

Installation, Operation and Maintenance Manual. DrainKing Range

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INSTALLATION GUIDELINES:

The DrainKing should be positioned on a firm level surface. The unit must be located lower than the outflow of the appliances served so as to provide a gravity fall into the unit. It is extremely important to site the DrainKing with access in mind in the event of maintenance being required.

ON DELIVERY:

Remove lid, check pump is correctly positioned and connecting pipework has not been damaged in transit.

INLET CONNECTIONS:

Inlets can be positioned on the DrainKing to suit your site requirements. All inverts should be brought into the tank (using tank connectors) at the highest possible level from the floor. (See technical info on each product for minimum invert level)

NOTE:

No connections to be put through the lid as this inhibits easy removal of the lid for cleaning tank. (Note: tank MUST be positioned in such a way that lid can be removed easily to allow access to tank interior and pump cleaning)

DISCHARGE CONNECTION:

The tank has a BSP male thread discharge. See above details on discharge size. Two brass non-return valves supplied fitted inside tank. All pipework must be run in UPVC solvent weld.

IMPORTANT:

Any bends in the rising main must be slow radius swept 90's. If the discharge pipework connects to a soil stack, manhole, etc. below the discharge outlet of the tank, an anti-syphon valve must be fitted to the highest point of the discharge pipework.

ELECTRICAL CONNECTION:

A qualified person in accordance with the Institute Of Electrical Engineers Regulations should connect the unit to the appropriate mains supply taking into account all the electrical information provided.

IMPORTANT:

All pump systems must be used with an appropriate motor rated protection device. Units require venting. If vent to atmosphere cannot be achieved a 2" vent pipe must be run off the side of the tank to the ceiling void and connected to a Microvent.

MAINTENANCE:

Depending on the environment it is recommend that the unit be cleaned every 4 weeks. It is recommended that the unit be rinsed through with warm water and any fat or grease deposits be removed from the tank. (Commercial environments should be installed with a Greasetrap, please see our range) Service should be done on a 6 to 12 month basis. Please contact our sales office for a service and maintenance contract.

DRAINING 30 TWIN (240V) (Duty/Standby Wastewater Pumping System with Control Panel)



DrainKing 30 Twin (240V) Part No. 170/NS
 (Duty/Standby Wastewater Pumping System with
 Control Panel)

General Description:

DrainKing 30 Twin (240V) features a heavy-duty tank and submersible pump for automatically pumping wastewater from commercial kitchens, multiple sinks, dishwashers etc.

The DrainKing Twin provides users with the additional security of duty / standby operation. If one pump should become blocked or fail, the wastewater would rise within the common tank, and activate the high-level alarm. The control panel would start the other pump as the standby pump.



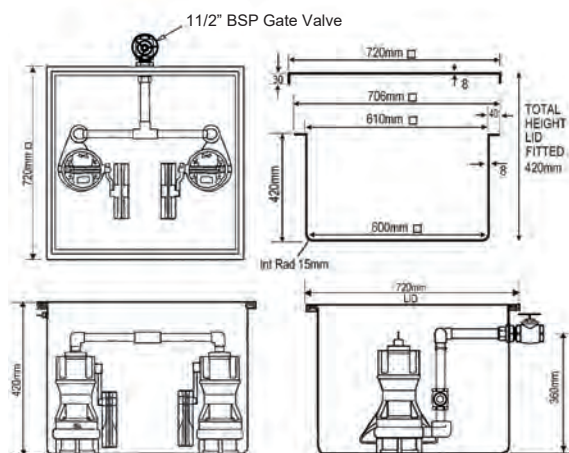
Control Panel:

The DrainKing Twin is supplied with a pump station control panel and a single high-level finger float. The duty pump is automatically alternated after every pump operation. If the high-level alarm is activated the standby pump would become operational. The panel features door isolation switch, pump 1 or 2 operational/tripped lights, alarm buzzer (minimum volume of 80 Dba at 1m distance) alarm on/off switch, 3 off volt free ports for BMS connection.

A rechargeable battery is fitted in case of mains electricity supply failure.

DRAINING 30 TWIN (240V) (Duty/Standby Wastewater Pumping System with Control Panel)

Dimensions mm



Tank:

Manufactured from GRP and fully rigged with internal pipe work, gate valve and non-return valves.

Tank Inlets:

To suit site layout, all inverts should be brought into the side of the tank by drilling a hole and using an appropriate tank connector. Minimum invert height 110 mm.

Tank Outlet:

Fitted 1 1/2" BSP male thread discharge outlet (Gate Valve supplied female thread)

Tank Venting:

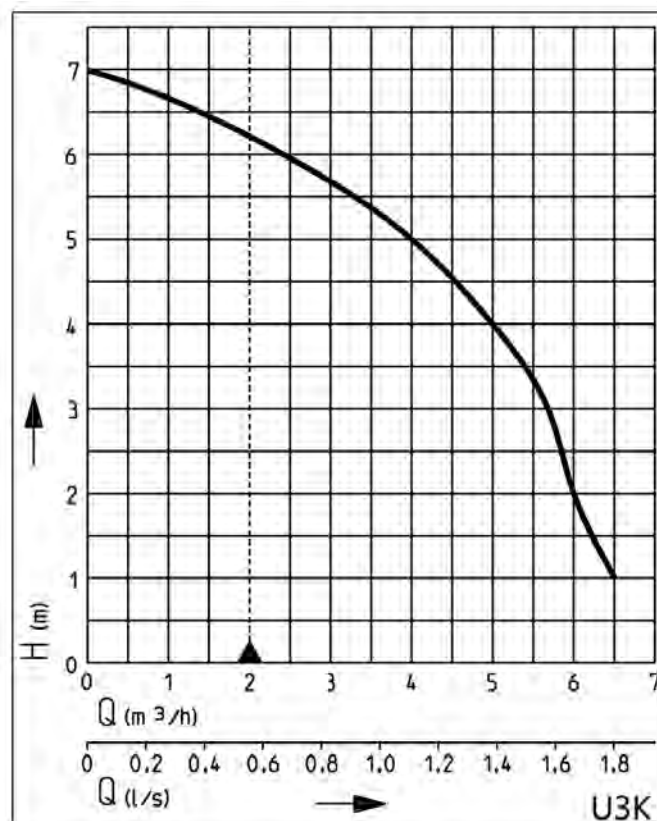
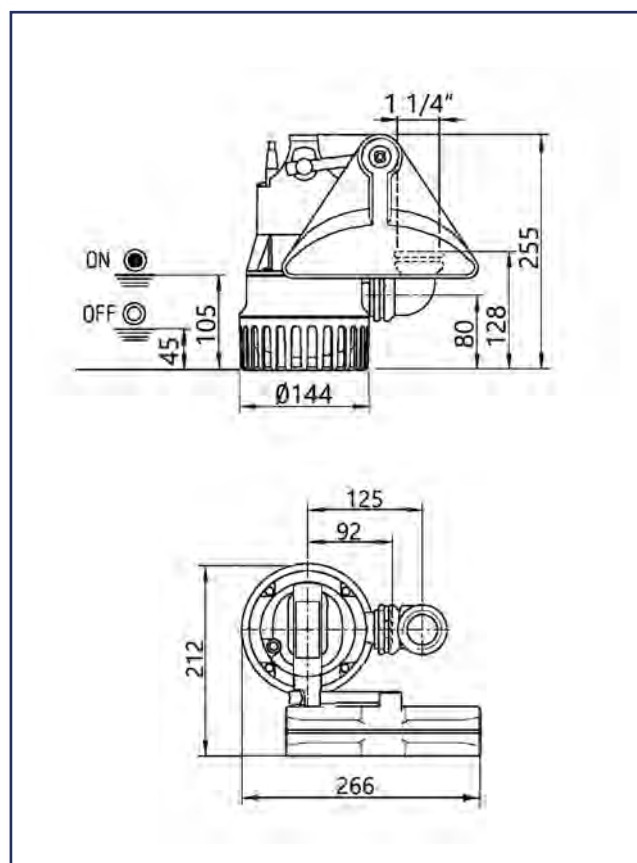
To suit site layout, a vent should be taken from the side of the tank by drilling a hole and using an appropriate tank connector. Vent pipe should be 1 1/4" min. to air or via a Pump Technology MicroVent.

DRAINING 30 TWIN (240V)
(Duty/Standby Wastewater Pumping
System with Control Panel)
Pump:

- Cooling jacket for motor housing
- Flushing device activatable and deactivatable
- Variable discharge branch with closable ventilation
- Run dry protection
- EIP Technology
- Moisture sealed cable inlet
- Fluid temperature 35 °C, temporarily 60 °C (10 min.)

Description:

The heavy duty centrifugal submersible drainage pump U3 KS is suitable for dealing with wastewater and capable of handling soft solids up to 10mm in particle size.


Dimensions/switching points U3 (mm)


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DRAINKing 30 TWIN (240V) (Duty/Standby Wastewater Pumping System with Control Panel)

Scope of Supply

Pump ready for connection acc. to EN 12050 with 90°, 1¼" female connection elbow, 4m cable and automatic level float switch.

Mechanical Data

Pump	Vertical single stage
Free Passage	10 mm
Bearing	Ball bearing, grease-lubricated
Seal on motor side	Rotary shaft seal
Oil chamber	Yes
Seal on medium side	2-fold rotary shaft seal

Run dry protection	Yes
Shaft	Stainless Steel
Impeller	Vortex impeller, GFK
Motor housing	Stainless Steel
Pump housing	GRP
Submersible	Yes
Pressure outlet	1¼"

Electrical Data

Voltage	1/N/PE-230V
Motor rating P1	0.32kW
Motor rating P2	0.2kW
Current	1.4A
Type of enclosure	IP 68

Insulation class	F
Winding thermostat	Yes
Motor protection	Integrated
Plug	Safety

U3

Type	Code No.	Power line	Wires	Weight
With built-in level control				
U3 KS, 4m cable	JP50000	4m H07RN-F	3G1,0	5.5kg

Notes:

- This unit is for wastewater only
- Ensure the location of the DrainKing enables the lid to be easily removed for regular inspection and maintenance
- If the discharge pipework connection to a soil stack, manhole etc. is below the discharge outlet of the tank, an anti-syphon unit must be fitted at the highest point of the discharge pipework
- Warranty: The DrainKing 30 Twin (240V) comes complete with a one year warranty.

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DrainKing 30 Twin (240V) Part No. 170/NS Data Sheet Rev. 1 31.01.2023

DRAINING 30 SL TWIN (240V) **(Duty/Standby Wastewater Pumping System with Control Panel)**



DrainKing 30 SL Twin (240V) Part No 171/NS (Wastewater Pumping System with control panel. Ideal for wastewater containing mildly corrosive chemicals. 20 parts per million concentration)

General Description:

DrainKing 30 SL Twin (240V) features a heavy-duty tank and submersible pump for automatically pumping wastewater. This small pump features a shaft mechanical seal rather than lip seals, therefore it is suitable for applications like - Laboratories, vets, dentists, hairdresser, janitor sinks and coffee shops where excess coffee granules and milk skin is being washed down a sink



The DrainKing Twin provides users with the additional security of duty / standby operation. If one pump should become blocked or fail, the wastewater would rise within the common tank, and activate the high-level alarm. The control panel would start the other pump as the standby pump.

