

Installation, Operation and Maintenance Manual. DrainMajor Duo Range

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INSTALLATION GUIDELINES:

The DrainMajor Duo 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 DrainMajor Duo 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 DrainMajor Duo 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) Ensure that the inflow of water is not directed onto the float mechanism.

It is essential to have inlets into both tanks to ensure both pumps operate.

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 1.1/2" BSP male thread discharge outlet. Two brass non return valves supplied in the vertical position fitted inside the tank off the pumps discharge. 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.

ELECTRICAL CONNECTION CONTINUED:

Power supply to Pump and Alarm must be via independent fused spurs. An isolator switch to the power supply must also be installed.

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 1.1/4" vent pipe must be run off the side of the tank to the ceiling void and connected to a Charcovent. (2" pipe for Microvent, hot water)

MAINTENANCE:

Before any inspection or maintenance please ensure the power supply is turned off. The collecting tank should be inspected at least every 4 weeks. All debris, fats and grease should be removed.

Maintenance every 6 to 12 months depending upon the nature of the application is recommended.

For scheduled inspection / cleaning and maintenance please call Pump Technology Services Ltd. (Direct Line)

Tel 0118 3385 724

Email

team@pumptechnologyservices.co.uk

DRAINMAJOR DUO 30 (240V) (Duty/Standby Wastewater Pumping System with Dual Alarm)



DrainMajor Duo 30 (240V) Part No.157
(Duty/Standby Wastewater Pumping System with
Dual Alarm)

General Description:

DrainMajor Duo 30 (240V) features a heavy-duty tank and submersible pump for automatically pumping wastewater from commercial kitchens, teapoints, etc.

The DrainMajor Duo provides users with the additional security of duty/standby operation. If one pump should become blocked or fail, the wastewater would rise within the tank, activate the high-level alarm, overflow into the adjoining tank were the other pump would then act as the standby pump.



Alarm:

The dual zone alarm has two triggered inputs. When triggered it is activated and an LED indication of which input was triggered is illuminated.

It has a built-in backup battery (72 hours) in the event of a power outage. It operates from a switched input, such as a float switch or pressure switch. The alarm can be activated either by a closed circuit switched input or an open circuit switched input. It is designed for connection to 240Vac supply voltages. Once activated, it provides a visual and audio indicator.

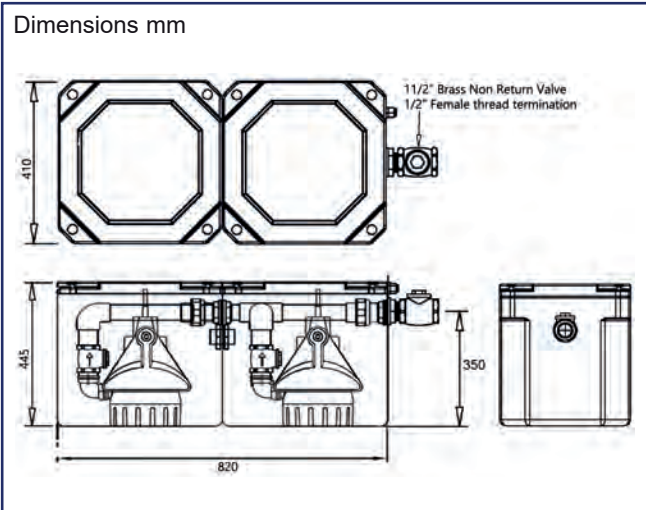
There is an option to connect an external beacon or other circuitry via the auxiliary output and/or the volt-free relay outputs. Each trigger has its own volt-free relay allowing the alarm to be connected to a Building Management System with ease.

Key Alarm Features

- 2 Alarm inputs
- Alarm LED indicator
- Alarm audio buzzer
- Alarm audio mute button
- Alarm test button
- Power LED indicator
- IP65-rated enclosure
- Auxiliary alarm output for accessories such as a beacon or siren
- 2 independent Volt free relay contact outputs SPDT
- Easy installation no tool required WAGO wiring terminals
- Backup battery with up to 72 hours of run time

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DRAINMAJOR DUO 30 (240V) (Duty/Standby Wastewater Pumping System with Dual Alarm)



Good for the Environment:



**DrainMajor Duo tanks are made from
Recyclable Polyethylene.**

Recycling polyethylene is highly cost effective and therefore successful. It is greener than incineration, far more eco-friendly than landfill disposal and easier to use when manufacturing products such as toys, recycling bins, envelopes and much more.

Tank:

Manufactured from recyclable polyethylene and fully rigged with internal pipe work and non-return valve. The lid is held in place with easy-to-remove hand screws and sits on a custom moulded, fitted rubber seal.

Tank Volume: 149.6 litres

Total Approximate Usable Volume - 99.6 litres

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 (NRV 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.

It is essential to have inlets into both tanks to ensure both pumps operate.

Pump:

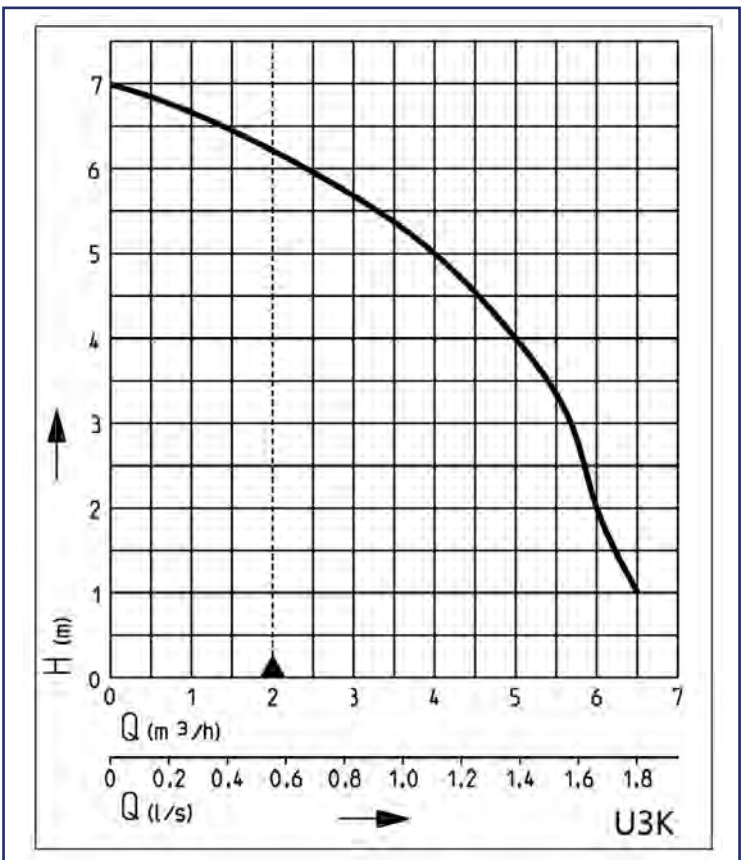
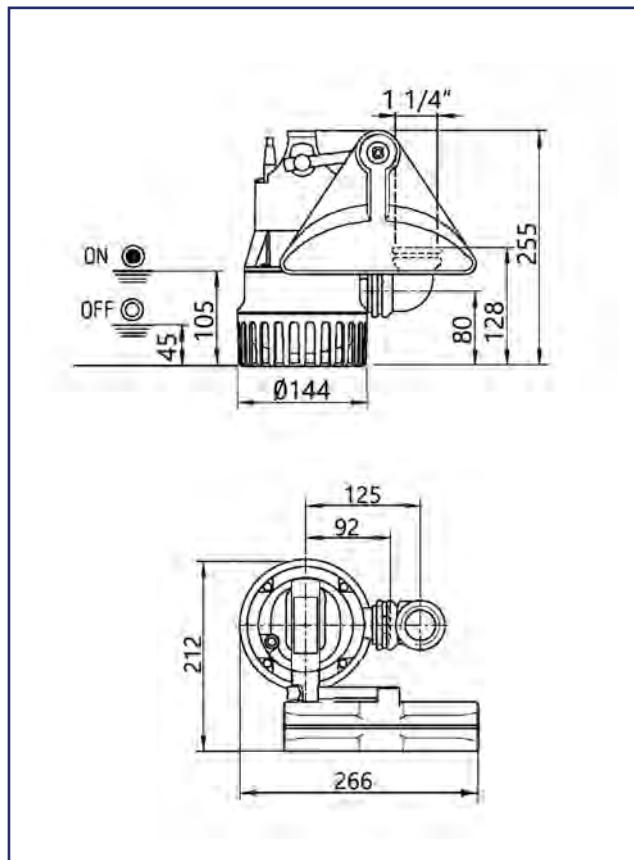
- Cooling jacket for motor housing
- Flushing device activatable and deactivatable
- Variable discharge branch with closable ventilation
- Run dry protection
- EIP Technology
- Moisture sealed cable inlet
- Fluid temperature 35 °C, temporarily 60 °C (10 min.)



