with a leaky drinking water valve.

Automatic time-controlled filter cleaner 1/2 “
Set consisting of: adjustable automatic timer, solenoid valve 1/2 “including 1,5m cable and plug. Digital display.

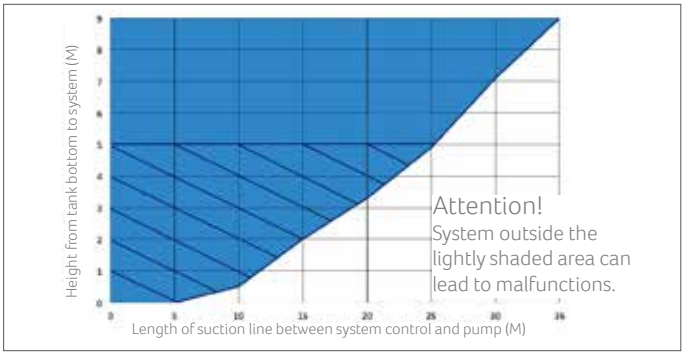
Submersible pump kit
Stainless steel wire and mounting parts to be able to attach the submersible pump to the top of the rainwaterput.

SCOPE OF DELIVERY

Water manager IRM®-3S / IRM®-5S is supplied with: Combipress submersible pump 5-30 / 5-60, floating suction hose with 60 cm hose, flexible stainless steel hoses for connection of drinking water, suction and Druckleitung including stop valves, float with 20 meters of cable and cable clamp for tank mounting, mains cable of 2 meters, wall bracket with rubber resonance strip, fastening Material and installation instructions.

ORDERING INFORMATION

Art nr	NAME	PG
402114	IRM®-3S Watermanager	1
402115	IRM®-5S Watermanager	1
402138	Water lock IRM® 3/5	1
401155	Automatic time-controlled filter cleaner 1/2 “	2
402253	Revision set	1



IRM®-T WATERMANAGER

Rainwater changeover system

PRODUCT DESCRIPTION

The IRM®-Twatermanager is a plug-in, compact installation for rainwater use in single-family homes. The break tank for drinking water supply is in accordance with EN1717 type AB. Content 7 liters. The IRM®-T Watermanager has a fully automatic control system. The motor-controlled ball valve provides for the switch between rainwater and drinking water operation.

Control provides an automatic drinking water refreshment system that regularly switches the system to drinking water. For example, the contents of the break tank are regularly updated and prevent the tap water in the drinking water pipe from being idle for too long. In the absence of rainwater, the system automatically switches to drinking water by means of the float with a 20 meter cable length. The IRM®-T Watermanager is equipped with a sound-proof EPP housing. The IRM®-T Watermanager is suitable for wall mounting. The device is KIWA, Belgaqua and DVGW certified.

SCOPE

The system can be used for the use of filtered rainwater for flushing toilets, connecting a washing machine and an outdoor tap. Also suitable for continuous consumption such as sprinkling. The appliance is suitable for wall mounting

TECHNICAL DATA

Height A in mm:	597
Width B in mm:	665
Depth C in mm:	365
Drinking water connection D:	3/4''
Suction pipe E:	1''
Emergency overflow F in mm:	Ø75
Volume breaktank in liters:	7

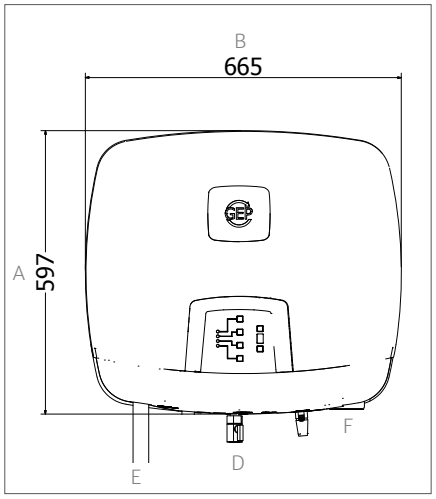
TECHNICAL SPECIFICATIONS IRM®-T

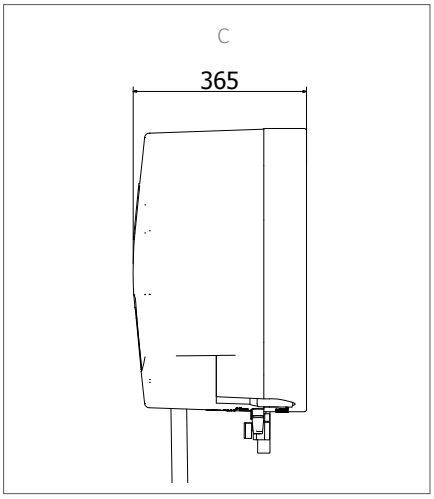
Voltage in V:	230
Max. Power in Watt:	1.350
Max. debiet in liter/min:	90
Leeggewicht in kg:	15

MATERIAL

Name	Material
Sound insulating hood:	EPP
Breaktank:	HDPE
Press, suction side:	Messing
Electro cable pump:	3 aderig 1,00 mm² H07Rn-F

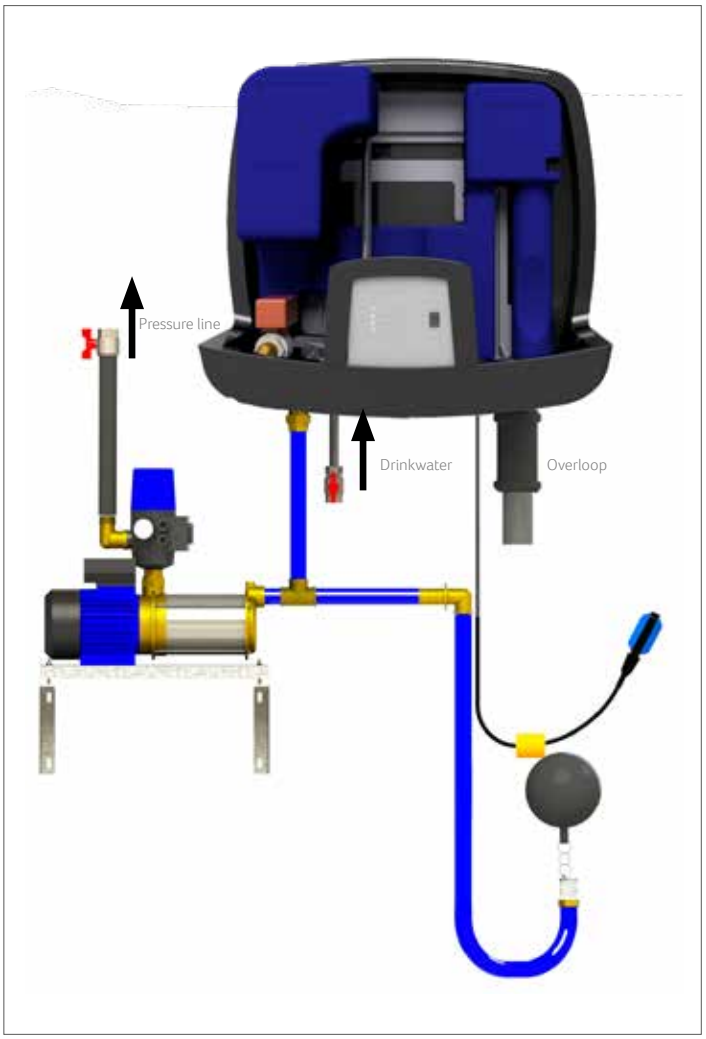
TECHNICAL DRAWINGS





PRODUCT

CONNECTION DIAGRAM



OPTIONS

Water lock
If there is no Emergency overflow connection present, the device can be extended with a water seal, which closes the drinking water supply with a leaky drinking water valve.

Automatic time-controlled filter cleaner 1/2 “
Set consisting of: adjustable automatic timer, solenoid valve 1/2 “ including 1,5m cable and plug. Digital display.

SCOPE OF DELIVERY

IRM®-T Watermanager is supplied with: sound-insulating foam hood, flexible stainless steel hoses for connection of the drinking water, suction and Druckleitung including shut-off valves, float switch with 20 meter cable and cable clamp for tank mounting, mains cable of 2 meters, wall bracket with fastening Material, rubber resonance strip and installation instructions.

ORDERING INFORMATION

Art nr	NAME	PG
402118	IRM®-T Watermanager	1
402138	Water lock	1
401155	Automatic time-controlled filter cleaner 1/2 “	2

DBS SYSTEM WITH INNER PUMP

Rainwater system with self-priming pump and drinking water replenishment system

PRODUCT DESCRIPTION

The DBS drinking water refill system with inner pump is a complete wall module for the use of rainwater in single-family homes. The drinking water refill is in accordance with EN1717 type AA. The system consists of a self-priming centrifugal pump (RC-3 or RC-5) with automatic pressure control and pressure gauge, a wall bracket and a drinking water refill set. The stainless steel wall console is equipped with vibration dampers for optimum resonance damping of the pump.

The stainless steel bracket for the funnel and solenoid valve can be mounted on both the left and right side walls of the wall bracket. Via the solenoid valve, the rainwater tank is partially refilled with drinking water by controlling a float. The stainless steel console is suitable for wall mounting.

SCOPE

The system can be used for the use of filtered rainwater for flushing toilets, connecting a washing machine and an outdoor tap. This system is suitable for continuous use.

TECHNICAL DATA

Height A in mm:	610
Width B in mm:	560
Depth C in mm:	210
Drinking water connection D:	1/2 “
Zuigleiding E:	1”
Pressure line F:	1”
Bijvultrechter G in mm:	Ø50

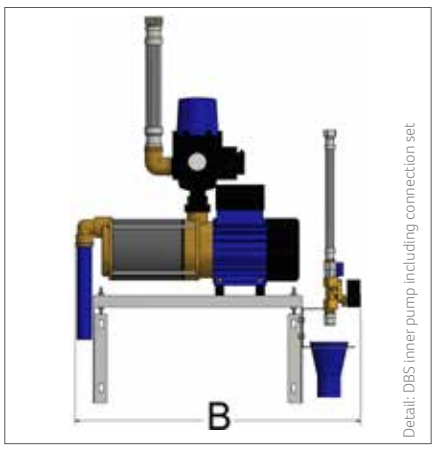
TECHNICAL SPECIFICATIONS

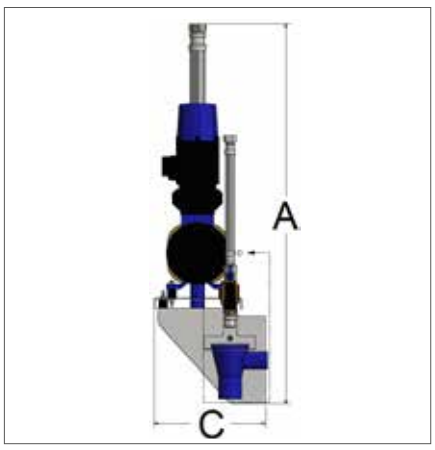
	RC-3	RC-5
Voltage in V:	230	230
Power in Watt:	1.100	1.350
Debiet in liter/min:	60	90
Max. opvoerHeight in m:	50	53
Aantal waaiers:	5	5
Leeggewicht in kg:	18	18
Condensator in µF:	20	25

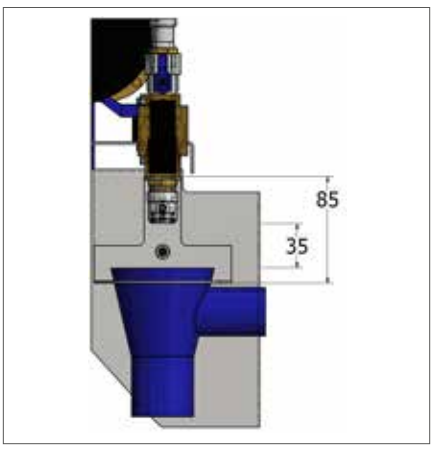
MATERIAL

Name	Material
Pump console:	RVS
Suction side:	Messing
Impellers:	RVS
Pump housing:	RVS
Motor housing:	RVS
Air separator:	PPO (noryl)
Leiwiel:	PPO (noryl)
Electro cable pump:	3 aderig 1,00 mm² H07Rn-F

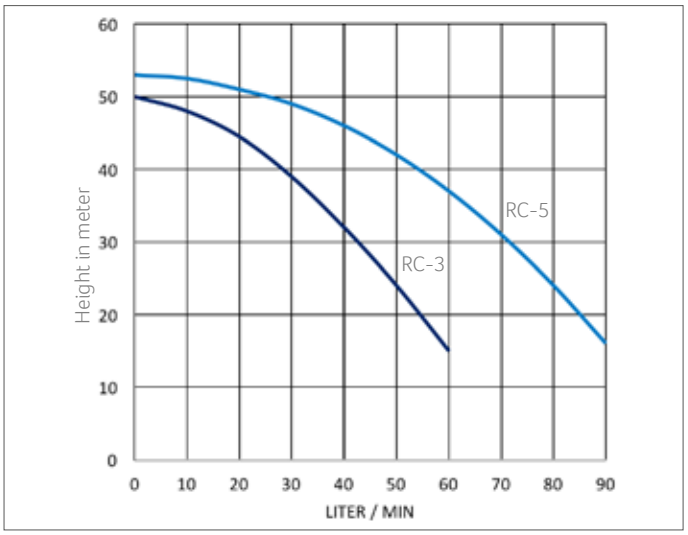
TECHNICAL DRAWINGS



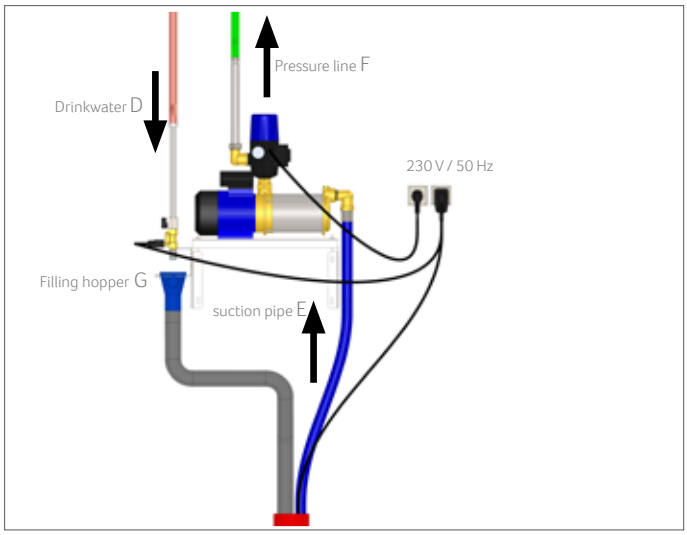




PUMP CHARACTERISTIC

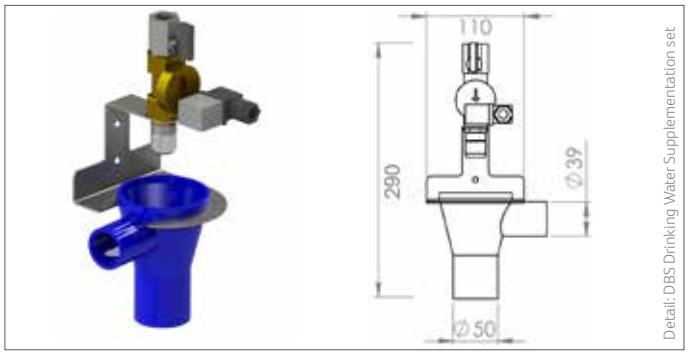


CONNECTION DIAGRAM



OPTIONS

DBS-Inner pump connection set
Connection set consisting of: flexible 3-part panzer hose for drinking water piping 1/2 “, for Pressure line 1” with valve and flexible resonance damping suction pipe.

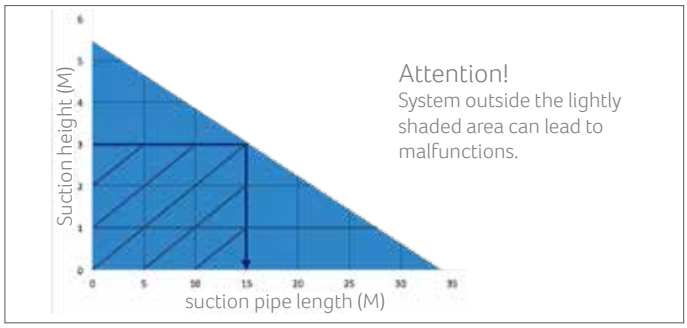


SCOPE OF DELIVERY

Product consists of: a self-priming centrifugal pump RC-3 or RC-5, float with 20 meter cable and cable clamp for tank mounting, through-coupling plug, wall bracket for RC pump, stainless steel bracket for solenoid valve and funnel including 1/2 “shut-off valve, 1/2” solenoid valve, wall mounting set and installation instructions.

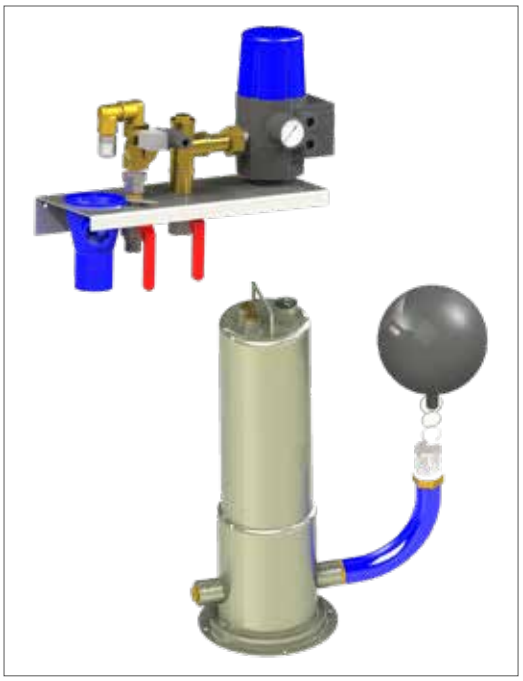
ORDERING INFORMATION

Art nr	NAME	PG
402202	DBS-3 Systeem met binnenpomp	1
402203	DBS-5 Systeem met binnenpomp	1
402254	DBS-Binnenpomp aansluitset	1
402204	DBS Drinkwater bijvulset	1
402205	DBS Drinkwater bijvulset	1



DBS SYSTEM WITH INNER PUMP

Rainwater system with pressure immersion pump and drinking water refill system



PRODUCT DESCRIPTION

The DBS drinking water refill system with pressure immersion pump is a complete solution for the use of rainwater in single-family homes. The drinking water refill is in accordance with EN1717 type AA. The system consists of a pressure submersible pump (5-30 or 5-60) including a floating suction hose, automatic pressure control and pressure gauge, a wall bracket and a drinking water refill set.

The stainless steel console is equipped with a 1/2 “solenoid valve and a funnel with free side exit. Via the solenoid valve, the rainwater tank is partially refilled with drinking water by controlling a float. The stainless steel console is suitable for wall mounting.

SCOPE

The system can be used for the use of filtered rainwater for flushing toilets, connecting a washing machine and an outdoor tap. This system is suitable for continuous use.

TECHNICAL DATA

Height in mm:	310
Width in mm:	365
Depth in mm:	140
Drinking water connection:	1/2’’
Aansluiting pomp:	1’’
Pressure line:	3/4’’
Bijvultrechter in mm:	Ø50
Gewicht console: in kg:	5

TECHNICAL SPECIFICATIONS

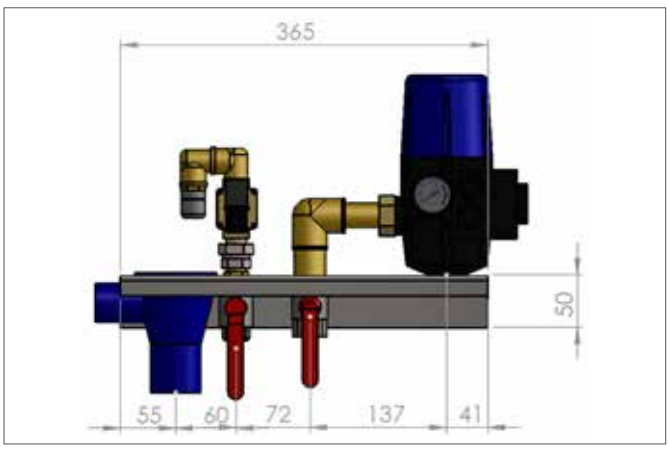
	5-30	5-60
Voltage in V:	230	230
Power in Watt:	550	750
Debiet in liter/min:	65	85
Max. opvoerHeight in m:	34	58
Leeggewicht in kg:	13	14
Aantal waaiers:	3	5
Condensator in µF:	20	25

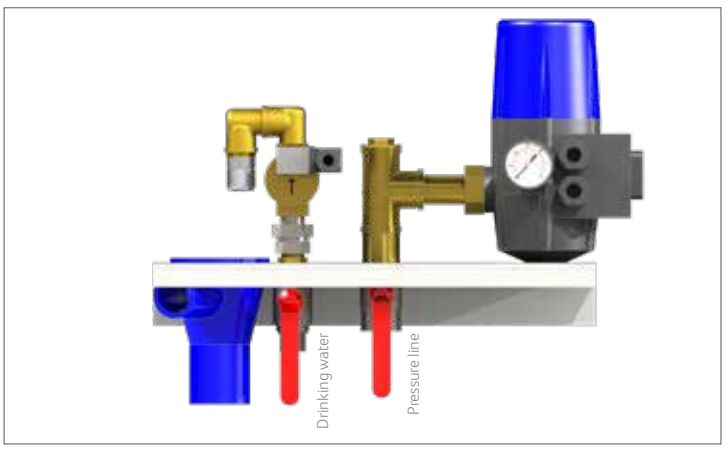
MATERIAL

Name	Material
Console:	RVS
Suction basket and hose clamps:	RVS
Pump housing:	RVS (304)
Rotor:	RVS (410)
Leiwiel:	PPO (noryl)
Solenoid valve:	Messing
Tracker:	PE
Electrical cable pump:	4 aderige kabel 1,00 mm² H07Rn8F

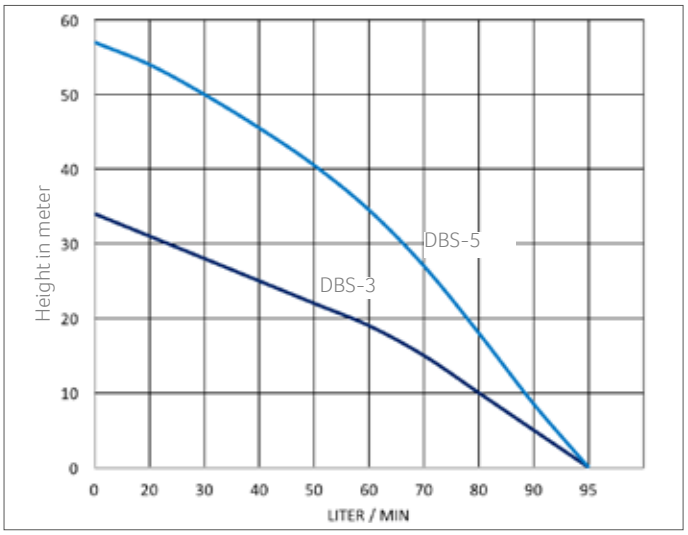
Double seal silicon carbone and aluminum oxide / ceramic in oil filled chamber

TECHNICAL DRAWINGS

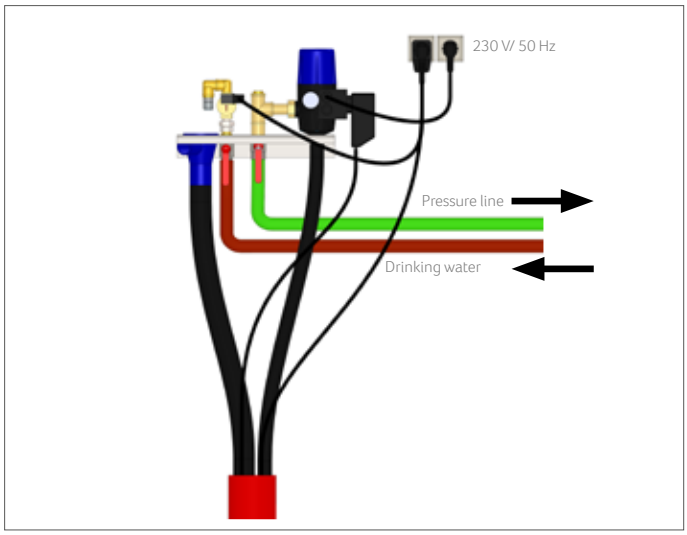




PUMP CHARACTERISTIC



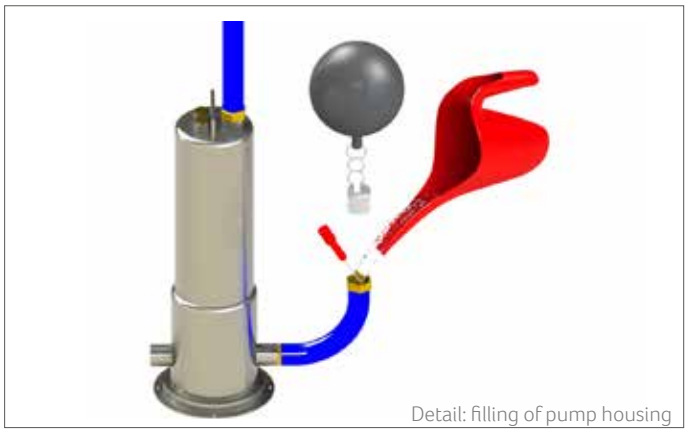
CONNECTION DIAGRAM



OPTIONS

DBS Submersible connection set
Complete connection set for the installation of the submersible pump in the rainwater well or tank. Consists of: flexible pressure hose 2 m, brass grommet 1 “, brass elbow 1” with tank penetration, PE coupling 1 “bi and bu.

Submersible pump kit
Stainless steel wire and mounting parts to be able to attach the submersible pump to the top of the rainwater well.