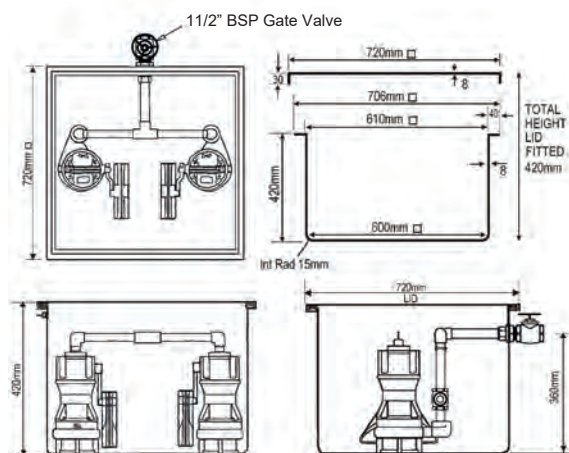
Control Panel:

The DrainKing Twin is supplied with a pump station control panel and a single high-level finger float. The duty pump is automatically alternated after every pump operation. If the high-level alarm is activated the standby pump would become operational. The panel features door isolation switch, pump 1 or 2 operational/tripped lights, alarm buzzer (minimum volume of 80 Dba at 1m distance) alarm on/off switch, 3 off volt free ports for BMS connection.

A rechargeable battery is fitted in case of mains electricity supply failure.

DRAINING 30 SL TWIN (240V) (Duty/Standby Wastewater Pumping System with Control Panel)

Dimensions mm



Tank:

Manufactured from GRP and fully rigged with internal pipe work, gate valve and non-return valves.

Tank Inlets:

To suit site layout, all inverts should be brought into the side of the tank by drilling a hole and using an appropriate tank connector. Minimum invert height 110 mm.

Tank Outlet:

Fitted 1 1/2" BSP male thread discharge outlet (Gate Valve supplied female thread)

Tank Venting:

To suit site layout, a vent should be taken from the side of the tank by drilling a hole and using an appropriate tank connector. Vent pipe should be 1 1/4" min. to air or via a Pump Technology MicroVent.

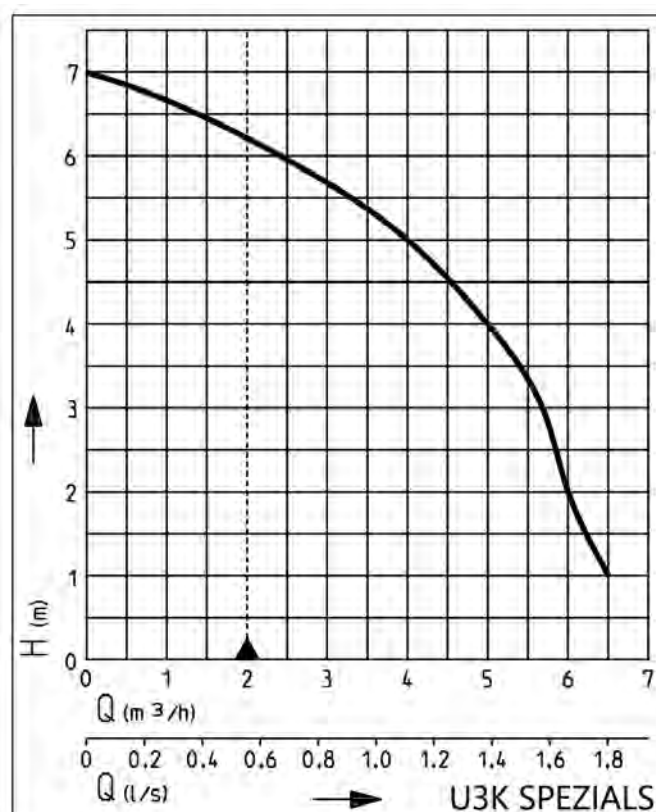
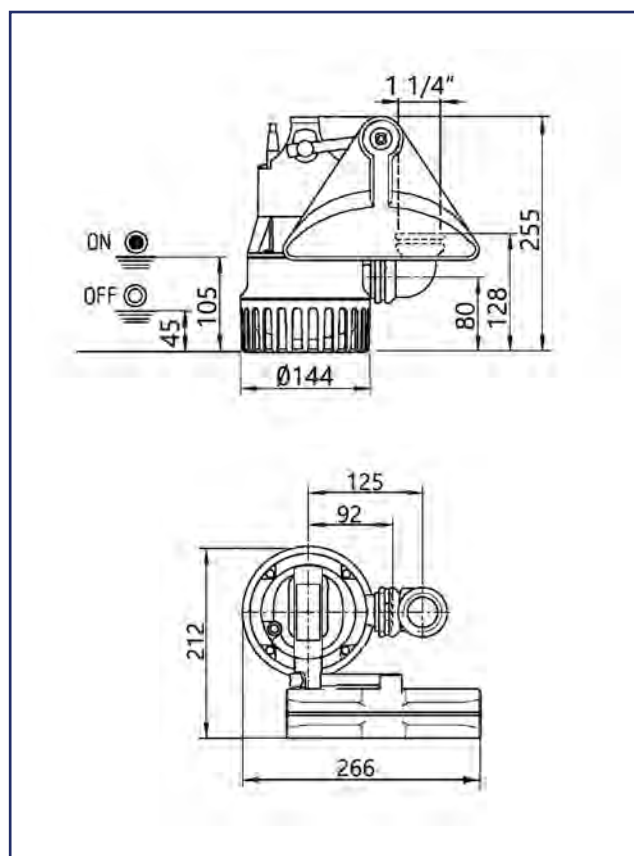
DRAINING 30 SL TWIN (240V)
(Duty/Standby Wastewater Pumping
System with Control Panel)
Pump:

- For saline solutions up to 15 % salinity
- Cooling jacket for motor housing
- Low level pumping by detachable strainer base
- Flushing device activatable and deactivatable
- Variable discharge branch with closable ventilation
- Run dry protection
- EIP Technology
- SiC mechanical seal
- Moisture sealed cable inlet


Description:

The heavy duty centrifugal submersible drainage pump U3K SPEZIAL is suitable for dealing with wastewater and capable of handling soft solids up to 10mm in particle size.

The U3K SPEZIAL is a variant of the U3k (with Mechanical shaft seal) and designed to pump wastewater containing mildly corrosive chemicals (20 parts per million concentration)

Dimensions/switching points U3 KS (mm)


DRAINING 30 SL TWIN (240V) (Duty/Standby Wastewater Pumping System with Control Panel)

Scope of Supply

Pump ready for connection acc. to EN 12050 with 90°, 1¼" female connection elbow, 4m cable with automatic level float switch.

Mechanical Data

Pump	Vertical single stage	Run dry protection	Yes
Free Passage	10 mm	Shaft	Stainless Steel
Bearing	Ball bearing, grease-lubricated	Impeller	Vortex impeller, GFK
Seal on motor side	Rotary shaft seal	Motor housing	Stainless Steel
Oil chamber	Yes	Pump housing	GRP
Seal on medium side	SiC mechanical seal	Submersible	Yes
		Pressure outlet	1¼"

Electrical Data

Voltage	1/N/PE-230V	Type of enclosure	IP 68
Motor rating P1	0.32kW	Insulation class	B
Motor rating P2	0.2kW	Winding thermostat	Yes
Current	1.4A	Motor protection	Integrated
Type of enclosure	3G1,0	Plug	Safety

U3 SPEZIAL

Type	Code No.	Power line	Weight
With built-in level control			
U3 KS spezial, 4m cable	JP50005	4m H07RN-F	3.7kg

Notes:

- This unit is for wastewater only
- Ensure the location of the DrainKing enables the lid to be easily removed for regular inspection and maintenance
- If the discharge pipework connection to a soil stack, manhole etc. is below the discharge outlet of the tank, an anti-syphon unit must be fitted at the highest point of the discharge pipework
- Warranty: The DrainKing 30 SL Twin (240V) comes complete with a one year warranty.

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DrainKing 30 SL Twin (240V) Part No. 171/NS Data Sheet Rev. 1 31.01.2023

DRAINING 60 TWIN (240V) (Duty/Standby Wastewater Pumping System with Control Panel)



DrainKing 60 Twin (240V) Part No. 173/NS
 (Duty/Standby Wastewater Pumping System with
 Control Panel)

General Description:

DrainKing 60 Twin (240V) features a heavy-duty tank and submersible pump for automatically pumping wastewater from commercial kitchens, multiple sinks, dishwashers etc.

The DrainKing Twin provides users with the additional security of duty / standby operation. If one pump should become blocked or fail, the wastewater would rise within the common tank, and activate the high-level alarm. The control panel would start the other pump as the standby pump.



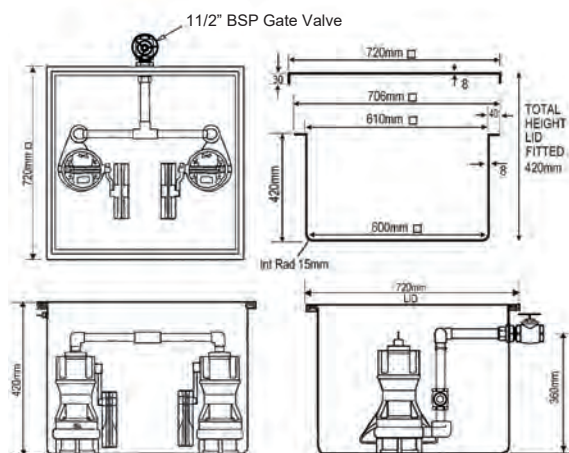
Control Panel:

The DrainKing Twin is supplied with a pump station control panel and a single high-level finger float. The duty pump is automatically alternated after every pump operation. If the high-level alarm is activated the standby pump would become operational. The panel features door isolation switch, pump 1 or 2 operational/tripped lights, alarm buzzer (minimum volume of 80 Dba at 1m distance) alarm on/off switch, 3 off volt free ports for BMS connection.

A rechargeable battery is fitted in case of mains electricity supply failure.

DRAINING 60 TWIN (240V) (Duty/Standby Wastewater Pumping System with Control Panel)

Dimensions mm



Tank:

Manufactured from GRP and fully rigged with internal pipe work, gate valve and non-return valves.

Tank Inlets:

To suit site layout, all inverts should be brought into the side of the tank by drilling a hole and using an appropriate tank connector. Minimum invert height 120 mm.

