



**PUMP TECHNICAL
SERVICES LIMITED**




THE SUBMERSIBLE PUMP SPECIALISTS


MANUFACTURING | SALES | PROJECT DESIGN | INSTALLATION | MAINTENANCE AND REPAIRS

BAUFIX 100

EN Instruction Manual



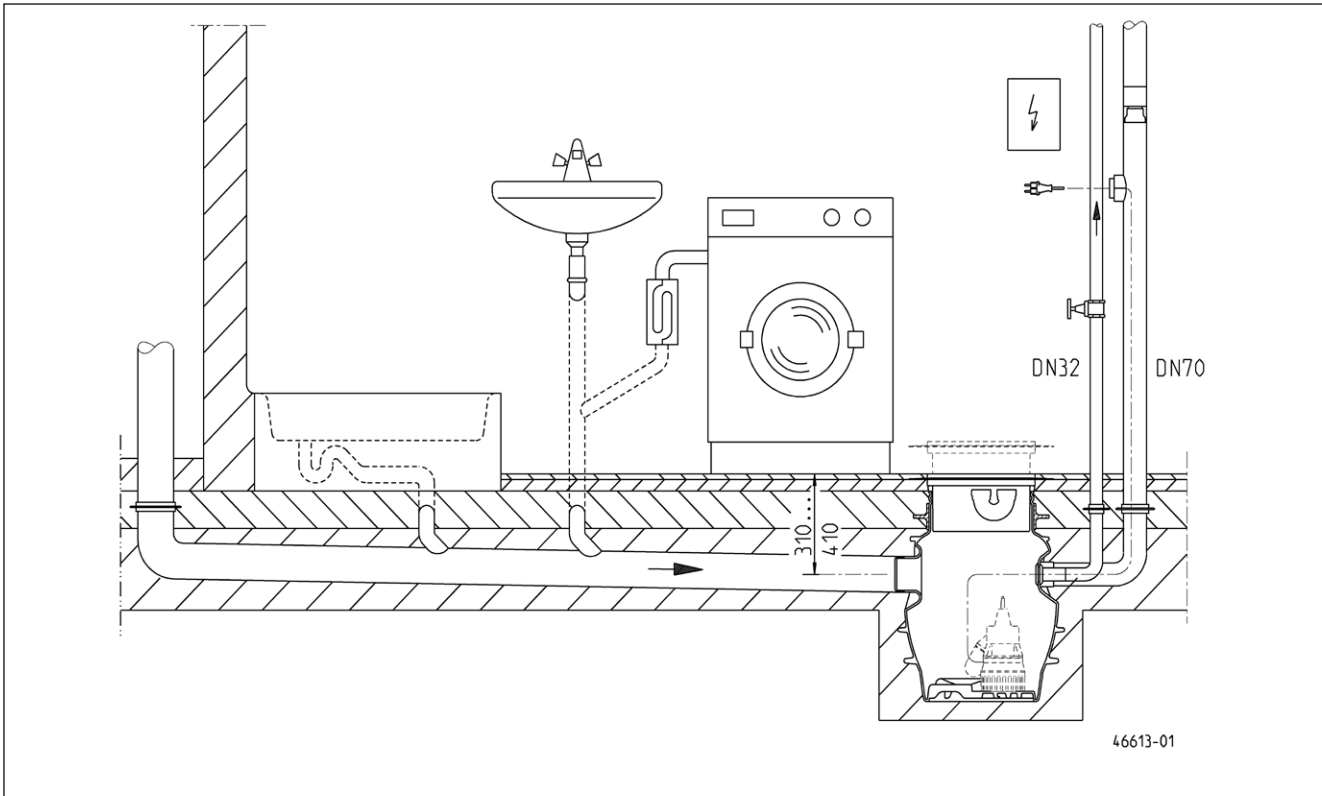
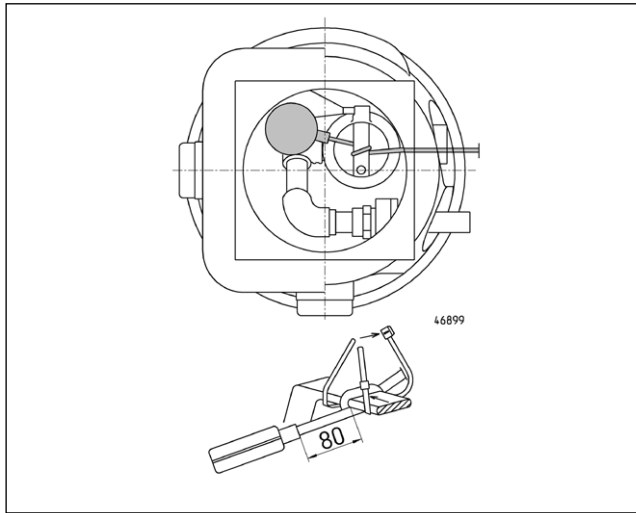
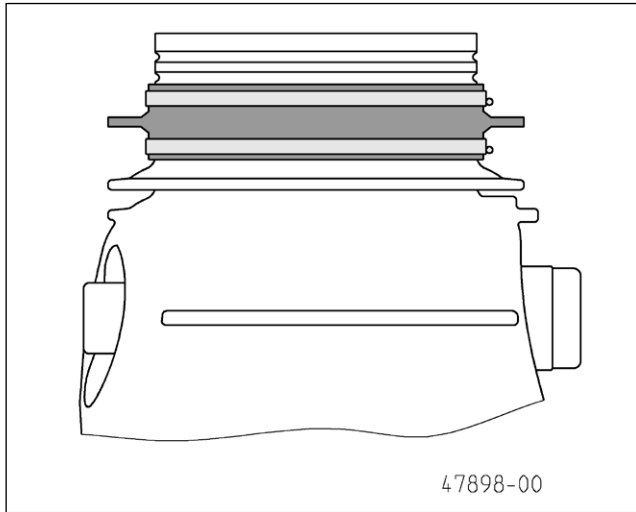
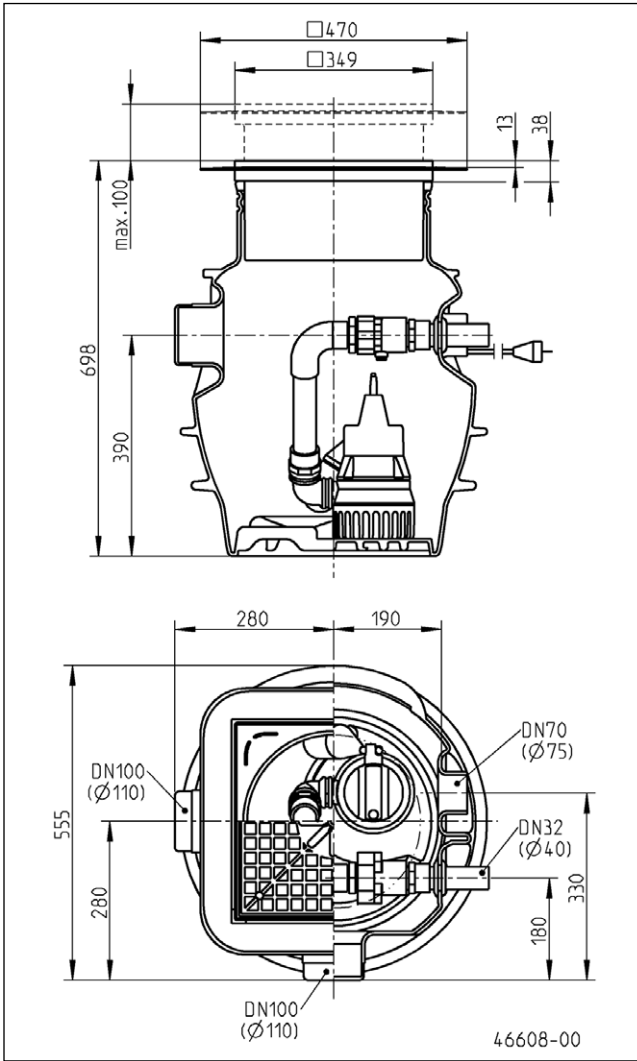
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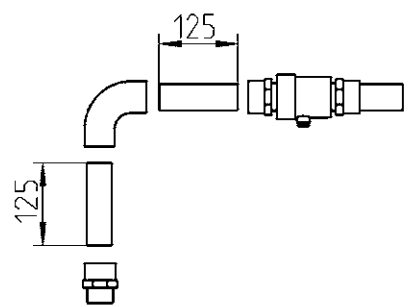
