**AmaDrainer-Box 1 B - Single-pump Lifting Unit**

Automatic grey water lifting unit for above-floor installation

**Function:**

Automatic grey water lifting unit for collecting unpressurised, domestic waste water without faeces as well as stormwater and lifting it above the flood level.

**Features:**

AmaDrainer-Box 1 B, comprising:

- Collecting tank made of impact-resistant plastic, for floor mounting

- Closed with odour-proof cover

- Swing check valve and AmaDrainer submersible motor pump

- Connection set with full set of installation parts for AmaDrainer

**Operating data:**

Fluid handled:

Flow rate Q:

Head H:

Permissible fluid temperature: <= 40 °C in continuous operation

Free passage:

**Drive:**

Submersible motor pump

Supply voltage:

Frequency:

Rated power requirement P1:

Motor rating P2:

Nominal current:

**Monitoring / open-loop control / closed-loop control:**

Pump controlled via integrated float switch or LevelControl Basic 2

**Materials:**

Collecting tank: polyethylene (PE)

Cover: polyethylene (PE)

Pump: see description of AmaDrainer 3 or AmaDrainer 4../5..

**Dimensions and connections:**

Collecting tank volume: 100 l

Diameter: 485 mm

Height: 650 mm

Discharge side: DN 40, flexible hose connection, hose inside diameter 50 mm

Inlet side: 2 x DN 50 / DN 70 graded nozzles, opposite to each other, outside diameter 50 / 78 mm

2 x DN 70 / DN 100 graded nozzles, opposite to each other, outside diameter 78 / 110 mm

Venting: any free DN 50 / DN 70 / DN 100 connection nozzle

Auxiliary connections: cable entry via cable grommet

Emergency drain 2 x DN 40, opposite to each other, outside diameter 49 mm

**Purchase order information:**

Make: KSB

Type series / size:

Material pricing group:

Weight:

**Material number:**

Electrical installations must be protected against overvoltage (compulsory since 14 December 2018) (see DIN VDE 0100-443 (IEC 60364-4-44:2007/A1:2015, modified) and DIN VDE 0100-534 (IEC 60364-5-53:2001/A2:2015, modified). Whenever modifications are made to existing installations, retrofitting a surge protective device (SPD) in accordance with VDE is mandatory.

The lightning protection concept must be provided by the operator or by a suitable supplier contracted by the operator. Surge protective devices can be offered for the control units on request.

**AmaDrainer-Box 1 U - Single-pump Lifting Unit**

Automatic grey water lifting unit for underfloor installation

**Function:**

Automatic grey water lifting unit for collecting unpressurised, domestic waste water without faeces as well as stormwater and lifting it above the flood level.

**Features:**

AmaDrainer-Box 1 U, comprising:

- Collecting tank made of impact-resistant plastic, for installation in substructures and foundations

- Cover with level-adjusting extension, cover plate with floor drain and siphon trap, swing check valve, connecting parts, provisional cover

- AmaDrainer submersible motor pump

- Connection set with full set of installation parts for AmaDrainer

**Operating data:**

Fluid handled:

Flow rate Q:

Head H:

Permissible fluid temperature: <= 40 °C in continuous operation

Free passage:

**Drive:**

Submersible motor pump

Supply voltage:

Frequency:

Rated power requirement P1:

Motor rating P2:

Nominal current:

**Monitoring / open-loop control / closed-loop control:**

Pump controlled via integrated float switch or LevelControl Basic 2

**Materials:**

Collecting tank: polyethylene (PE)

Cover: polyethylene (PE)

Pump: see description of AmaDrainer 3 or AmaDrainer 4../5..