Tank Outlet:

Fitted 1 1/2" BSP male thread discharge outlet (Gate Valve supplied female thread)

Tank Venting:

To suit site layout, a vent should be taken from the side of the tank by drilling a hole and using an appropriate tank connector. Vent pipe should be 1 1/4" min. to air or via a Pump Technology MicroVent.

DRAINING 60 TWIN (240V) (Duty/Standby Wastewater Pumping System with Control Panel)

Pump:

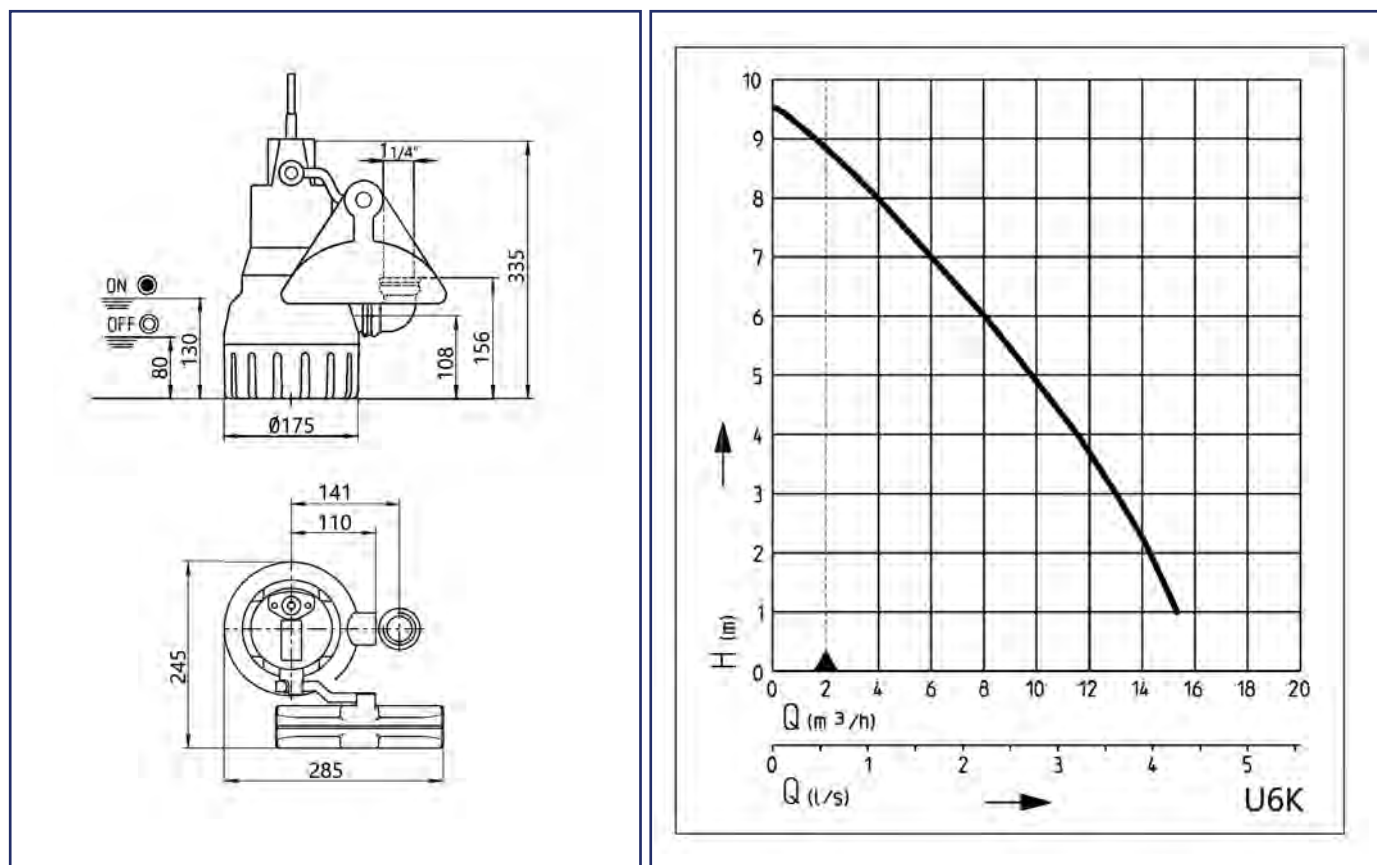
- Safe to run dry
- 20 mm free passage with EIP technology
- Cooling jacket for motor housing
- SiC mechanical seal independent of sense of rotation
- Replaceable moisture sealed cable inlet
- Flushing device
- Fluid temperature 35°C, temporarily 60°C (10 mins)

Description:

The heavy duty centrifugal submersible drainage pump U6K ES is suitable for dealing with wastewater and capable of handling soft solids up to 20mm in particle size.



Dimensions/switching points U6K ES (mm)



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DRAINING 60 TWIN (240V) (Duty/Standby Wastewater Pumping System with Control Panel)

Scope of Supply

Pump ready for connection acc. to EN 12050 with 90°, 1¼" female connection elbow, 4m cable with automatic level float switch.

Mechanical Data			
Pump	Vertical single stage	Run dry protection	Yes
Free Passage	20 mm	Shaft	Stainless Steel
Bearing	Ball bearing, grease-lubricated	Impeller	Vortex impeller, GFK
Seal on motor side	Rotary shaft seal	Motor Housing	Stainless Steel
Oil chamber	Yes	Submersible	Yes
Seal on medium side	SiC mechanical seal	Pressure outlet	1¼"
Electrical Data			
Motor Rating P1	0.75kW	Winding thermostat	Yes
Type of enclosure	IP 68	Motor protection	Integrated
Insulation Class	B		

U6K ES

Type	Code No.	Voltage	Motor rating P2	Current	Power line	Wires	Plug	Weight
With built-in level control								
U6K ES, 4m cable	JP00227	1/N/PE-230V	0.50kW	3.3A	4m H07RN-F	3G1,0	Safety	5.5kg

Notes:

- This unit is for wastewater only
- Ensure the location of the DrainKing enables the lid to be easily removed for regular inspection and maintenance
- If the discharge pipework connection to a soil stack, manhole etc. is below the discharge outlet of the tank, an anti-syphon unit must be fitted at the highest point of the discharge pipework
- Warranty: The DrainKing 60 Twin (240V) comes complete with a one year warranty.

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DrainKing 60 Twin (240V) Part No. 173/NS Data Sheet Rev. 1 20.12.2022

DRAINING 60 TWIN (3ph) (Duty/Standby Wastewater Pumping System with Control Panel)



DrainKing 60 Twin (3ph) Part No. 172/NS
 (Duty/Standby Wastewater Pumping System with
 Control Panel)

General Description:

DrainKing 60 Twin (3ph) features a heavy-duty tank and submersible pump for automatically pumping wastewater from commercial kitchens, multiple sinks, dishwashers etc.

The DrainKing Twin provides users with the additional security of duty/standby operation. If one pump should become blocked or fail, the wastewater would rise within the common tank, and activate the high-level alarm. The control panel would start the other pump as the standby pump.



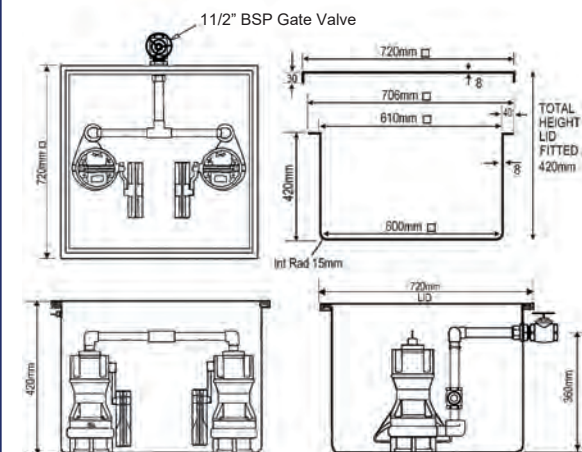
Control Panel:

The DrainKing Twin is supplied with a pump station control panel and a single high-level finger float. The duty pump is automatically alternated after every pump operation. If the high-level alarm is activated the standby pump would become operational. The panel features door isolation switch, pump 1 or 2 operational/tripped lights, alarm buzzer (minimum volume of 80 Dba at 1m distance) alarm on/off switch, 3 off volt free ports for BMS connection.

A rechargeable battery is fitted in case of mains electricity supply failure.

DRAINING 60 TWIN (3ph) (Duty/Standby Wastewater Pumping System with Control Panel)

Dimensions mm



Tank:

Manufactured from GRP and fully rigged with internal pipe work, gate valve and non-return valves.

Tank Inlets:

To suit site layout, all inverts should be brought into the side of the tank by drilling a hole and using an appropriate tank connector. Minimum invert height 120 mm.

Tank Outlet:

Fitted 1 1/2" BSP male thread discharge outlet (Gate Valve supplied female thread)

Tank Venting:

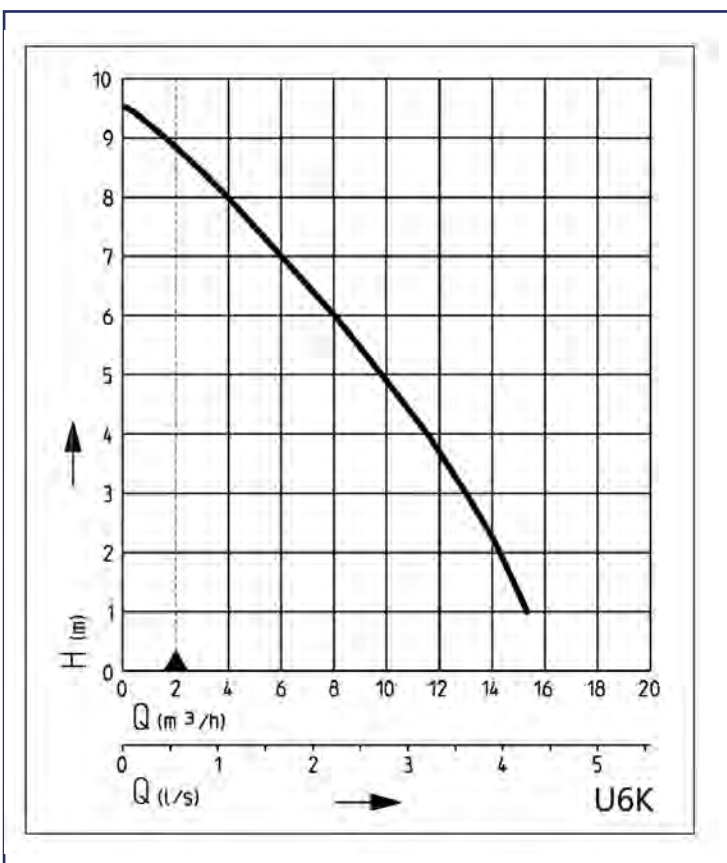
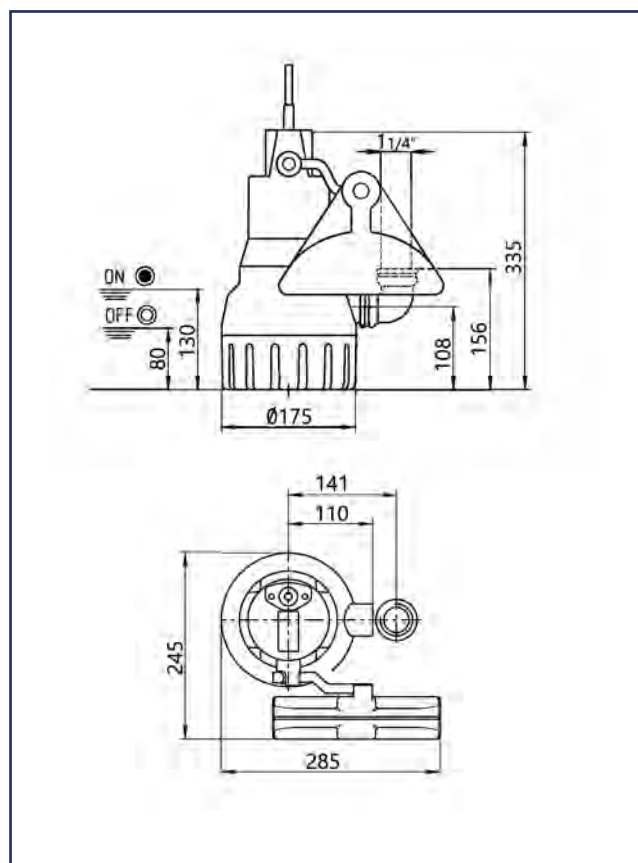
To suit site layout, a vent should be taken from the side of the tank by drilling a hole and using an appropriate tank connector. Vent pipe should be 1 1/4" min. to air or via a Pump Technology MicroVent.