Description:

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

Dimensions/switching points U3K (mm)



DRAINMAJOR DUO 30 (240V) (Duty/Standby Wastewater Pumping System with Dual Alarm)

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 | 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 | 2-fold rotary shaft seal | Submersible | Yes |
| | | Pressure outlet | 1¼" |
| Electrical Data | | | |
| Voltage | 1/N/PE-230V | Insulation class | F |
| Motor rating P1 | 0.32kW | Winding thermostat | Yes |
| Motor rating P2 | 0.2kW | Motor protection | Integrated |
| Current | 1.4A | Plug | Safety |
| Type of enclosure | IP 68 | | |

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 DrainMajor 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 DrainMajor Duo 30 (240V) comes complete with a one year warranty.

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DRAINMAJOR DUO 30 SL (240V) (Duty/Standby Wastewater Pumping System with Dual Alarm)



DrainMajor Duo 30 SL Part No 157/A
(Wastewater Pumping System. Ideal for
wastewater containing mildly corrosive chemicals.
20 parts per million concentration)

General Description:

DrainMajor Duo 30 SL 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 DrainMajor Duo provides users with the additional security of duty/standby operation. If one pump should become blocked or fail, the wastewater would rise within the tank, activate the high-level alarm, overflow into the adjoining tank were the other pump would then act as the standby pump.

Alarm:

The dual zone alarm has two triggered inputs. When triggered it is activated and an LED indication of which input was triggered is illuminated.

It has a built-in backup battery (72 hours) in the event of a power outage. It operates from a switched input, such as a float switch or pressure switch. The alarm can be activated either by a closed circuit switched input or an open circuit switched input. It is designed for connection to 240Vac supply voltages. Once activated, it provides a visual and audio indicator.

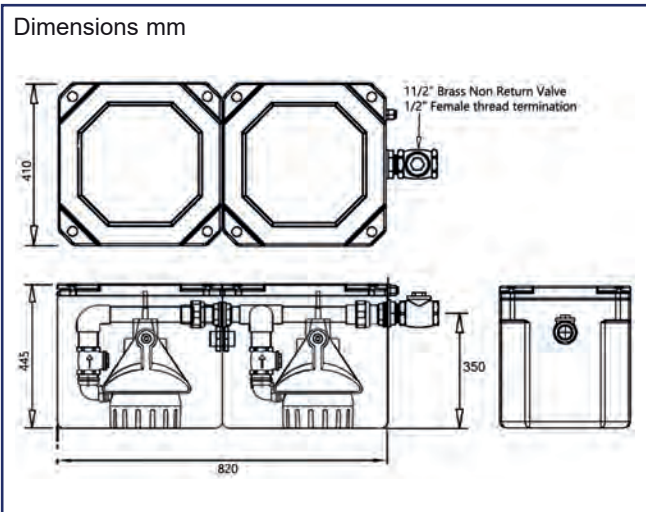
There is an option to connect an external beacon or other circuitry via the auxiliary output and/or the volt-free relay outputs. Each trigger has its own volt-free relay allowing the alarm to be connected to a Building Management System with ease.

Key Alarm Features

- 2 Alarm inputs
- Alarm LED indicator
- Alarm audio buzzer
- Alarm audio mute button
- Alarm test button
- Power LED indicator
- IP65-rated enclosure
- Auxiliary alarm output for accessories such as a beacon or siren
- 2 independent Volt free relay contact outputs SPDT
- Easy installation no tool required WAGO wiring terminals
- Backup battery with up to 72 hours of run time

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DRAINMAJOR DUO 30 SL (240V) (Duty/Standby Wastewater Pumping System with Dual Alarm)



Tank:

Manufactured from recyclable polyethylene and fully rigged with internal pipe work and non-return valve. The lid is held in place with easy-to-remove hand screws and sits on a custom moulded, fitted rubber seal.

Tank Volume: 149.6 litres

Total Approximate Usable Volume - 99.6 litres

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 (NRV 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.

It is essential to have inlets into both tanks to ensure both pumps operate.

Good for the Environment:



DrainMajor Duo tanks are made from Recyclable Polyethylene.

Recycling polyethylene is highly cost effective and therefore successful. It is greener than incineration, far more eco-friendly than landfill disposal and easier to use when manufacturing products such as toys, recycling bins, envelopes and much more.

Pump:

- For saline solutions up to 15% salinity
- SiC mechanical seal
- 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 mins)

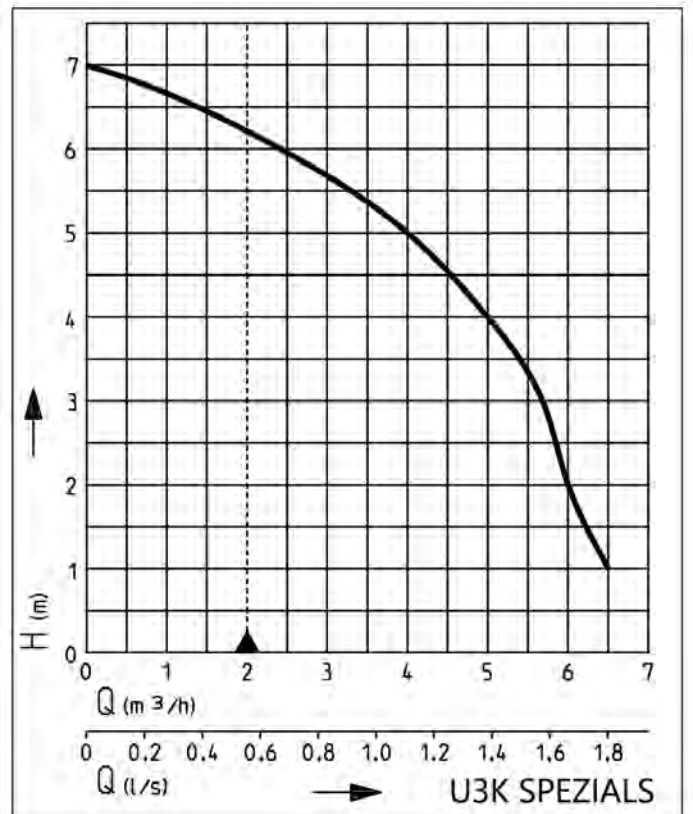
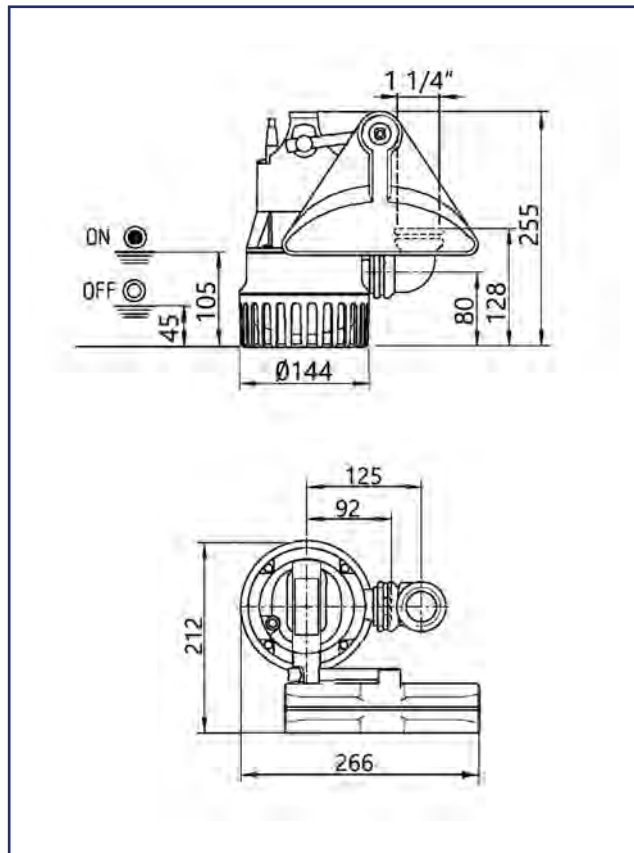


Description:

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)



DRAINMAJOR DUO 30 SL (240V) (Duty/Standby Wastewater Pumping System with Dual Alarm)

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 | 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 DrainMajor 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 DrainMajor 30 SL (240V) comes complete with a one year warranty.