**Dimensions and connections:**

Collecting tank volume: 100 l

Diameter: 485 mm

Height: adjustable from 910 mm to 1110 mm

Discharge side: DN 40, threaded end G 1 1/2, optionally plain pipe end (glued nozzle), outside diameter 50 mm

Inlet side: 2 x DN 50 / DN 70 graded nozzles, opposite to each other, outside diameter 50 / 78 mm

2 x DN 70 / DN 100 graded nozzles, opposite to each other, outside diameter 78 / 110 mm

Venting: any free DN 50 / DN 70 / DN 100 connection nozzle

Auxiliary connections: cable entry, any free DN 50 / DN 70 / DN 100 connection nozzle, or vent nozzle

PG 36 cable gland for a cable duct with an inside diameter of 24 mm (for single-phase AC only)

Emergency drain 2 x DN 40, opposite to each other, outside diameter 49 mm. Floor drain DN 50

**Purchase order information:**

Make: KSB

Type series / size:

Material pricing group:

Weight:

**Material number:**

Electrical installations must be protected against overvoltage (compulsory since 14 December 2018) (see DIN VDE 0100-443 (IEC 60364-4-44:2007/A1:2015, modified) and DIN VDE 0100-534 (IEC 60364-5-53:2001/A2:2015, modified). Whenever modifications are made to existing installations, retrofitting a surge protective device (SPD) in accordance with VDE is mandatory.

The lightning protection concept must be provided by the operator or by a suitable supplier contracted by the operator. Surge protective devices can be offered for the control units on request.

**AmaDrainer-Box Z2 B - Dual-pump Lifting Unit**

Automatic grey water lifting unit for above-floor installation

**Function:**

Automatic grey water lifting unit for collecting unpressurised, domestic waste water without faeces as well as stormwater and lifting it above the flood level.

**Features:**

AmaDrainer-Box Z2 B, comprising:

- Collecting tank made of impact-resistant plastic, for floor mounting

- Closed with odour-proof cover

- Swing check valve and connection parts

- AmaDrainer submersible motor pump

- Connection set with full set of installation parts for AmaDrainer

**Operating data:**

Fluid handled:

Flow rate Q:

Head H:

Permissible fluid temperature: <= 40 °C in continuous operation

Free passage:

**Drive:**

Submersible motor pump

Supply voltage:

Frequency:

Rated power requirement P1:

Motor rating P2:

Nominal current:

**Monitoring / open-loop control / closed-loop control:**

LevelControl Basic 2 control unit for level-dependent control of two pumps

- Pump control unit for tank draining or filling (float switches, digital switches or 4 - 20 mA only)

- Up to 4 kW / 10 A per pump in plastic housing, up to 30 kW / 63 A per pump in sheet steel housing

- Thermal circuit breaker, PTC thermistor (from 5.5 kW) and motor protection switch (230 V: automatic circuit breaker)

- Automatic pump changeover for even distribution of operating hours and in the event of a fault

- Level measurement via float switch

- Numerical display with navigation keys for setting parameters and for indication of level and operating data

- Detailed status information: indicator lamps for operation, fault and high water; alarm buzzer

- Volt-free general fault indication

**Materials:**

Collecting tank: polyethylene (PE)

Cover: polyethylene (PE)

Pump: see description of AmaDrainer 3 or AmaDrainer 4../5..

**Dimensions and connections:**

Collecting tank volume: 200 l

Diameter: 710 mm

Height: 935 mm

Discharge side: DN 50, flexible hose connection, hose inside diameter 63 mm

Inlet side: 1 x DN 100 / DN 150 graded nozzle, outside diameter 110 / 159 mm

2 x DN 50 / DN 70 graded nozzles, opposite to each other, outside diameter 50 / 78 mm

2 x DN 70 / DN 100 graded nozzles, opposite to each other, outside diameter 78 / 110 mm

Venting: any free DN 50 / DN 70 / DN 100 / DN 150 connection nozzle

Auxiliary connections: cable entry via cable grommet for two motor power cables

Connector panel for cable glands, float switches 5 x M20 (drill diameter 20 mm)

Emergency drain 2 x DN 40, opposite to each other, outside diameter 49 mm

**Purchase order information:**

Make: KSB

Type series / size:

Material pricing group:

Weight:

**Material number:**

Electrical installations must be protected against overvoltage (compulsory since 14 December 2018) (see DIN VDE 0100-443 (IEC 60364-4-44:2007/A1:2015, modified) and DIN VDE 0100-534 (IEC 60364-5-53:2001/A2:2015, modified). Whenever modifications are made to existing installations, retrofitting a surge protective device (SPD) in accordance with VDE is mandatory.