**DRAINING 60 TWIN (3ph)
 (Duty/Standby Wastewater Pumping
 System with Control Panel)**
Pump:

- Safe to run dry
- 20 mm free passage with EIP technology
- Cooling jacket for motor housing
- SiC mechanical seal independent of sense of rotation
- Replaceable moisture sealed cable inlet
- Flushing device
- Fluid temperature 35°C, temporarily 60°C (10 mins)


Description:

The heavy duty centrifugal submersible drainage pump U6K DS is suitable for dealing with wastewater and capable of handling soft solids up to 20mm in particle size.

Dimensions/switching points U6K DS (mm)


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DRAINING 60 TWIN (3ph) (Duty/Standby Wastewater Pumping System with Control Panel)

Scope of Supply

Pump ready for connection acc. to EN 12050 with 90°, 1¼" female connection elbow, 4m cable with automatic level float switch.

Mechanical Data

Pump	Vertical single stage	Run dry protection	Yes
Free passage	20 mm	Shaft	Stainless Steel
Bearing	Ball bearing, grease-lubricated	Impeller	Vortex impeller, GFK
Seal on motor side	Rotary shaft seal	Motor housing	Stainless Steel
Oil chamber	Yes	Submersible	Yes
Seal on medium side	SiC mechanical seal	Pressure outlet	1¼"

Electrical Data

Motor rating P1	0.75kW	Winding thermostat	Yes
Type of enclosure	IP 68	Motor protection	Integrated
Insulation Class	B		

U6K ES

Type	Code No.	Voltage	Motor rating P2	Current	Power line	Wires	Plug	Weight
With built-in level control								
U6K DS, 4m cable	JP00229	3/PE-400V	0.55kW	1.3A	4m H07RN-F	4G1,0	CEE	5.9kg

Notes:

- This unit is for wastewater only
- Ensure the location of the DrainKing enables the lid to be easily removed for regular inspection and maintenance
- If the discharge pipework connection to a soil stack, manhole etc. is below the discharge outlet of the tank, an anti-syphon unit must be fitted at the highest point of the discharge pipework
- Warranty: The DrainKing 60 Twin (3ph) comes complete with a one year warranty.

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DRAINING 730 TWIN (240V) (Duty/Standby Wastewater Pumping System with Control Panel)



DrainKing 730 Twin (240V) Part No. 175/NS
 (Duty/Standby Wastewater Pumping System with
 Control Panel)

General Description:

DrainKing 730 Twin (240V) features a heavy-duty tank and submersible pump for automatically pumping wastewater from commercial kitchens, multiple sinks, dishwashers etc.

The DrainKing Twin provides users with the additional security of duty/standby operation. If one pump should become blocked or fail, the wastewater would rise within the common tank, and activate the high-level alarm. The control panel would start the other pump as the standby pump.



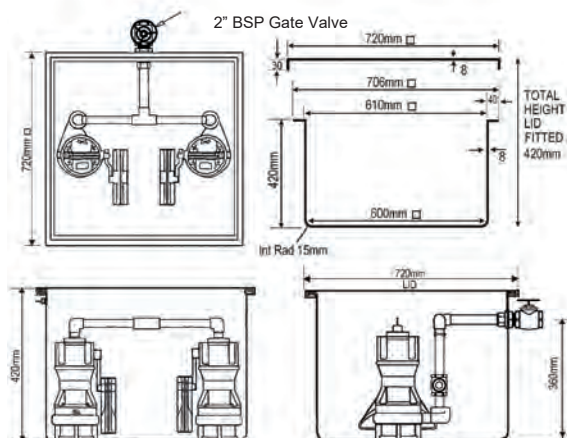
Control Panel:

The DrainKing Twin is supplied with a pump station control panel and a single high-level finger float. The duty pump is automatically alternated after every pump operation. If the high-level alarm is activated the standby pump would become operational. The panel features door isolation switch, pump 1 or 2 operational/tripped lights, alarm buzzer (minimum volume of 80 Dba at 1m distance) alarm on/off switch, 3 off volt free ports for BMS connection.

A rechargeable battery is fitted in case of mains electricity supply failure.

DRAINING 730 TWIN (240V) (Duty/Standby Wastewater Pumping System with Control Panel)

Dimensions mm



Tank:

Manufactured from GRP and fully rigged with internal pipe work, gate valve and non-return valves.

Tank Inlets:

To suit site layout, all inverts should be brought into the side of the tank by drilling a hole and using an appropriate tank connector. Minimum invert height 155 mm.

Tank Outlet:

Fitted 2" BSP male thread discharge outlet (Gate Valve supplied female thread)

Tank Venting:

To suit site layout, a vent should be taken from the side of the tank by drilling a hole and using an appropriate tank connector. Vent pipe should be 1¼" min. to air or via a Pump Technology MicroVent.

DRAINING 730 TWIN (240V) (Duty/Standby Wastewater Pumping System with Control Panel)

Pump:

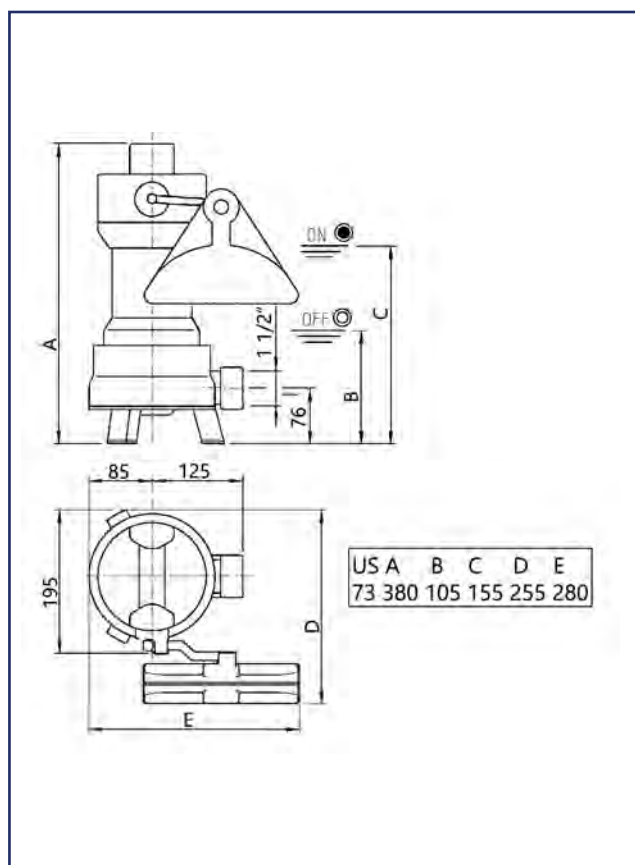
- Safe to run dry
- 30 mm free passage
- Controllable oil chamber
- SiC mechanical seal independent of sense of rotation
- Replaceable moisture sealed cable inlet
- Fluid temperature 35°C, temporarily 60°C (10 mins)

Description:

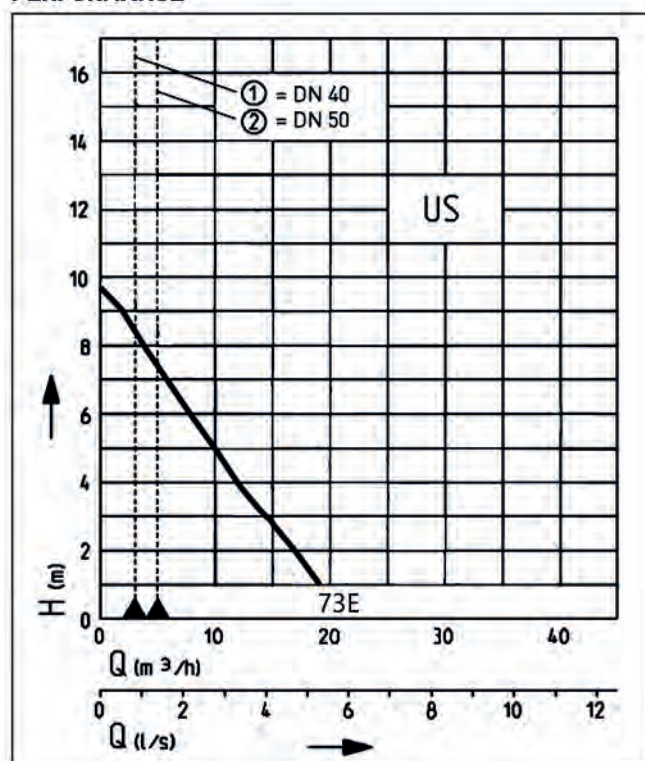
The heavy duty centrifugal submersible drainage pump US 73 ES is suitable for dealing with wastewater and capable of handling soft solids up to 30 mm particle size.



Dimensions/switching points US 73 ES (mm)



PERFORMANCE



DRAINING 730 TWIN (240V) (Duty/Standby Wastewater Pumping System with Control Panel)

Scope of Supply

Pump according to DIN EN 12050 ready for connection with 4m cable and automatic level float switch.