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DRAINMAJOR DUO 60 (240V) (Duty/Standby Wastewater Pumping System with Dual Alarm)



DrainMajor Duo 60 (240V) Part No.158
(Duty/Standby Wastewater Pumping System with
Dual Alarm)

General Description:

DrainMajor Duo 60 (240V) features a heavy-duty tank and submersible pump for automatically pumping wastewater from commercial kitchens, teapoints, etc.

The DrainMajor Duo provides users with the additional security of duty/standby operation. If one pump should become blocked or fail, the wastewater would rise within the tank, activate the high-level alarm, overflow into the adjoining tank where the other pump would then act as the standby pump.



Alarm:

The dual zone alarm has two triggered inputs. When triggered it is activated and an LED indication of which input was triggered is illuminated.

It has a built-in backup battery (72 hours) in the event of a power outage. It operates from a switched input, such as a float switch or pressure switch. The alarm can be activated either by a closed circuit switched input or an open circuit switched input. It is designed for connection to 240Vac supply voltages. Once activated, it provides a visual and audio indicator.

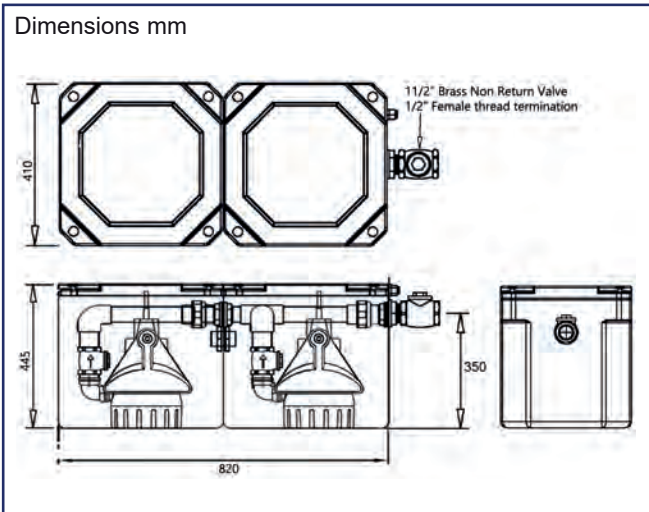
There is an option to connect an external beacon or other circuitry via the auxiliary output and/or the volt-free relay outputs. Each trigger has its own volt-free relay allowing the alarm to be connected to a Building Management System with ease.

Key Alarm Features

- 2 Alarm inputs
- Alarm LED indicator
- Alarm audio buzzer
- Alarm audio mute button
- Alarm test button
- Power LED indicator
- IP65-rated enclosure
- Auxiliary alarm output for accessories such as a beacon or siren
- 2 independent Volt free relay contact outputs SPDT
- Easy installation no tool required WAGO wiring terminals
- Backup battery with up to 72 hours of run time

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**DRAINMAJOR DUO 60 (240V)
(Duty/Standby Wastewater Pumping
System with Dual Alarm)**



Tank:

Manufactured from recyclable polyethylene and fully rigged with internal pipe work and non-return valve. The lid is held in place with easy-to-remove hand screws and sits on a custom moulded, fitted rubber seal.

Tank Volume: 149.6 litres

Total Approximate Usable Volume - 99.6 litres

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 (NRV 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.

It is essential to have inlets into both tanks to ensure both pumps operate.

Good for the Environment:



DrainMajor Duo tanks are made from Recyclable Polyethylene.

Recycling polyethylene is highly cost effective and therefore successful. It is greener than incineration, far more eco-friendly than landfill disposal and easier to use when manufacturing products such as toys, recycling bins, envelopes and much more.

Pump:

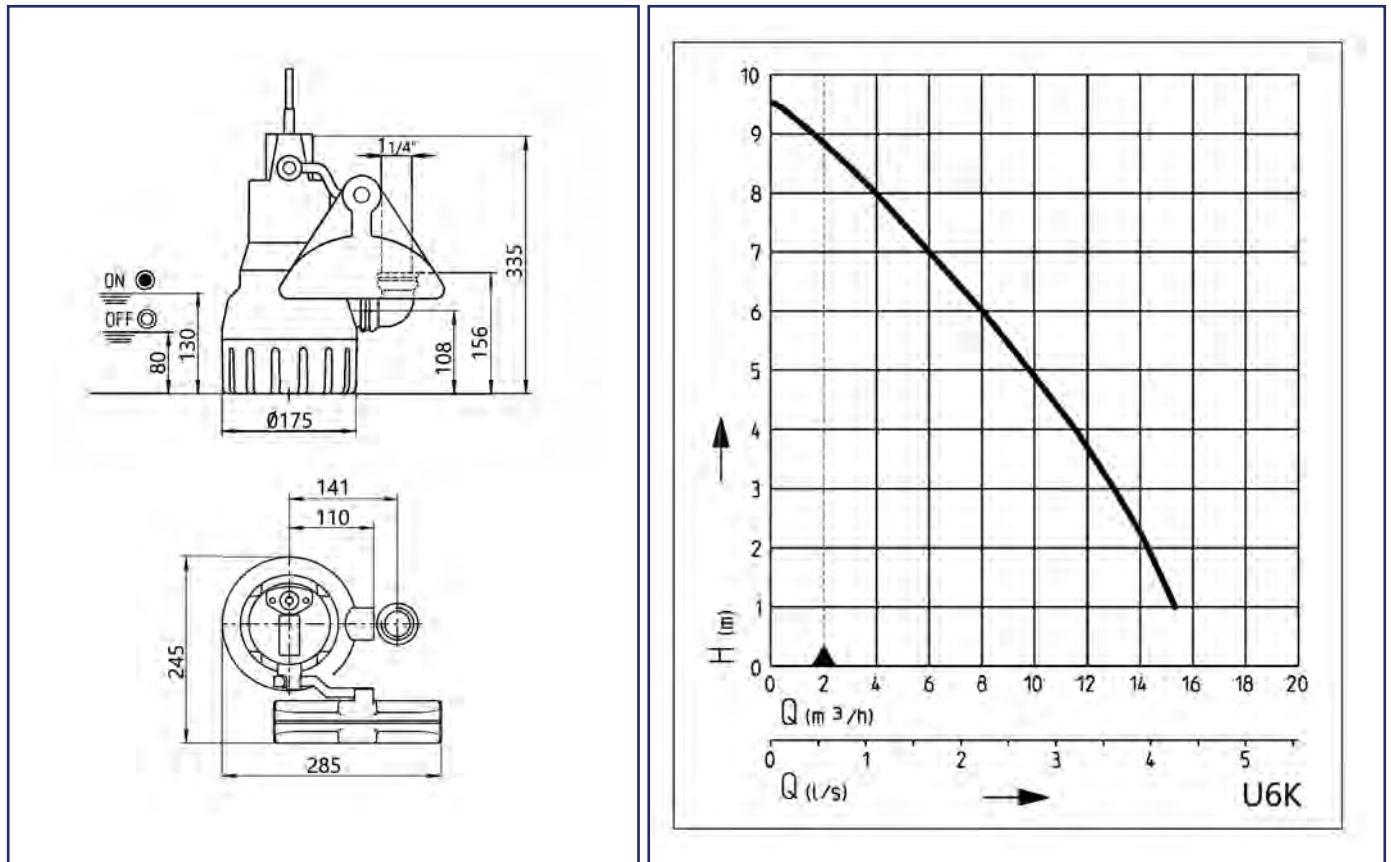
- Safe to run dry
- 20 mm free passage with EIP technology
- Cooling jacket for motor housing
- SiC mechanical seal independent of sense of rotation
- Replaceable moisture sealed cable inlet
- Flushing device
- Fluid temperature 35°C, temporarily 60°C (10 mins)