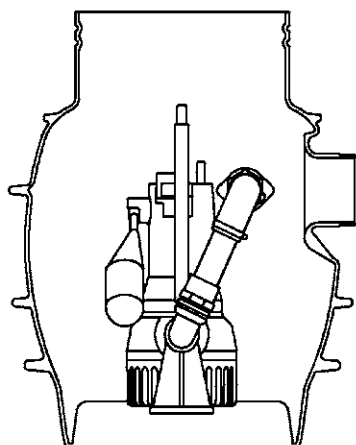
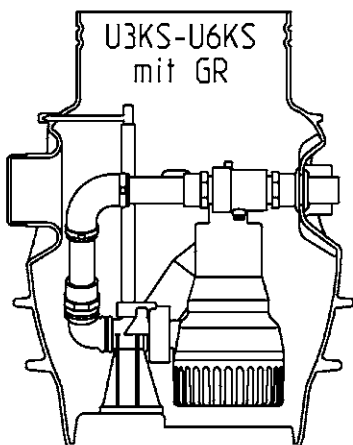
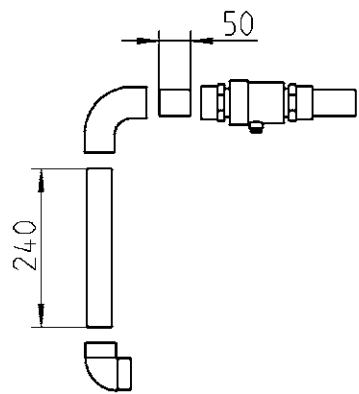
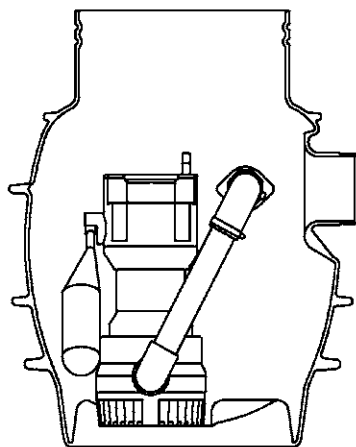
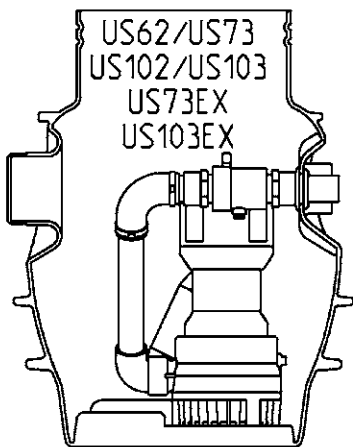
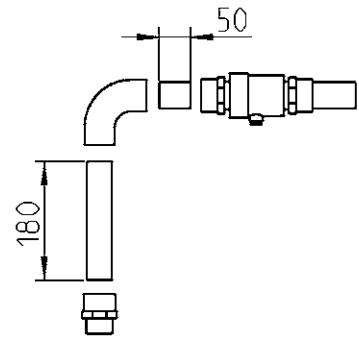
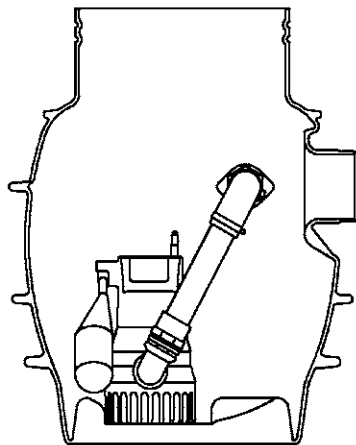
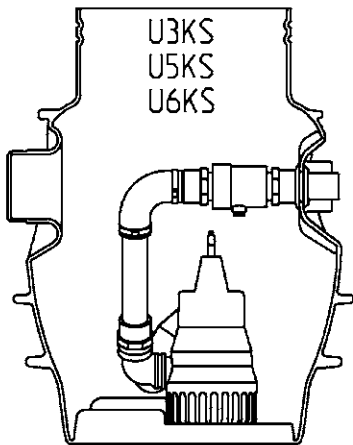
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You have purchased a product made by Pentair Jung Pumpen and with it, therefore, also excellent quality and service. Secure this service by carrying out the installation works in accordance with the instructions, so that our product can perform its task to your complete satisfaction. Please remember that damage caused by incorrect installation or handling will adversely affect the guarantee. Therefore please adhere to the instructions in this manual!