Mechanical Data

Pump	Vertical single stage	Shaft	Stainless Steel
Bearing	Ball bearing, grease-lubricated	Impeller	Vortex impeller, GFK
Seal on motor side	Duplex rotary shaft seals	Motor housing	Edelstahl (253: Grauguss)
Oil chamber	Yes	Pump housing	Grey cast iron
Seal on medium side	SiC Mechanical seal	Submersible	Yes
Run dry protection	Yes	Pressure outlet	IG 1½" (US253:2")

Electrical Data

Power line	10m H07RN-F	Insulation class	B (253:F)
Type of enclosure	IP68	Winding thermostat	Yes

US 73 ES

Type	Code No.	Voltage	Motor rating P1	Motor rating P2	Current	Wires	Motor protection	Plug	Free passage	Weight
With built-in level control										
US 73 ES	JP00678	1/N/PE-230V	0.83kW	0.50kW	3.9A	3G1,0	Integrated	Safety	30 mm	12.5kg

Notes:

- This unit is for wastewater only
- Ensure the location of the DrainKing enables the lid to be easily removed for regular inspection and maintenance
- If the discharge pipework connection to a soil stack, manhole etc. is below the discharge outlet of the tank, an anti-siphon unit must be fitted at the highest point of the discharge pipework
- Warranty: The DrainKing 730 Twin (240V) comes complete with a one year warranty.

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DRAINKing 730 TWIN (3ph) (Duty/Standby Wastewater Pumping System with Control Panel)



DrainKing 730 Twin (3ph) Part No. 174/NS
(Duty/Standby Wastewater Pumping System with
Control Panel)

General Description:

DrainKing 730 Twin (3ph) features a heavy-duty tank and submersible pump for automatically pumping wastewater from commercial kitchens, multiple sinks, dishwashers etc.

The DrainKing Twin provides users with the additional security of duty/standby operation. If one pump should become blocked or fail, the wastewater would rise within the common tank, and activate the high-level alarm. The control panel would start the other pump as the standby pump.



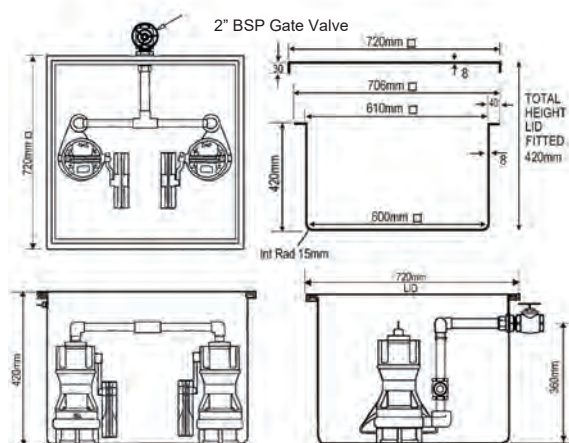
Control Panel:

The DrainKing Twin is supplied with a pump station control panel and a single high-level finger float. The duty pump is automatically alternated after every pump operation. If the high-level alarm is activated the standby pump would become operational. The panel features door isolation switch, pump 1 or 2 operational/tripped lights, alarm buzzer (minimum volume of 80 Dba at 1m distance) alarm on/off switch, 3 off volt free ports for BMS connection.

A rechargeable battery is fitted in case of mains electricity supply failure.

DRAINING 730 TWIN (3ph) (Duty/Standby Wastewater Pumping System with Control Panel)

Dimensions mm



Tank:

Manufactured from GRP and fully rigged with internal pipe work, gate valve and non-return valves.

Tank Inlets:

To suit site layout, all inverts should be brought into the side of the tank by drilling a hole and using an appropriate tank connector. Minimum invert height 155 mm.

Tank Outlet:

Fitted 2" BSP male thread discharge outlet (Gate Valve supplied female thread)

Tank Venting:

To suit site layout, a vent should be taken from the side of the tank by drilling a hole and using an appropriate tank connector. Vent pipe should be 1¼" min. to air or via a Pump Technology MicroVent.

DRAINING 730 TWIN (3ph) (Duty/Standby Wastewater Pumping System with Control Panel)

Pump:

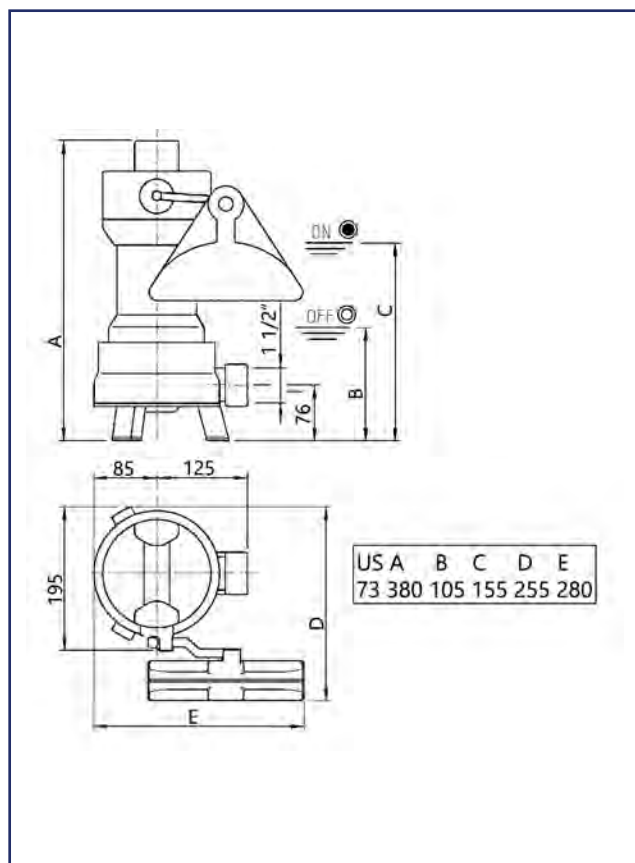
- Safe to run dry
- 30 mm free passage
- Controllable oil chamber
- SiC mechanical seal independent of sense of rotation
- Replaceable moisture sealed cable inlet
- Fluid temperature 35°C, temporarily 60°C (10 mins)

Description:

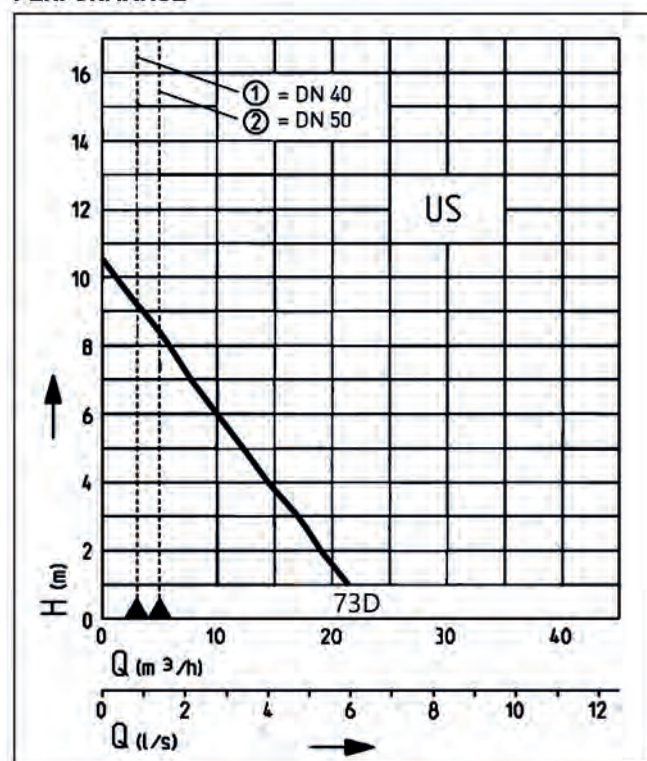
The heavy duty centrifugal submersible drainage pump US 73 DS is suitable for dealing with wastewater and capable of handling soft solids up to 30 mm particle size.



Dimensions/switching points US 73 DS (mm)



PERFORMANCE



DRAINING 730 TWIN (3ph) (Duty/Standby Wastewater Pumping System with Control Panel)

Scope of Supply

Pump according to DIN EN 12050 ready for connection with 4m cable and automatic level float switch.

Mechanical Data

Pump	Vertical single stage	Shaft	Stainless Steel
Bearing	Ball bearing, grease-lubricated	Impeller	Vortex impeller, GFK
Seal on motor side	Duplex rotary shaft seals	Motor Housing	Edelstahl (253: Grauguss)
Oil chamber	Yes	Pump Housing	Grey cast iron
Seal on medium side	SiC Mechanical seal	Submersible	Yes
Run dry protection	Yes	Pressure outlet	IG 1½" (US253:2")

Electrical Data

Power line	10m H07RN-F	Insulation class	B (253:F)
Type of enclosure	IP68	Winding thermostat	Yes

US 73 DS

Type	Code No.	Voltage	Motor rating P1	Motor rating P2	Current	Wires	Motor protection	Plug	Free passage	Weight
With built-in level control										
US 73 DS	JP00679	3/PE-400V	0.85kW	0.60kW	1.4A	4G1,0	Integrated	CEE	30 mm	13.0kg

Notes:

- This unit is for wastewater only
- Ensure the location of the DrainKing enables the lid to be easily removed for regular inspection and maintenance
- If the discharge pipework connection to a soil stack, manhole etc. is below the discharge outlet of the tank, an anti-syphon unit must be fitted at the highest point of the discharge pipework
- Warranty: The DrainKing 730 Twin (3ph) comes complete with a one year warranty.

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DrainKing 730 Twin (3ph) Part No. 174/NS Data Sheet Rev. 1 20.12.2022

DRAINING 730 HES TWIN (240V) (Duty/Standby Hot Wastewater Pumping System with Control Panel)



DrainKing 730 HES Twin (240V) Part No. 178/NS (Duty/Standby Hot Wastewater Pumping System with Control Panel. Continuously rated for 90°C Hot Wastewater)

General Description:

DrainKing 730 HES Twin (240V) features a heavy duty tank and submersible pump for automatically pumping "Hot Wastewater" from tea points with zip taps, commercial kitchens, sinks, dishwashers, combi ovens, pasta cookers, glasswashers, washing machines etc.

The DrainKing Twin provides users with the additional security of duty/standby operation. If one pump should become blocked or fail, the wastewater would rise within the common tank, and activate the high-level alarm. The control panel would start the other pump as the standby pump.



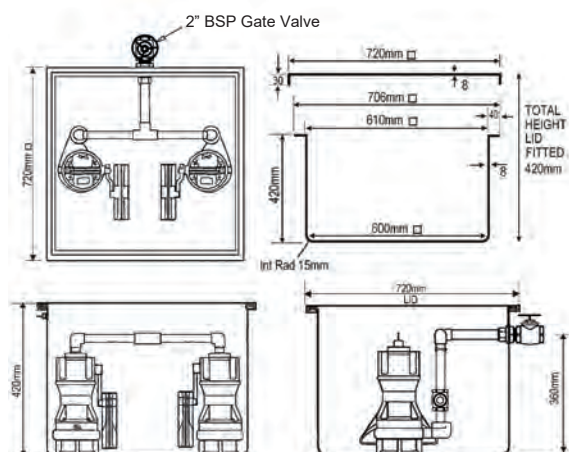
Control Panel:

The DrainKing Twin is supplied with a pump station control panel and a single high-level finger float. The duty pump is automatically alternated after every pump operation. If the high-level alarm is activated the standby pump would become operational. The panel features door isolation switch, pump 1 or 2 operational/tripped lights, alarm buzzer (minimum volume of 80 Dba at 1m distance) alarm on/off switch, 3 off volt free ports for BMS connection.