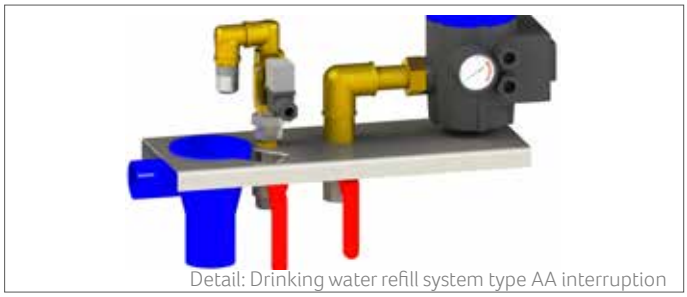

Detail: filling of pump housing

SCOPE OF DELIVERY

Combipress submersible pump 5-30 / Combipress submersible pump 5-60, floating suction hose with 60 cm hose, flexible stainless steel hoses for connection of the drinking water 1/2 “and Pressure line 3/4”, float with 20 meter cable and cable clamp for tank mounting, through coupling plug , wall console with pressure control, solenoid valve and funnel including shut-off valves, PE compression fitting 25 mm - 1 “BI and installation instructions

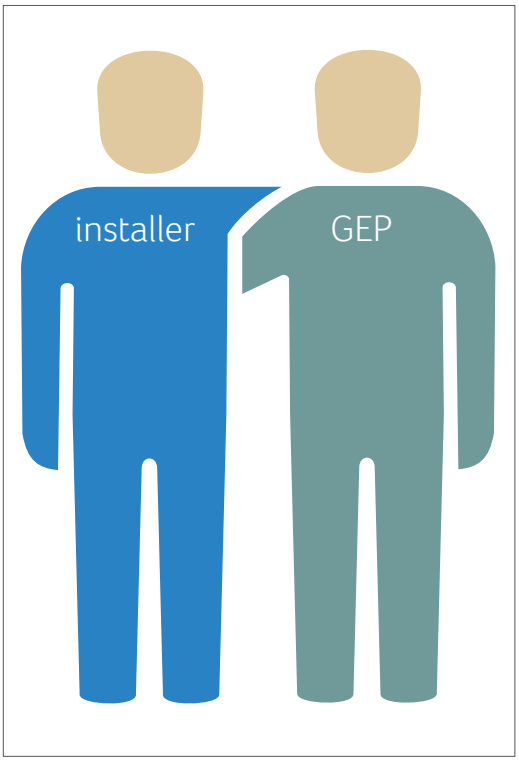
ORDERING INFORMATION

Art nr	NAAM	PG
402201	DBS-3 system with inner pump	1
402292	DBS-5 system with inner pump	1
402260	DBS Submersible connection set	1
402253	Submersible pump kit	1


Detail: Drinking water refill system type AA interruption

RAINWATERHUB

Simply offer a rainwater system



SAY 'YES' AS YOUR CUSTOMERS REQUEST A RAINWATER SYSTEM

The use of rainwater is environmentally friendly and economical. Many customers therefore want a rainwater system. With the innovative RegenwaterHUB from GEP you can easily offer such a system. Because the installation is quick, easy and simple to offer.

The advantages of the GEP Rainwater HUB:

- Easy installation You place the Rainwater HUB on the outside wall and connect the pipes. Acts that you perform every day. The chance of making mistakes is limited to a minimum.

- Quickly connect
We install the pump system and do the rest. The connection of the system is quick and easy thanks to the Rainwater HUB.

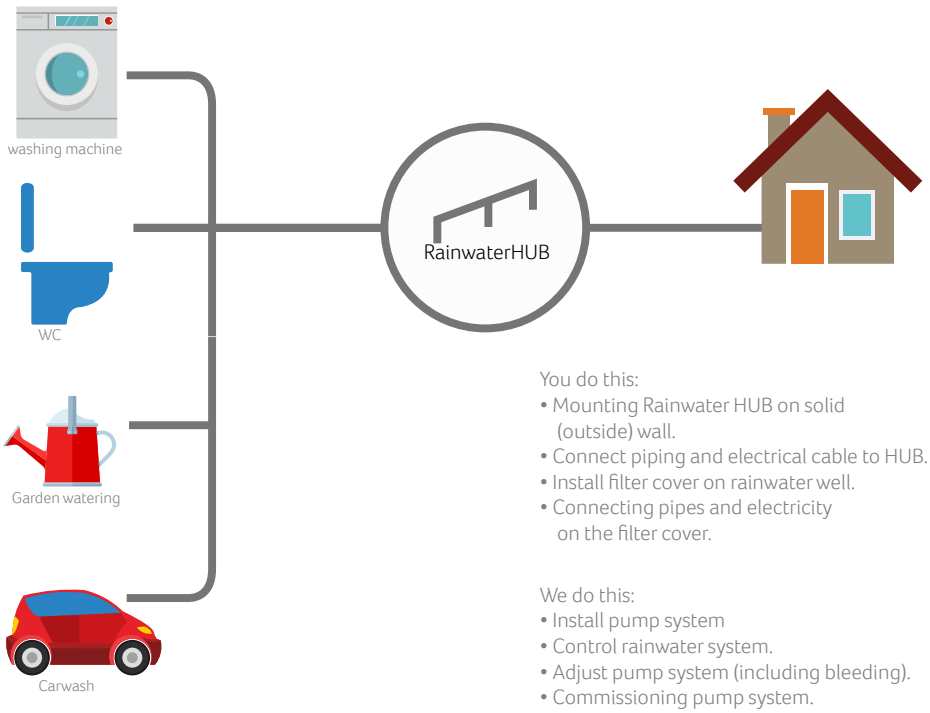
- Easy to offer
You only need to do actions that you do every day. You can therefore calculate the costs for this up to the euro. The costs of the Rainwater HUB and our activities are fixed. Warranty, service and maintenance will be arranged directly with us by your customer. So even in that area you will not incur unforeseen additional costs.

YOU DO WHAT YOU ARE GOOD AT.

Installing a rainwater system is very simple.

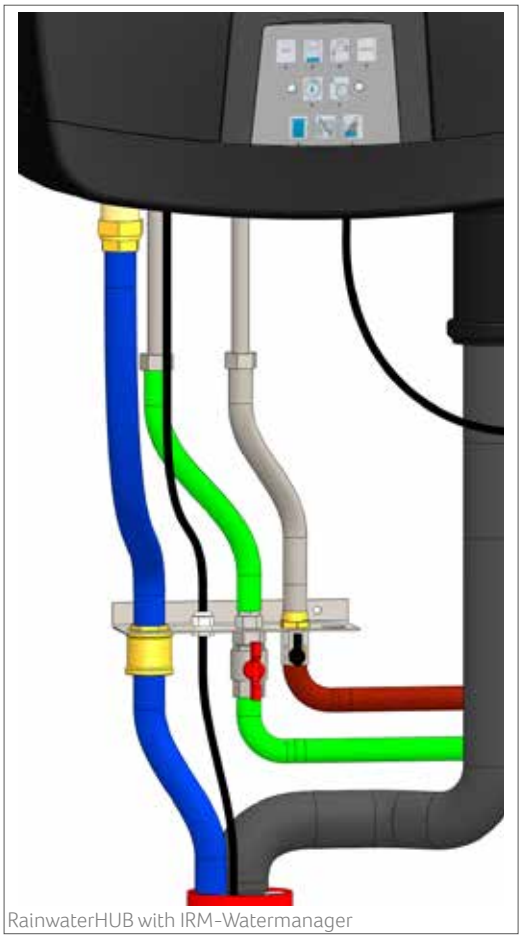
WE DO WHAT WE ARE GOOD AT.

You only perform actions that you are used to. We do the rest.



You do this:
- Mounting Rainwater HUB on solid (outside) wall.
- Connect piping and electrical cable to HUB.
- Install filter cover on rainwater well.
- Connecting pipes and electricity on the filter cover.

We do this:
- Install pump system
- Control rainwater system.
- Adjust pump system (including bleeding).
- Commissioning pump system.



RainwaterHUB with IRM-Watermanager

PRODUCT DESCRIPTION

The use of rainwater is environmentally friendly and economical. Many customers therefore want a rainwater system. With the innovative RegenwaterHUB from GEP you can easily offer such a system. Because the installation is quick, easy and simple to offer.

THE ADVANTAGES OF THE GEP RAINWATER HUB:

- Easy assembly

You place the Rainwater HUB on the outside wall and connect the pipes. Acts that you perform every day. The chance of making mistakes is limited to a minimum.

- Quickly connect

We install the pump system and do the rest. The connection of the system is quick and easy thanks to the Rainwater HUB.

- Easy to offer

You only need to do actions that you do every day. You can therefore calculate the costs for this up to the euro. The costs of the Rainwater HUB and our activities are fixed. Warranty, service and maintenance will be arranged directly with us by your customer. So even in that area you will not incur unforeseen additional costs.

HOW DOES IT WORK?

You do this:

- Mounting Rainwater HUB on solid (outside) wall.
- Connect piping and electrical cable to HUB.
- Install filter cover on rainwater well.
- Connecting pipes and electricity to the filter cover.

We do this:

- Install pump system
- Control rainwater system.
- Adjust pump system (including bleeding).
- Commissioning pump system.

ntluchten).

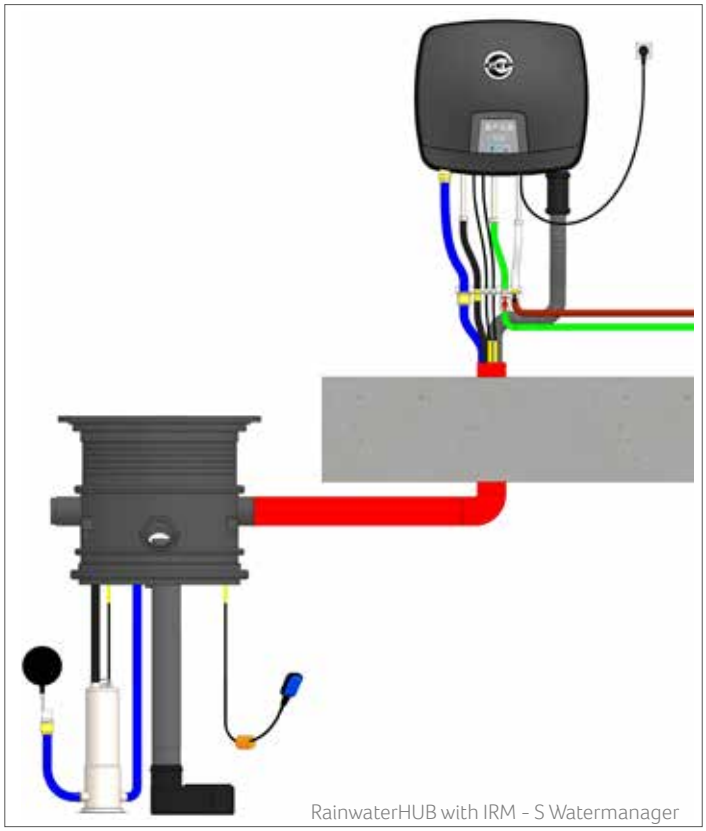
- Commissioning pump system.

GEP MAKES IT WORK

GEP has been a leader in rainwater systems for 20 years. Our mission is to make the use of rainwater accessible to everyone. With the Rainwater HUB we are taking another step in the right direction. It makes it easy to install a rainwater system. You know where you stand and you will not be surprised. So nothing stands in the way of offering such a system to your customers. GEP makes it work!

ORDERING INFORMATION

Art nr	NAME	PG
409040	IRM - 3/5 Watermanager RainwaterHUB part. 1	1
409041	IRM - 3/5 Watermanager RainwaterHUB part. 2	1
409043	IRM - 3/5 S Watermanager RainwaterHUB part. 1	1
409044	IRM - 3/5 S Watermanager RainwaterHUB part. 2	1

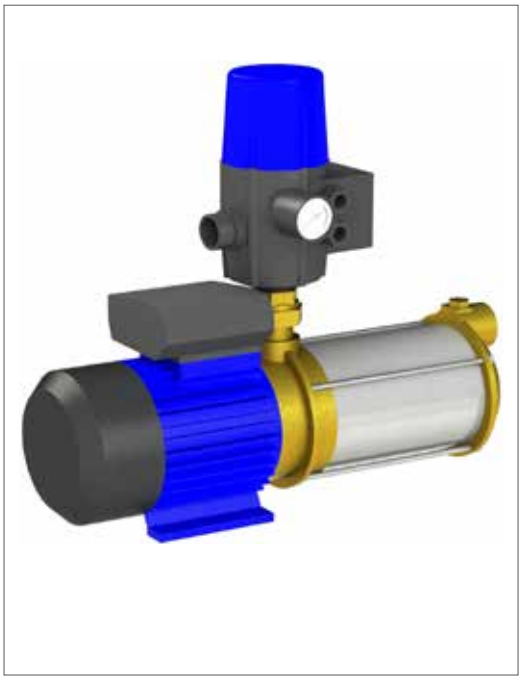


RainwaterHUB with IRM - S Watermanager

SELF-PRIMING CENTRIFUGAL PUMP

RC -3 / 5 self-priming centrifugal pump for rainwater

RC -8 / 9 self-priming centrifugal pump for rainwater



PRODUCT DESCRIPTION

The self-priming centrifugal pump (RC-3/5/8/9) is equipped with an automatic pressure control. The self-priming centrifugal pump is intended for horizontal installation.

The housing of the pump is made of brass and stainless steel. The interior is made of stainless steel and ceramic couplings, especially for rainwater. The connections of the suction and discharge side are 1 “or 5/4” internal thread. The pump is supplied with a pressure switch for pressure-dependent switching on and off of the pump.

The pressure switch is also equipped with a pressure gauge and dry running protection. The RC pump must be installed in a frost-free, dry room with drainage on the ground, for example a scrubbing well.

SCOPE

The system can be used for the use of filtered rainwater for flushing toilets, connecting a washing machine and an outdoor tap. The RC pumps are suitable for continuous use such as sprinkling. the unit is suitable for wall mounting.

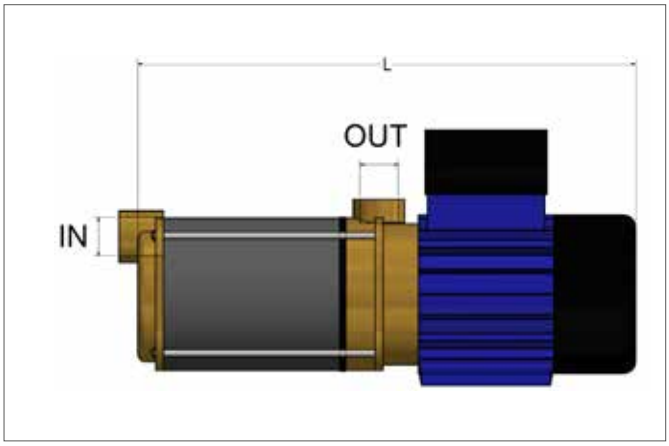
TECHNICAL DATA

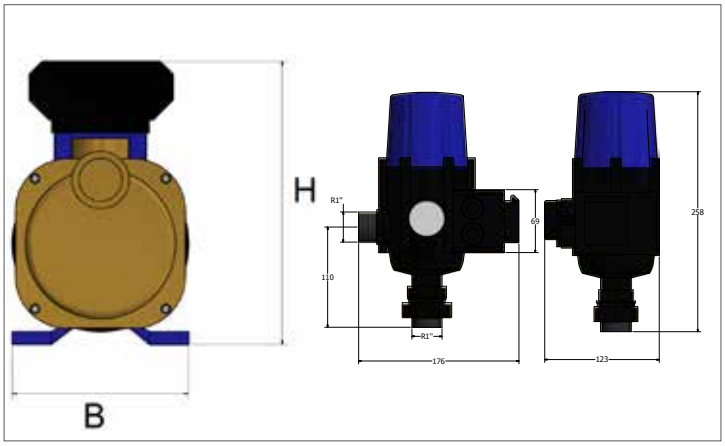
GEP pomptype:	RC-3	RC-5	RC-8	RC-9
Height H in mm:	196	196	237.5	237.5
Width B in mm:	150	150	165	165
Lengte L in mm:	433	433	431	456
Suction pipe IN:	1’’	1’’	5/4’’	5/4’’
Pressure line OUT:	1’’	1’’	1’’	1’’

TECHNICAL SPECIFICATIONS

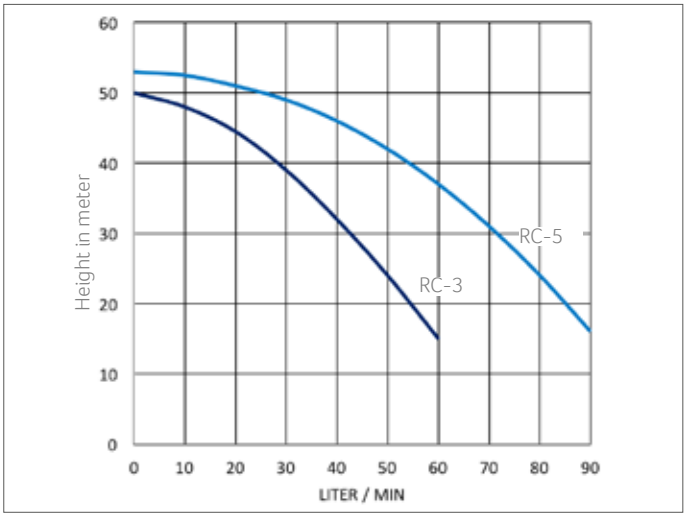
GEP Pomptype:	RC-3	RC-5	RC-8	RC-9
Voltage in V:	230	230	230	230
Power in Watt:	1.100	1.350	1.650	2.000
Max. debiet liter/min:	60	90	126	133
Max. opvoerHeight in m:	50	53	50	62
Leeggewicht in kg:	15	15	18	18
Aantal waaiers:	5	5	4	5
Condensator in µF:	20	25	25	40

TECHNICAL DRAWINGS

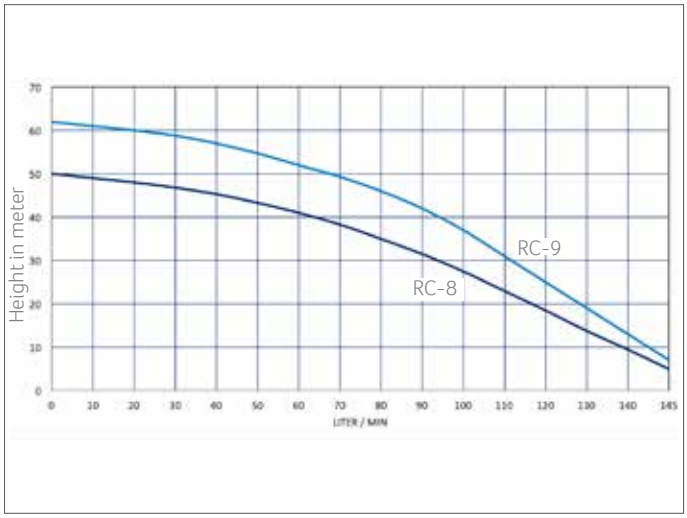




PUMP CHARACTERISTIC RC-3 / RC-5



PUMP CHARACTERISTIC RC-8 / RC-9



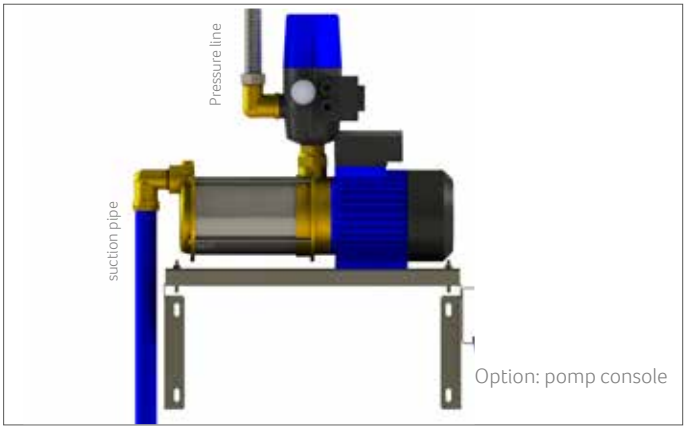
MATERIAL

Name	Material
Press, suction side:	Messing
Impellers:	RVS
Pump housing:	RVS
Motor housing:	RVS
Air separator and Leiwiel:	PPO (noryl)
Pump console:	RVS
Electro cable pump:	3 aderig 1,00 mm² H07Rn-F

OPTIONS

Pumpenanschluss eingestellt
ConnectionMaterial, um das Saugrohr und die Druckleitung vibrationsfrei und abschließbar zu montieren.

Pumpenhalter für Wandmontage RC Pumpe
Zur schwingungsfreien Montage der Pumpe an der Wand.



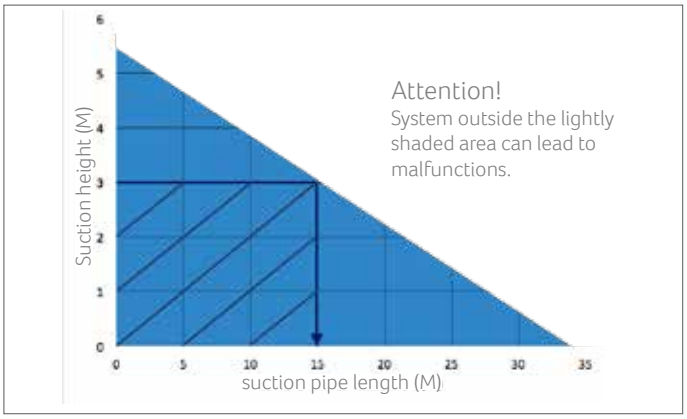
Option: pomp console

SCOPE OF DELIVERY

This product consists of a self-priming centrifugal pump RC-3, RC-5, RC-8 or RC-9 *. Supplied with pressure switch equipped with pressure gauge, 3-part coupling 1 “and installation instructions. * The RC-8 and 9 are supplied with an adjustable pressure control, the GEP Kit-I.

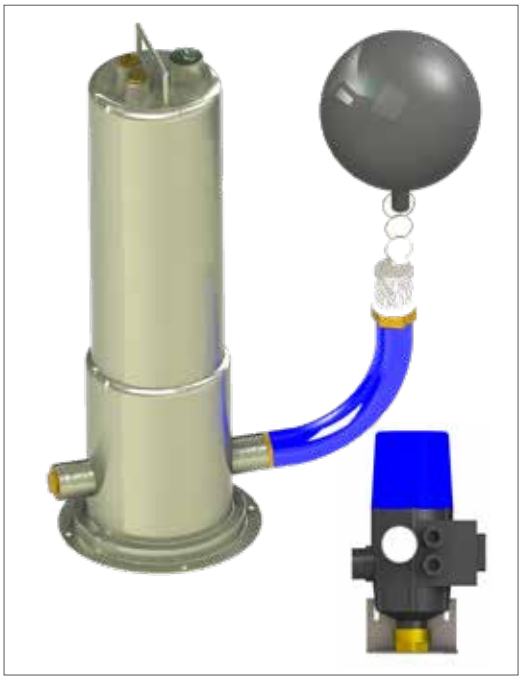
ORDERING INFORMATION

Art nr	NAME	PG
402207	RC-3 self-priming centrifugal pump incl. kit	1
402208	RC-5 self-priming centrifugal pump incl. kit	1
402209	RC-8 self-priming centrifugal pump incl. kit	1
402210	RC-9 self-priming centrifugal pump incl. kit	1
402254	Pump connection set RC-3/5	1
402291	Pump connection set RC-8/9	1
402255	Pump bracket for wall mounting RC pump	1



COMBIPRESS SUBMERSIBLE PUMP

Vertical pressure submersible pump with floating suction for rainwater



PRODUCT DESCRIPTION

The pressure immersion pump including floating suction hose ensures the suction of filtered rainwater. The pressure submersible pump is provided with two connections on the suction side. The pump is supplied with a floating intake hose for mounting on the suction side and pressure control for pressure-dependent switching on and off of the pump.

The pressure control is also equipped with a pressure gauge and dry running protection. Floating suction is provided with suction basket with foot valve. Characteristic feature is the starting capacitor, which is located in the condenser box indoors which makes a simple service possible.

SCOPE

The system can be used for the use of filtered rainwater for flushing toilets, connecting a washing machine and an outdoor tap. Also suitable for continuous consumption such as sprinkling.

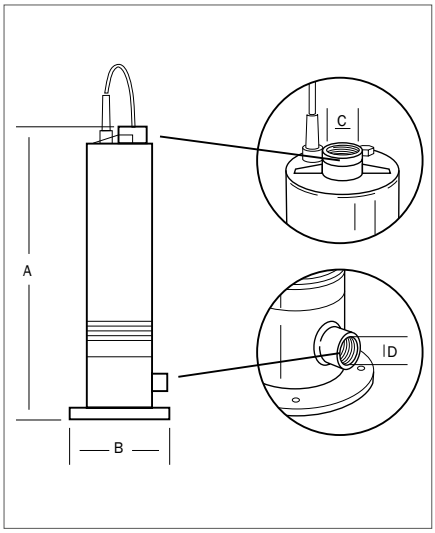
TECHNICAL DATA

GEP - Combipress	5-30	5-60	5-80
Height A in mm:	528	607	727
Diameter B in mm:	190	190	190
Perszijde C:	1“ bi	1“ bi	1“ bi
Zuigzijde D:	1“ bi	1“ bi	1“ bi
Maasgrootte filterkorf in mm:	1	1	1

TECHNICAL SPECIFICATIONS

GEP - Combipress	5-30	5-60	5-80
Amperage (1~230V):	4,2	6,0	8,5
Power in Watt:	550	750	1.200
Max. opvoerHeight in cm:	34	57	82
Max. debiet in liter/min:	70	83	90
Speed min^{-1}:	2.850	2.850	2.850
Leeggewicht in kg:	13	14	16
Aantal waaiers:	3	5	7
Condensator in µF:	20	25	40

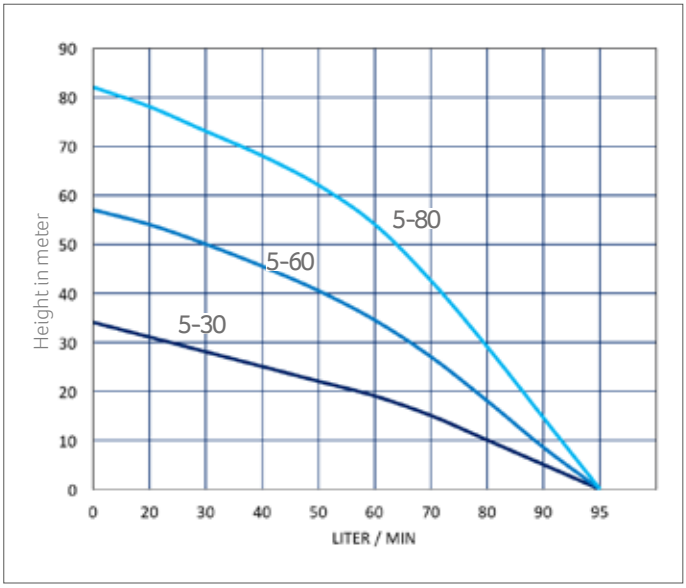
TECHNICAL DRAWINGS



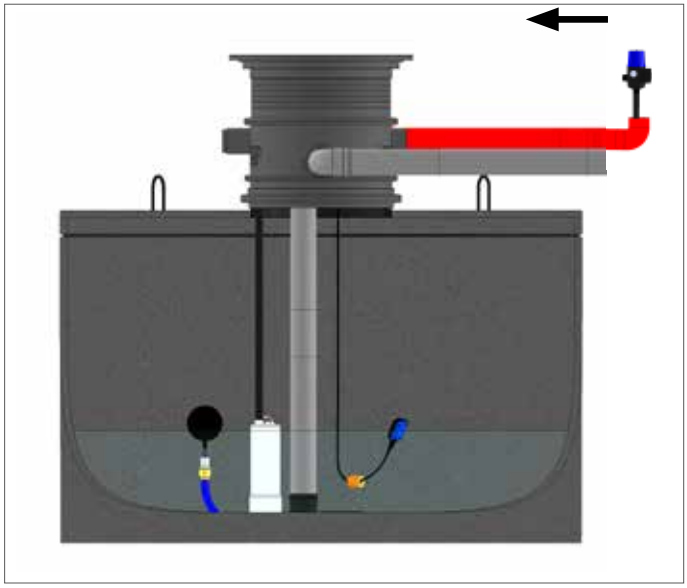
Detail: sturdy handle

Detail: suction basket with foot valve

PUMP CHARACTERISTIC



CONNECTION DIAGRAM



MATERIAL

Name	Material
Suction basket and hose clamps:	RVS
Pump housing:	RVS (304)
Rotor:	RVS (410)
Leiwiel:	PPO (noryl)
Tracker:	PE
Electro cable pump:	4 aderig 1,00 mm² H07Rn8F

Double seal silicon carbone and aluminum oxide / ceramic in oil filled chamber. Suction hose bacterial-inhibiting thermoplastic.