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)



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 |
| Free Passage | 20 mm |
| Bearing | Ball bearing, grease-lubricated |
| Seal on motor side | Rotary shaft seal |
| Oil chamber | Yes |
| Seal on medium side | SiC mechanical seal |

| | |
|--------------------|----------------------|
| Run dry protection | Yes |
| Shaft | Stainless Steel |
| Impeller | Vortex impeller, GFK |
| Motor Housing | Stainless Steel |
| Submersible | Yes |
| Pressure outlet | 1¼" |

Electrical Data

| | |
|-------------------|--------|
| Motor Rating P1 | 0.75kW |
| Type of enclosure | IP 68 |
| Insulation Class | B |

| | |
|--------------------|------------|
| Winding thermostat | Yes |
| Motor protection | Integrated |

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 DrainMajor 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 DrainMajor Duo 60 (240V) comes complete with a one year warranty.

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DRAINMAJOR DUO 60 (3ph) (Duty/Standby Wastewater Pumping System with Dual Alarm)



DrainMajor Duo 60 (3ph) Part No.158/A
(Duty/Standby Wastewater Pumping System with
Dual Alarm)

General Description:

DrainMajor Duo 60 (3ph) features a heavy-duty tank and submersible pump for automatically pumping wastewater from commercial kitchens, teapoints, etc.

The DrainMajor Duo provides users with the additional security of duty/standby operation. If one pump should become blocked or fail, the wastewater would rise within the tank, activate the high-level alarm, overflow into the adjoining tank where the other pump would then act as the standby pump.



Alarm:

The dual zone alarm has two triggered inputs. When triggered it is activated and an LED indication of which input was triggered is illuminated.

It has a built-in backup battery (72 hours) in the event of a power outage. It operates from a switched input, such as a float switch or pressure switch. The alarm can be activated either by a closed circuit switched input or an open circuit switched input. It is designed for connection to 240Vac supply voltages. Once activated, it provides a visual and audio indicator.

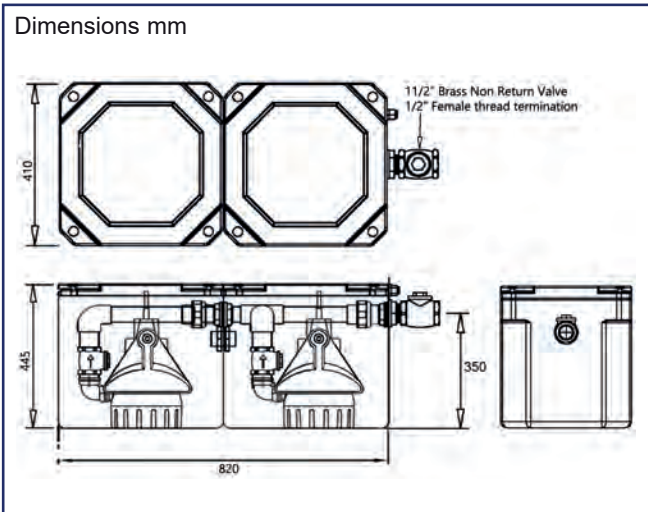
There is an option to connect an external beacon or other circuitry via the auxiliary output and/or the volt-free relay outputs. Each trigger has its own volt-free relay allowing the alarm to be connected to a Building Management System with ease.

Key Alarm Features

- 2 Alarm inputs
- Alarm LED indicator
- Alarm audio buzzer
- Alarm audio mute button
- Alarm test button
- Power LED indicator
- IP65-rated enclosure
- Auxiliary alarm output for accessories such as a beacon or siren
- 2 independent Volt free relay contact outputs SPDT
- Easy installation no tool required WAGO wiring terminals
- Backup battery with up to 72 hours of run time

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**DRAINMAJOR DUO 60 (3ph)
(Duty/Standby Wastewater Pumping
System with Dual Alarm)**



Tank:

Manufactured from recyclable polyethylene and fully rigged with internal pipe work and non-return valve. The lid is held in place with easy-to-remove hand screws and sits on a custom moulded, fitted rubber seal.

Tank Volume: 149.6 litres

Total Approximate Usable Volume - 99.6 litres

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 (NRV 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.

It is essential to have inlets into both tanks to ensure both pumps operate.

Good for the Environment:



DrainMajor Duo tanks are made from Recyclable Polyethylene.

Recycling polyethylene is highly cost effective and therefore successful. It is greener than incineration, far more eco-friendly than landfill disposal and easier to use when manufacturing products such as toys, recycling bins, envelopes and much more.

**DRAINMAJOR DUO 60 (3ph)
(Duty/Standby Wastewater Pumping
System with Dual Alarm)**

Pump:

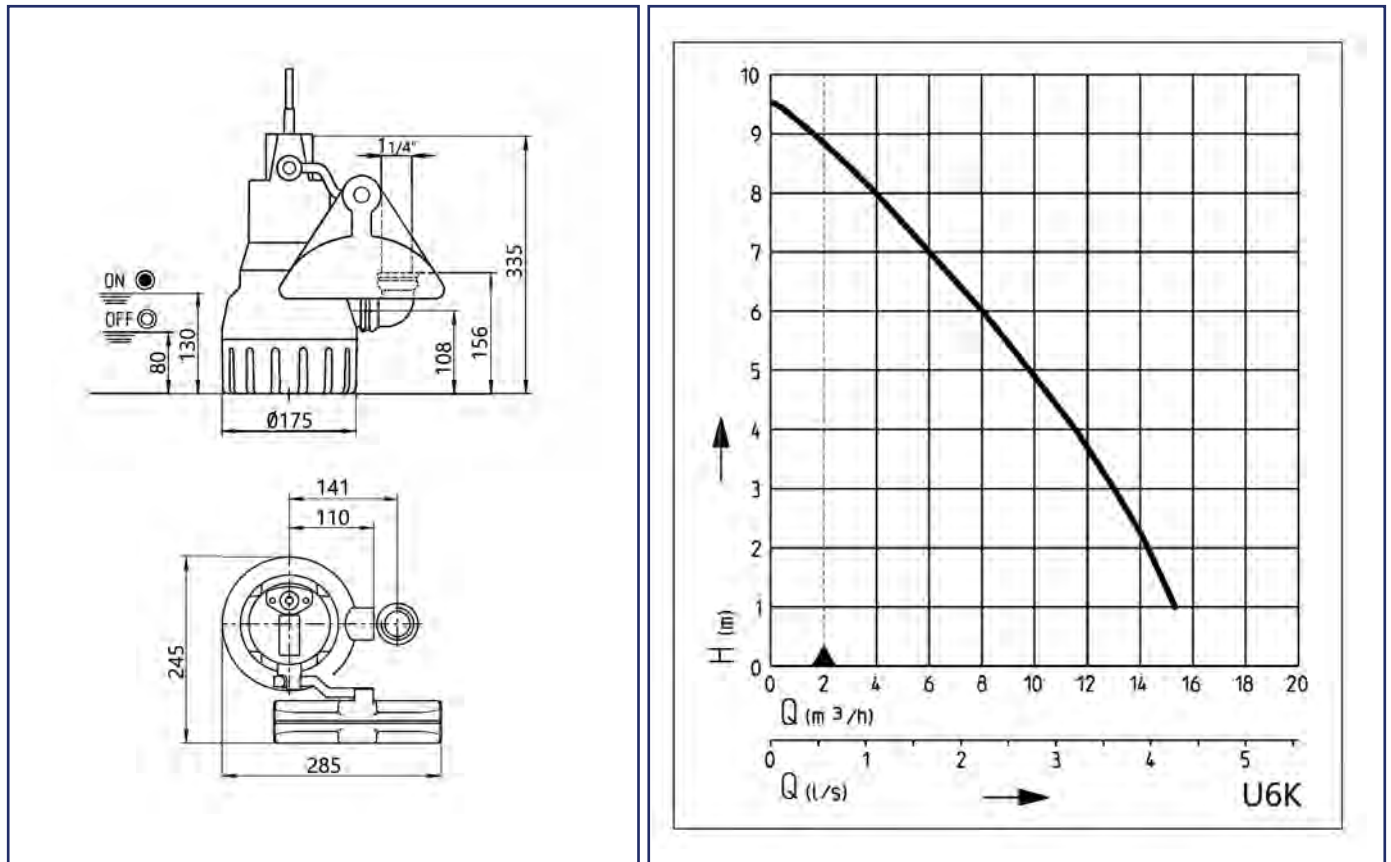
- Safe to run dry
- 20 mm free passage with EIP technology
- Cooling jacket for motor housing
- SiC mechanical seal independent of sense of rotation
- Replaceable moisture sealed cable inlet
- Flushing device
- Fluid temperature 35°C, temporarily 60°C (10 mins)



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 DS (mm)



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

| 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 DrainMajor 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 DrainMajor Duo 60 (3ph) comes complete with a one year warranty.