This appliance can be used by children aged 8 years or over and by persons with limited physical, sensory or intellectual capabilities, or with limited experience and knowledge, provided that they are supervised or have been instructed in the safe use of the appliance and are aware of the dangers involved. Children must not be allowed to play with the appliance. Cleaning and user maintenance must not be carried out by children unless they are supervised.

Damage prevention in case of failure

Like any other electrical device, this product may fail due to a lack of mains voltage or a technical defect.

If damage (including consequential damage) can occur as a result of product failure, the following precautions can be taken at your discretion:

- Installation of a water level dependent (under circumstances, mains-independent) alarm system, so that the alarm can be heard before damage occurs.
- Inspection of the collecting tank/chamber for tightness up to the top edge before – or at the latest, during – installation or operation of the product.
- Installation of backflow protection for drainage units that can be damaged by wastewater leakage upon product failure.
- Installation of a further product that can compensate in case of failure of the other product (e.g. duplex unit).
- Installation of an emergency power generator.

As these precautions serve to prevent or minimise consequential damage upon product failure, they are to be strictly observed as the manufacturer's guideline – in line with the standard DIN EN specifications as state of the art – when using the product (Higher Regional Court Frankfurt/Main, Ref.: 2 U 205/11, 06/15/2012).

SAFETY INSTRUCTIONS

This instruction manual contains essential information that must be observed during installation, operation and servicing. It is therefore important that the installer and the responsible technician/operator read this instruction manual before the equipment is installed and put into operation. The manual must always be available at the location where the pump or the plant is installed.

Failure to observe the safety instructions can lead to the loss of all indemnity.

In this instruction manual, safety information is distinctly labelled with particular symbols. Disregarding this information can be dangerous.



General danger to people



Warning of electrical voltage

NOTICE! Danger to equipment and operation

Qualification and training of personnel

All personnel involved with the operation, servicing, inspection and installation of the equipment must be suitably qualified for this work and must have studied the instruction manual in depth to ensure that they are sufficiently conversant with its contents. The supervision, competence and areas of responsibility of the personnel must be precisely regulated by the operator. If the personnel do not have the necessary skills, they must be instructed and trained accordingly.

Safety-conscious working

The safety instructions in this instruction manual, the existing national regulations regarding accident prevention, and any internal working, operating and safety regulations must be adhered to.

Safety instructions for the operator/user

All legal regulations, local directives and safety regulations must be adhered to.

The possibility of danger due to electrical energy must be prevented.

Leakages of dangerous (e.g. explosive, toxic, hot) substances must be discharged such that no danger to people or the environment occurs. Legal regulations must be observed.

Safety instructions for installation, inspection and maintenance works

As a basic principle, works may only be carried out to the equipment when it is shut down. Pumps or plant that convey harmful substances must be decontaminated.