OPTIONS

DBS Submersible connection set
Complete connection set for the installation of the submersible pump in the rainwater well or tank. Consists of: flexible pressure hose 2 m, brass grommet 1 “, brass elbow 1” with tank penetration, PE coupling 1 “bi and bu.

Submersible pump kit
Stainless steel wire and mounting parts to be able to attach the submersible pump to the top of the rainwater well.

SCOPE OF DELIVERY

Combipress submersible pump 5-30 / 5-60 / 5-80 comes with: 20 meters electrical cable, floating suction hose with 60 cm hose, brass plug 1 “, IP 65 welding box with plug and capacitor for combi press, pressure control including mounting bracket, mounting material and installation manual.

ORDERING INFORMATION

Art nr	NAME	PG
402211	Combipress 5-30 with pressure control and twist	1
402212	Combipress 5-60 with pressure control and twist	1
402213	Combipress 5-80 with pressure control and twist	1
402008	Combipress 5-30 exclusive pressure control and twist	1
402013	Combipress 5-60 exclusive pressure control and twist	1
402023	Combipress 5-80 exclusive pressure control and twist	1
402260	DBS Submersible connection set	1
402253	Submersible pump kit	1

Detail: filling of pump housing

MONOPRESS SUBMERSIBLE PUMP

Horizontal pressure submersible pump with floating suction for rainwater

PRODUCT DESCRIPTION

The pressure immersion pump including floating suction hose ensures the suction of filtered rainwater. The pressure submersible pump is provided with a connection at the suction side. The pump is supplied with a floating intake hose for mounting on the suction side and pressure switch for pressure-dependent switching on and off of the pump.

The pressure switch is also equipped with a pressure gauge and dry running protection. Floating suction is provided with suction basket with foot valve. The pump housing is self-filling.

SCOPE

The system can be used for the use of filtered rainwater for flushing toilets, connecting a washing machine and an outdoor tap. Also suitable for continuous consumption such as sprinkling.

TECHNICAL DATA

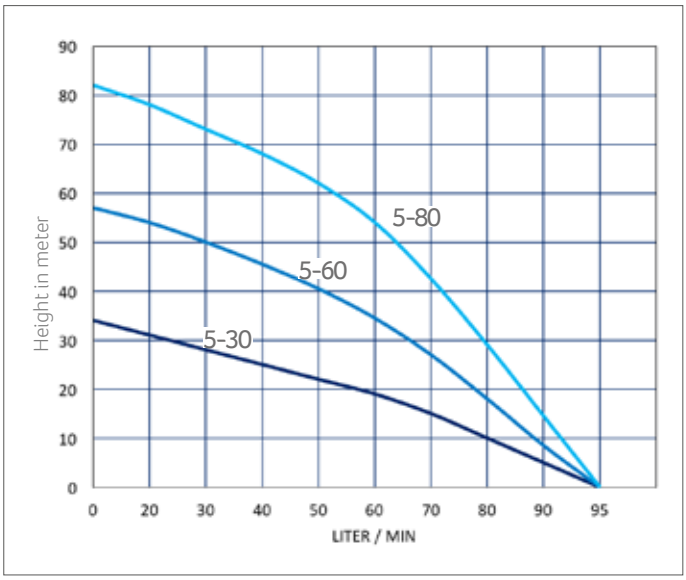
GEP - Monopress	5-30	5-60	5-80
Length A in mm:	484	561	681
Diameter B in mm:	127	127	127
Press side C:	1“ bi	1 1/4“ bi	1 1/4“ bi
Suction side D:	1“ bi	1“ bi	1“ bi
Mesh size filter basket in mm:	1	1	1

TECHNICAL SPECIFICATIONS

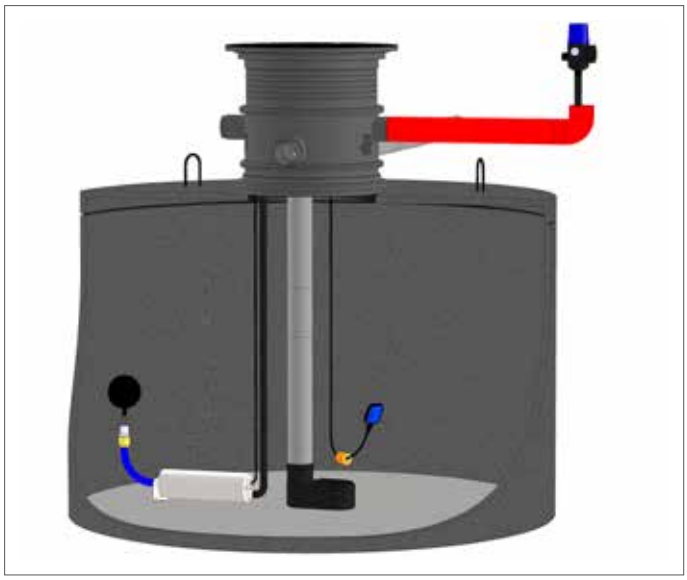
GEP - Monopress	5-30	5-60	5-80
Amperage (1 ~ 230V):	4,2	6,0	8,5
Power in Watt:	550	750	1.200
Max. increaseHeight in m:	34	57	82
Max. flow in liters / min:	70	83	90
Speed min^{-1}:	2.850	2.850	2.850
Empty weight in kg:	11	13	15
Number of fans:	3	5	7
Capacitor in µF:	20	25	40

TECHNICAL DRAWINGS

PUMP CHARACTERISTIC



CONNECTION DIAGRAM



MATERIAL

Name	Material
Suction basket and hose clamps	RVS
Pump housing:	RVS (304)
Rotor:	RVS (410)
Leiwiel:	PPO (noryl)
Tracker:	PE
Electro cable pump:	3 aderig 1,00 mm² H07Rn8F

Double shaft seal silicon carbonate and aluminum oxide / ceramic in oil-filled chamber, suction hose bacterial-inhibiting thermoplastic.

OPTIONS

DBS Submersible connection set
Complete connection set for the installation of the submersible pump in the rainwater well or tank. Consists of: flexible pressure hose 2 m, brass grommet 1 “, brass elbow 1” with tank penetration, PE coupling 1 “bi and bu.

Submersible pump kit
Stainless steel wire and mounting parts to be able to attach the submersible pump to the top of the rainwater well.

SCOPE OF DELIVERY

Monopress pressure submersible pump 5-30 / 5-60 / 5-80 comes with: 20 meters electrical cable, floating suction hose with 60 cm hose, brass stopper 1 “, pressure control including mounting bracket, fastening materials and installation instructions.

ORDERING INFORMATION

Art nr	NAME	PG
402227	GEP Monopress 5-30 with pressure control and twist	1
402228	GEP Monopress 5-60 with pressure control and twist	1
402229	GEP Monopress 5-80 with pressure control and twist	1
402230	GEP Monopress 5-30 with suction basket excluding pressure control	1
402231	GEP Monopress 5-60 with suction basket excluding pressure control	1
402232	GEP Monopress 5-80 with suction basket excluding pressure control	1
402260	DBS Submersible connection set	1
402253	Submersible pump kit	1


Detail: zelfvullend pomphuis

RAINPRESS SUBMERSIBLE PUMP

Vertical pressure submersible pump with internal pressure control for rainwater

PRODUCT DESCRIPTION

The pressure submersible pump with internal pressure control system for the suction of filtered rainwater. The pressure submersible pump is equipped with a suction basket with foot valve. The internal pressure switch ensures a pressure-dependent switching on and off of the pump. The pressure switch is also provided with a dry-running protection. The starting pressure of the rainpress submersible pump is 2.5 bar.

SCOPE

The system can be used for the use of filtered rainwater for flushing toilets, connecting a washing machine and an outdoor tap. Also suitable for continuous consumption such as sprinkling. Advice is to use a pressure vessel for a quiet switching behavior of your pump and prolonging the service life.

Suitable for rainwater installations with a maximum height difference of 20 meters.

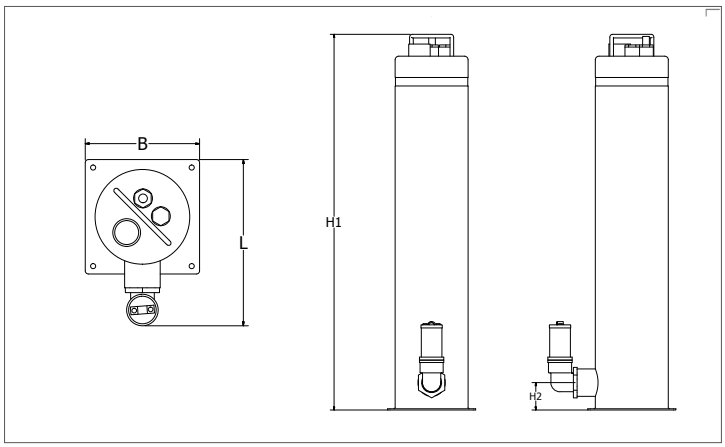
TECHNICAL DATA

GEP - Rainpress	L-40	L-60
Length H1 in mm:	634	673
SuctionHeight H2 in mm:	50	50
Diameter B in mm:	175	175
Max Width L in mm:	204	204
Press side:	1“ bi	1“ bi
Suction side:	1 1/4“ bi	1 1/4“ bi
Mesh size filter basket in mm:	1	1

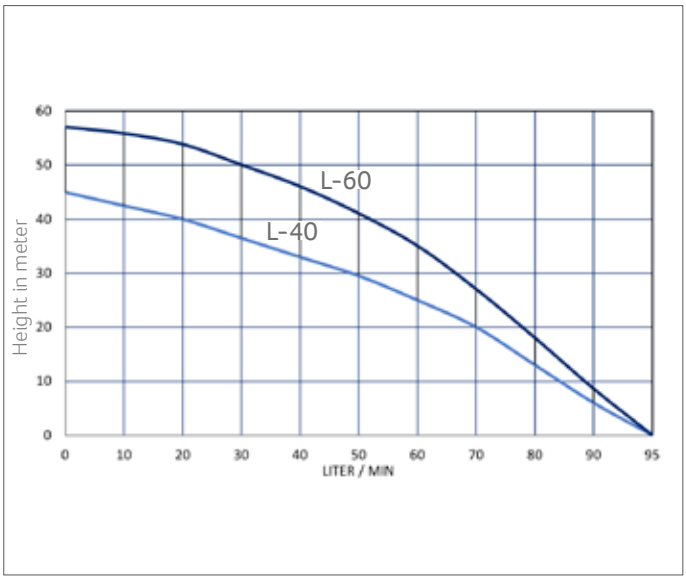
TECHNICAL SPECIFICATIONS

GEP - Rainpress	L-40	L-60
Amperage (1 ~ 230V):	4.4	6.0
Power in Watt:	800	1000
Max. increaseHeight in m:	45	57
Min. flow in liters / min:	1.5	1.5
Max. flow in liters / min:	95	95
Speed min^{-1}:	2.850	2.850
Empty weight in kg:	13	14
Number of fans:	4	5
Capacitor in µF:	20	25

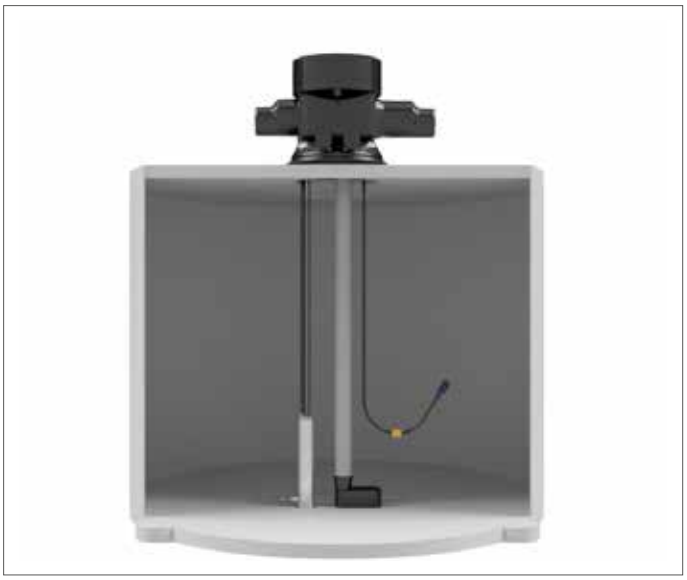
TECHNICAL DRAWINGS



PUMP CHARACTERISTIC



CONNECTION DIAGRAM



MATERIAL

NAAM	Material
Suction basket	RVS
Pump housing:	RVS (304)
Rotor:	RVS (420)
Leiwiel:	PPO (noryl)
Electro cable pump:	3 aderig 1,00 mm² H07Rn8F

Double seal silicon carbone and aluminum oxide / ceramic in oil filled chamber.

OPTIONS

Pressure vessel
Pressure vessels give the switching behavior of the pumps a calmer character, which benefits the life and energy consumption of the pumps. Delivered including assemblyMaterial.

SCOPE OF DELIVERY

Rainpress immersion pump 5-40 / 5-60 comes with: 20 meters electrical cable, suction basket with foot valve 1 “and installation instructions.

ORDERING INFORMATION

Art nr	NAME	PG
402892	GEP Rainpress 5-40	1
402893	GEP Rainpress 5-60	1
402894	GEP Rainpress 5-40 met 8 liter pressure vessel	1
402895	GEP Rainpress 5-60 met 8 liter pressure vessel	1

GEP PUMP CONTROLLERS

Pressure-dependent switching on and off of pumps

GEP KIT POMPDRUKBESTURING MET CONTACTDOOS

GEP Kit Pump pressure control with socket is an electronic pressure control for pumps. The pressure control switches the pump below the pressure level of 1.5 bar. The flow sensor switches the pump off again.

The GEP Kit is equipped with an integrated socket where the plug of the pump must be plugged. A dry-running protection is installed in the pressure control system to protect the pump against overheating. The pressure switch is also equipped with a manometer to read the current pressure.

DRUKBESTURING MET INSTELBARE INSCHAKELDRUK

Kit-I Pressure control with adjustable cut-in pressure is an electronic pressure control for pumps. The switch-on pressure can be adjusted from 1.5 bar to 2.5 bar by means of a screw. The flow sensor switches the pump off again. A dry-running protection is installed in the pressure control system to protect the pump against overheating.

The software of the pressure control is equipped with an auto correction mode. When the pump runs dry, the control unit attempts to restart the pump automatically at set times. The pressure switch is also equipped with a manometer to read the current pressure.

GEP HIGH-END KIT

The program of the GEP High-End Kit is written for a single pump. Control of the pump is based on two different options of modality:

- pressure dependent
- pressure & current-dependent

A big advantage of the High-End Kit is the adjustable on and off pressure. The control determines the running time of the pump depending on the detected pressure via the internal pressure sensor and / or the current detected by the flow sensor. The system can therefore run in a pressure-dependent mode (adjustable on and off pressure) or on / off mode (start based on cut-in pressure and shutdown by the flow sensor, noflow). The GEP High-End Kit is equipped with an LCD display for very user-friendly operation of the software.

TECHNICAL DATA

Type of pressure control:	Kit	Kit-I	High-End Kit
Length L in mm:	258	152	195
Width B in mm:	176	211	231
Depth D in mm:	123	150	178
Connection IN:	1" bu	1" bu	1 1/4" bu
Connection OFF:	1" bu	1" bu	1 1/4" bu
Switch-on pressure in Bar:	1.5	1.5 tot 2.5	1 tot 5

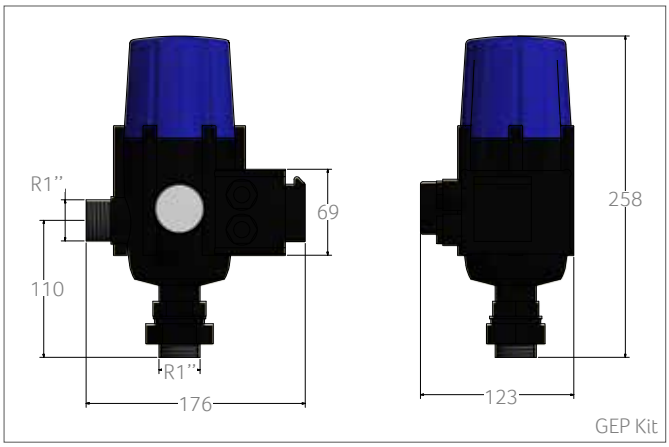
TECHNICAL SPECIFICATIONS

Type of pressure control:	Kit	Kit-I	High-End Kit
Maximum Power in Watt:	1.500	2.200	2.200
Protection class:	IP 44	IP 65	IP 55
Max. busy in bar:	10	10	10
Weight in kg:	1.15	1,35	3.3
Temperature in ° C:	0-60	0-60	0-40
Max flow rate in l / min:	166	166	250

GEP PUMP CONTROL

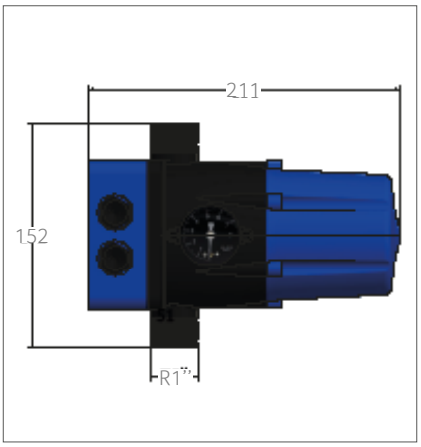
Pressure-dependent switching on and off of pumps

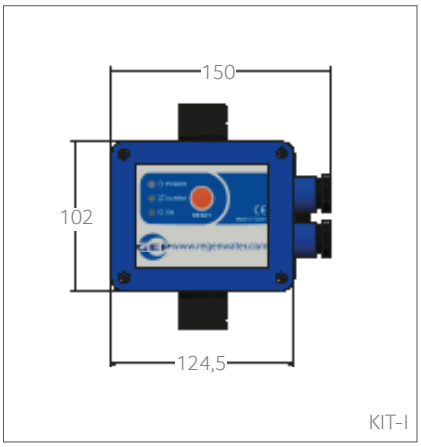
TECHNICAL DRAWINGS



GEP Kit

GEP HIGH-END KIT





KIT-I

ORDERING INFORMATION

Art nr	NAME	PG
402259	GEP Kit Pump pressure control with socket	1
409247	Kit-I Pressure control with adjustable cut-in pressure 1.5-2.5 bar	1
402271	GEP High-End Kit	1

GEP ALARM DETECTORS

Makes alarm signals visible, audible or reported by SMS

PRODUCT DESCRIPTION

The GEP Alarm device is a measuring and monitoring device for monitoring a pump system. In a simple manner the detector can be connected to the potential output of the pump control or controlled by a float switch.

SCOPE

Wherever a high or low water alarm has to be acoustically and visually transmitted.

TECHNICAL DATA

Voltage:	230 V AC / 50 Hz
Lengte in mm:	160
Width in mm:	120
Depth in mm:	110

PRODUCT DESCRIPTION

The GEP GSM SMS Alarm device alarms (maximum) five numbers with an SMS and / or call via the built-in GSM module. A ‚confirmation' by the receiver ensures that the other contact persons are no longer called. The GEP GSM SMS Alarm device works longer than a year on a set of batteries. With low battery Spannung, the GEP GSM SMS Alarm caller sends an SMS. When using an external power source (12 VDC or mains), it also sends ‚power failure' message; often this is a first indication that something is wrong on the spot. Every pump system with potential-free output can be connected to the GEP GSM SMS Alarm device.

The GEP GSM SMS Alarm detector has various settings options, such as choice for SMS and / or call, automatic on and off times, free alarm text, alarm delays, test messages, etc. Batteries are included. The GEP GSM SMS Alarm device only needs a SIM card from a random (local) provider. (Not included in delivery)

SCOPE

Everywhere a high or low water alarm should be transmitted acoustically and visually to one or more telephones.

TECHNICAL DATA

Voltage:	12V CR123 Lithium
Lengte in mm:	80
Width in mm:	60
Depth in mm:	30

ORDERING INFORMATION

Art nr	NAME	PG
402140	GEP visual + acoustic alarm including high water float	4
402132	GEP GSM SMS Alarm device	4
402139	GEP visual + acoustic alarm 230-400V for WW2	4

GEP WATER LOCKS

Automatische afsluiting van waterleiding

GEP Water lock 1/2” en 1”

PRODUCT DESCRIPTION

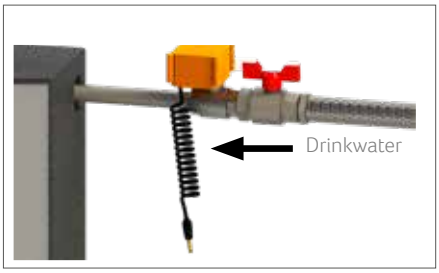
The GEP Water Lock is a leak detection and control system for water systems. If the sensor comes into contact with water, you will hear an audible alarm. At the same time, it automatically closes the drinking water supply. The GEP Water Lock 1/2 ‘’ consists of a metal ball valve with motor drive. It is connected to the detector unit via a flexible connection cable. The whole works on one normal 9 Volt battery and is therefore independent from the mains. The GEP Water Lock can be used for rainwater systems that are installed below the sewerage level. (For example, in a basement). Of course it can also be used to protect areas and appliances other than rain water systems against water damage. The GEP Waterlocks 3/4 “and 1” are suitable for the protection of water pipes with a diameter larger than 15 mm, such as the GEP Water Managers IRM®- 5,6,7 and 8. The GEP Water Lock 3/4 ‘’ and 1 ‘’ is a complete set consisting of a control, separate water sensor with 2 meter cable, solenoid valve and gaskets. When water is detected by the sensor, an audible alarm follows from the control unit. And the water pipe is closed by the solenoid valve. In addition, there is also the possibility of supplying the voltage supply of the appliance to be protected via the water seal. In the event of an alarm, the power of the device is switched off automatically.

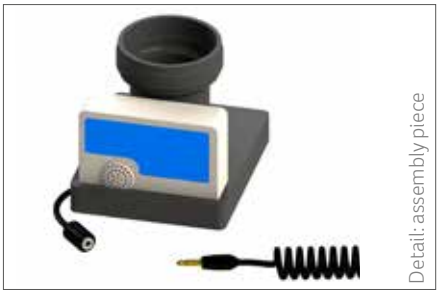
SCOPE

Everywhere pipes have to be closed as soon as moisture is detected.

TECHNICAL DATA

GEP Water lock type:	Water lock 1/2 "	Water lock 3/4 "and 1"
Alarm Acoustic:	Buzzer (92 dB)	Buzzer (92 dB)
Detection:	Built-in moisture sensor	Loose moisture sensor
Plaating:	Standing or lying on the floor or in assembly piece	Lying on the floor
Height x width x depth in mm:	90 x 65 x 25	110 x 65 x 45
Shut off valve:	Motor-controlled	Reeled
Working principle:	Rotatable ball valve	Solenoid valve
Pipe connection:	1/2 "	3/4 "or 1"
Food:	9 volt battery (included)	230 V / 50 Hz
quality mark:	CE	CE 89/336 EWG
Connection piece in mm:	<50 mm	N / A





SCOPE OF DELIVERY

Product consists of: water lock 1/2 “- 3/4” - 1 “, buzzer, humidity sensor (option: mounting piece), shut-off valve, power supply and installation instructi-ons.

ORDERING INFORMATION

Art nr	NAME	PG
402123	Water lock 1/2 " including detection point	1
402124	Water lock 3/4 " including detection point	1
402125	Water lock 1 " including detection point	1
402234	IRM®-1 water lock	1
402138	IRM® 3/5 water lock	1

FLOATING SUCTION

Suction for the purest water

PRODUCT DESCRIPTION

Complete set for flexible floating suction in the tank. The set consists of a brass tank penetration with an extended thread to ensure a good fixation. The hose has a pressed coupling to prevent the intake of air. The floater is produced in one piece to avoid leakage. Available in a version with 2 or 3 meter hose.

In addition, there are two types of suction baskets the Twist and the Saff. The Twist has a coarse mesh size of 1 mm and the Saff a fine mesh size of 0.44 mm. In principle, the Twist is intended for rainwater systems with a Trident pre-filter and the Saff for systems without a pre-filter.

The special tank penetration with special flexible hose prevents frictional forces, so that the watertightness is guaranteed even after several years.

SCOPE

When using the floating suction units TWIST and SAFF, the water is sucked in 15 cm below the water level. There is the purest water in a tank. With a low water level, the hose length prevents the suction basket from falling on the bottom. This way the pump is protected against both floating dirt and sediment.

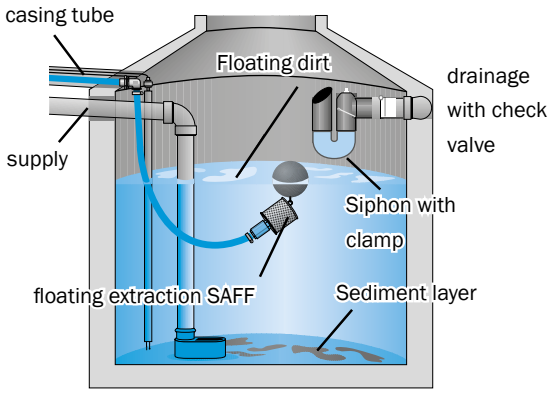
MATERIAL

NAME	Material
Tank transit	Brass
Spiral-reinforced hose	Bacterial-inhibiting thermoplastic
Suction basket	Stainless steel
Hose clamps	Stainless steel
Foot valve	PP and Brass
Tracker	PE
Spiral	Stainless steel

SCOPE OF DELIVERY

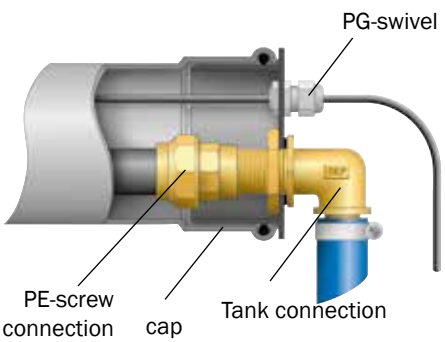
Product consists of: 1 x stainless steel stainless steel suction basket with mesh size of 1 mm TWIST or 0.44 mm SAFF, with float and mounting bracket, 1 bacteria-inhibiting flexible hose 1 “with hose nozzle with built-in foot valve, 1 x brass tank penetration 90 ° angle with hose nozzle included seal ring.