The lightning protection concept must be provided by the operator or by a suitable supplier contracted by the operator. Surge protective devices can be offered for the control units on request.

**AmaDrainer-Box Z2 U - Dual-pump Lifting unit**

Automatic grey water lifting unit for underfloor installation

**Function:**

Automatic grey water lifting unit for collecting unpressurised, domestic waste water without faeces as well as stormwater and lifting it above the flood level.

**Features:**

AmaDrainer-Box 2Z U, comprising:

- Collecting tank made of impact-resistant plastic, for installation in substructures and foundations

- Cover with level-adjusting extension, cover plate with floor drain and siphon trap, swing check valve, connecting parts, provisional cover

- AmaDrainer submersible motor pump

- Connection set with full set of installation parts for AmaDrainer

**Operating data:**

Fluid handled:

Flow rate Q:

Head H:

Permissible fluid temperature: <= 40 °C in continuous operation

Free passage:

**Drive:**

Submersible motor pump

Supply voltage:

Frequency:

Rated power requirement P1:

Motor rating P2:

Nominal current:

**Monitoring / open-loop control / closed-loop control:**

LevelControl Basic 2 control unit for level-dependent control of two pumps

- Pump control unit for tank draining or filling (float switches, digital switches or 4 - 20 mA only)

- Up to 4 kW / 10 A per pump in plastic housing, up to 30 kW / 63 A per pump in sheet steel housing

- Thermal circuit breaker, PTC thermistor (from 5.5 kW) and motor protection switch (230 V: automatic circuit breaker)

- Automatic pump changeover for even distribution of operating hours and in the event of a fault

- Level measurement via float switch

- Numerical display with navigation keys for setting parameters and for indication of level and operating data

- Detailed status information: indicator lamps for operation, fault and high water; alarm buzzer

- Volt-free general fault indication

**Materials:**

Collecting tank: polyethylene (PE)

Extension: polyethylene (PE)

Cover: polyurethane (PUR)

Floor drain: polyamide (PA)

Pump: see description of AmaDrainer 3 or AmaDrainer 4../5..

**Dimensions and connections:**

Collecting tank volume: 200 l

Diameter: 710 mm

Height: adjustable from 970 mm to 1170 mm, or to 1470 mm with level-adjusting piece

Discharge side: horizontal DN 50, threaded end G 2 or, optionally, plain pipe end (glued nozzle), outside diameter 63 mm

Inlet side: 1 x DN 100 / DN 150 graded nozzle, outside diameter 110 / 159 mm

2 x DN 50 / DN 70 graded nozzles, opposite to each other, outside diameter 50 / 78 mm

2 x DN 70 / DN 100 graded nozzles, opposite to each other, outside diameter 78 / 110 mm

Venting: any free DN 50 / DN 70 / DN 100 / DN 150 connection nozzle

Auxiliary connections: cable entry, any free DN 50 / DN 70 / DN 100 / DN 150 connection nozzle

Emergency drain 2 x DN 40, opposite to each other, outside diameter 49 mm. Floor drain DN 50

**Purchase order information:**

Make: KSB

Type series / size:

Material pricing group:

Weight:

**Material number:**

Electrical installations must be protected against overvoltage (compulsory since 14 December 2018) (see DIN VDE 0100-443 (IEC 60364-4-44:2007/A1:2015, modified) and DIN VDE 0100-534 (IEC 60364-5-53:2001/A2:2015, modified). Whenever modifications are made to existing installations, retrofitting a surge protective device (SPD) in accordance with VDE is mandatory.

The lightning protection concept must be provided by the operator or by a suitable supplier contracted by the operator. Surge protective devices can be offered for the control units on request.

**Typical tender for AmaDrainer-Box**

**2336.521/05-EN**

**Subject to technical modification without prior notice**

**18 August 2021**