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DRAINMAJOR DUO 730 (240V) (Duty/Standby Wastewater Pumping System with Dual Alarm)



DrainMajor Duo 730 (240V) Part No.144
(Duty/Standby Wastewater Pumping System with
Dual Alarm)

General Description:

DrainMajor Duo 730 (240V) features a heavy-duty tank and submersible pump for automatically pumping wastewater from commercial kitchens, teapoints, etc.

The DrainMajor Duo provides users with the additional security of duty/standby operation. If one pump should become blocked or fail, the wastewater would rise within the tank, activate the high-level alarm, overflow into the adjoining tank were the other pump would then act as the standby pump.



Alarm:

The dual zone alarm has two triggered inputs. When triggered it is activated and an LED indication of which input was triggered is illuminated.

It has a built-in backup battery (72 hours) in the event of a power outage. It operates from a switched input, such as a float switch or pressure switch. The alarm can be activated either by a closed circuit switched input or an open circuit switched input. It is designed for connection to 240Vac supply voltages. Once activated, it provides a visual and audio indicator.

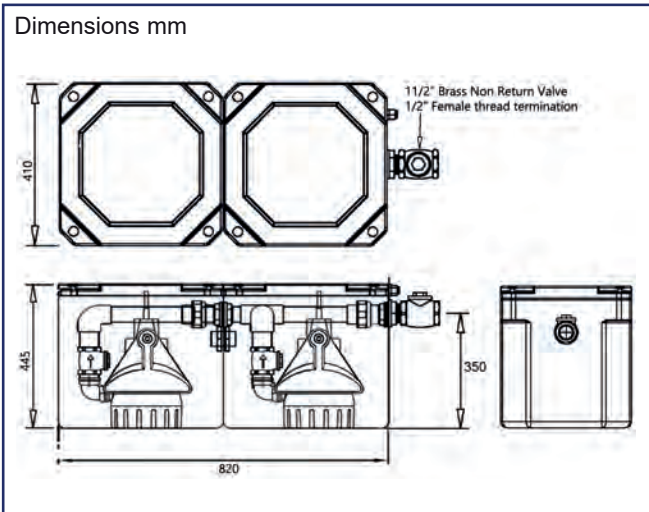
There is an option to connect an external beacon or other circuitry via the auxiliary output and/or the volt-free relay outputs. Each trigger has its own volt-free relay allowing the alarm to be connected to a Building Management System with ease.

Key Alarm Features

- 2 Alarm inputs
- Alarm LED indicator
- Alarm audio buzzer
- Alarm audio mute button
- Alarm test button
- Power LED indicator
- IP65-rated enclosure
- Auxiliary alarm output for accessories such as a beacon or siren
- 2 independent Volt free relay contact outputs SPDT
- Easy installation no tool required WAGO wiring terminals
- Backup battery with up to 72 hours of run time

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**DRAINMAJOR DUO 730 (240V)
(Duty/Standby Wastewater Pumping
System with Dual Alarm)**



Tank:

Manufactured from recyclable polyethylene and fully rigged with internal pipe work and non-return valve. The lid is held in place with easy-to-remove hand screws and sits on a custom moulded, fitted rubber seal.

Tank Volume: 149.6 litres

Total Approximate Usable Volume - 99.6 litres

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 1 1/2" BSP male thread discharge outlet (NRV 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.

It is essential to have inlets into both tanks to ensure both pumps operate.

Good for the Environment:



DrainMajor Duo tanks are made from Recyclable Polyethylene.

Recycling polyethylene is highly cost effective and therefore successful. It is greener than incineration, far more eco-friendly than landfill disposal and easier to use when manufacturing products such as toys, recycling bins, envelopes and much more.

**DRAINMAJOR DUO 730 (240V)
(Duty/Standby Wastewater Pumping
System with Dual Alarm)**

Pump:

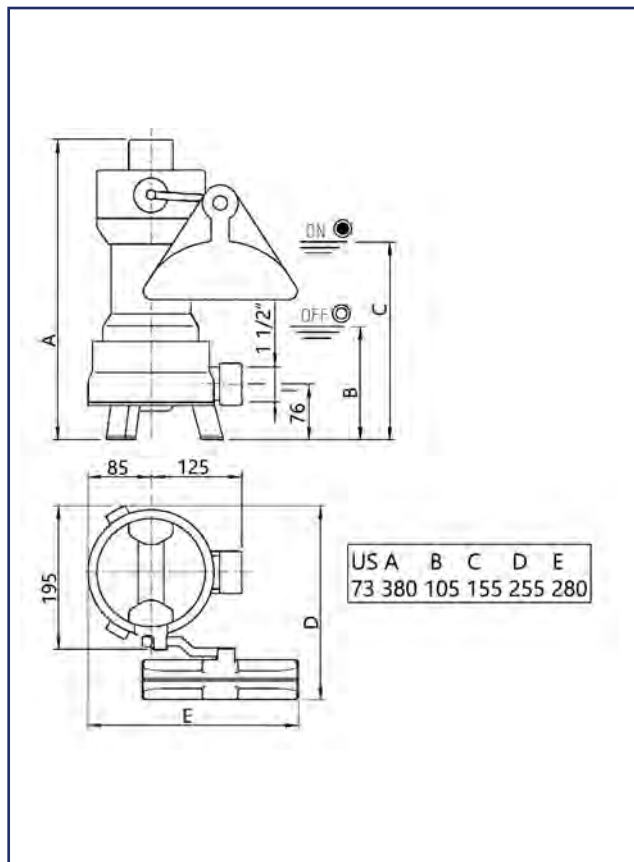
- Safe to run dry
- 30 mm free passage
- Controllable oil chamber
- SiC mechanical seal independent of sense of rotation
- Replaceable moisture sealed cable inlet
- Fluid temperature 35°C, temporarily 60°C (10 mins)

Description:

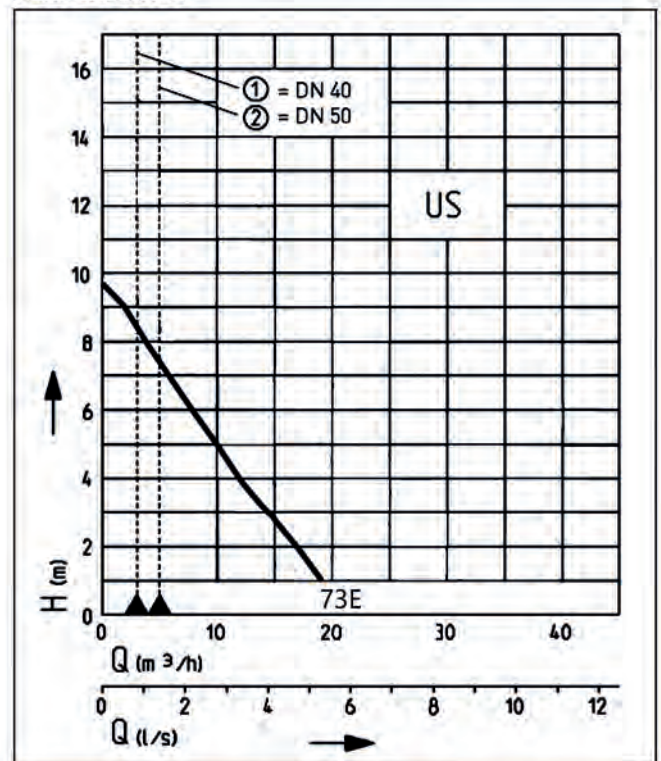
The heavy duty centrifugal submersible drainage pump US 73 ES is suitable for dealing with wastewater and capable of handling soft solids up to 30 mm particle size.