CONNECTION DIAGRAM



ORDERING INFORMATION

Art nr	NAME	PG
403651	Floating suction TWIST length 2 m	2
403652	Floating suction TWIST length 3 m	2
403653	Floating suction SAFF length 2 m	2
403654	Floating suction SAFF length 3 m	2
403655	Suction hose 1 ", spiral-reinforced, roll 30 meters	2
403656	Suction hose 1 ", spiral-reinforced, roll 15 meters	2
403657	Suction hose 1 ", spiral-reinforced, per meter	2
403658	Suction set with filter basket, non-return valve, hose nozzle and clamp	2



FINE FILTER CARBON FILTER SET TRIO

Filter to mount in the Pressure line of the rainwater pump

PRODUCT DESCRIPTION

Captured filtered rainwater is suitable for toilet flushing, washing machine and garden. In higher-quality applications it is sometimes advisable to use an extra fine filter. The filter set Trio from GEP is a filter that ensures that the collected rainwater achieves a high level of quality. Thanks to the self-cleaning / backwashing effect of the pre-filter, particles up to 90 micrometers are collected in the first element and (automatically) washed away. In the second element, particles are collected up to 25 micrometers and in the latter element particles are collected up to a size of 10 micrometers. The last filter element also contains carbon (activated carbon) which also removes any odor and color as much as possible from the water.

The Trio filter set of GEP contains a drain funnel which ensures that the water in the installation is not polluted by backflow according to the European standard EN 1717. The 3-step filter is made with a unique triple housing which ensures that the installation is sound, safe and space-saving.

SCOPE

Everywhere where extra fine filtration of rainwater is necessary.

TECHNICAL DATA

Height A in mm:	326
Lengte B in mm:	345
Width C in mm:	107
Gewicht in kg :	3

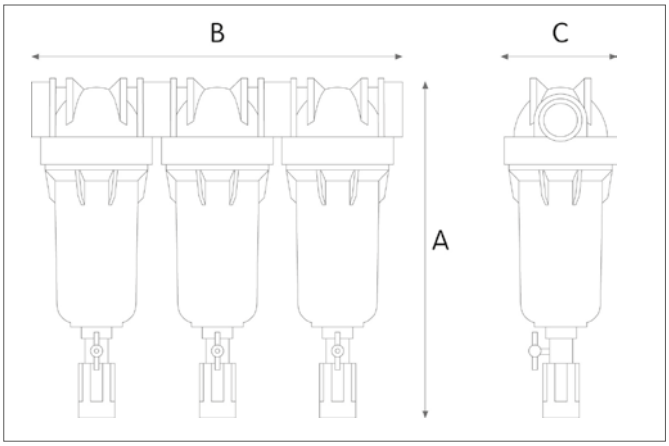
TECHNICAL SPECIFICATIONS

Temperature:	Max. 45 °C
Connections:	1”
Mesh size in µm:	90 - 25 - 10
Max. flow rate at 3 bar (m^3/h) :	0,5 (m^3/h)
Inlet pressure:	Min. 1,8 / max 8,0 bar

SCOPE OF DELIVERY

Product consists of: wall bracket, three filter cartridges, shut-off valve and spray funnel.

TECHNICAL DRAWING



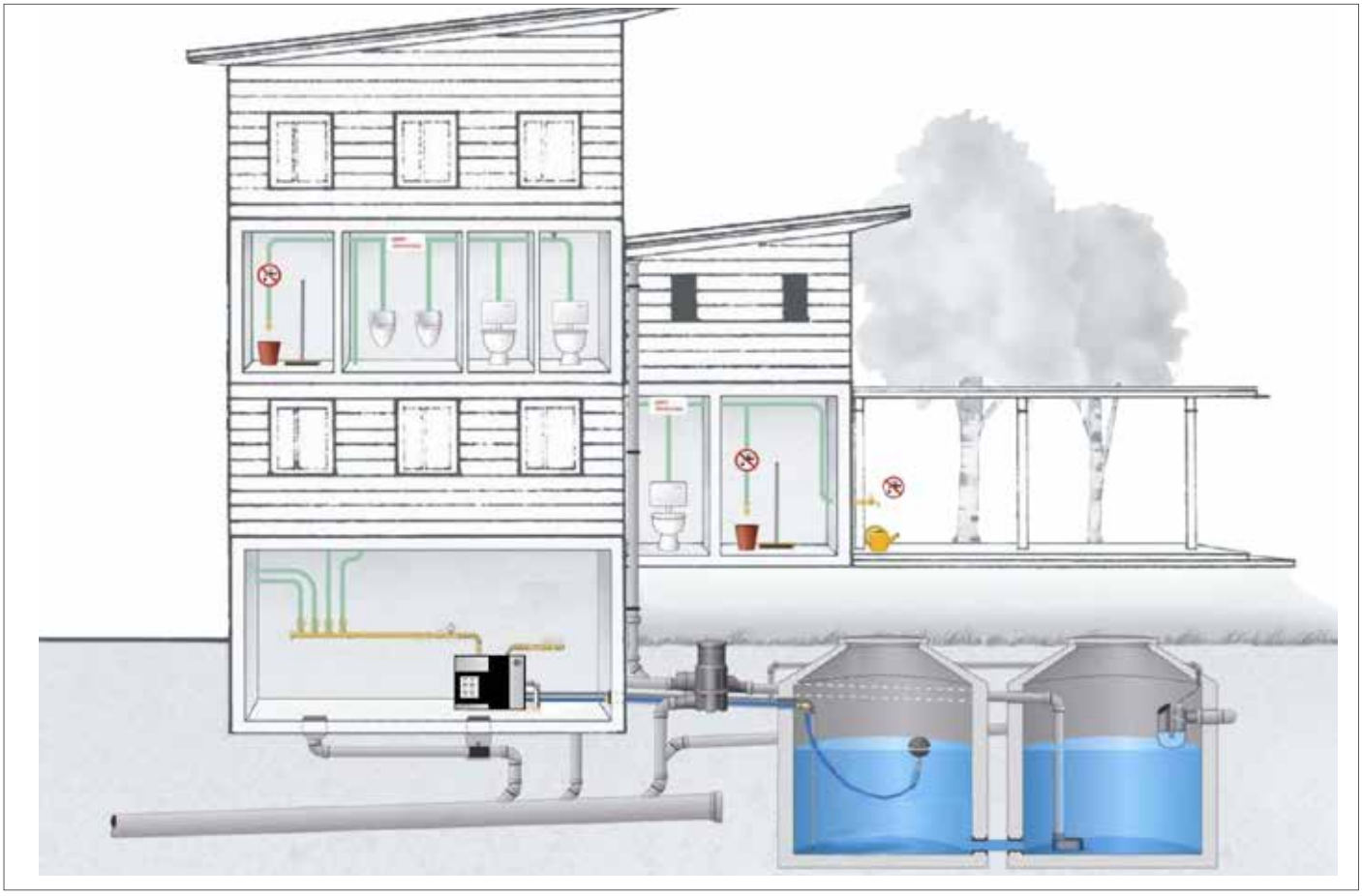
ORDERING INFORMATION

Art nr	NAME	PG
402305	Fine filter carbon filter set Trio	1
401155	Automatic time controlled filter cleaner 1/2 "	1
402306	Filter element 10 µm with carbon	1
402307	Filter element 25 µm with rope	1
402301	GEP fine filter 3/4 "	1
402302	Filter element GEP fine filter 3/4 "	1
402303	GEP fine filter 6/4 "	1
402304	Filter element GEP fine filter 6/4 "	1

Detail: fine filter and loose filter elements

INDUSTRIAL IRM® - RAINWATER SYSTEMS

With self-priming centrifugal pump



Zelfaanzuigend regenwatersysteem met IRM®-besturing

CERTIFICAAT BELGAQUA

kiwa gecertificeerd WATERLEIDING-TECHNISCH VERLIG

IRM Intelligent Rainwater Management

GEP supplies rainwater systems for utility and industrial construction. In principle, we distinguish two types of systems, the self-priming rainwater systems and the rainwater systems with a feed pump. The self-priming versions are on average suitable for buildings with a maximum flow rate of up to 14 m3 / h. The IRM® Water Managers type 6, 7, 8 and 14 are such systems. Due to the operational reliability, the pump capacity is double and these systems have an integrated changeover to tap water. If there is insufficient rainwater in the rainwater well, tap water is supplied to the internal break tank. The large rainwater wells are therefore not filled with expensive tap water. The IRM®-Watermanager thus provides more water savings and guarantees a higher operational reliability than traditional systems with drinking water refilling in the rainwater tank and only one pump. Of course all these devices are KIWA and Belgaqua certified. The IRM® Water Manager therefore monitors, monitors and controls the entire rainwater system and ensures continuous high operational reliability.

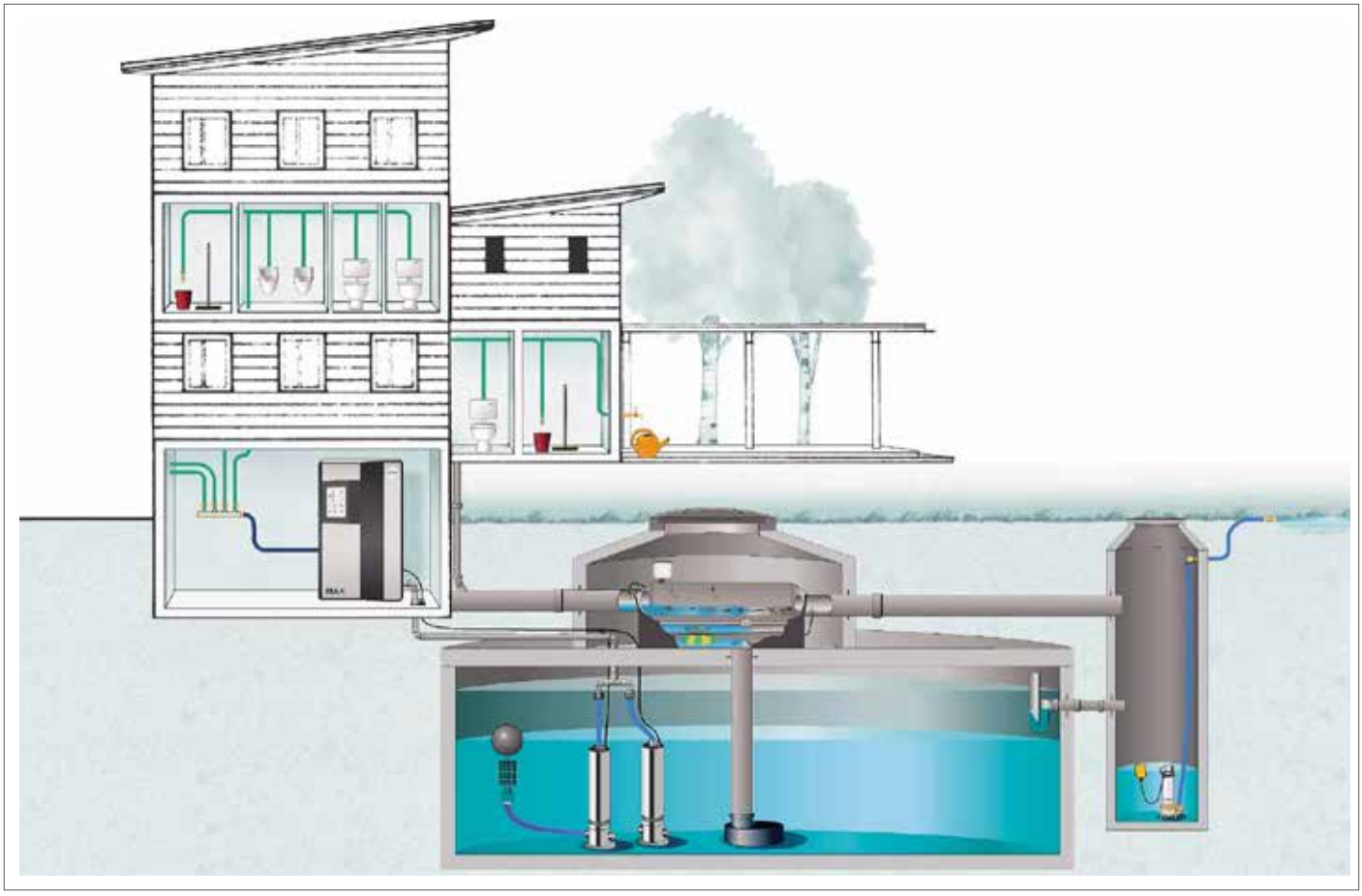
IRM®-6 Watermanager B-Class

IRM®-7 Watermanager

Floating suction TWIST

INDUSTRIAL IRM® - RAINWATER SYSTEMS

With hybrid tank and supply pump (s)



Regenwatersysteem met toevoerpomp met IRM®-besturing

CERTIFICAAT BELGAQUA

kiwa gecertificeerd

WATERLEIDING-TECHNISCH VEILIG

Intelligent Regenwater Management

The rainwater systems from GEP equipped with a supply pump are suitable for the relatively large rainwater systems in utility and industrial construction. Consider, for example, flow rates up to 100 m3 / h. The IRM® Water Managers 8, 10, 14 and 25 are such systems. These IRM® Water managers consist of a steel cabinet with integrated break tank and double pump system. This break tank is supplied with water from the rainwater tank by means of a feed pump. The double pump installation in the IRM® Water Manager provides the tap points with sufficient water pressure. If there is insufficient rainwater in the rainwater tank, tap water is supplied to the break tank. The large rainwater wells are therefore not filled with expensive tap water. The IRM® Water Managers thus provide more water savings and guarantee a higher operational reliability than the systems with drinking water refilling in the rainwater well. In addition, the IRM® Water managers provide automatic control of the automatic filter cleaners on the Trident rainwater filters. Of course all these devices are KIWA and Belgaqua certified. The Water Manager therefore monitors, monitors and controls the entire rainwater system and ensures continuous high operational reliability.

IRM®-8 Watermanager

IRM®-14 Watermanager

GEP Supply pump

IRM® - 6 WATER MANAGER

Industrial rainwater system with double self-priming centrifugal pump

PRODUCT DESCRIPTION

The IRM®-6 Watermanager is a complete system for soil setup with IRM® control, integrated disconnection tank and built-in double self-priming pump installation. The IRM® controller controls the water levels in the disconnect tank and the large rainwater well. The control also provides for a cascade control and a service hour regulation for the pumps. In the absence of rain water, system failure or manual operation, the system switches to drinking water from the disconnect tank. The drinking water is topped up in the disconnect tank via a special proportional float. Content 2 x 9 liters. This is reliable, via a type AB break, in accordance with EN1717 and the device is therefore certified with the Belgaqua and KIWA certificate. The switch to drinking water can also be done manually.

The disconnecietank tank is equipped with a stagnation protection that automatically refreshes the water in the appliance. The frequency of this is freely adjustable. The potential-free contact enables connection to domotics and building management systems. The IRM®-6 Watermanager is also equipped with an automatic filter cleaner control that automatically cleans the Trident rainwater filter. Finally, the backflow protection of the Trident rainwater filter can be connected to the IRM®-6 Watermanager so that when it returns back from the sewer it switches to safe drinking water.

SCOPE

For the use of filtered rainwater in non-residential buildings and commercial buildings. The IRM®-6 Water Manager must be installed near the rainwater tank, up to 15 meters. Unless a supply pump is used.

TECHNICAL DATA

Width A in mm:	550
Depth B in mm:	650
Height C in mm:	850
Weight (empty) in kg :	60
Weight (full) in kg:	78
Suction pipe D:	2 x 1" bi
Pressure line E:	1¼"
Emergency overflow F in mm:	2 x Ø75
Drinkwater G:	2 x ¾" bu
Display:	LCD

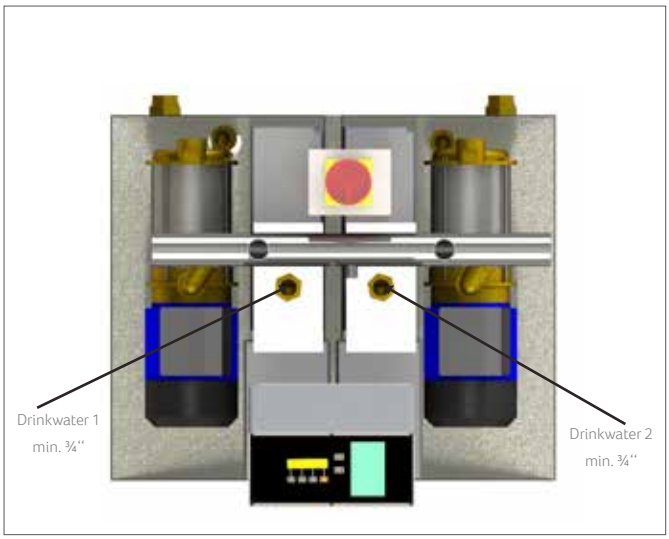
TECHNICAL SPECIFICATIONS

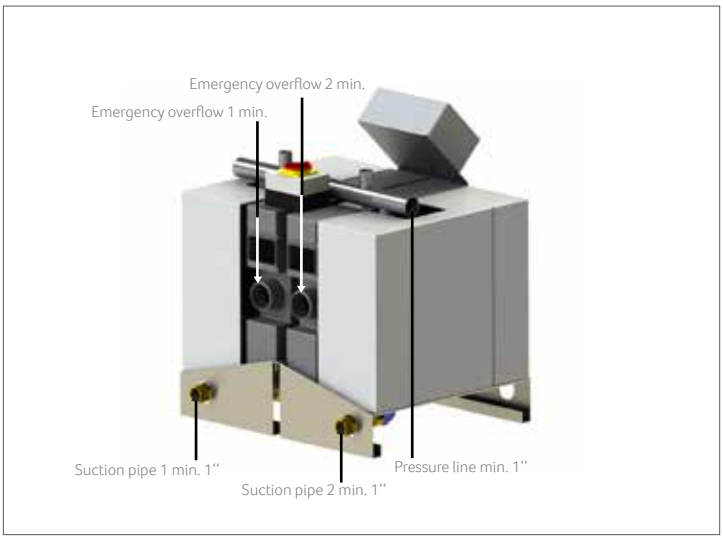
float cable in m:	20
Power in Watt:	1.600
Max. debiet in liter/min:	120
Max. raising height in m:	35
Voltage:	230V / 50Hz
Material cover:	PS
Material breaktank:	PE
Material console:	Galvanized steel
Connection GBS:	Potential free

MATERIAL

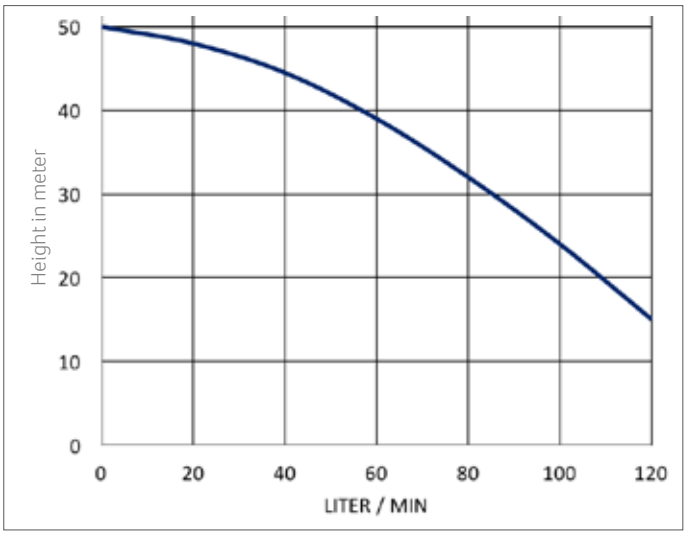
Housing:	Gemoffeld staal
Breaktank:	HPDE
Drinking water connection:	Messing
Supply pump connection:	Messing
Connection on the pressure:	RVS
Fans:	RVS
Pump housing:	RVS
Motor housing:	RVS
Air separator and guide wheel:	PPO (noryl)
Electro cable pump:	3 aderig 1,00 mm² H07Rn8F

TECHNICAL DRAWINGS

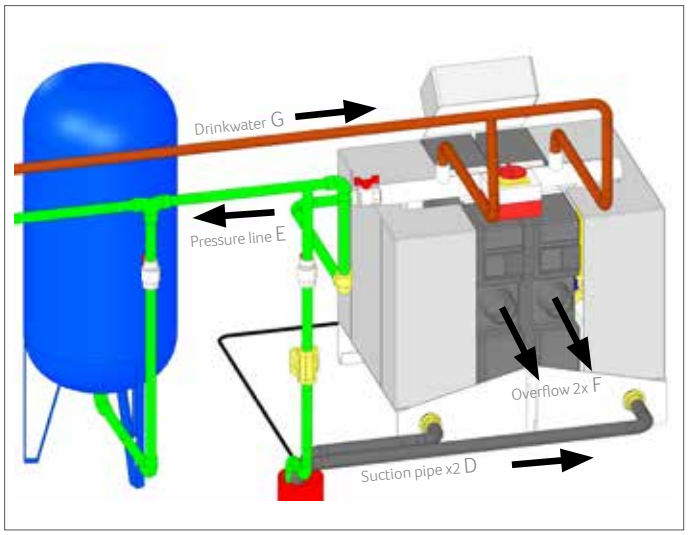




PUMP CHARACTERISTIC



CONNECTION DIAGRAM



OPTIONS

Level sensor with 20 meters of cable
With this sensor it is possible to display the current water level in the rainwater tank on the control unit.

Automatic time-controlled filter cleaner 1 “
Time-controlled filter cleaner enables automatic filter cleaning. The nozzle will clean the filter surface at freely adjustable times.

Water lock 3/4 “including detection point
Always close the drinking water supply during an overflow alarm to prevent water loss. This makes it possible to mount the device without connecting the overflow.

Backflow sensor
This registers an alarm signal from the sewer level, after which the IRM® system switches to drinking water and activates an alarm signal.

Supply pump
Supply pump provides the supply of rainwater to the Water Manager. Type depends on desired flow rate and on the distance (> 15m) and the Höhe (> 3m) between the Watermanager and rainwater well.

Pressure vessel
Pressure vessels give the switching behavior of the pumps a calmer character, which benefits the life and energy consumption of the pumps.

SCOPE OF DELIVERY

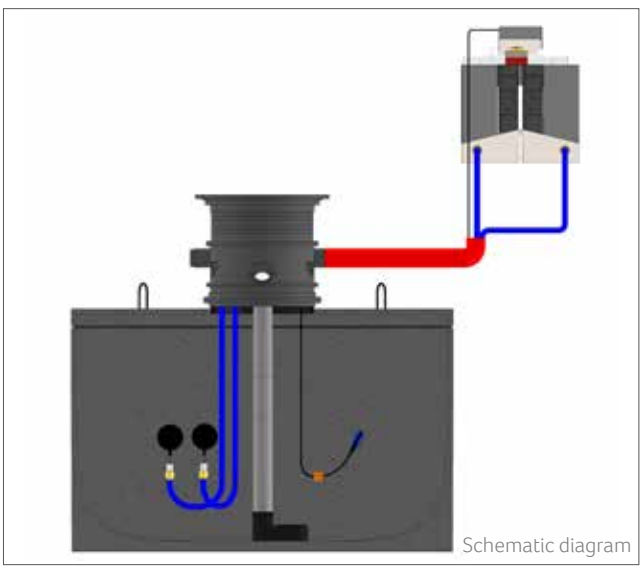
Product consists of: IRM®-6 Water manager and installation instructions

ORDERING INFORMATION

Art nr	NAME	PG
402601	IRM®-6 Watermanager	4
402710	Level sensor with 20 meters of cable	4
402251	Automatic time-controlled filter cleaner 1 "	4
402124	Water lock 3/4 "including detection point	4
401158	Backflow sensor	4

For supply pumps see the GEP specification sheet

For pressure vessels see the GEP specification sheet



Schematic diagram

IRM®- 7 SP WATERMANAGER

Industrial rainwater system with double self-priming centrifugal pump

PRODUCT DESCRIPTION

The IRM®-7 Watermanager is a complete system for soil setup with IRM® control, integrated disconnection tank and built-in double self-priming pump installation. The IRM® controller controls the water levels in the disconnect tank and the large rainwater well. The control also provides for a cascade control and a service hour regulation for the pumps. In the absence of rain water, system failure or manual operation, the system switches to drinking water from the disconnect tank. The drinking water is topped up in the disconnect tank via a special proportional float. This is reliable, via a Type AB break, in accordance with EN1717 and the device is certified with the Belgaqua and KIWA certificate. The changeover to city water can also be done manually.

The city water connection has a stagnation protection that automatically refreshes the water in the appliance. The potential-free contact enables connection to domotics and building management systems. Finally, the backflow protection of the Trident rainwater filter can be connected to the IRM®-7 so that it can switch to safe drinking water when returning from the sewer.

SCOPE

For the use of filtered rainwater in non-residential buildings and commercial buildings. The IRM®-7 Water Manager must be installed near the rainwater tank, up to 15 meters. Unless a supply pump is used.