The alarm is designed for connection to a 240V supply. A rechargeable battery is fitted in case of mains electricity supply failure.

DRAINING 730 HES TWIN (240V) (Duty/Standby Hot Wastewater Pumping System with Control Panel)

Dimensions mm



Tank:

Manufactured from GRP and fully rigged with internal pipe work, gate valve and non-return valves.

Tank Inlets:

To suit site layout, all inverts should be brought into the side of the tank by drilling a hole and using an appropriate tank connector. Minimum invert height 155mm.

Tank Outlet:

Fitted 2" BSP male thread discharge outlet (Gate Valve supplied female thread)

Tank Venting:

To suit site layout, a vent should be taken from the side of the tank by drilling a hole and using an appropriate tank connector. Vent pipe should be 2" to air or via a Pump Technology MicroVent.

DRAINING 730 HES TWIN (240V) **(Duty/Standby Hot Wastewater** **Pumping System with Control Panel)**

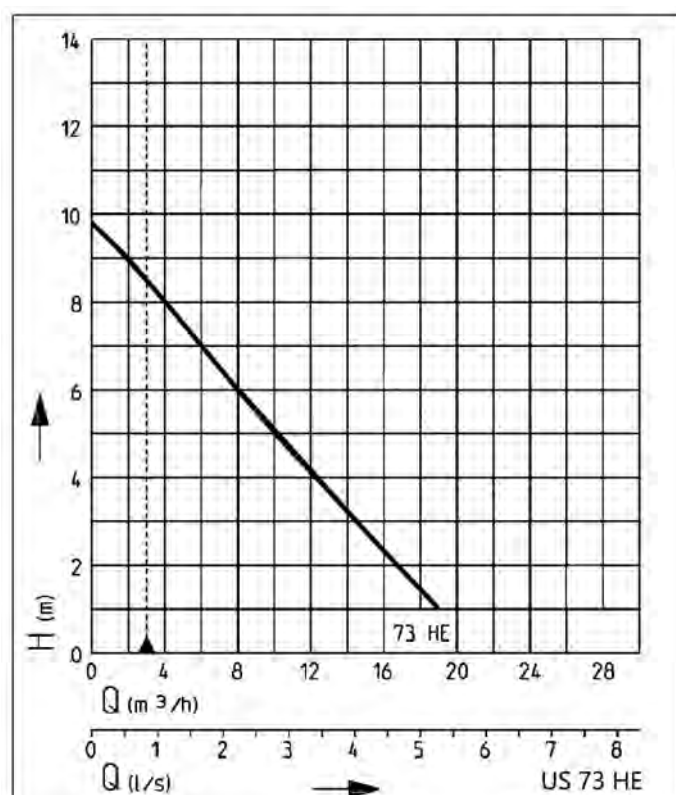
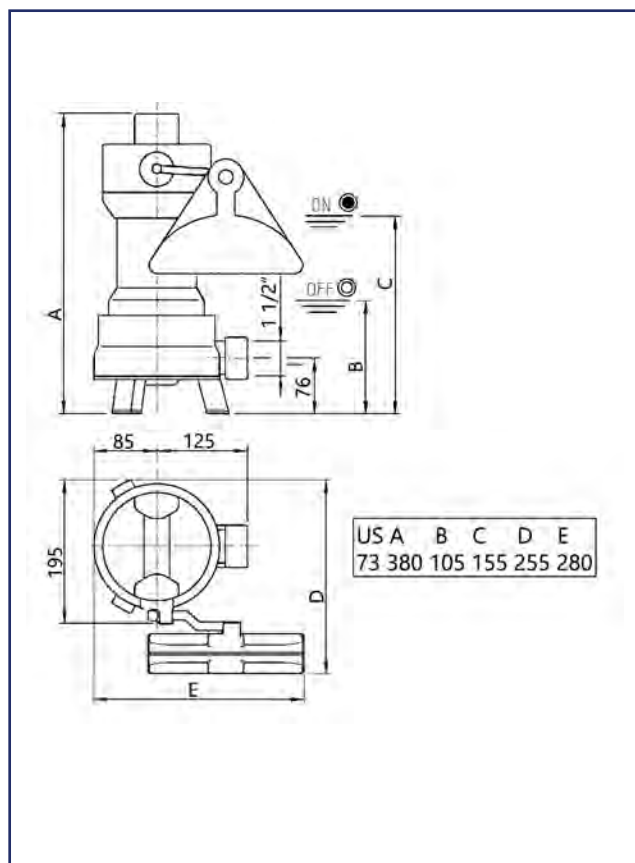
Pump:

- Safe to run dry
- 30 mm free passage
- Hot water up to 90°C (Rated for continuous operation)
- Controllable oil chamber
- SiC mechanical seal independent of sense of rotation
- Replaceable moisture sealed cable inlet

Description:

The heavy duty centrifugal submersible drainage pump US 73 HES is suitable for dealing with wastewater and capable of handling soft solids up to 30mm in particle size.

The Pump is rated for continuous operation for very hot wastewater up to 90°C.


Dimensions/switching points US 73 HES (mm)


DRAINING 730 HES TWIN (240V) (Duty/Standby Hot Wastewater Pumping System with Control Panel)

Scope of Supply

Pump acc. To EN 12050 ready for connection with 4m cable and automatic level float control.

Mechanical Data

Pump	Vertical single stage	Run dry protection	Yes
Free passage	30mm	Shaft	Stainless Steel
Bearing	Ball bearing, grease-lubricated	Impeller	Vortex impeller GFK
Seal on motor side	Duplex rotary shaft seals	Motor housing	Stainless Steel
Oil chamber	Yes	Pump housing	Grey cast iron
Seal on medium side	SiC Mechanical seal	Submersible	Yes
		Pressure outlet	IG 1½"

Electrical Data

Voltage	1/N/PE-230V	Insulation class	F
Power line	10m H07RN-F	Winding thermostat	Yes
Wires	3G1.0	Motor protection	Integrated
Type of enclosure	IP68	Plug	Safety

US 73 HES

Type	Code No.	Motor rating P1	Motor rating P2	Current	Weight
US 73 HES	JP09264	0.83kW	0.50kW	3.9A	12.5kg

Notes:

- This unit is for wastewater only
- Ensure the location of the DrainKing enables the lid to be easily removed for regular inspection and maintenance
- If the discharge pipework connection to a soil stack, manhole etc. is below the discharge outlet of the tank, an anti-syphon unit must be fitted at the highest point of the discharge pipework
- Warranty: The DrainKing 730 HES Twin (240V) comes complete with a one year warranty.

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DrainKing 730 HES Twin (240V) Part No. 178/NS Data Sheet Rev. 1 20.12.2022

DRAINKing 1030 TWIN (240V) (Duty/Standby Wastewater Pumping System with Control Panel)



DrainKing 1030 Twin (240V) Part No. 177/NS
(Duty/Standby Wastewater Pumping System with
Control Panel)

General Description:

DrainKing 1030 Twin (240V) features a heavy-duty tank and submersible pump for automatically pumping wastewater from commercial kitchens, multiple sinks, dishwashers etc.

The DrainKing Twin provides users with the additional security of duty/standby operation. If one pump should become blocked or fail, the wastewater would rise within the common tank, and activate the high-level alarm. The control panel would start the other pump as the standby pump.



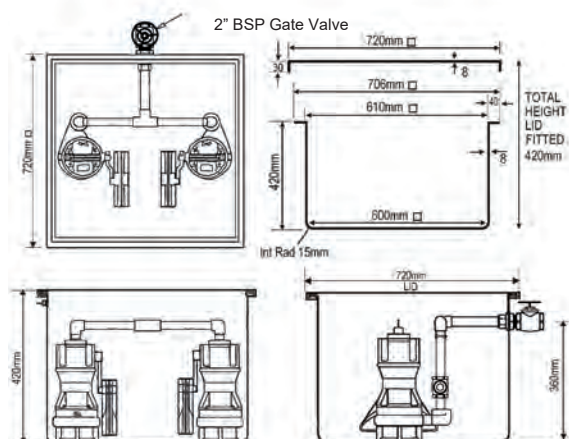
Control Panel:

The DrainKing Twin is supplied with a pump station control panel and a single high-level finger float. The duty pump is automatically alternated after every pump operation. If the high-level alarm is activated the standby pump would become operational. The panel features door isolation switch, pump 1 or 2 operational/tripped lights, alarm buzzer (minimum volume of 80 Dba at 1m distance) alarm on/off switch, 3 off volt free ports for BMS connection.

A rechargeable battery is fitted in case of mains electricity supply failure.

DRAINING 1030 TWIN (240V) (Duty/Standby Wastewater Pumping System with Control Panel)

Dimensions mm



Tank:

Manufactured from GRP and fully rigged with internal pipe work, gate valve and non-return valves.

Tank Inlets:

To suit site layout, all inverts should be brought into the side of the tank by drilling a hole and using an appropriate tank connector. Minimum invert height 185mm.