Dimensions/switching points US 73 ES (mm)



PERFORMANCE



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 DrainMajor 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 DrainMajor Duo 730 (240V) comes complete with a one year warranty.

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DRAINMAJOR DUO 730 HES (240V) (Duty/Standby Hot Wastewater Pumping System with Dual Alarm)



DrainMajor Duo 730 HES (240V) Part No. 143
(Duty/Standby Hot Wastewater Pumping System
with Dual Alarm. Continuously rated for 90°C Hot
Wastewater)

General Description:

DrainMajor Duo 730 HES (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, washing machines etc.

The DrainMajor Duo provides users with the additional security of duty/standby operation. If one pump should become blocked or fail, the wastewater would rise within the tank, activate the high-level alarm, overflow into the adjoining tank were the other pump would then act as the standby pump.

Alarm:

The dual zone alarm has two triggered inputs. When triggered it is activated and an LED indication of which input was triggered is illuminated.

It has a built-in backup battery (72 hours) in the event of a power outage. It operates from a switched input, such as a float switch or pressure switch. The alarm can be activated either by a closed circuit switched input or an open circuit switched input. It is designed for connection to 240Vac supply voltages. Once activated, it provides a visual and audio indicator. There is an option to connect an external beacon or other circuitry via the auxiliary output and/or the volt-free relay outputs. Each trigger has its own volt-free relay allowing the alarm to be connected to a Building Management System with ease.

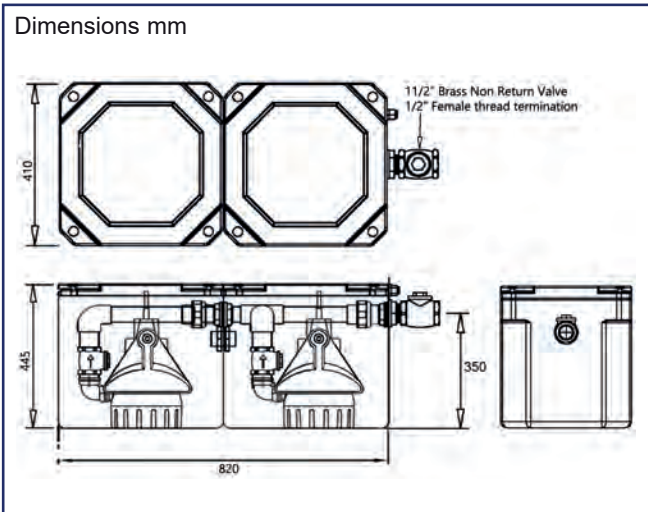


Key Alarm Features

- 2 Alarm inputs
- Alarm LED indicator
- Alarm audio buzzer
- Alarm audio mute button
- Alarm test button
- Power LED indicator
- IP65-rated enclosure
- Auxiliary alarm output for accessories such as a beacon or siren
- 2 independent Volt free relay contact outputs SPDT
- Easy installation no tool required WAGO wiring terminals
- Backup battery with up to 72 hours of run time

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**DRAINMAJOR DUO 730 HES (240V)
(Duty/Standby Hot Wastewater
Pumping System with Dual Alarm)**



Tank:

Manufactured from recyclable polyethylene and fully rigged with internal pipe work and non-return valve. The lid is held in place with easy-to-remove hand screws and sits on a custom moulded, fitted rubber seal.

Tank Volume: 149.6 litres

Total Approximate Usable Volume - 99.6 litres

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 1 1/2" BSP male thread discharge outlet (NRV 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.

It is essential to have inlets into both tanks to ensure both pumps operate.

Good for the Environment:



DrainMajor Duo tanks are made from Recyclable Polyethylene.

Recycling polyethylene is highly cost effective and therefore successful. It is greener than incineration, far more eco-friendly than landfill disposal and easier to use when manufacturing products such as toys, recycling bins, envelopes and much more.

**DRAINMAJOR DUO 730 HES (240V)
(Duty/Standby Hot Wastewater
Pumping System with Dual Alarm)**

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

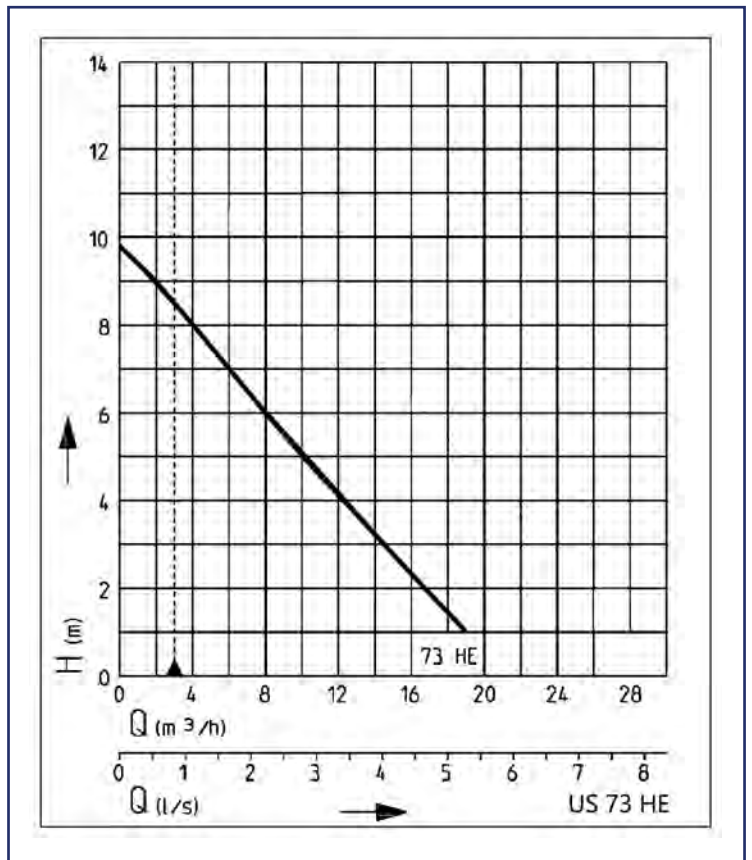
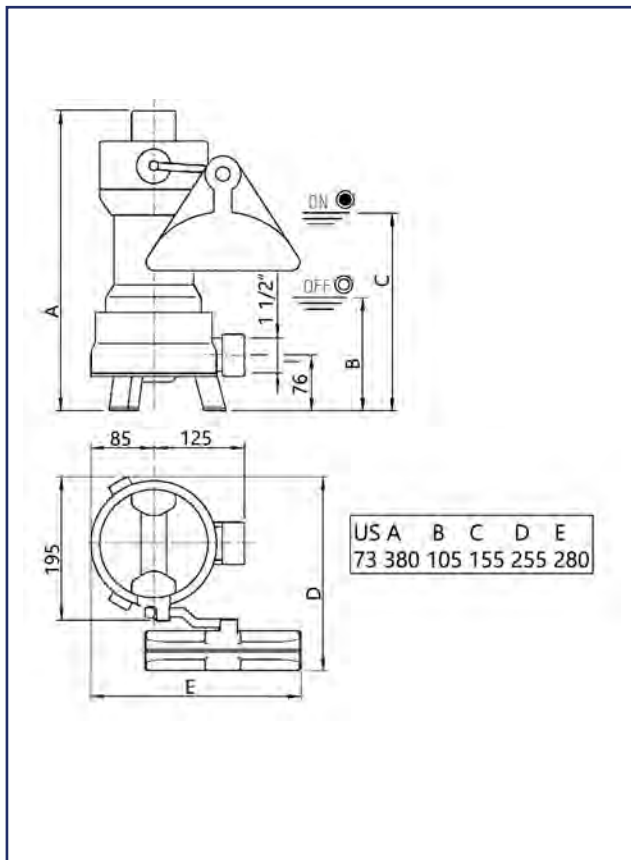
Description:

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)



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 DrainMajor 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 DrainMajor Duo 730 HES (240V) comes complete with a one year warranty.