TECHNICAL DATA

Width in mm:	517
Depth in mm:	585
Height in mm:	1.736
Weight (empty) in kg:	90
Weight (full) in kg:	190
Pressure line:	1 ½ " bu
Drinking water connection:	3/4" bu
Emergency overflow in mm:	Ø75
Suction pipes:	2 x 1"bi

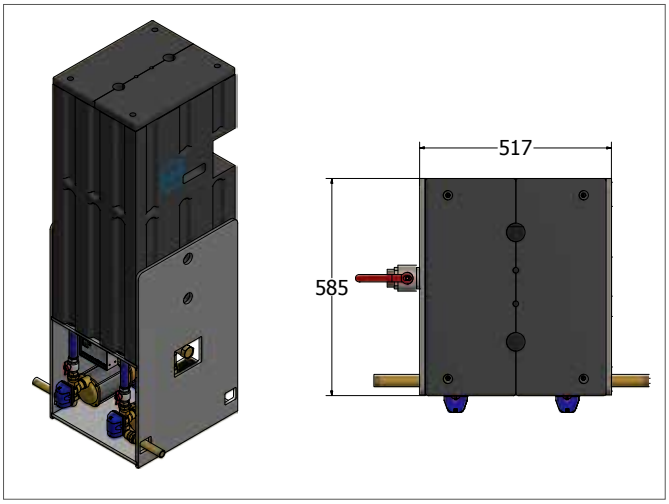
TECHNICAL SPECIFICATIONS

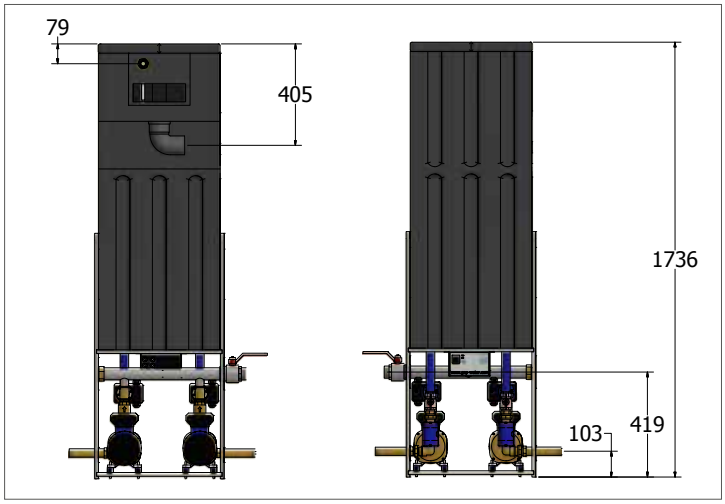
	7-30	7-50
Voltage in V:	230	230
Power in Watt:	2.200	2.700
Max. flow in liters / min:	120	180
Max. increaseHeight in m:	50	53
Number of fans:	5	5
Capacitor in µF:	20	50
Float cable in m:	20	20

MATERIAL

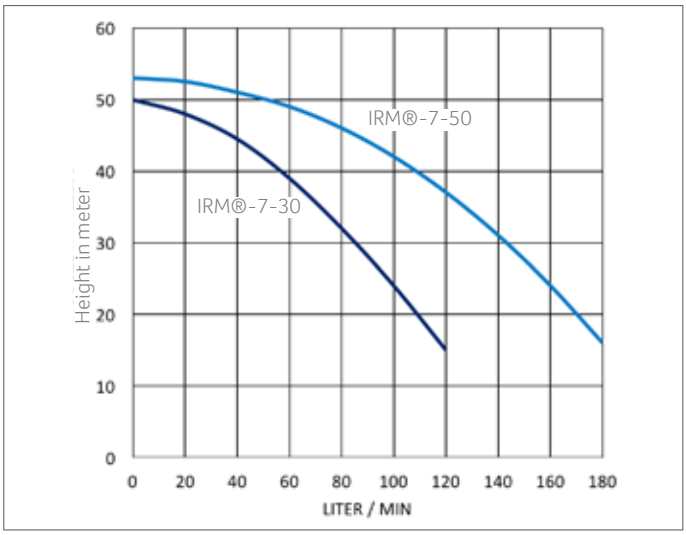
Housing:	Gemoffeld staal
Breaktank:	HPDE
Drinking water connection:	Messing
Supply pump connection:	Messing
Connection Pressure side:	RVS
Fans:	RVS
Pump housing:	RVS
Motor housing:	RVS
Air separator and guide wheel:	PPO (noryl)
Electro cable pump:	3 aderig 1,00 mm² H07Rn-F

TECHNICAL DIAGRAMS

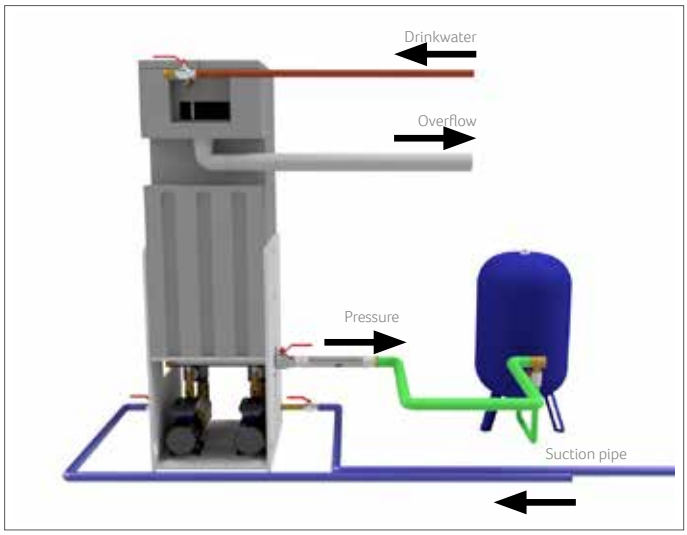




PUMP CHARACTERISTIC



CONNECTION DIAGRAM



OPTIONS

Automatic time-controlled filter cleaner 1 “
Time-controlled filter cleaner allows automatic filter cleaning. The nozzle will clean the filter surface at adjustable times.

Water lock 1 “including detection point
Always close the drinking water supply during an overflow alarm to prevent water loss. This makes it possible to mount the device without connecting the overflow.

Backflow sensor
This registers an alarm signal from the sewer level, after which the IRM system switches to drinking water and activates an alarm signal.

Pressure vessel
Pressure vessels give the calmer character, which benefits the life and energy consumption of the pumps.

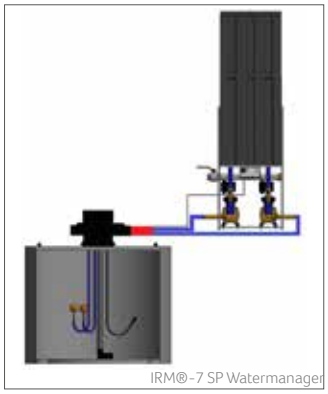
SCOPE OF DELIVERY

Product consists of: IRM®-7-30 Watermanager / IRM®-7-50 Watermanager and installation instructions

ORDERING INFORMATION

Art nr	NAME	PG
402657	IRM®-7 SP Watermanager 7-30	4
402658	IRM®-7 SP Watermanager 7-50	4
401251	Automatic time-controlled filter cleaner 1 "	4
402125	Water lock 1 "including detection point	4
401158	Backflow sensor	4

For pressure vessels see the GEP specification sheet


IRM®-7 SP Watermanager

IRM®- 7 H WATERMANAGER

Industrial rainwater system with double self-priming centrifugal pump

PRODUCT DESCRIPTION

The IRM®-7 Watermanager is a complete system for soil setup with IRM® control, integrated disconnection tank and built-in double self-priming pump installation. The IRM® controller controls the water levels in the disconnect tank and the large rainwater well. The control also provides for a cascade control and a service hour regulation for the pumps. In the absence of rain water, system failure or manual operation, the system switches to drinking water from the disconnect tank. The drinking water is topped up in the disconnect tank via a special proportional float. This is reliable, via a Type AB break, in accordance with EN1717 and the device is certified with the Belgaqua and KIWA certificate. The changeover to city water can also be done manually.

The city water connection has a stagnation protection that automatically refreshes the water in the appliance. The potential-free contact enables connection to domotics and building management systems. Finally, the backflow protection of the Trident rainwater filter can be connected to the IRM®-7 so that it can switch to safe drinking water when returning from the sewer.

SCOPE

For the use of filtered rainwater in non-residential buildings and commercial buildings. The IRM®-7 Water Manager must be installed near the rainwater tank, up to 15 meters. Unless a supply pump is used.

TECHNICAL DATA

Width in mm:	517
Depth in mm:	585
Height in mm:	1.736
Weight (empty) in kg:	90
Weight (full) in kg:	190
Pressure line:	1 ½ “ bu
Drinking water connection:	1’’ bu
Emergency overflow in mm:	Ø75

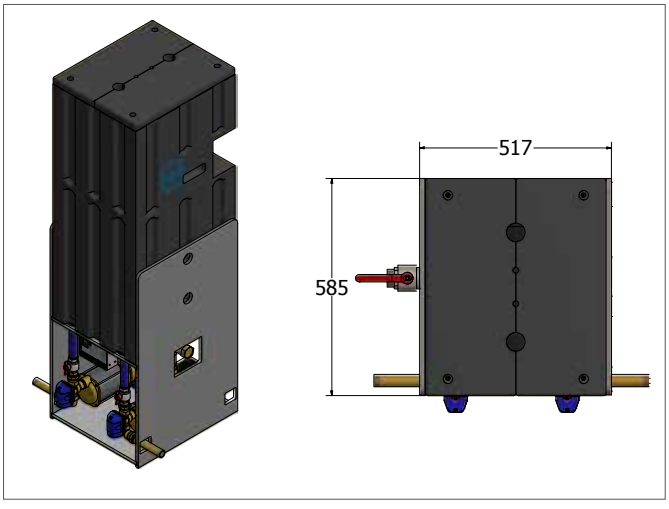
TECHNICAL SPECIFICATIONS

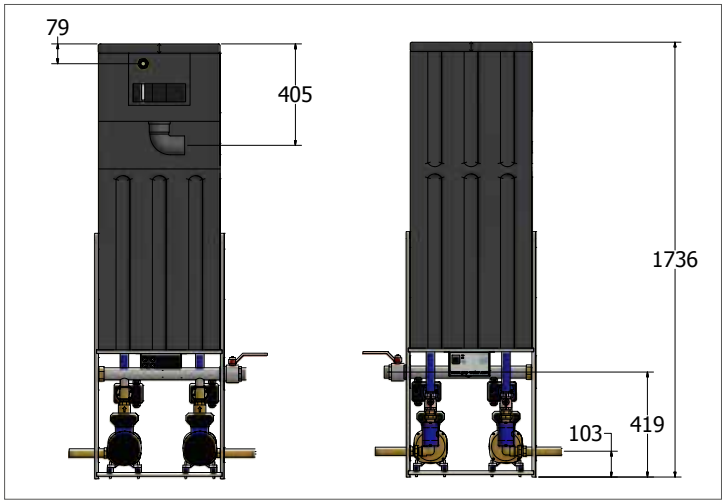
	7-30	7-50
Voltage in V:	230	230
Power in Watt:	2.200	2.700
Max. flow in liters / min:	120	180
Max. increaseHeight in m:	50	53
Number of fans:	5	5
Capacitor in µF:	20	25

MATERIAL

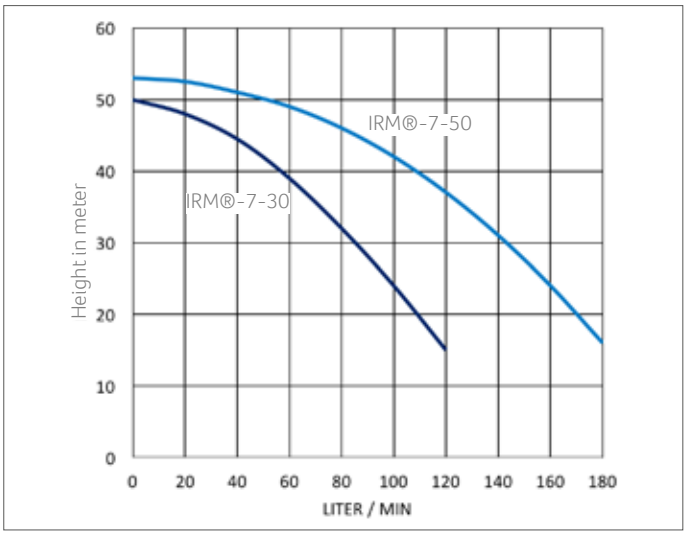
Housing:	Gemoffeld staal
Breaktank:	HPDE
Drinking water connection:	Messing
Supply pump connection:	Messing
Connection Pressure side:	RVS
Fans:	RVS
Pump housing:	RVS
Motor housing:	RVS
Air separator and guide wheel:	PPO (noryl)
Electro cable pump:	3 aderig 1,00 mm² H07Rn-F

TECHNICAL DIAGRAMS

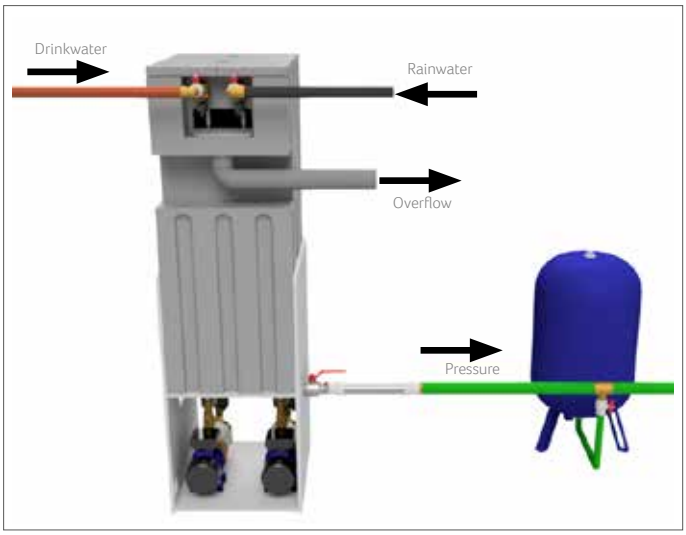




PUMP CHARACTERISTIC



CONNECTION DIAGRAM



OPTIONS

Level sensor with 20 meters of cable
With this sensor it is possible to display the current water level in the rainwater tank on the control unit.

Automatic time-controlled filter cleaner 1 “
Time-controlled filter cleaner enables automatic filter cleaning. The nozzle will clean the filter surface at freely adjustable times.

Water lock 1 “including detection point
Always close the drinking water supply during an overflow alarm to prevent water loss. This makes it possible to mount the device without connecting the overflow.

Backflow sensor
This registers an alarm signal from the sewer level, after which the IRM® system switches to drinking water and activates an alarm signal.

Pressure vessel
Pressure vessels give the switching behavior of the pumps a calmer character, which benefits the life and energy consumption of the pumps.

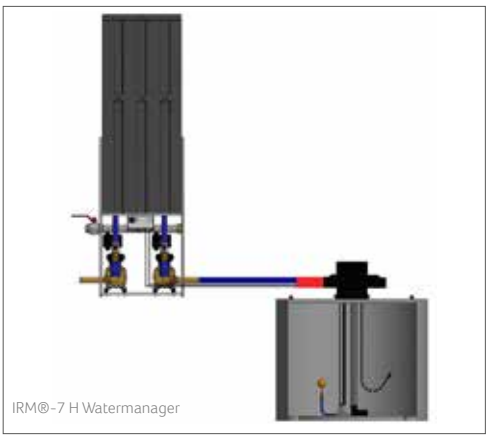
SCOPE OF DELIVERY

Product consists of: IRM®-7-30 Watermanager / IRM®-7-50 Watermanager and installation instructions

ORDERING INFORMATION

Art nr	NAME	PG
402657	IRM®-7 Watermanager 7-30	4
402658	IRM®-7 Watermanager 7-50	4
402710	Level sensor with 20 meters of cable	4
401251	Automatic time-controlled filter cleaner 1 "	4
402125	Water lock 1 "including detection point	4
401158	Backflow sensor	4

For pressure vessels see the GEP specification sheet



IRM®-7 H Watermanager

IRM®- 8 SP WATERMANAGER

Industrial rainwater system with double self-priming centrifugal pump

PRODUCT DESCRIPTION

The IRM®-8 SP Water Manager is a plug-in, compact installation for rainwater use in residential complexes, commercial and public buildings. The break tank for drinking water supply conforms to EN1717 type AA, capacity 100 liters. The IRM®-8 SP Water Manager has a double self-priming centrifugal pump (RC-3 or RC-5). In the absence of rainwater, the break tank is filled with drinking water by means of a 1 "solenoid valve. In that case the pumps suck drinking water from this tank.

The IRM®-8 SP Watermanager is provided with a steel casing and should be installed in a frost-free, dry room with drainage on the ground, for example a scrubbing well. Pressure and status display of the system is clear, in four languages, shown on the LCD display. Control is equipped with a turn-hour control, with data log and a control of the automatic filter cleaner (option).

SCOPE

The system is applicable for the use of filtered rainwater for toilet flushes and other applications for which no drinking water quality is required, within utility buildings and commercial buildings. The distance between IRM®-8 SP Watermanager and the rainwater tank must not exceed 15 meters.

TECHNICAL DATA

Width in mm:	570
Depth in mm:	600
Height in mm:	1.313
Weight (empty) in kg.:	90
Weight (full) in kg.:	190
Pressure line:	1 ½" bu
Drinking water connection:	1" bu
supply pump:	5/4' bu
Emergency overflow in mm:	110

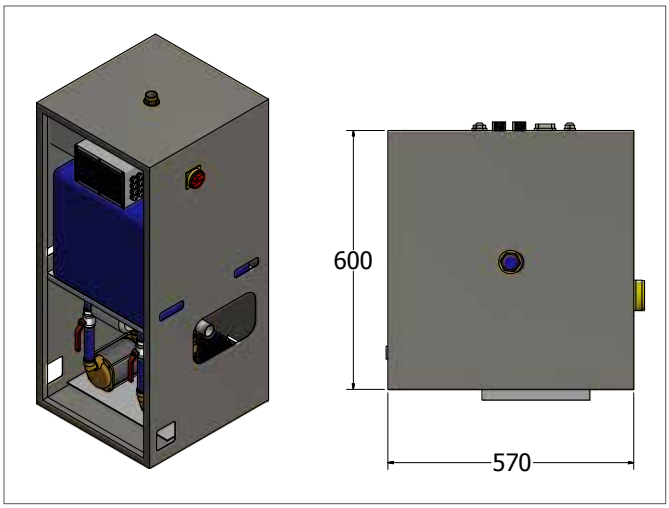
TECHNICAL SPECIFICATIONS

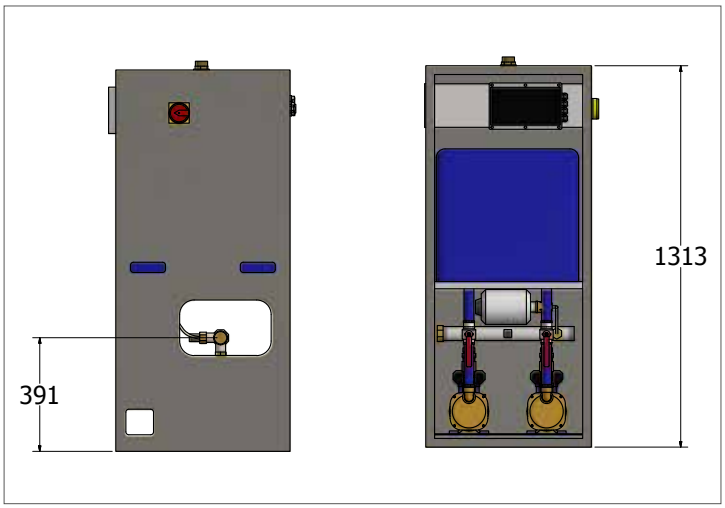
	8-30	8-50
Voltage in V:	230	230
Power in Watt:	2.200	2.700
Max. flow in liters / min:	120	180
Max. increaseHeight in m:	50	53
Number of fans:	5	5
Capacitor in µF:	20	25

MATERIAL

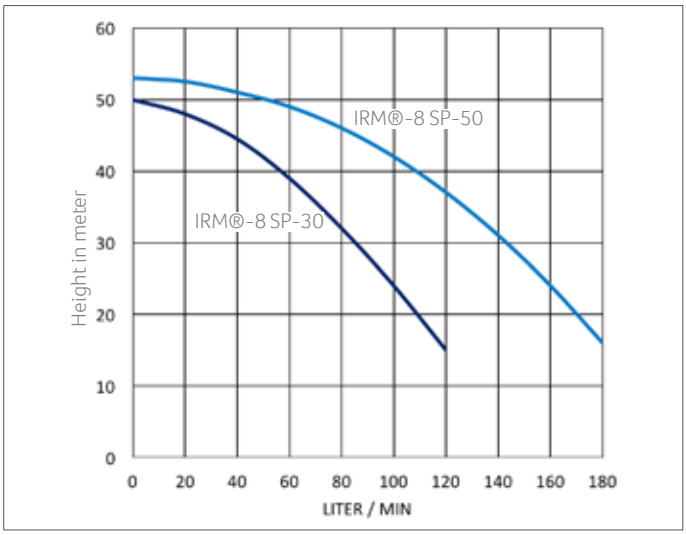
Housing:	Gemoffeld staal
Breaktank:	HPDE
Drinking water connection:	Messing
Supply pump connection:	Messing
Connection Pressure side:	RVS
Fans:	RVS
Pump housing:	RVS
Motor housing:	RVS
Air separator and guide wheel:	PPO (noryl)
Electro cable pump:	3 aderig 1,00 mm² H07Rn-F

TECHNICAL DIAGRAMS

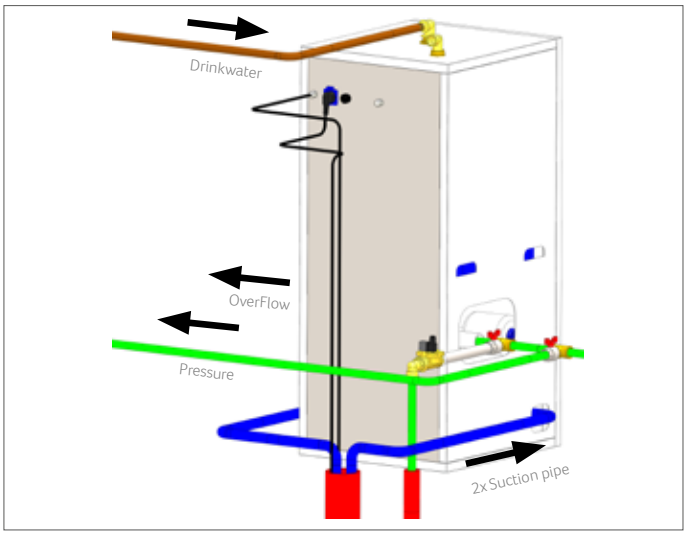




PUMP CHARACTERISTIC



CONNECTION DIAGRAM



OPTIONS

Level sensor with 20 meters of cable
With this sensor it is possible to display the current water level in the rainwater tank on the control unit.

Automatic time-controlled filter cleaner 1 “
Time-controlled filter cleaner enables automatic filter cleaning. The nozzle will clean the filter surface at freely adjustable times.

Water lock 1 ‘’ including detection point
Always close the drinking water supply during an overflow alarm to prevent water loss. This makes it possible to mount the device without connecting the overflow.

Backflow sensor
This registers an alarm signal from the sewer level, after which the IRM® system switches to drinking water and activates an alarm signal.

Supply pump
Supply pump provides the supply of rainwater to the Water Manager. Type depends on desired flow rate and on the distance (> 15m) and the Height (> 3m) between the Watermanager and rainwater well.

Pressure vessel
Pressure vessels give the switching behavior of the pumps a calmer character, which benefits the life and energy consumption of the pumps. IRM®-8 SP Watermanager and the rainwater tank must not exceed 15 meters.

SCOPE OF DELIVERY

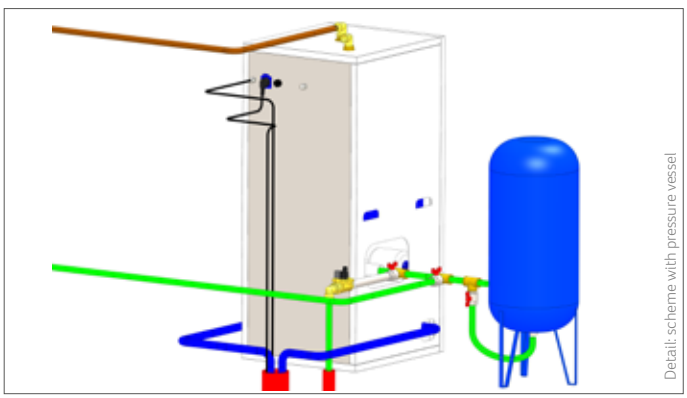
Product consists of: IRM®-8SP-30 or IRM®-8SP-50 Watermanager and installation instructions.

ORDERING INFORMATION

Art nr	NAME	PG
402604	IRM®-8 SP Watermanager 8-30	4
402605	IRM®-8 SP Watermanager 8-50	4
402711	Level sensor with 20 meters of cable	4
401251	Automatic time-controlled filter cleaner 1 "	4
402125	Water lock 1 " including detection point	4
401158	Backflow sensor	4

For supply pumps see the GEP specification sheet

For pressure vessels see the GEP specification sheet



Detail: scheme with pressure vessel

IRM®- 8 WATERMANAGER

Industrial rainwater system with double pumps and supply pump

PRODUCT DESCRIPTION

The IRM®-8 Watermanager is a plug-in, compact installation for rainwater use in residential complexes, commercial and public buildings. The break tank for drinking water supply conforms to EN1717 type AA, capacity 100 liters. The IRM®-8 Watermanager has a double self-priming centrifugal pump (RC-3 or RC-5). A supply pump serves for the supply of rainwater from the rainwater tank in the break tank. In the absence of rainwater, the break tank is filled with drinking water by means of a 1 "solenoid valve.

The IRM®-8 Watermanager is provided with steel casing and must be installed in a frost-free, dry room with drainage on the ground, for example a scrubbing well. Pressure and status display of the system is clear, in four languages, shown on the LCD display. Control is equipped with a turn-hour control, with data log, and control of the automatic filter cleaner (option).

SCOPE

The system is applicable for the use of filtered rainwater for toilet flushes and other applications for which no drinking water quality is required, within utility buildings and commercial buildings.