All safety and protection components must be re-fitted and/or made operational immediately after the works have been completed. Their effectiveness must be checked before restarting, taking into account the current regulations and stipulations.

Unauthorised modifications, manufacture of spare parts

The equipment may only be modified or altered in agreement with the manufacturer. The use of original spare parts and accessories approved by the manufacturer is important for safety reasons. The use of other parts can result in liability for consequential damage being rescinded.

Unauthorised operating methods

The operational safety of the supplied equipment is only guaranteed if the equipment is used for its intended purpose. The limiting values given in the "Technical Data" section may not be exceeded under any circumstances.

Instructions regarding accident prevention

Before commencing servicing or maintenance works, cordon off the working area and check that the lifting gear is in perfect condition.

Never work alone. Always wear a hard hat, safety glasses and safety shoes and, if necessary, a suitable safety belt.

Before carrying out welding works or using electrical devices, check to ensure there is no danger of explosion.

People working in wastewater systems must be vaccinated against the pathogens that may be found there. For the sake of your health, be sure to pay meticulous Notice to cleanliness

wherever you are working.

Make sure that there are no toxic gases in the working area.

Observe the health and safety at work regulations and make sure that a first-aid kit is to hand.

In some cases, the pump and the pumping medium may be hot and could cause burns.

For installations in areas subject to explosion hazards, special regulations apply!

USE

The sump BAUFIX 100 is a conventional effluent collecting sump in conjunction with a separately ordered pump.

NOTICE! The Baufix must not be used in groundwater endangered areas unless it is fitted with the "groundwater seal" accessory.

The screwed cover is smell-tight and level compensating. The integrated and smell-tight floor drain can be opened on request.

Depending on the power requirement, various pump types can be installed:

U3KS, U5KS, U6K ES/DS, US 62 ES/DS, US 73 ES/DS, US 102 DS, US 103 ES/DS, US 73 Ex or US 103 Ex.

At installing the US 73 or 103 Ex pump an additional installation kit (code-No. JP22410) for the pressure sensor is necessary.

NOTICE! In some countries it must not be used for pumping sewage water from lavatories.

The allowed temperature of the pumped medium is 35 °C, short time period 60°C.

The BAUFIX 100 PE-tank has two collateral inlet sockets DN 100 offset by 90 °, one discharge socket for Ø 40 mm PVC pipe and a vent socket DN70.

Extent of delivery

Underground sump Baufix 100 pre-assembled with non-return valve 1 1/4", cover frame with seal, lid with sealing plug usable as a grommet, 2 bushings, hose connection, 2 hose clamps, PVC pipe, profiled seal, siphon and elbow 90°, moisture-proof seal.

Electrical Connection

Please refer to the relevant instructions in the manual for the pump.

MOUNTING

The pressure tube must be taken in a loop over the local back-pressure level and secured with a reflux valve. (DIN EN 12056). The reflux valve is already installed in the Baufix 100.

Accessory Groundwater seal

Fix the wall collar to the Baufix with the two strap retainers as a sealant against groundwater.

Installing the tank

1. Affix the sealing profile with the clamping area on the neck of the tank, taking care that the sealing cross-section (with the sealing lips) is facing inwards. Brush the seal with a mounting aid (such as technical Vaseline) and insert the

cover frame into the neck of the tank, initially at an angle, and then press the remainder in. The air should audibly escape from the seal and the cover frame should be securely in place. After assembling the frame, check that the seal is correctly positioned on the tank. If necessary, repeat the assembly of the frame if the seal is rolled up.