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DRAINMAJOR DUO 1030 (240V) (Duty/Standby Wastewater Pumping System with Dual Alarm)



DrainMajor Duo 1030 (240V) Part No. 145
(Duty/Standby Wastewater Pumping System with
Dual Alarm)

General Description:

DrainMajor Duo 1030 (240V) features a heavy-duty tank and submersible pump for automatically pumping wastewater from commercial kitchens, teapoints, etc.

The DrainMajor Duo provides users with the additional security of duty/standby operation. If one pump should become blocked or fail, the wastewater would rise within the tank, activate the high-level alarm, overflow into the adjoining tank were the other pump would then act as the standby pump.



Alarm:

The dual zone alarm has two triggered inputs. When triggered it is activated and an LED indication of which input was triggered is illuminated.

It has a built-in backup battery (72 hours) in the event of a power outage. It operates from a switched input, such as a float switch or pressure switch. The alarm can be activated either by a closed circuit switched input or an open circuit switched input. It is designed for connection to 240Vac supply voltages. Once activated, it provides a visual and audio indicator.

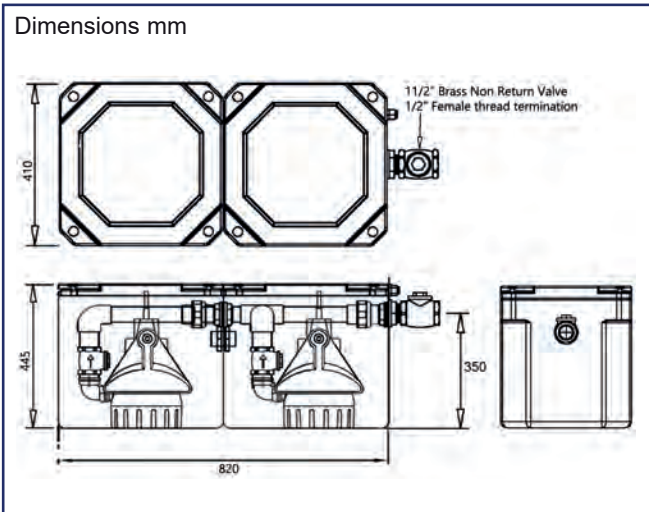
There is an option to connect an external beacon or other circuitry via the auxiliary output and/or the volt-free relay outputs. Each trigger has its own volt-free relay allowing the alarm to be connected to a Building Management System with ease.

Key Alarm Features

- 2 Alarm inputs
- Alarm LED indicator
- Alarm audio buzzer
- Alarm audio mute button
- Alarm test button
- Power LED indicator
- IP65-rated enclosure
- Auxiliary alarm output for accessories such as a beacon or siren
- 2 independent Volt free relay contact outputs SPDT
- Easy installation no tool required WAGO wiring terminals
- Backup battery with up to 72 hours of run time

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**DRAINMAJOR DUO 1030 (240V)
(Duty/Standby Wastewater Pumping
System with Dual Alarm)**



Tank:

Manufactured from recyclable polyethylene and fully rigged with internal pipe work and non-return valve. The lid is held in place with easy-to-remove hand screws and sits on a custom moulded, fitted rubber seal.

Tank Volume: 149.6 litres

Total Approximate Usable Volume - 99.6 litres

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 185 mm.

Tank Outlet:

Fitted 1 1/2" BSP male thread discharge outlet (NRV 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.

It is essential to have inlets into both tanks to ensure both pumps operate.

Good for the Environment:



DrainMajor Duo tanks are made from Recyclable Polyethylene.

Recycling polyethylene is highly cost effective and therefore successful. It is greener than incineration, far more eco-friendly than landfill disposal and easier to use when manufacturing products such as toys, recycling bins, envelopes and much more.

**DRAINMAJOR DUO 1030 (240V)
(Duty/Standby Wastewater Pumping
System with Dual Alarm)**

Pump:

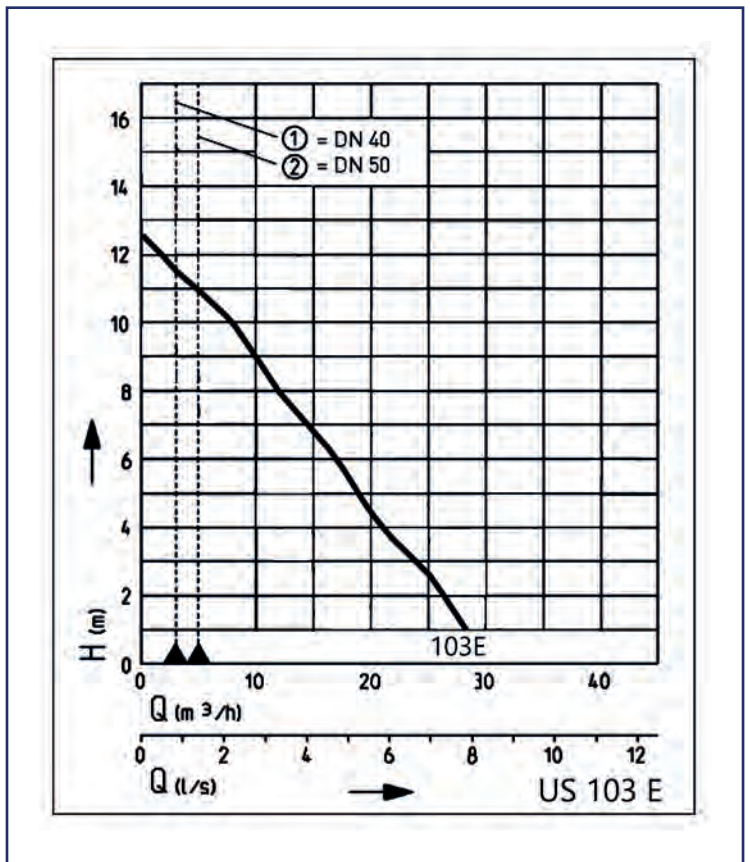
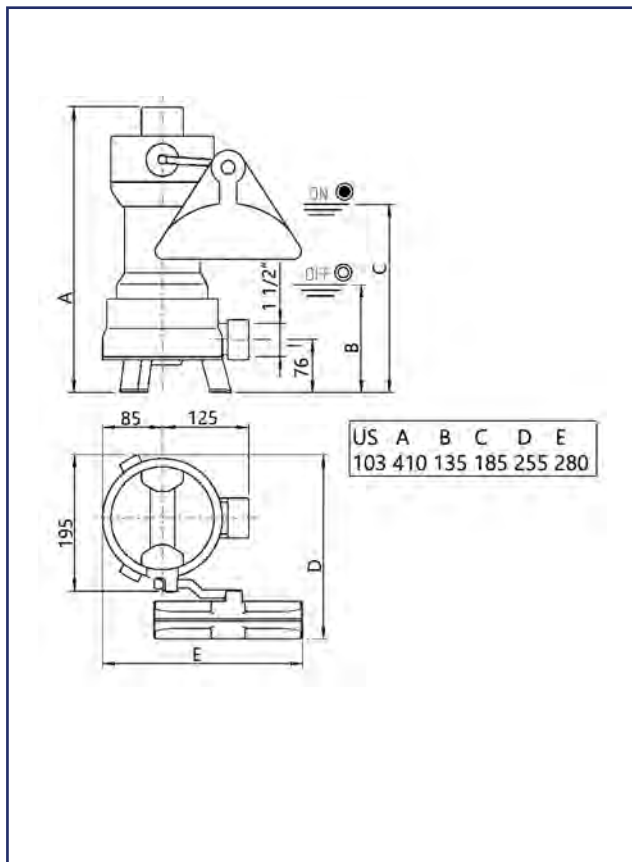
- Safe to run dry
- 30 mm free passage
- Controllable oil chamber
- SiC mechanical seal independent of sense of rotation
- Replaceable moisture sealed cable inlet
- Fluid temperature 35°C, temporarily 60°C (10 mins)

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)



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 DrainMajor 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 DrainMajor Duo 1030 (240V) comes complete with a one year warranty.