TECHNICAL DATA

Width in mm:	570
Depth in mm:	600
Height in mm:	1.313
Weight (empty) in kg.:	90
Weight (full) in kg.:	190
Pressure line:	1 ½" bu
Drinking water connection:	5/4" bu
Supply pump:	5/4" bu
Emergency overflow in mm:	110

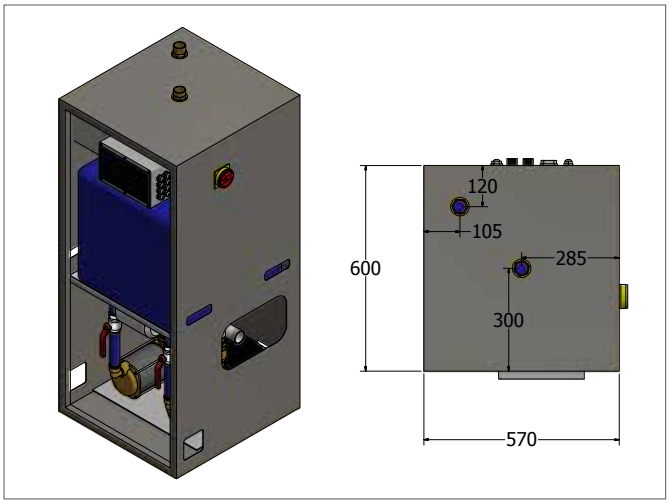
TECHNICAL SPECIFICATIONS

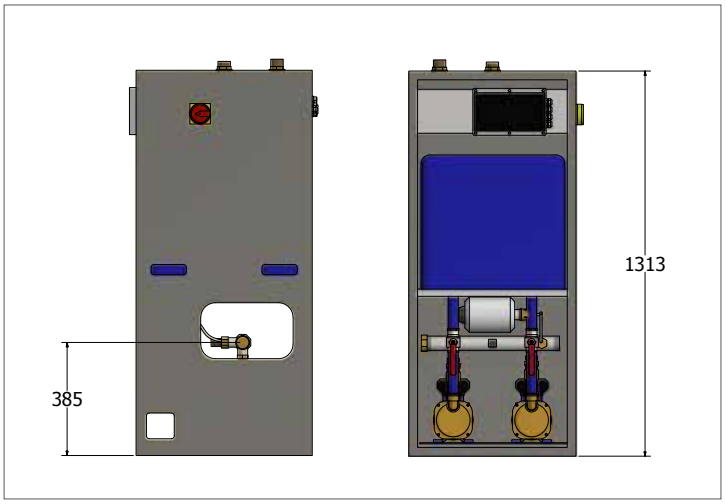
	8-30	8-50
Voltage in V:	230	230
Power in Watt:	2.200	2.700
Max. flow in liters / min:	120	180
Max. increaseHeight in m:	50	53
Number of fans:	5	5
Capacitor in µF:	20	25

MATERIAL

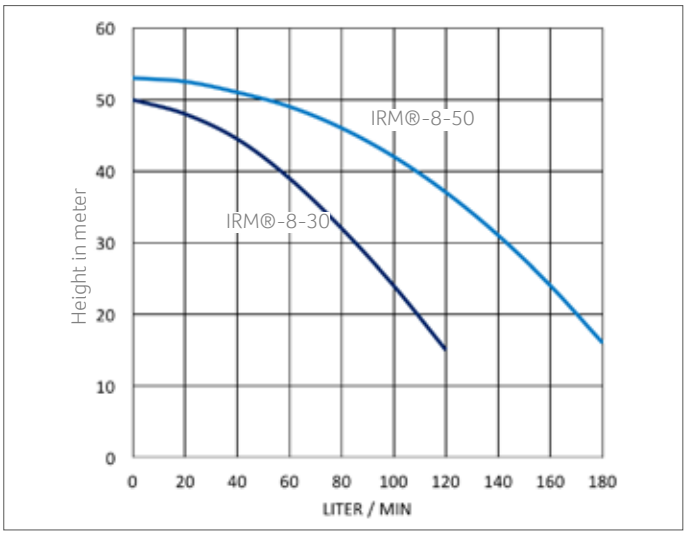
Housing:	Gemoffeld staal
Breaktank:	HPDE
Drinking water connection:	Messing
Supply pump connection:	Messing
Connection Pressure side:	RVS
Fans:	RVS
Pump housing:	RVS
Motor housing:	RVS
Air separator and guide wheel:	PPO (noryl)
Electro cable pump:	3 aderig 1,00 mm² H07Rn-F

TECHNICAL DIAGRAMS

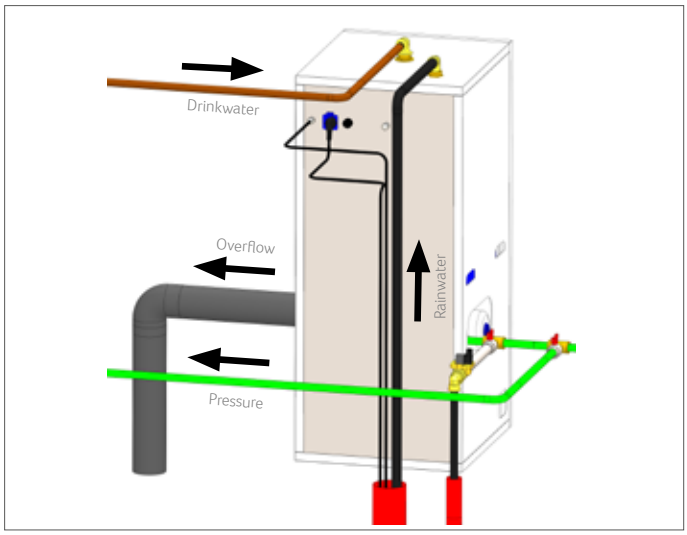




PUMP CHARACTERISTIC



CONNECTION DIAGRAM



OPTIONS

Level sensor with 20 meters of cable
With this sensor it is possible to display the current water level in the rainwater tank on the control unit.

Automatic time-controlled filter cleaner 1 “
Time-controlled filter cleaner enables automatic filter cleaning. The nozzle will clean the filter surface at freely adjustable times.

Water lock 1 “including detection point
Always close the drinking water supply during an overflow alarm to prevent water loss. This makes it possible to mount the device without connecting the overflow.

Backflow sensor
This registers an alarm signal from the sewer level, after which the IRM® system switches to drinking water and activates an alarm signal.

Antihevelset
In places where the break tank is lower than the rainwater tank, an anti-hull set must be placed in the feed pump line.

Supply pump
Supply pump provides the supply of rainwater to the Water Manager. Type depends on desired flow rate and on the distance (> 15m) and the Höhe (> 3m) between the Watermanager and rainwater well.

Pressure vessel
Pressure vessels give the switching behavior of the pumps a calmer character, which benefits the life and energy consumption of the pumps.

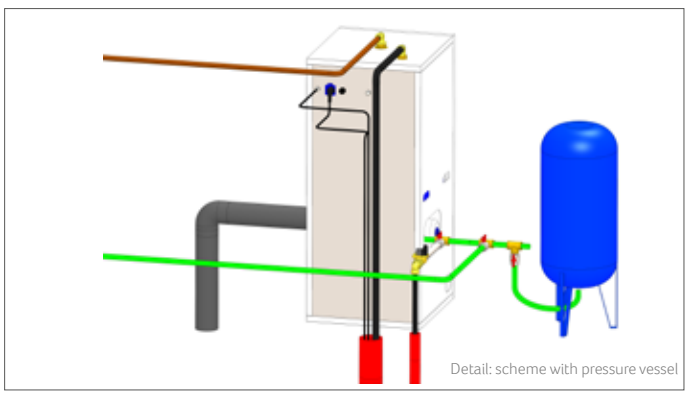
SCOPE OF DELIVERY

Product consists of: IRM®-8-30 Watermanager / IRM®-8-50 Watermanager and installation instructions.

ORDERING INFORMATION

Art nr	NAME	PG
402602	IRM®-8 Watermanager 8-30	4
402603	IRM®-8 Watermanager 8-50	4
402711	Level sensor with 20 meters of cable	4
401251	Automatic time-controlled filter cleaner 1 "	4
402125	Water lock 1 " including detection point	4
401158	Backflow sensor	4
402713	Anti-mist set IRM® 8	4

For supply pumps see the GEP specification sheet
For pressure vessels see the GEP specification sheet



Detail: scheme with pressure vessel

IRM®- 18 SP WATERMANAGER

Industrial rainwater system with double self-priming centrifugal pump

PRODUCT DESCRIPTION

The IRM®-18 SP Water Manager is a plug-in, compact installation for rainwater use in residential complexes, commercial and public buildings. The break tank for drinking water supply conforms to EN1717 type AA, capacity 200 liters. The Watermanager has a double self-priming centrifugal pump (RC-8 or RC-9). In the absence of rainwater, the break tank is filled with drinking water by means of a 1 "solenoid valve. In that case the pumps suck drinking water from this tank.

The IRM®-18 SP Watermanager is provided with a steel housing and should be installed in a frost-free, dry room with drainage on the ground, for example a scrubbing well. Pressure and status display of the system is clear, in four languages, shown on the LCD display. Control is equipped with a turn-hour control, with data log and a control of the automatic filter cleaner (option).

SCOPE

The system is applicable for the use of filtered rainwater for toilet flushes and other applications for which no drinking water quality is required, within utility buildings and commercial buildings. The distance between IRM®-Watermanager and the rainwater tank may not exceed 15 meters. Unless a feed pump is used (option).

TECHNICAL DATA

Width in mm:	800
Depth in mm:	730
Height in mm:	1.680
Weight (empty) in kg.:	150
Weight (full) in kg.:	310
Pressure line:	6/4" bu
Drinking water connection:	5/4'' bu
Supply pump:	5/4" bu
Emergency overflow in mm:	100

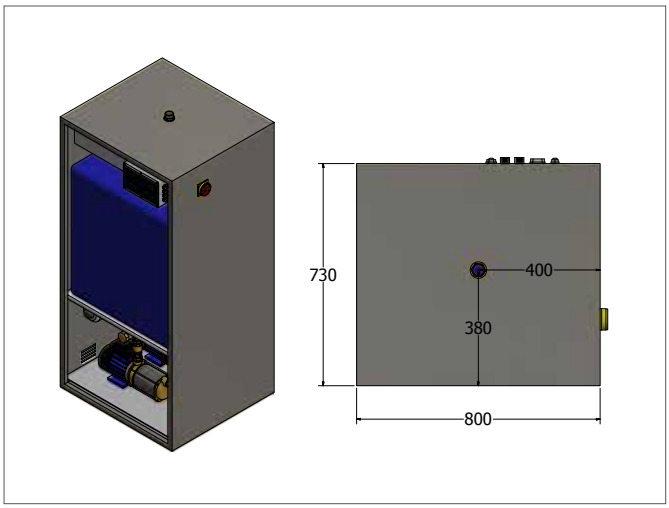
TECHNICAL SPECIFICATIONS

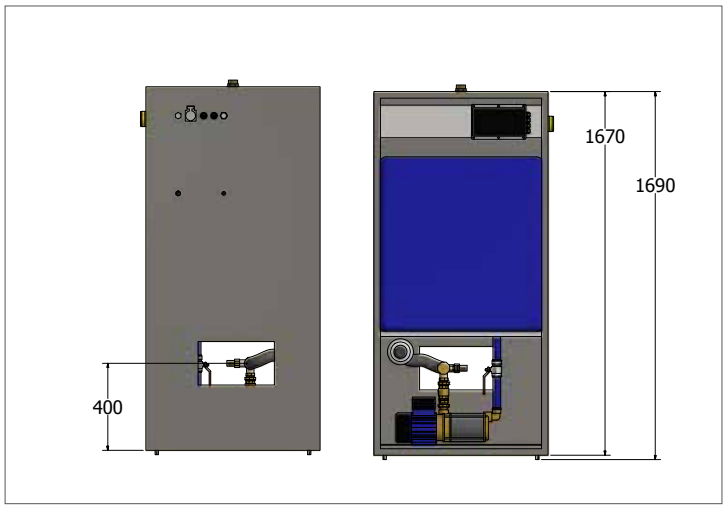
	18-50	18-60
Voltage in V:	230	230
Power in Watt:	3.300	4.000
Max. flow in liters / min:	300	320
Max. increaseHeight in m:	50	62
Number of fans:	4	5
Capacitor in µF:	25	40

MATERIAL

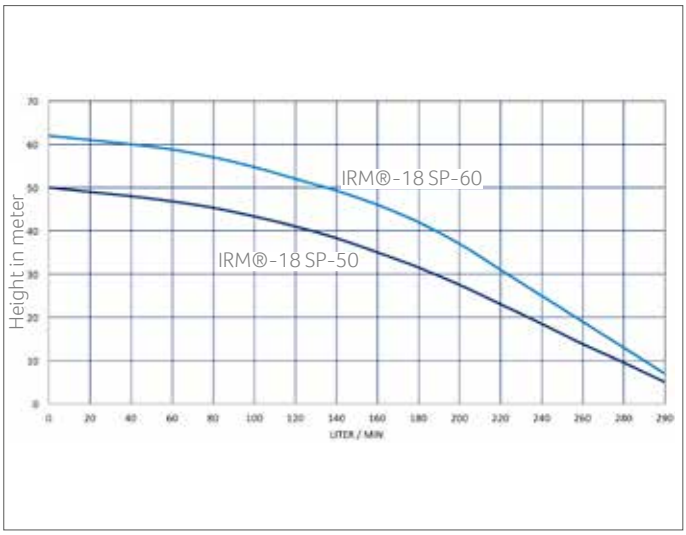
Housing:	Gemoffeld staal
Breaktank:	HPDE
Drinking water connection:	Messing
Supply pump connection:	Messing
Connection Pressure side:	RVS
Fans:	RVS
Pump housing:	RVS
Motor housing:	RVS
Air separator and guide wheel:	PPO (noryl)
Electro cable pump:	3 aderig 1,00 mm² H07Rn-F

TECHNICAL DIAGRAMS

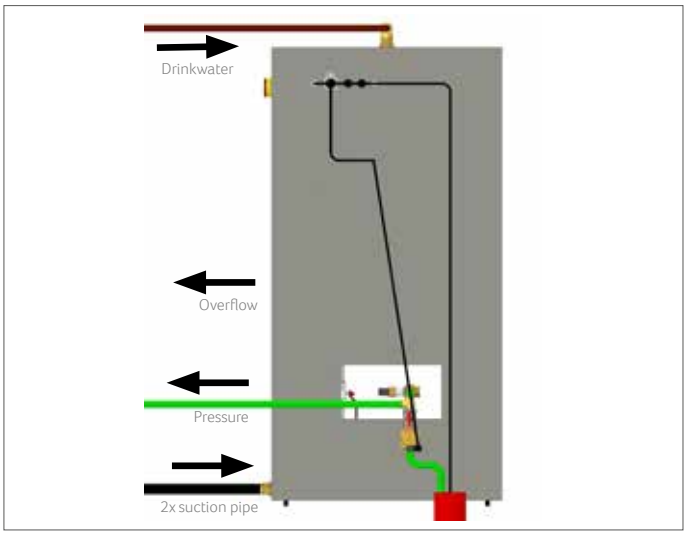




PUMP CHARACTERISTIC



CONNECTION DIAGRAM



OPTIONS

Level sensor with 20 meters of cable
With this sensor it is possible to display the current water level in the rainwater tank on the control unit.

Automatic time-controlled filter cleaner 1 “
Time-controlled filter cleaner enables automatic filter cleaning. The nozzle will clean the filter surface at freely adjustable times.

Water lock 1 ‘’ including detection point
Always close the drinking water supply during an overflow alarm to prevent water loss. This makes it possible to mount the device without connecting the overflow.

Backflow sensor
This registers an alarm signal from the sewer level, after which the IRM® system switches to drinking water and activates an alarm signal.

Pressure vessel
Pressure vessels give the switching behavior of the pumps a calmer character, which benefits the life and energy consumption of the pumps.

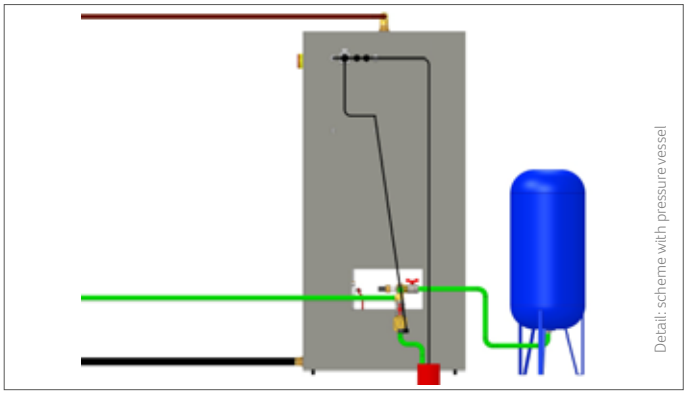
SCOPE OF DELIVERY

Product consists of: IRM®-18-50 or IRM®-18-60 Watermanager and installation instructions.

ORDERING INFORMATION

Art nr	NAME	PG
402613	IRM®-18 SP Watermanager 18-50	4
402614	IRM®-18 SP Watermanager 18-60	4
402711	Level sensor with 20 meters of cable	4
401251	Automatic time-controlled filter cleaner 1 "	4
402125	Water lock 1 " including detection point	4
401158	Backflow sensor	4

For pressure vessels see the GEP specification sheet


Detail: scheme with pressure vessel

IRM®- 18 WATERMANAGER

Industrial rainwater system with double pumps and supply pump

PRODUCT DESCRIPTION

The IRM®-18 Watermanager is a plug-in, compact installation for rainwater use in residential complexes, commercial and public buildings. The break tank for drinking water supply is in accordance with EN1717 type AA. Content 200 liters. The IRM®-18 Water Manager has a double self-priming centrifugal pump (RC-8 or RC-9). A supply pump serves for the supply of rainwater from the rainwater tank in the break tank. In the absence of rainwater, the break tank is filled with drinking water by means of a 1 "solenoid valve, in which case the pumps suck drinking water from this tank.

The IRM®-18 Watermanager is provided with steel casing and must be installed in a frost-free, dry room with drainage on the ground, for example a scrubbing well. Pressure and status display of the system is clear, in four languages, shown on the LCD display. Control is equipped with a turn-hour control, with data log and control of the automatic filter cleaner (option).

SCOPE

The system is applicable for the use of filtered rainwater for toilet flushes and other applications for which no drinking water quality is required, within utility buildings and commercial buildings.

TECHNICAL DATA

Width in mm:	800
Depth in mm:	730
Height in mm:	1.680
Gewicht (leeg) in kg.:	150
Weight (full) in kg.:	310
Pressure line:	6/4" bu
Drinking water connection:	5/4'' bu
Toevoerpomp:	5/4'' bu
Emergency overflow in mm:	100

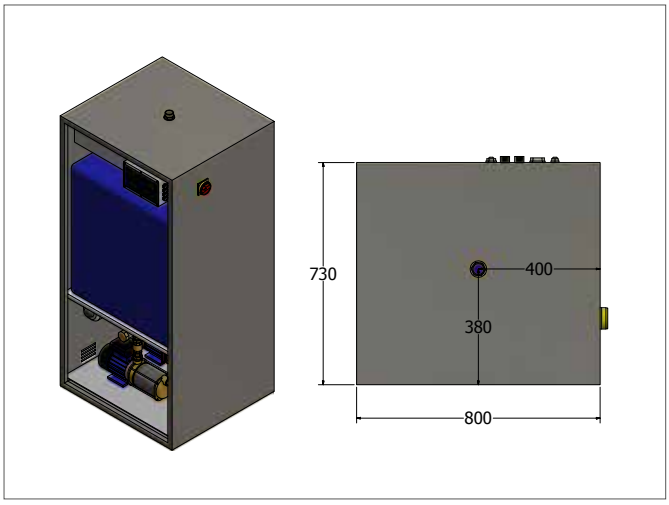
TECHNICAL SPECIFICATIONS

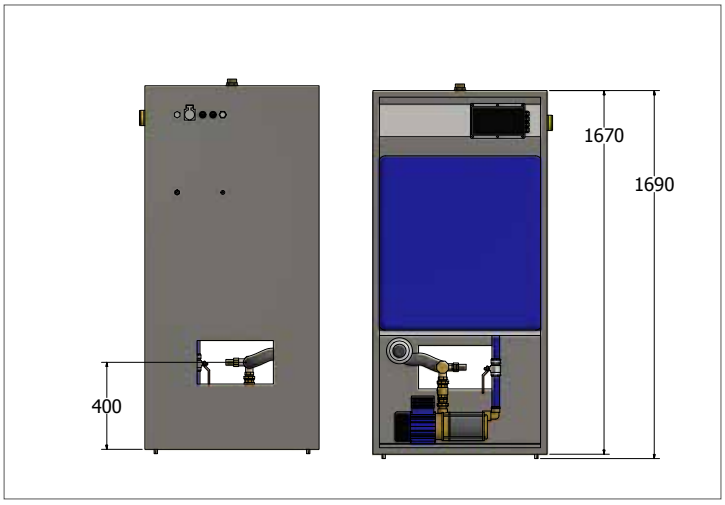
	18-50	18-60
Voltage in V:	230	230
Power in Watt:	3.300	4.000
Max. flow in liters / min:	300	320
Max. increaseHeight in m:	50	62
Number of fans:	4	5
Capacitor in µF:	25	40

MATERIAL

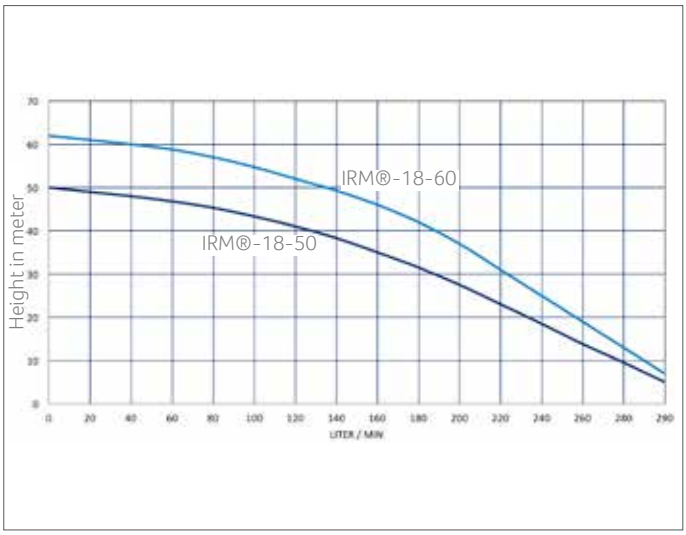
Housing:	Gemoffeld staal
Breaktank:	HPDE
Drinking water connection:	Messing
Supply pump connection:	Messing
Connection Pressure side:	RVS
Fans:	RVS
Pump housing:	RVS
Motor housing:	RVS
Air separator and guide wheel:	PPO (noryl)
Electro cable pump:	3 aderig 1,00 mm² H07Rn-F

TECHNICAL DIAGRAMS

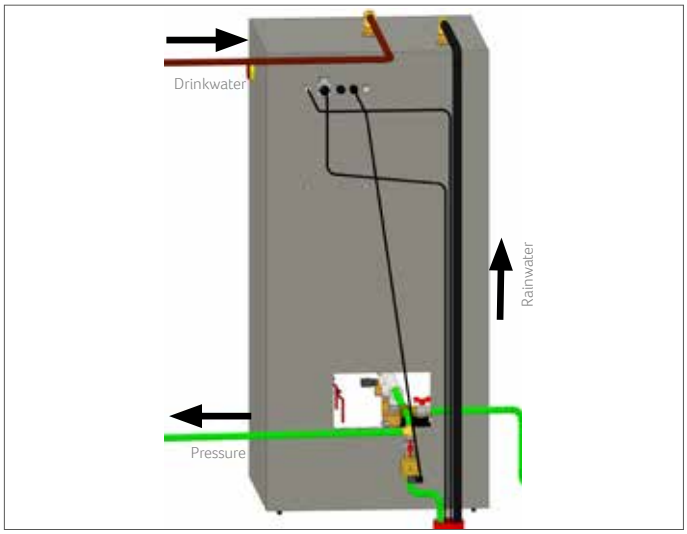




PUMP CHARACTERISTIC



CONNECTION DIAGRAM



OPTIONS

Füllstandssensor mit 20 Meter Kabel
Mit diesem Sensor kann der aktuelle Wasserstand im Regenwassertank am Steuergerät angezeigt werden.

Automatischer zeitgesteuerter Filterreiniger 1 “
Zeitgesteuerter Filterreiniger ermöglicht automatische Filterreinigung. Die Düse wird die Filteroberfläche zu frei einstellbaren Zeiten reinigen.

Wasserschloss 1 ‘’ inklusive Detektionspunkt
Schließen Sie die Trinkwasserversorgung immer während eines Überlaufalarms, um Wasserverluste zu vermeiden. Dies ermöglicht es, das Gerät ohne Verbindung des Überlaufs zu montieren.

Rückflusssensor
Dies meldet ein Alarmsignal von der Kanalebene, wonach das IRM®-System auf Trinkwasser umschaltet und ein Alarmsignal auslöst.

Antiheldensatz
An Stellen, an denen der Bremstank tiefer als der Regenwassertank ist, muss ein Antirumpf-Satz in der Förderpumpenleitung platziert werden.

Versorgungspumpe
Die Versorgungspumpe versorgt den Wassermanager mit Regenwasser. Typ ist abhängig von der gewünschten Durchflussmenge und von der Entfernung (> 15m) und der Höhe (> 3m) zwischen Watermanager und Regenbrunnen.

Druckbehälter
Druckbehälter verleihen dem Schaltverhalten der Pumpen einen ruhigeren Charakter, was den Lebensdauer- und Energieverbrauch der Pumpen begünstigt.

SCOPE OF DELIVERY

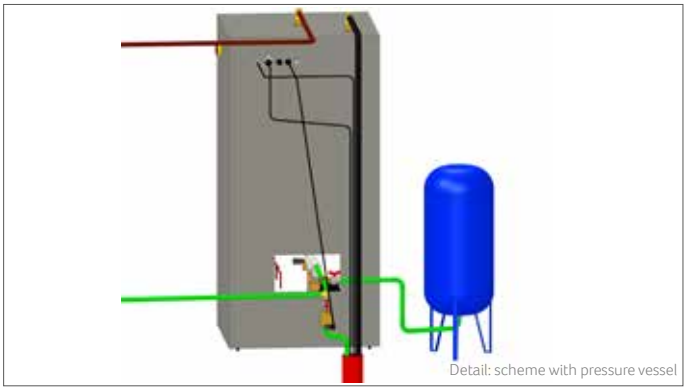
Product consists of: IRM®-18-50 Watermanager / IRM®-18-60 Watermanager and installation instructions.

ORDERING INFORMATION

Art nr	NAME	PG
402611	IRM®-18 Water manager 18-50	4
402612	IRM®-18 Water manager 18-60	4
402711	Level sensor with 20 meters of cable	4
401251	Automatic time-controlled filter cleaner 1 "	4
402125	Water lock 1 " including detection point	4
401158	Backflow alarm for Trident filters	4
402713	Anti-mist set IRM® 18	4

For supply pumps see the GEP specification sheet

For pressure vessels see the GEP specification sheet


Detail: scheme with pressure vessel

IRM®- 25 WATERMANAGER

Industrial rainwater system with double pumps and supply pump

PRODUCT DESCRIPTION

The IRM®-25 Watermanager is a plug-in, compact installation for rainwater use in residential complexes, commercial and public buildings. The break tank for drinking water supply is in accordance with EN1717 type AA. Content 200 liters. IRM®-25 Watermanager has a double self-priming centrifugal pump. A supply pump serves for the supply of rainwater from the rainwater tank in the break tank. In the absence of rainwater, the break tank is filled with drinking water by means of a 1 "solenoid valve.