Tank Outlet:

Fitted 2" BSP male thread discharge outlet (Gate Valve supplied female thread)

Tank Venting:

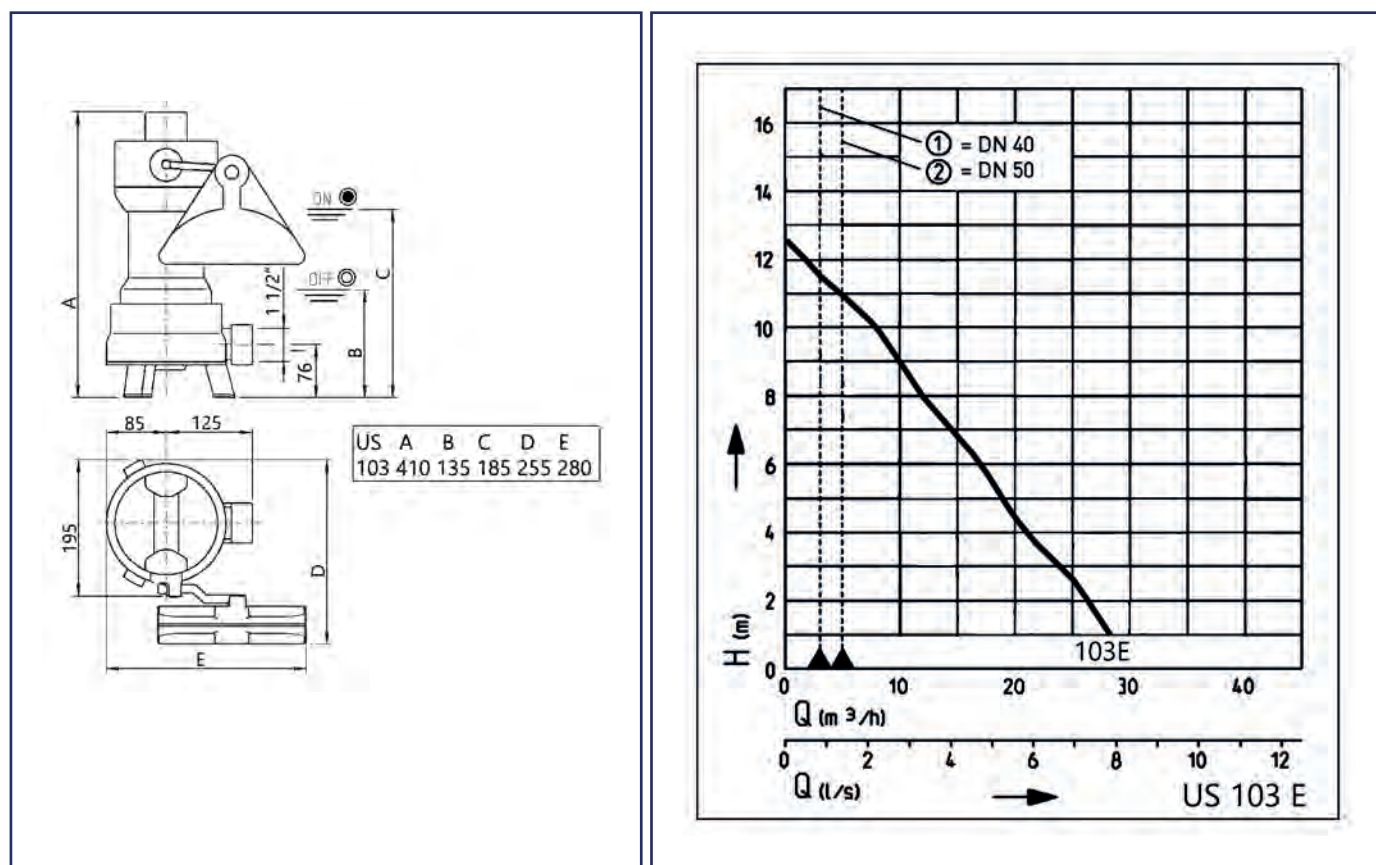
To suit site layout, a vent should be taken from the side of the tank by drilling a hole and using an appropriate tank connector. Vent pipe should be 1 1/4" min. to air or via a Pump Technology MicroVent.

DRAINING 1030 TWIN (240V)
(Duty/Standby Wastewater Pumping
System with Control Panel)
Pump:

- Safe to run dry
- 30 mm free passage
- Controllable oil chamber
- SiC mechanical seal independent of sense of rotation
- Replaceable moisture sealed cable inlet
- Fluid temperature 35°C, temporarily 60°C (10 mins)

Description:

The heavy duty centrifugal submersible drainage pump US 103 ES is suitable for dealing with wastewater and capable of handling soft solids up to 30 mm particle size.


Dimensions/switching points US 103 ES (mm)


DRAINING 1030 TWIN (240V) (Duty/Standby Wastewater Pumping System with Control Panel)

Scope of Supply

Pump according to DIN EN 12050 ready for connection with 4m cable and automatic level float switch.

Mechanical Data

Pump	Vertical single stage	Shaft	Stainless Steel
Bearing	Ball bearing, grease-lubricated	Impeller	Vortex impeller, GFK
Seal on motor side	Duplex rotary shaft seals	Motor Housing	Edelstahl (253: Grauguss)
Oil chamber	Yes	Pump Housing	Grey cast iron
Seal on medium side	SiC Mechanical seal	Submersible	Yes
Run dry protection	Yes	Pressure outlet	IG 1½" (US253:2")

Electrical Data

Power line	10m H07RN-F	Insulation class	B (253:F)
Type of enclosure	IP68	Winding thermostat	Yes

US 103 ES

Type	Code No.	Voltage	Motor rating P1	Motor rating P2	Current	Wires	Motor protection	Plug	Free passage	Weight
With built-in level control										
US 103 ES	JP09281	1/N/PE-230V	1.37kW	0.98kW	6.0A	3G1,0	Integrated	Safety	30 mm	14.0kg

Notes:

- This unit is for wastewater only
- Ensure the location of the DrainKing enables the lid to be easily removed for regular inspection and maintenance
- If the discharge pipework connection to a soil stack, manhole etc. is below the discharge outlet of the tank, an anti-syphon unit must be fitted at the highest point of the discharge pipework
- Warranty: The DrainKing 1030 Twin (240V) comes complete with a one year warranty.

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DRAINKing 1030 TWIN (3ph) (Duty/Standby Wastewater Pumping System with Control Panel)



DrainKing 1030 Twin (3ph) Part No. 176/NS
 (Duty/Standby Wastewater Pumping System with
 Control Panel)

General Description:

DrainKing 1030 Twin (3ph) features a heavy-duty tank and submersible pump for automatically pumping wastewater from commercial kitchens, multiple sinks, dishwashers etc.

The DrainKing Twin provides users with the additional security of duty/standby operation. If one pump should become blocked or fail, the wastewater would rise within the common tank, and activate the high-level alarm. The control panel would start the other pump as the standby pump.



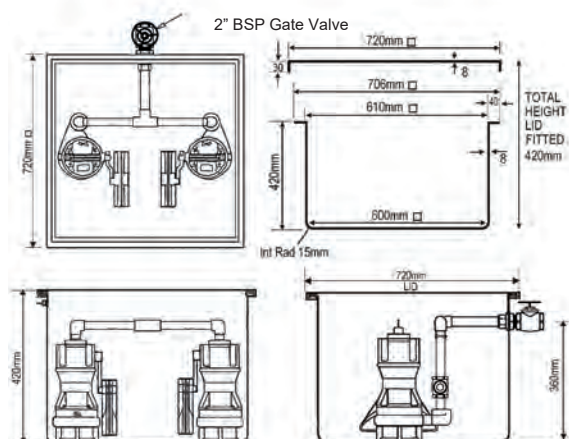
Control Panel:

The DrainKing Twin is supplied with a pump station control panel and a single high-level finger float. The duty pump is automatically alternated after every pump operation. If the high-level alarm is activated the standby pump would become operational. The panel features door isolation switch, pump 1 or 2 operational/tripped lights, alarm buzzer (minimum volume of 80 Dba at 1m distance) alarm on/off switch, 3 off volt free ports for BMS connection.

A rechargeable battery is fitted in case of mains electricity supply failure.

DRAINING 1030 TWIN (3ph) (Duty/Standby Wastewater Pumping System with Control Panel)

Dimensions mm



Tank:

Manufactured from GRP and fully rigged with internal pipe work, gate valve and non-return valves.

Tank Inlets:

To suit site layout, all inverts should be brought into the side of the tank by drilling a hole and using an appropriate tank connector. Minimum invert height 185mm.

Tank Outlet:

Fitted 2" BSP male thread discharge outlet (Gate Valve supplied female thread)

Tank Venting:

To suit site layout, a vent should be taken from the side of the tank by drilling a hole and using an appropriate tank connector. Vent pipe should be 1 1/4" min. to air or via a Pump Technology MicroVent.

DRAINING 1030 TWIN (3ph) (Duty/Standby Wastewater Pumping System with Control Panel)

Pump:

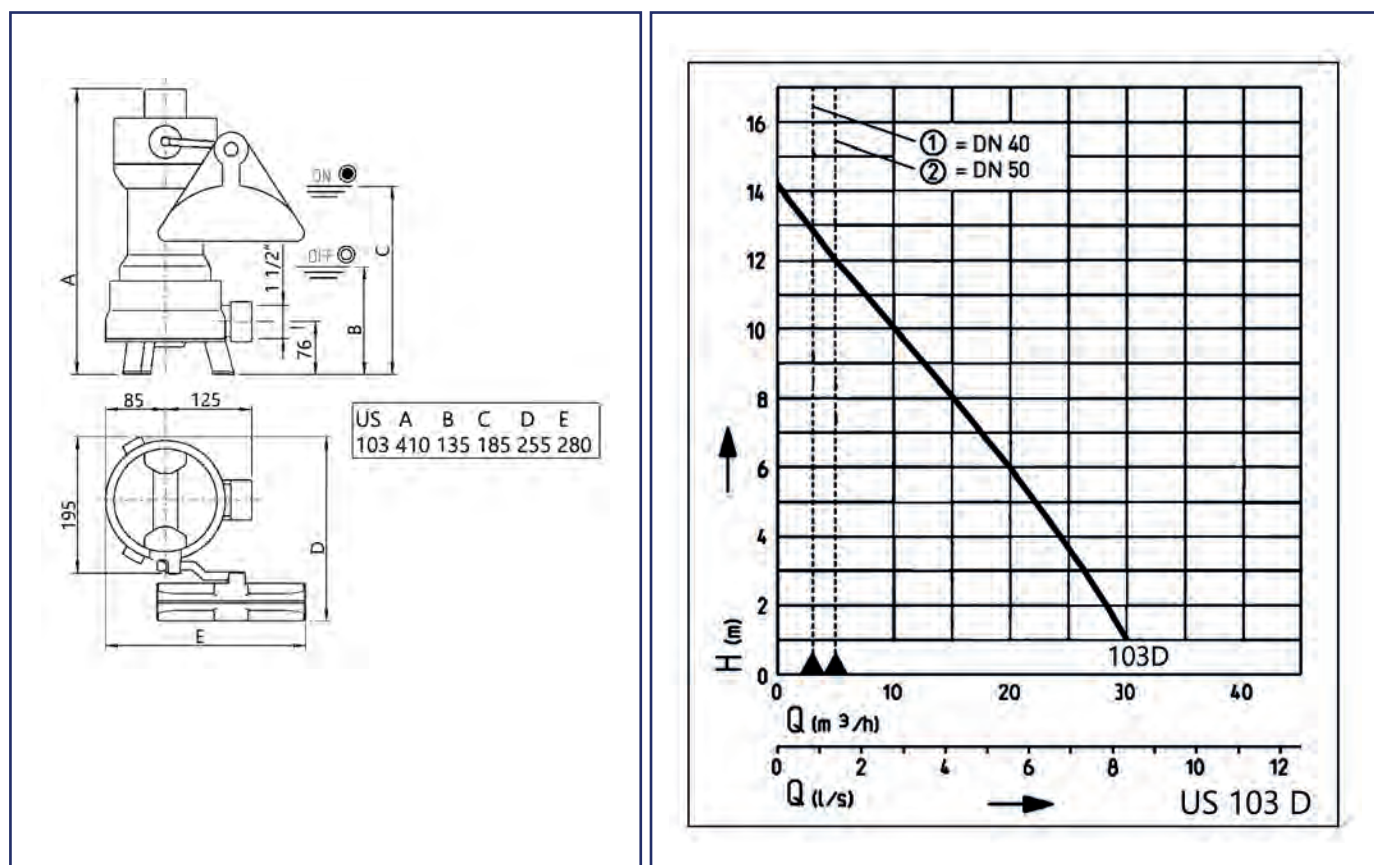
- Safe to run dry
- 30 mm free passage
- Controllable oil chamber
- SiC mechanical seal independent of sense of rotation
- Replaceable moisture sealed cable inlet
- Fluid temperature 35°C, temporarily 60°C (10 mins)

Description:

The heavy duty centrifugal submersible drainage pump US 103 DS is suitable for dealing with wastewater and capable of handling soft solids up to 30 mm particle size.