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DRAINMAJOR DUO 1030 HES (240V) (Duty/Standby Hot Wastewater Pumping System with Dual Alarm)



DrainMajor Duo 1030 HES (240V) Part No. 146
(Duty/Standby Hot Wastewater Pumping System
with Dual Alarm. Continuously Rated for 90°C Hot
Wastewater)

General Description:

DrainMajor Duo 1030 HES (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, washing machines etc.

The DrainMajor Duo provides users with the additional security of duty/standby operation. If one pump should become blocked or fail, the wastewater would rise within the tank, activate the high-level alarm, overflow into the adjoining tank were the other pump would then act as the standby pump.

Alarm:

The dual zone alarm has two triggered inputs. When triggered it is activated and an LED indication of which input was triggered is illuminated.

It has a built-in backup battery (72 hours) in the event of a power outage. It operates from a switched input, such as a float switch or pressure switch. The alarm can be activated either by a closed circuit switched input or an open circuit switched input. It is designed for connection to 240Vac supply voltages. Once activated, it provides a visual and audio indicator. There is an option to connect an external beacon or other circuitry via the auxiliary output and/or the volt-free relay outputs. Each trigger has its own volt-free relay allowing the alarm to be connected to a Building Management System with ease.

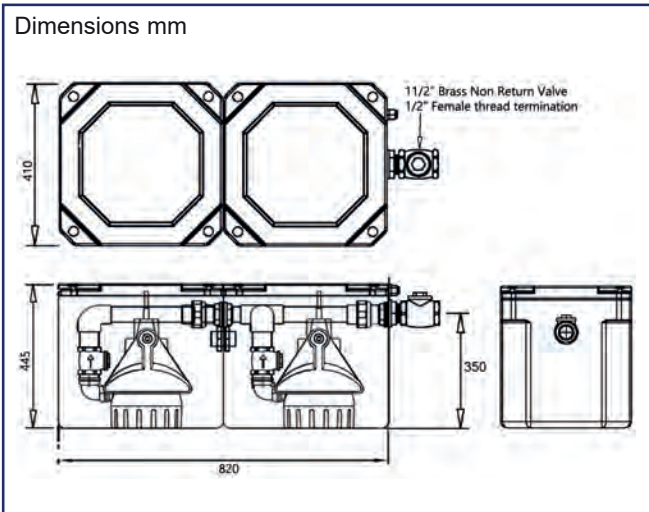


Key Alarm Features

- 2 Alarm inputs
- Alarm LED indicator
- Alarm audio buzzer
- Alarm audio mute button
- Alarm test button
- Power LED indicator
- IP65-rated enclosure
- Auxiliary alarm output for accessories such as a beacon or siren
- 2 independent Volt free relay contact outputs SPDT
- Easy installation no tool required WAGO wiring terminals
- Backup battery with up to 72 hours of run time

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**DRAINMAJOR DUO 1030 HES (240V)
(Duty/Standby Hot Wastewater
Pumping System with Dual Alarm)**



Tank:

Manufactured from recyclable polyethylene and fully rigged with internal pipe work and non-return valve. The lid is held in place with easy-to-remove hand screws and sits on a custom moulded, fitted rubber seal.

Tank Volume: 149.6 litres

Total Approximate Usable Volume - 99.6 litres

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 185 mm.

Tank Outlet:

Fitted 1 1/2" BSP male thread discharge outlet (NRV 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.

It is essential to have inlets into both tanks to ensure both pumps operate.

Good for the Environment:



DrainMajor Duo tanks are made from Recyclable Polyethylene.

Recycling polyethylene is highly cost effective and therefore successful. It is greener than incineration, far more eco-friendly than landfill disposal and easier to use when manufacturing products such as toys, recycling bins, envelopes and much more.

**DRAINMAJOR DUO 1030 HES (240V)
(Duty/Standby Hot Wastewater
Pumping System with Dual Alarm)**

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

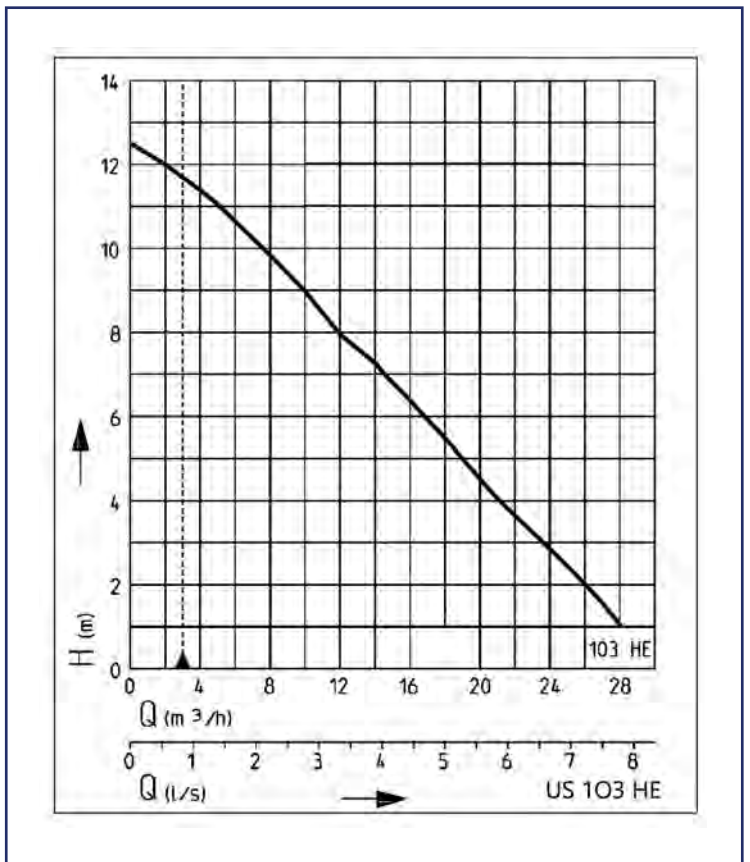
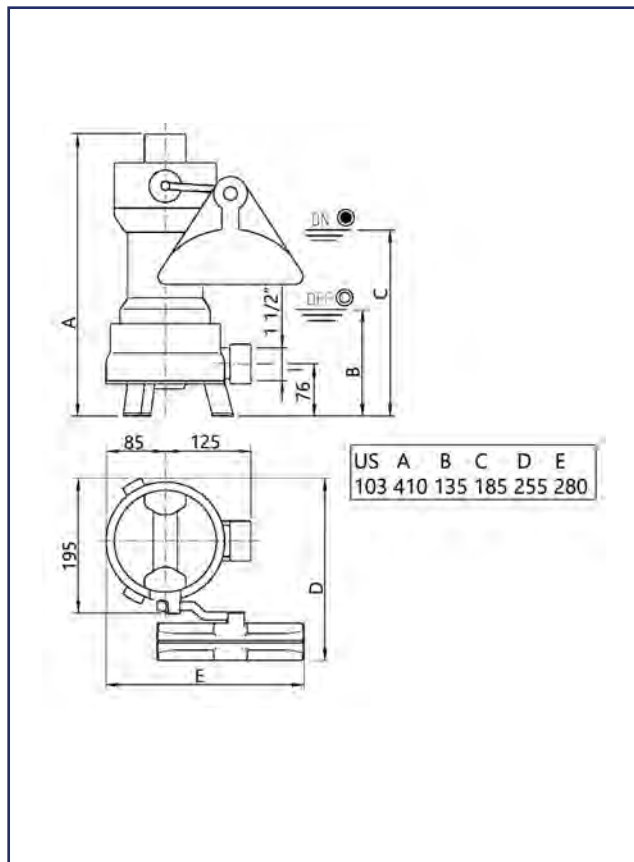


Description:

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)



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 DrainMajor 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 DrainMajor Duo 1030 HES (240V) comes complete with a one year warranty.

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