The IRM®-25 Watermanager is provided with a steel casing and must be installed in a frost-free, dry room with drainage on the ground, for example a scrubbing well. Pressure and status display of the system is clear, in four languages, shown on the LCD display. Control is equipped with a turn-hour control, with data log, and control of the automatic filter cleaner (option).

ANWENDUNGSGEBIET

The system is applicable for the use of filtered rainwater for toilet flushes and other applications for which no drinking water quality is required, within utility buildings and commercial buildings.

TECHNICAL DATA

Width in mm:	800
Depth in mm:	730
Height in mm:	1.680
Weight (empty) in kg.:	165
Weight (full) in kg.:	335
Pressure line:	2" bu
Drinking water connection:	6/4" bu
Supply pump:	2" bu
Emergency overflow in mm:	100

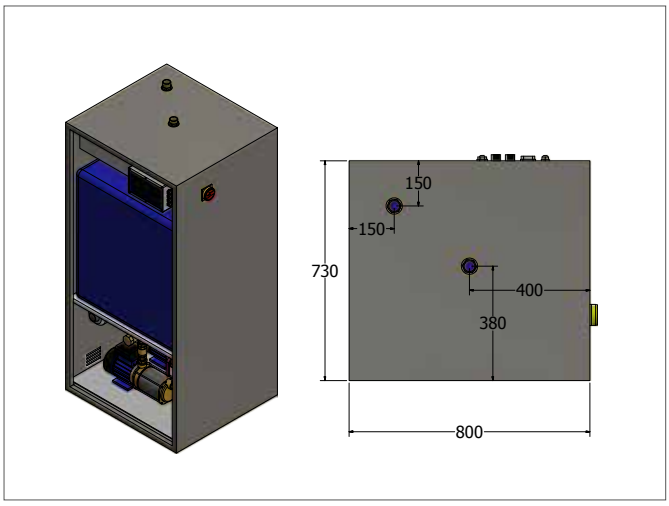
TECHNICAL SPECIFICATIONS

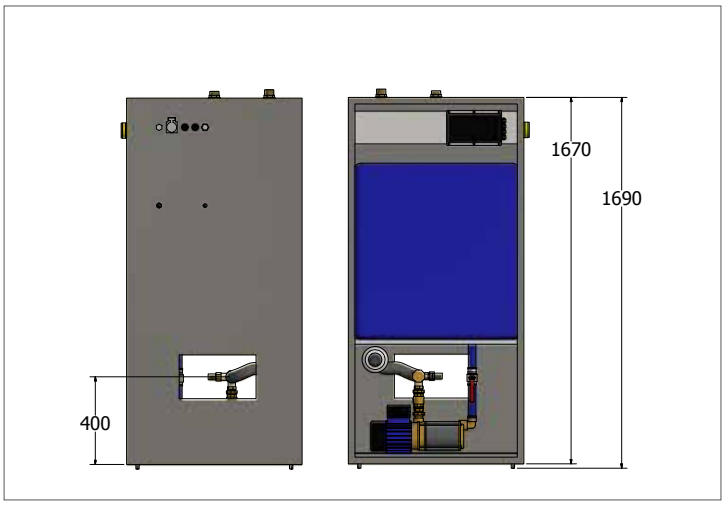
	25-50	25-80
Voltage in V:	400	400
Power in Watt:	3.540	6.360
Max. flow in liters / min:	416	416
Max. increaseHeight in m:	48	84

MATERIAL

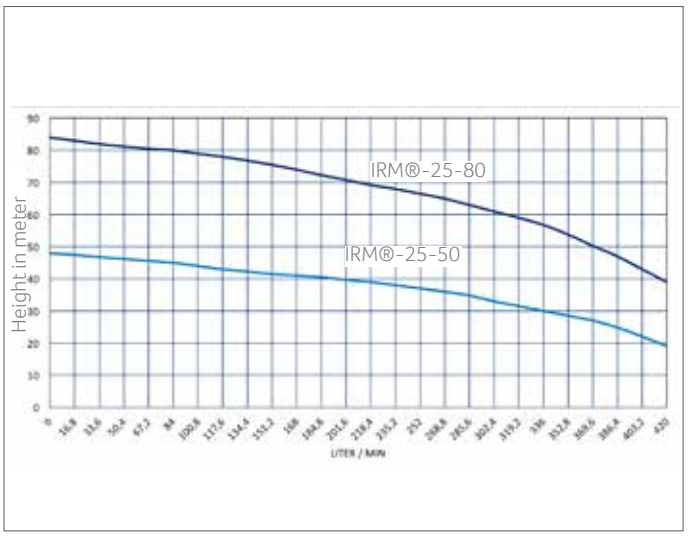
Housing:	Gemoffeld staal
Breaktank:	HPDE
Drinking water connection:	Messing
Supply pump connection:	Messing
Connection Pressure side:	RVS
Fans:	RVS
Pump housing:	RVS
Motor housing:	RVS
Air separator and guide wheel:	PPO (noryl)

TECHNICAL DIAGRAMS

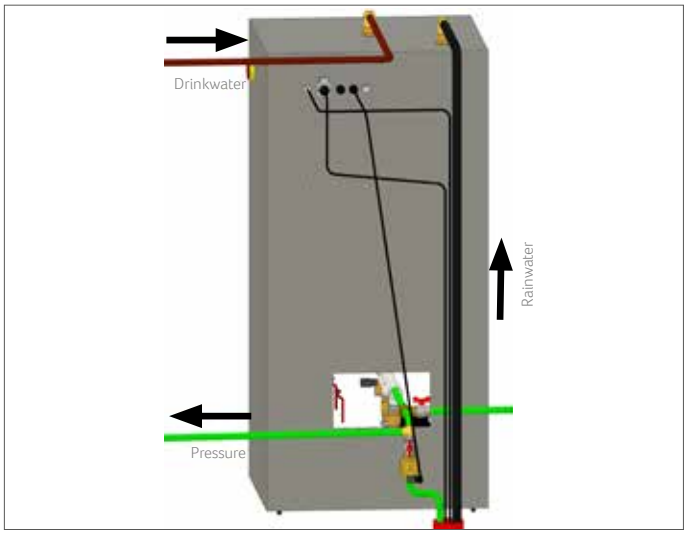




PUMP CHARACTERISTIC



CONNECTION DIAGRAM



OPTIONS

Level sensor with 20 meters of cable
With this sensor it is possible to display the current water level in the rainwater tank on the control unit.

Automatic time-controlled filter cleaner 1 “
Time-controlled filter cleaner enables automatic filter cleaning. The nozzle will clean the filter surface at freely adjustable times.

Water lock 1 ‘’ including detection point
Always close the drinking water supply during an overflow alarm to prevent water loss. This makes it possible to mount the device without connecting the overflow.

Backflow sensor
This registers an alarm signal from the sewer level, after which the IRM® system switches to drinking water and activates an alarm signal.

Antihevelset
In places where the break tank is lower than the rainwater tank, an anti-hull set must be placed in the feed pump line.

Supply pump
Supply pump provides the supply of rainwater to the Water Manager. Type depends on desired flow rate and on the distance (> 15m) and the Height (> 3m) between the Watermanager and rainwater well.

Pressure vessel
Pressure vessels give the switching behavior of the pumps a calmer character, which benefits the life and energy consumption of the pumps.

SCOPE OF DELIVERY

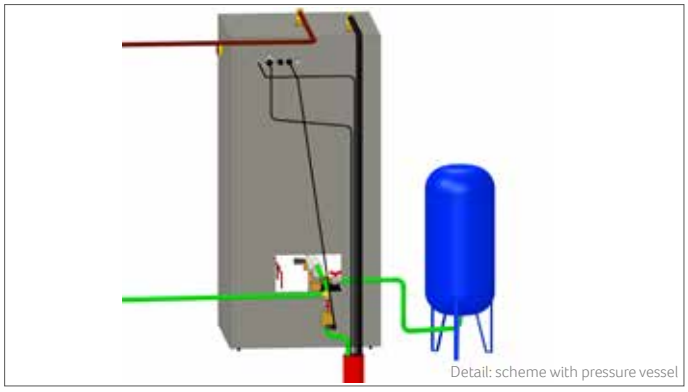
Product consists of: IRM®-25-50 Watermanager / IRM®-25-80 Watermanager and installation instructions.

ORDERING INFORMATION

Art nr	NAME	PG
402617	IRM®-25 Water Manager 25-50	4
402618	IRM®-25 Water Manager 25-80	4
402711	Level sensor with 20 meters of cable	4
401251	Automatic time-controlled filter cleaner 1 "	4
402125	Water lock 1 "including detection point	4
401158	Backflow sensor	4
402713	Anti-vibration set IRM® 25	4

For supply pumps see the GEP specification sheet

For pressure vessels see the GEP specification sheet


Detail: scheme with pressure vessel

IRM® - HYBRIDE SYSTEEMBESTURING

Rainwater system control for hybrid tank

PRODUCT DESCRIPTION

The IRM®-Hybrid system control system automatically replenishes the hybrid tank with rainwater from the large rainwater tank. In the absence of rainwater, the hybrid tank switches to drinking water. The control can also be switched manually to drinking water. Optionally, the rainwater tank can also be equipped with a pressure sensor so that the current water level can also be displayed by the GEP Hybrid control system.

The display of the hybrid control is done via an LCD display. The system is continuously monitored and any faults are reported by the control, not only via the LCD display, but also via an acoustic signal and a potential-free contact. In addition, the control system provides a stagnation protection for the supplying drinking water line and a data log of the various operating hours. There is also the option to connect a backflow protection. When returning from the sewer to the rainwater tank the control will report this and automatically switch to drinking water.

SCOPE

The system can be used for the use of filtered rainwater in non-residential buildings for toilet flushes and other applications for which no drinking water quality is required.

TECHNICAL DATA

Width in mm:	150
Height in mm:	110
Depth in mm:	70
Weight in kg.:	1.5
LCD Display:	2 lines with 16 characters each
Control:	4 keys
Level measurement:	float switches (HSS)
Level measurement:	Druksensor (HSP)
Protection class:	IP 44
PumpPower 1 in Watt:	Max. 1.500
PumpPower 2 in Watt:	Max. 1.500
Valve Power in Watt:	Max. 500 W
Voltage in Volt:	230
Frequency in Hz:	50
Standby in Watt:	2,8
Security:	Pin

MULTI TANK REGELING

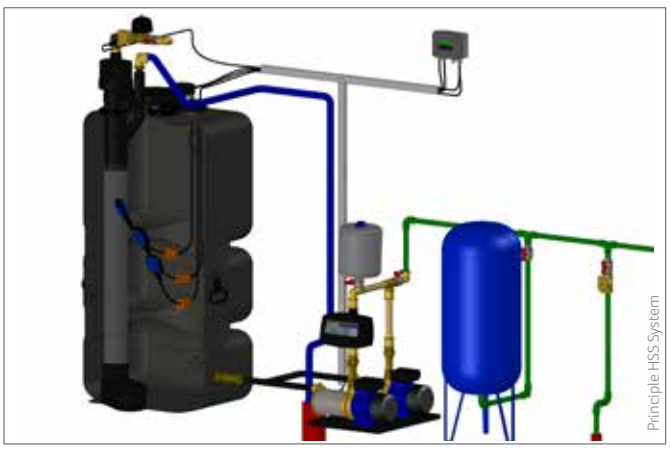
The IRM®-Hybrid control has a multi-tank control. This is an extra function to use remote rainwater tanks or source pumps and to supplement the main tank. For this the control can be extended with a pressure sensor in the main tank. The extra supply pump is then activated as soon as the water level in the main tank drops below 30%. This main tank is then supplemented to a level of 50% by this extra supply pump.

OPTIONS

Antihevelset
In places where the break tank is lower than the rainwater tank, an anti-hull set must be placed in the feed pump line.

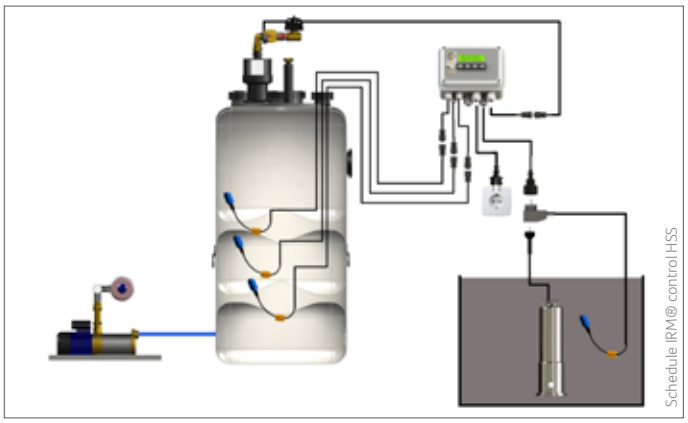
Level sensor 50 meters of cable
For locations where the distance between break tank and rainwater tank is greater than 15 meters.

TECHNICAL DIAGRAMS


Principle HSS System


Principle HSP System

CONNECTION DIAGRAM



Schedule IRM® control HSS

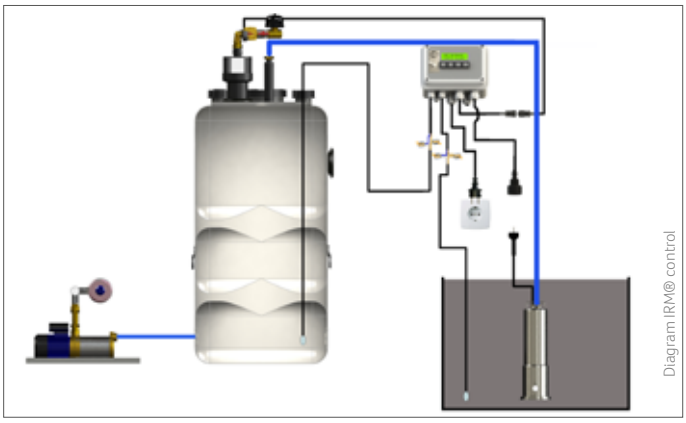


Diagram IRM® control

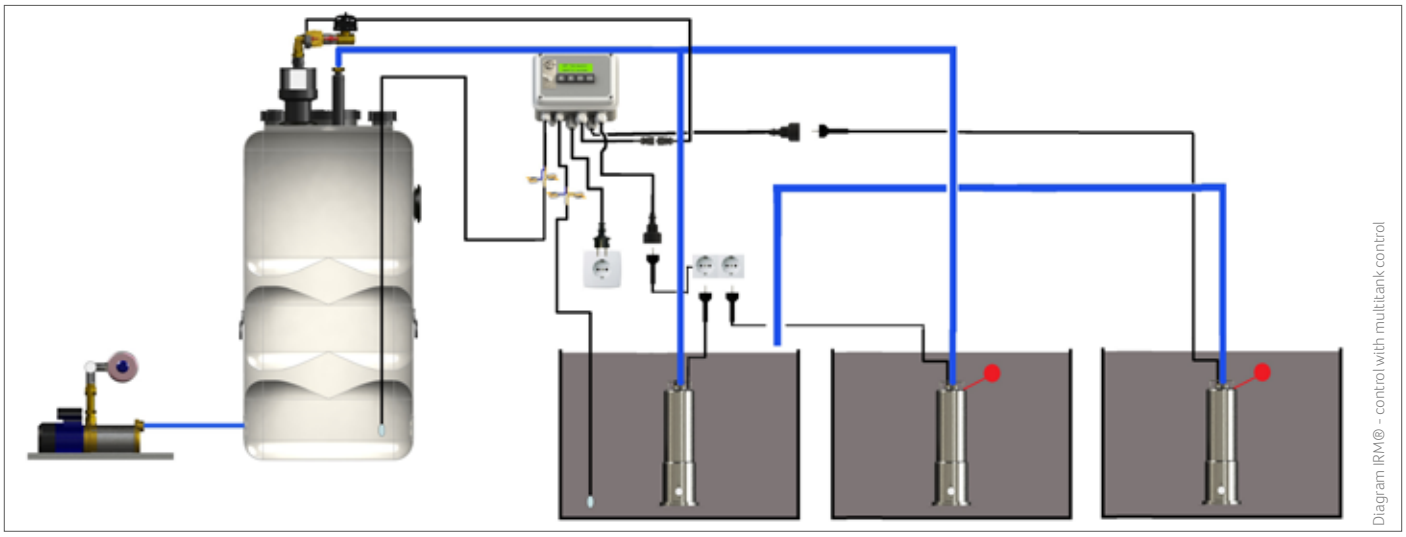


Diagram IRM® - control with multitank control

SCOPE OF DELIVERY

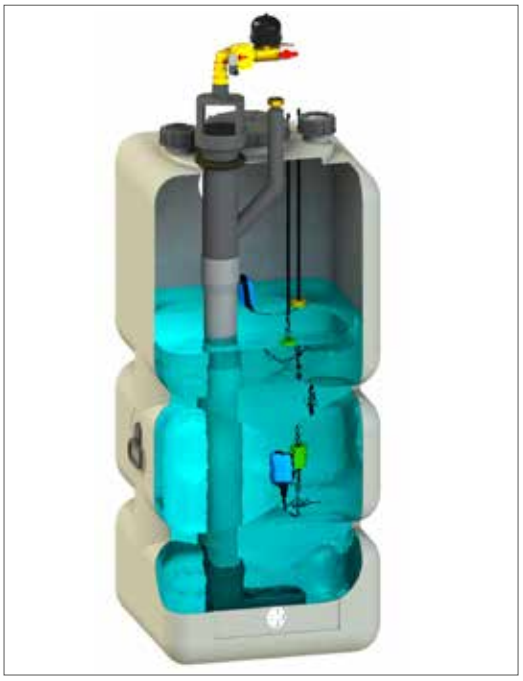
Product consists of: plug-in pre-assembled control box with built-in LCD screen and accompanying installation instructions. The HSP version is equipped with a pressure sensor with 20 meters of cable and plug. The HSS version is delivered without a pressure sensor but with three float switches with weight and connection terminals.

ORDERING INFORMATION

Art nr	NAME	PG
402110	IRM® - Hybrid steering HSS with float switch	4
402111	IRM® - Hybrid control HSP with pressure sensor	4
402710	Level sensor with 20 meters of cable	4
402711	Level sensor with 50 meters of cable	4
409250	Level sensor system tank	4
402713	Anti-mist set IRM®-8	4

IRM®–HYBRIDE SYSTEEMTANK AQF

Complete rainwater system with system tank for hybrid system



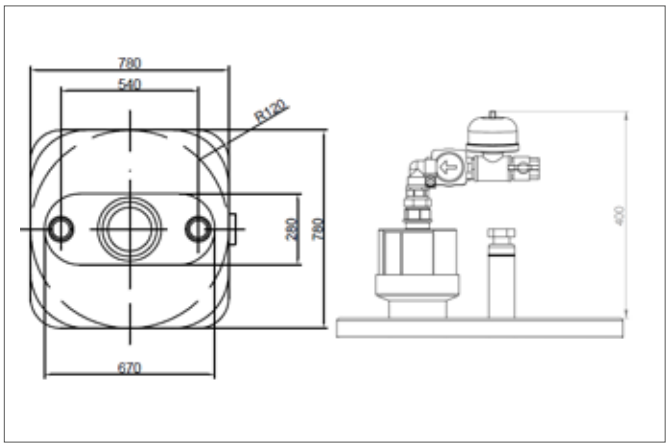
PRODUCT DESCRIPTION

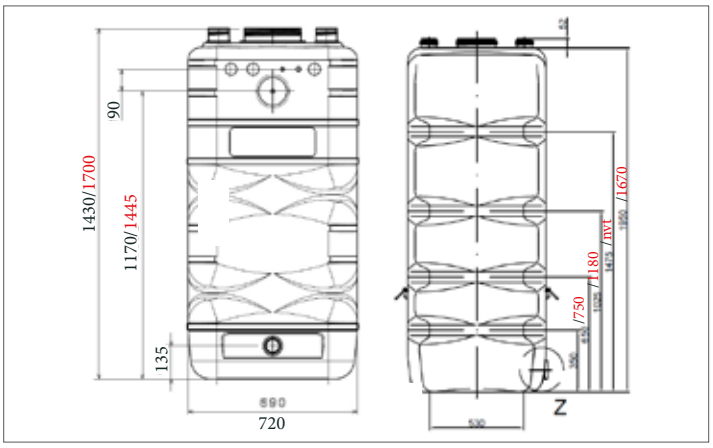
GEP's RCD pumping systems have been built using the high-quality self-priming GEP RC pumps, equipped with built-in thermal protection and GEP's DPA pump control. It is recommended to extend these sets with a pressure vessel from GEP. These hydrofore sets are suitable for pressure increase and rainwater use in industry and utilities, or can be used in all places where the water pressure needs to be increased.

SCOPE

Everywhere there is a need for a complete pre-assembled pump group with a relatively large pump capacity and a high operating reliability with freely programmable switch-on and switch-off pressure.

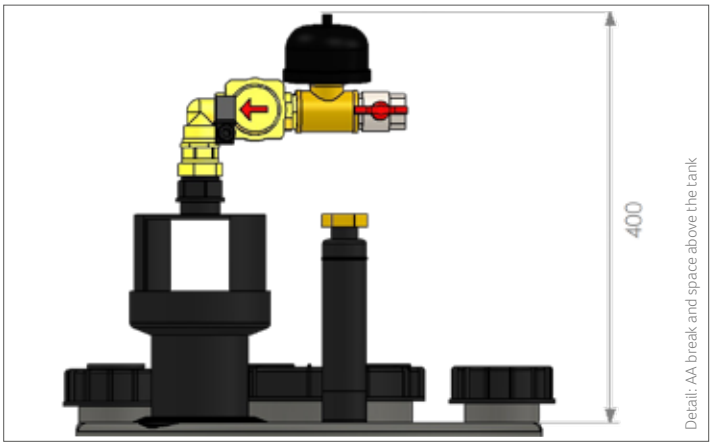
TECHNICAL DATA





ORDERING INFORMATION

Art nr	NAME	PG
402619	IRM® - Hybrid AQF 570 Liter	4
402621	IRM® - Hybrid AQF 750 Liter	4
402122	IRM® - Hybrid AQF 1000 Liter	4
402713	Anti-mist set IRM® 8	4
402711	Level sensor with 50 meters of cable	4
409250	Level sensor tank installation	4
401251	Automatic time-controlled filter cleaner 1 "	4



GEP TOEVOERPOMPEN

Booster pumps for IRM® - Water managers

PRODUCT DESCRIPTION

A supply pump is used when the distance between the IRM® system control in the building and the position of the rain water well (s) is greater than 15 meters. The length of the Suction pipe will then be so great that the self-priming pumps will no longer be able to suck rainwater from the rainwater tank. A feed pump offers the solution and ensures that the IRM® pumps are supplied with rainwater by the feed pump that is placed in the rainwater well.

The supply pump is connected to the IRM® system control. At the moment that the IRM® system registers that rainwater is being requested, the system starts the supply pump. The supply pump ensures that the IRM® pumps can supply sufficient water at the draw-off points.

SCOPE

GEP has three types of feed pumps; IRM® 3-5-6, IRM® 8 and 10 and for IRM® 18 and 25. The supply pump is supplied as a set, including connection material, floating intake and installation instructions.

TECHNICAL DATA

GEP Supply pump	IRM®3, 5 & 6	IRM® 8 & 10	IRM® 18 & 25
Max. capacity in L / min:	150	270	540
Max. increaseHeight in m:	6,3	13	13
Voltage in V:	230	230	230
Power in Watt:	500	1100	2 x 1100
Protection class:	IP68	IP68	IP68
Weight in kg:	5.5	11	2 x 11
Connection	5/4'' bi	5/4'' bi	6/4'' bi

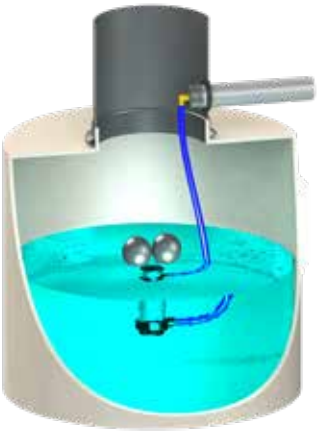


Diagram: supply pump IRM® - 1

ORDERING INFORMATION

Art nr	NAME	PG
402728	GEP Supply pump package for IRM® Water managers 3 and 5	4
402707	GEP Supply pump for IRM® Watermanager 6	4
402708	GEP Supply pump for IRM® Water managers 8 and 10	4
402709	GEP Supply pump for IRM® Water managers 18 and 25	4

GEP RCD POMPINSTALLATIES

Cascade controlled pump group with two pumps

PRODUCT DESCRIPTION

GEP's RCD pumping systems have been built using the high-quality self-priming GEP RC pumps, equipped with built-in thermal protection and GEP's DPA pump control. It is recommended to extend these sets with a pressure vessel from GEP. These hydrofore sets are suitable for pressure increase and rainwater use in industry and utilities, or can be used in all places where the water pressure needs to be increased.

SCOPE

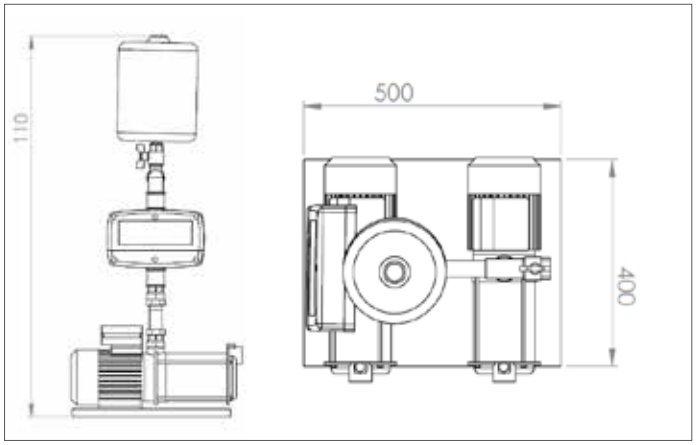
Everywhere there is a need for a complete pre-assembled pump group with a relatively large pump capacity and a high operating reliability with freely programmable switch-on and switch-off pressure.