Dimensions/switching points US 103 DS (mm)



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DRAINING 1030 TWIN (3ph) (Duty/Standby Wastewater Pumping System with Control Panel)

Scope of Supply

Pump according to DIN EN 12050 ready for connection with 4m cable and automatic level float switch

Mechanical Data

Pump	Vertical single stage	Shaft	Stainless Steel
Bearing	Ball bearing, grease-lubricated	Impeller	Vortex impeller, GFK
Seal on motor side	Duplex rotary shaft seals	Motor housing	Edelstahl (253: Grauguss)
Oil chamber	Yes	Pump housing	Grey cast iron
Seal on medium side	SiC Mechanical seal	Submersible	Yes
Run dry protection	Yes	Pressure outlet	IG 1½" (US253:2")

Electrical Data

Power line	10m H07RN-F	Insulation class	B (253:F)
Type of enclosure	IP68	Winding thermostat	Yes

US 103 DS

Type	Code No.	Voltage	Motor rating P1	Motor rating P2	Current	Wires	Motor protection	Plug	Free passage	Weight
With built-in level control										
US 103 DS	JP09259	3/PE-400V	1.36kW	1.60kW	2.4A	4G1,0	Integrated	CEE	30 mm	15.0kg

Notes:

- This unit is for wastewater only
- Ensure the location of the DrainKing enables the lid to be easily removed for regular inspection and maintenance
- If the discharge pipework connection to a soil stack, manhole etc. is below the discharge outlet of the tank, an anti-syphon unit must be fitted at the highest point of the discharge pipework
- Warranty: The DrainKing 1030 Twin (3ph) comes complete with a one year warranty.

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DrainKing 1030 Twin (3ph) Part No. 176/NS Data Sheet Rev. 1 20.12.2022

DRAINKing 1030 HES TWIN (240V) (Duty/Standby Hot Wastewater Pumping System with Control Panel)



DrainKing 1030 HES Twin (240V) Part No. 179/NS (Duty/Standby Hot Wastewater Pumping System with Control Panel. Continuously rated for 90°C Hot Water)

General Description:

DrainKing 1030 HES Twin (240V) features a heavy duty tank and submersible pump for automatically pumping "Hot Wastewater" from tea points with zip taps, commercial kitchens, sinks, dishwashers, combi ovens, pasta cookers, glasswashers, washing machines etc.

The DrainKing Twin provides users with the additional security of duty/standby operation. If one pump should become blocked or fail, the wastewater would rise within the common tank, and activate the high-level alarm. The control panel would start the other pump as the standby pump.



Control Panel:

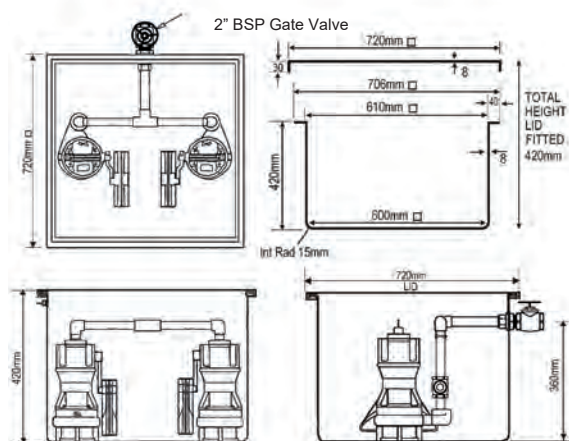
The DrainKing Twin is supplied with a pump station control panel and a single high-level finger float. The duty pump is automatically alternated after every pump operation. If the high-level alarm is activated the standby pump would become operational. The panel features door isolation switch, pump 1 or 2 operational/tripped lights, alarm buzzer (minimum volume of 80 Dba at 1m distance) alarm on/off switch, 3 off volt free ports for BMS connection.

A rechargeable battery is fitted in case of mains electricity supply failure.

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DRAINING 1030 HES TWIN (240V) (Duty/Standby Hot Wastewater Pumping System with Control Panel)

Dimensions mm



Tank:

Manufactured from GRP and fully rigged with internal pipe work, gate valve and non-return valves.

Tank Inlets:

To suit site layout, all inverts should be brought into the side of the tank by drilling a hole and using an appropriate tank connector. Minimum invert height 185mm.

Tank Outlet:

Fitted 2" BSP male thread discharge outlet (Gate Valve supplied female thread)

Tank Venting:

To suit site layout, a vent should be taken from the side of the tank by drilling a hole and using an appropriate tank connector. Vent pipe should be 2" to air or via a Pump Technology MicroVent.

DRAINING 1030 HES TWIN (240V) (Duty/Standby Hot Wastewater Pumping System with Control Panel)

Pump:

- Safe to run dry
- 30 mm free passage
- Hot water up to 90°C (Rated for continuous operation)
- Controllable oil chamber
- SiC mechanical seal independent of sense of rotation
- Replaceable moisture sealed cable inlet

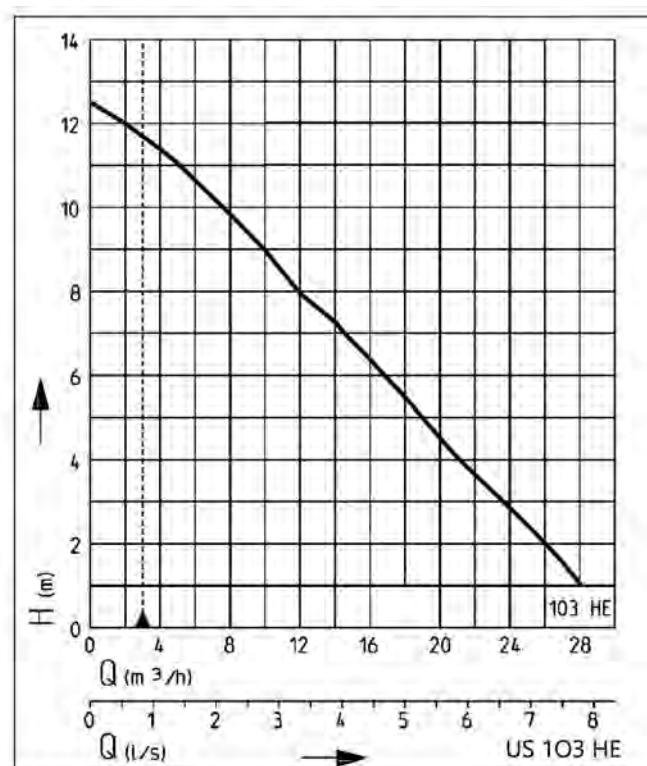
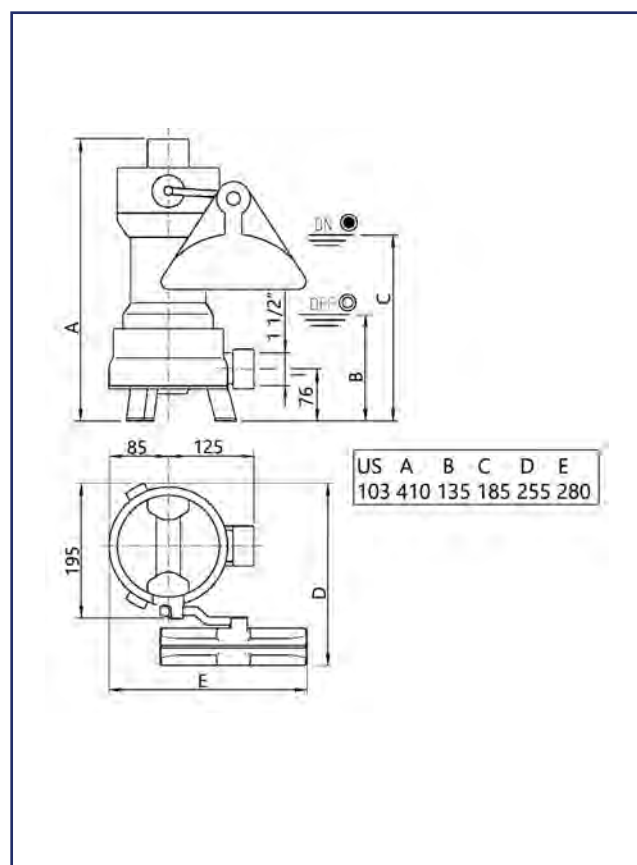
Description:

The heavy duty centrifugal submersible drainage pump US 1030 HES is suitable for dealing with wastewater and capable of handling soft solids up to 30mm in particle size.

The Pump is rated for continuous operation for very hot wastewater up to 90°C.



Dimensions/switching points US 103 HES (mm)



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DRAINKing 1030 HES TWIN (240V) (Duty/Standby Hot Wastewater Pumping System with Control Panel)

Scope of Supply

Pump acc. To EN 12050 ready for connection with 4m cable and automatic level float switch.

Mechanical Data			
Pump	Vertical single stage	Run dry protection	Yes
Free passage	30mm	Shaft	Stainless Steel
Bearing	Ball bearing, grease-lubricated	Impeller	Vortex impeller GFK
Seal on motor side	Duplex rotary shaft seals	Motor Housing	Stainless Steel
Oil chamber	Yes	Pump Housing	Grey cast iron
Seal on medium side	SiC Mechanical seal	Submersible	Yes
		Pressure outlet	IG 1½"

Electrical Data			
Voltage	1/N/PE-230V	Insulation class	F
Power line	10m H07RN-F	Winding thermostat	Yes
Wires	3G1.0	Motor protection	Integrated
Type of enclosure	IP68	Plug	Safety

US 103 HES

Type	Code No.	Motor rating P1	Motor rating P2	Current	Weight
With built-in level control					
US 103 HES	JP09308	1.37kW	0.98kW	6.0A	14.1kg

Notes:

- This unit is for wastewater only
- Ensure the location of the DrainKing enables the lid to be easily removed for regular inspection and maintenance
- If the discharge pipework connection to a soil stack, manhole etc. is below the discharge outlet of the tank, an anti-syphon unit must be fitted at the highest point of the discharge pipework
- Warranty: The DrainKing 1030 HES Twin (240V) comes complete with a one year warranty.

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