TECHNICAL DATA

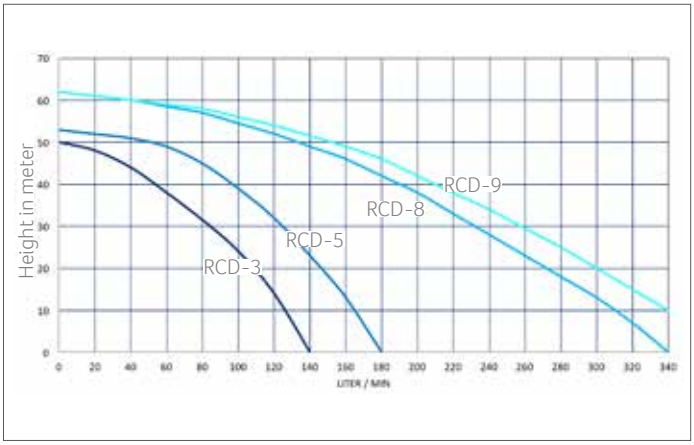
Length in mm:	500
Height in mm:	1.100
Width in mm:	400
Suction connection:	2 x 1 of 5/4'' bi
Connection press:	5/4 of 6/4'' bi
Max. rPM:	2.850

TECHNICAL SPECIFICATIONS	RCD-3	RCD-5	RCD-8	RCD-9
Power in Watt:	2.200	2.700	3.300	4.000
Max. flow in liters / min:	120	160	300	320
Max. increaseHeight in m:	50	53	50	62
Weight in kg:	25	26	25	26
Temperature in ° C:	5-35	5-35	5-35	5-35
Capacitor in µF:	20	25	25	40
Number of fans:	5	5	4	5

TECHNICAL DRAWINGS



PUMP CHARACTERISTIC



ORDERING INFORMATION

Art nr	NAME	PG
402630	GEP Double pump installation RCD - 3 with dry running protection	4
402623	GEP Double pump installation RCD - 5 with dry running protection	4
402631	GEP Double pump installation RCD - 8 with dry running protection	4
402632	GEP Double pump installation RCD - 9 with dry running protection	4

GEP RCT POMPINSTALLATIES

Cascade gestuurde pompgroep met drie pompen

PRODUCT DESCRIPTION

GEP's RCD pumping systems have been built using the high-quality self-priming GEP RC pumps, equipped with built-in thermal protection and GEP's DPA pump control. It is recommended to extend these sets with a pressure vessel from GEP. These hydrofore sets are suitable for pressure increase and rainwater use in industry and utilities, or can be used in all places where the water pressure needs to be increased.

SCOPE

Everywhere there is a need for a complete pre-assembled pump group with a relatively large pump capacity and a high operating reliability with freely programmable switch-on and switch-off pressure.

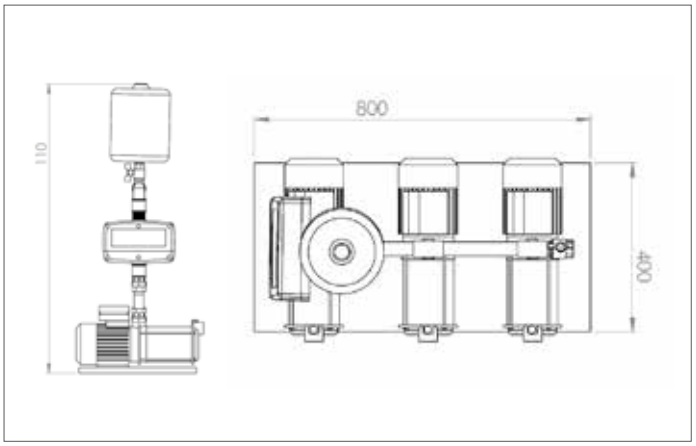
TECHNICAL DATA

Length in mm:	900
Height in mm:	1100
Width in mm:	450
Suction connection:	3x 1 of 5/4'' bi
Connection press:	6/4 of 2'' bi
Max. rPM:	2.850

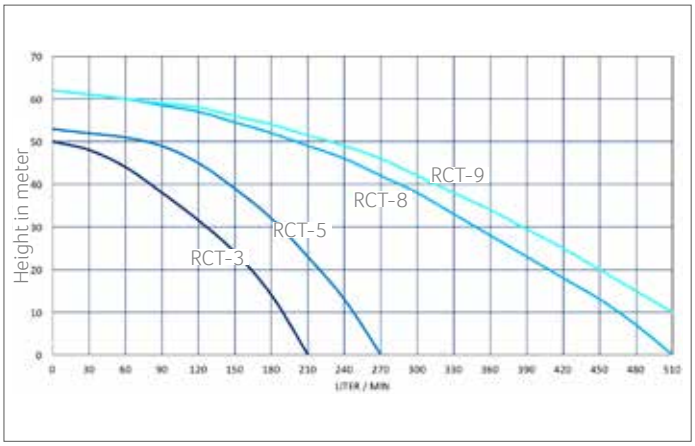
TECHNICAL SPECIFICATIONS

	RCT-3	RCT-5	RCT-8	RCT-9
Power in Watt:	3.300	4.050	4.950	6.000
Max. flow in liters / min:	180	240	450	480
Max. increaseHeight in m:	50	53	50	62
Weight in kg:	37	38	37	38
Temperature in ° C:	5-35	5-35	5-35	5-35
Capacitor in µF:	20	25	25	40
Number of fans:	5	5	4	5

TECHNICAL DRAWINGS



PUMP CHARACTERISTIC



ORDERING INFORMATION

Art nr	NAME	PG
402660	GEP RCT-3 pump group with 3 pumps and dry-running protection	4
402661	GEP RCT-5 pump group with 3 pumps and dry-running protection	4
402662	GEP RCT-8 pump group with 3 pumps and dry-running protection	4
402663	GEP RCT-9 pump group with 3 pumps and dry-running protection	4

GEP RCD - F POMPINSTALLATIES

Cascade speed controlled pump group with two pumps

PRODUCT DESCRIPTION

The RCD-F pumping systems from GEP are based on the high-quality self-priming GEP RC pumps, with built-in thermal protection and the GEP's F-speed pump control. These hydrophore sets are very suitable for pressure increase and rainwater use in industry and utilities, or can be applied at all places where the water pressure needs to be increased.

SCOPE

Everywhere there is a need for a complete pre-assembled pump group with a relatively large pump capacity and a high operational reliability with a freely adjustable constant comfortable water pressure.

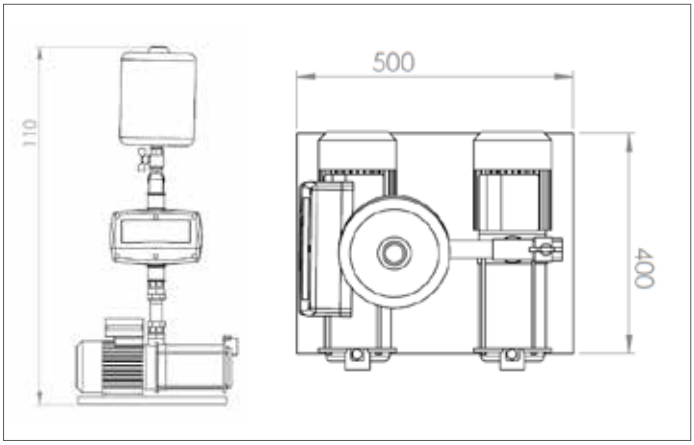
TECHNICAL DATA

Length in mm:	500
Height in mm:	1.100
Width in mm:	400
Suction connection:	2 x 1 of 5/4'' bi
Connection press:	5/4 of 6/4'' bi
Max. RPM:	2.850

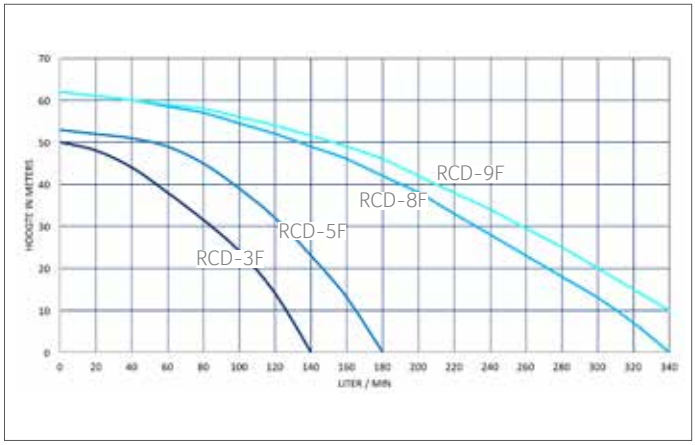
TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS	RCD-3F	RCD-5F	RCD-8F	RCD-9F
Power in Watt:	1.800	2.700	3.300	4.000
Max. flow in liters / min:	120	160	300	320
Max. increaseHeight in m:	50	53	50	62
Weight in kg:	25	26	25	26
Temperature in ° C:	5-35	5-35	5-35	5-35
Capacitor in µF:	20	25	25	40
Number of fans:	5	5	4	5

TECHNICAL DRAWINGS



PUMP CHARACTERISTIC



ORDERING INFORMATION

Art nr	NAME	PG
402635	GEP Double pump installation RCD - 3F frequency controlled	4
402636	GEP Double pump installation RCD - 5F frequency controlled	4
402637	GEP Double pump installation RCD - 8F frequency controlled	4
402638	GEP Double pump installation RCD - 9F frequency controlled	4

GEP RCT - F POMPINSTALLATIES

Cascade speed controlled pump group with three pumps

PRODUCT DESCRIPTION

The RCT-F pumping systems from GEP are based on the high-quality self-priming GEP RC pumps, with built-in thermal protection and the GEP's F-speed pump control. These hydrophore sets are suitable for pressure boosting and rainwater use in industry and utilities, or can be used in all places where the water pressure needs to be increased and a constant comfortable water pressure is required.

SCOPE

Everywhere there is a need for a complete pre-assembled pump group with a relatively large pump capacity and a high operational reliability with a freely adjustable constant comfortable water pressure.

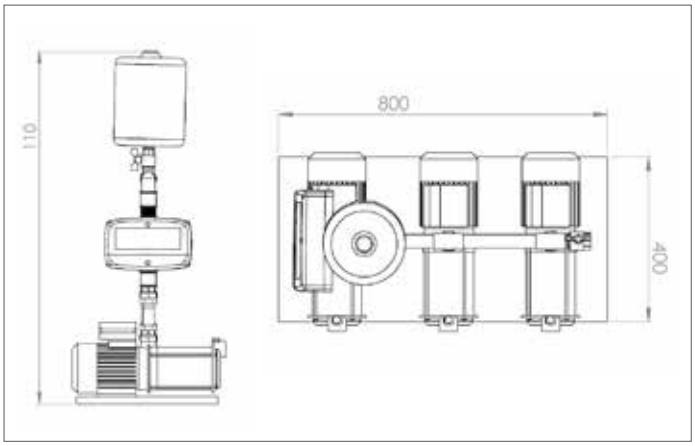
TECHNICAL DATA

Suction connection:	3 x 1 of 5/4'' bi
Connection press:	6/4 of 2'' bi
Length in mm:	900
Height in mm:	1100
Width in mm:	450
Max. RPM:	2.850

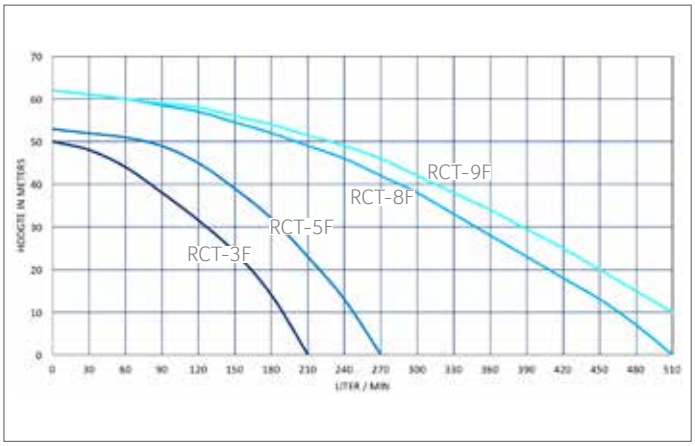
TECHNICAL SPECIFICATIONS

	RCT-3F	RCT-5F	RCT-8F	RCT-9F
Power in Watt:	3.300	4.050	4.950	6.000
Max. flow in liters / min:	120	160	450	480
Max. increaseHeight in m:	50	53	50	62
Weight in kg:	37	38	37	38
Temperature in ° C:	5-35	5-35	5-35	5-35
Capacitor in µF:	20	25	25	40
Number of fans:	5	5	4	5

TECHNICAL DRAWINGS



PUMP CHARACTERISTIC



ORDERING INFORMATION

Art nr	NAME	PG
402665	GEP RCT-3F pump group with 3 pumps and dry-running protection	4
402666	GEP RCT-5F pump group with 3 pumps and dry-running protection	4
402667	GEP RCT-8F pump group with 3 pumps and dry-running protection	4
402668	GEP RCT-9F pump group with 3 pumps and dry-running protection	4

GEP DPA POMPBESTURING

Cascade pump control for 2 or 3 pumps

PRODUCT DESCRIPTION

Program of the GEP high end double pump control is written for two or three parallel connected pumps. Control of the pumps is based on pressure. The on and off pressure can be set per pump. At peak load the second and / or third pump automatically switches on.

Operating hours are evenly distributed over the pumps. Pump control also provides a redundant protection. When the system detects a serious fault, the redundancy protection is activated. The affected pump is switched off and an alarm message appears on the LCD display. The system adjusts the parameters in order for the second pump to function in the best possible conditions with optimum operation.

SCOPE

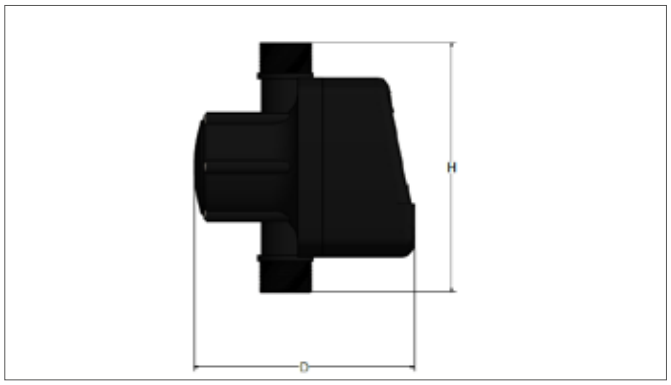
This control is applicable wherever an adjustable water pressure and high operational reliability of two or three pumps is desired.

TECHNICAL DATA

Voltage in V:	1 x 230
Protection class:	IP55
Connection IN / OUT:	1 ¼"
Max. water temperature in ° C:	40
Max. ambient temperature°C:	50
Weight (without cables) in kg:	1.5
Max. volumetric flow in liters / min:	167
Max. total volume flow in liters / min:	167 + debiet pomp 2/3

Max. flow pump 1 in A:	10
Max. flow pump 2 in A:	10
Max. flow pump 3 in A:	10
Max. operating pressure in bar:	10
Range in bar:	0.5 - 7
Width B1 in mm:	237
Height H in mm:	196
Depth D in mm:	178

TECHNICAL DRAWINGS



ORDERING INFORMATION

Art nr	NAME	PG
402272	GEP DPA-2 high end kit for double pump	4
402273	GEP DPA-3 high end kit for triple pump	4

GEP F-SPEED POMPBESTURING

Frequency-controlled pump control for 1, 2 or 3 pumps

PRODUCT DESCRIPTION

GEP F-Speed pump controls are controls for a single, double or triple pump installation. The GEP F-speed pump controls ensure economical controlled pump control. With the GEP F-speed pump control you increase the life of the pump and save energy and money due to less consumption and wear. With the help of the user-friendly software (multilingual) and the well-lit LCD display, you can easily read and program the pump control unit.

With a double pump, the first pump is controlled by inverter and the supporting pump is controlled by a relay. The entire system is powered by a standard 230V power supply. Very easy to install and then operate.

SCOPE

This control is applicable wherever constant, comfortable water pressure and high operational reliability of one, two or three pumps is desired.

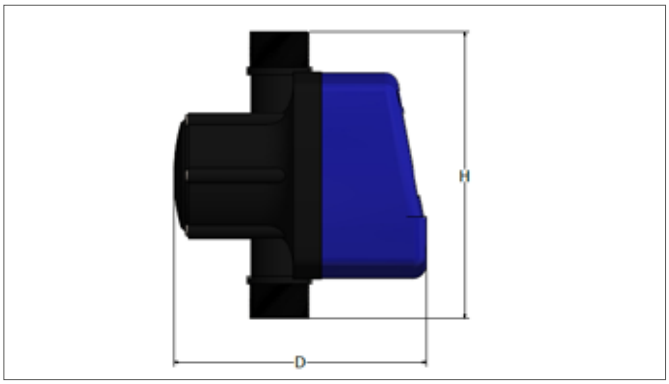
TECHNICAL DATA ENKELE POMP

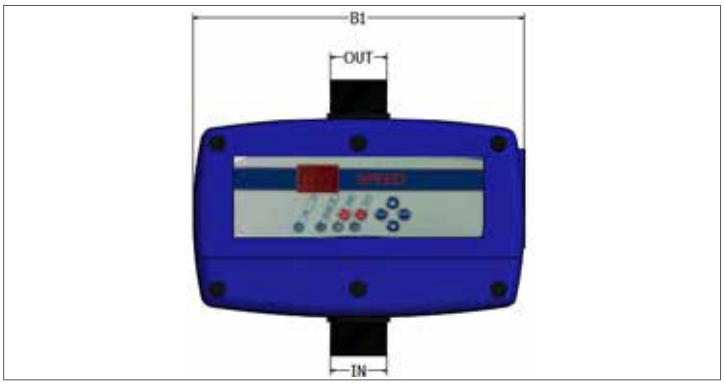
Voltage in V:	230
Protection class:	IP55
Connection IN / OUT:	1 ¼"
Max. water temperature in ° C:	40
Max. ambient temperature°C:	50
Weight (without cables) in kg:	2,5
Max. volumetric flow in liters / min:	167
Max. current in A:	9
Max. operational pressure in bar:	10
Bereik in bar:	0,5 - 8
Width B1 in mm:	237
Height H in mm:	196
Depth D in mm:	178

TECHNICAL DATA DUBBELE EN DRIEVOUDIGE POMP

Voltage in V:	230
Protection class:	IP55
Connection IN / OUT:	1 ¼"
Max. water temperature in ° C:	40
Max. ambient temperature°C:	50
Weight (without cables) in kg:	4
Max. volumetric flow in liters / min:	250
Max. total volume flow in liters / min:	250 + flow pump 2/3
Max. flow in A:	10
Max. busy in bar:	16
Range in bar:	0,5 - 12
Width B1 in mm:	280
Height H in mm:	240
Depth D in mm:	226

TECHNICAL DRAWINGS





ORDERING INFORMATION

Art nr	NAME	PG
402261	GEP F-Speed One Frequency control for single pump	4
402262	GEP F-Speed Two Frequency control for double pump	4
402293	GEP G-Speed Three Frequency control for three pumps	4

GEP DRUKVATEN

Quiet switching behavior and a comfortable pressure

PRODUCT DESCRIPTION

The interchangeable membrane pressure vessel is a metal vessel that can absorb the potential energy of a pressurized fluid and store it in a rubber bag, also known as a membrane. In the case of water demand, it is possible to transfer the stored energy from the pressurized liquid and convert it back into useful capacity. The air chamber is insulated from the water tank by the EPDM membrane (3), preventing the risks of water contamination by dust, vapor, smoke, oil, bacteria and odors. The insulation between the walls prevents the risk of corrosion.

SCOPE

GEP pressure vessels with interchangeable membrane for sanitary cold water circuits. EPDM membrane, on request BUTYL membrane. Operable at a temperature of -10 ° C to 100 ° C.

Advice is to adjust the pressure in the pressure vessel in such a way that it is approx. 0.2 bar lower than the switch-on pressure of the pump. Pressure vessel must always be fitted with a valve.

TECHNICAL DATA

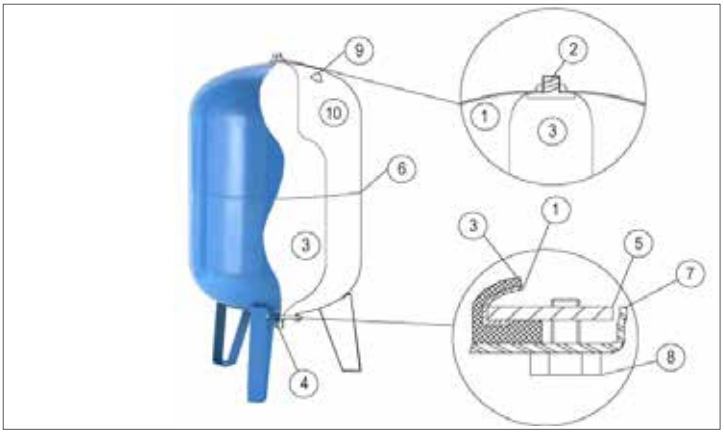
Content in liters:	8	24*	50*	50	100	200	300	500
Max. pressure in bar:	10	10	10	10	10	10	10	10
Height H in mm:	305	300	380	697	849	1085	1240	1490
Diameter Ø in mm:	220	295	375	365	495	600	650	750
Connection:	3/4”	1”	1”	1“	1”	5/4”	5/4”	5/4”

1. Half sleeve
2. Tie rod
3. Membrane
4. Connection
5. Flange
6. Weld seam
7. Contra-flange
8. Screws
9. Valve
10. Air chamber

ORDERING INFORMATION

Art nr	NAME	PRIJS
409297	GEP pressure vessel vertical 8 liters	4
402727	GEP pressure vessel horizontally 24 liters	4
402719	GEP pressure vessel horizontal 50 liters	4
402720	GEP pressure vessel vertical 50 liters	4
402721	GEP pressure vessel vertical 100 liters	4
402722	GEP pressure vessel vertical 200 liters	4
402723	GEP pressure vessel vertical 300 liters	4
402724	GEP pressure vessel vertical 500 liters	4

GEP pressure vessels for high pressure available on request.



PUMP CAPACITY CALCULATION

Project:

Street:

PC + City + Country:

Calculation maximum flow of pump

Disconnection point	Flow	x	Amount	=	Flow
Toilet reservoir 12 mm	0,04 l/s*	x		=	l/s
Washing machine 15 mm	0,16 l/s*	x		=	l/s
Urinoir 15 mm	0,24 l/s*	x		=	l/s
Drukspoelinrichting	1,0 l/s	x		=	l/s
Disconnection tap 15 mm	0,16 l/s*	x		=	l/s
Disconnection tap 20 mm	0,5 l/s	x		=	l/s
Disconnection tap 25 mm	1,0 l/s	x		=	l/s

Total Flow = ∑ = **l**

Physical principles:
Water temperature: 11°C
Kinematic viscosity: 1,52 mm²/s
Density: 0,999 kg/dm³
Vapure pressure 0,0116 bar

* source isso 70.1

The total flow has to be multiplied with a simultaneity factor when several properties are connected to a single pump:

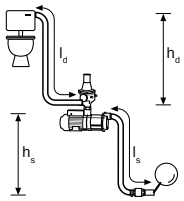
Number of houses	Simultaneity factor
1	1,0
2	0,9
3	0,8
4	0,7
5	0,6
8	0,5
10	0,4
20	0,35

Total Flow x **Simultaneity factor** = **Flow** Q_{max}

l/s x = **l/s**

↳ **x 3.600** = **m³/h**

Discharge height



*If H_s is larger than 5 m, a submersible pump has to be applied.

h_d	+	(l_d x 0,2)	=	H_d
m	+	m	=	m
h_s	+	(l_s x 0,2)	=	$^*H_s$
m	+	m	=	m

Minimum pressure at disconnection point = **10 m**

Max discharge height ($^*H_{max}$) = **m**

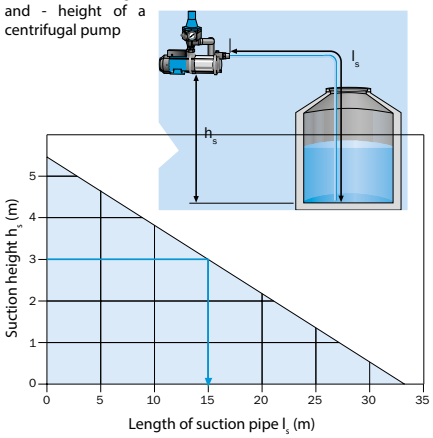
Result pump choise

Type	Q_{max}	H_{max}
	l/s	m

Suction pipe

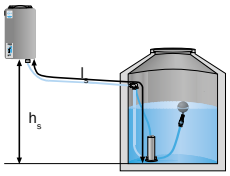
Max suction pipe Duplex-Systeem

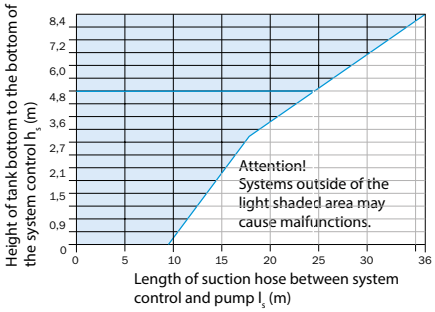
Suction length and - height of a centrifugal pump



Suction pipe: PE-HD 1"
Flow: 3 m³/h

Max suction pipe Implex-Systeem





Suction pipe: PE 1"
Flow: 4 m³/h

www.gep-rainwater.com

“Rethinking water for the future”

GEP offers a broad range of climate adaptive solutions for the reuse of water. Moreover, GEP continues where others stop: we consistently work on new products and systems to provide an innovative response to today’s and tomorrow’s ecological demands.

GEP Watermanagement

Over the past 20 years GEP Rain water has developed into a leading supplier of rain water systems. Our designs and products offer total solutions for environmentally sound decentralised water management. With our 3 branches in Belgium, Germany and The Netherlands we have found the optimal mix of knowledge transfer and product and market optimisation.

BELGIUM	**15**	Years
THE NETHERLANDS	**20**	Years
GERMANY	**03**	Years

GEP’s Mission

GEP’s ambition is to develop and supply systems for decentralised environmentally sound water management. In doing so we want to improve the quality of the water, reuse the water and prevent flooding. GEP wants to deliver sustainable, safe and source directed water system with and for our clients, where price, environment and savings form a perfect balance. This way GEP wants to make the disconnection and the usage of rain water accessible for everybody.

We are happy to help you.

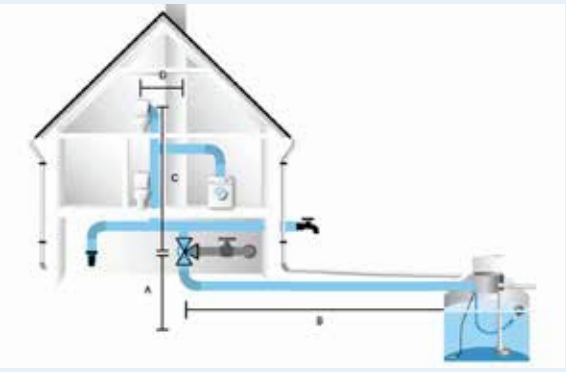
GEP has a broad and high-quality assortment with which a suitable water system can be put together for every project.

Fred Prins
-GEP Advisor-

Our activities and products.

- Rainwater
- Disconnection & infiltration
- Wastewater
- Greywater
- Breaktanks
- Drinkingwater
- Price list

www.regenwater.com/rekenmodule



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Calculate your rainwater system quickly online

GEP rethinking water

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