2. Saw open and deburr the inlet connections at the marked place (cap). Connect the inlet pipe and ventilation pipe with a KG pipe socket component (to be supplied by the user). Connect up the pressure pipe with a DN32 PVC pipe socket (to be supplied by the user).
3. After connecting the required pipes, align the Baufix 100 and fill in with earth. The entire cover must remain in the Baufix to prevent dirt from getting in.
4. Fix the tank in place and concrete it in, so that it finishes flush with the top edge. **Notice!** Do not concrete the cover frame in place. The height of this cover frame must remain freely adjustable by up to 100 mm and so be able to match the level of any flooring planned (screed, tiles).
5. Before constructing the flooring, adjust the cover frame to the intended height. The clamping action of the seal will hold it in place.
6. After the screed has set, the enclosed square seal is bonded to the integrated sealing strip. After the customer has attached a further thin-bed waterproofing system, the area can be tiled. **Information** on sealants and adhesives can be found in the information sheet on "Composite sealing" issued by the professional association of the German tile industry within the German Construction Confederation (ZDB).

Installing the pump

1. Cut the connecting parts to size, trim them if necessary and bond them (illustration).
2. Bond the short, horizontal pipe section to the pipe socket fitted with the swing-type check valve.
3. Screw the pipework together with the hose connection in the elbow of the pump.
4. Insert the pump in the catch of the Baufix tank bottom, connect the pipework to the non-return valve with the hose connection and tighten the hose clamps. **Notice!** Ensure the stable position of the pump as well as the free movement of the float switch!
5. Pull the cable up to the T-piece through the vent pipe. Enough cable has to be in the tank to allow the pump to be pulled out of the tank for servicing. The T-piece can then be sealed with the slotted plug.

Installation of floor drain

1. Take out the 2 screws of the cover plate and remove it.
2. Take the plug out of the cover connection piece with a screwdriver.
3. Screw the siphon with the union nut, the packing and the expanding ring on the connection piece.
4. The outlet of the siphon must not be positioned directly above the pump.
5. Grease the screws, ensure the correct position of the profiled seal and screw down the cover plate again.

Accessory guide rail system GR32

For the pumps U3KS, U5KS and U6KS is as an accessory guide rail system available that can be mounted in the Baufix. A simple pull out and lowering the pump is possible.

Accessory alarm device

The alarm device signals an excessive high water level. It can be installed subsequently. The cable is pulled through the vent pipe and sealed in the same way as the pump cable. The alarm unit should be connected to a separate electric circuit, to ensure the operation in case of a pump fault. Alternatively it can be equipped with our 9V-rechargeable battery for off the line operation.

Accessory special ventilation




If the ventilation over the roof level is not possible, alternatively the special ventilation consisting of a ventilation screen and 3 activated carbon filters can be installed with a T-piece in the cable pipe. An assembly instruction accompanies the special ventilation.



MAINTENANCE



The tank, the float switches and the foot strainer of the pump should be inspected regularly and cleaned if necessary.

To service the pump, please refer to the separate operating instruction.

NOTICE! Always grease the screws before using them to close the cover plate and ensure the correct position of the profiled seal.

					
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EN 12050-2:2001; 2015 Abwasserhebeanlage für fäkalienfreies Abwasser		EN 12050-2:2001; 2015 Lifting plant for faecal-free wastewater		EN 12050-2:2001; 2015 Lifting plant for faecal-free wastewater	
Hebefix (JP50210)	Baufix 50 (JP09335)	Hebefix (JP50210)	Baufix 50 (JP09335)	Hebefix (JP50210)	Baufix 50 (JP09335)
Hebefix 100 (JP09319)	Baufix 100 (JP47214)	Hebefix 100 (JP09319)	Baufix 100 (JP47214)	Hebefix 100 (JP09319)	Baufix 100 (JP47214)
Hebefix 100 H (JP09348)	Baufix 200-32 (JP48186)	Hebefix 100 H (JP09348)	Baufix 200-32 (JP48186)	Hebefix 100 H (JP09348)	Baufix 200-32 (JP48186)
Hebefix 200-32 (JP48188)	Baufix 200-50 (JP48187)	Hebefix 200-32 (JP48188)	Baufix 200-50 (JP48187)	Hebefix 200-32 (JP48188)	Baufix 200-50 (JP48187)
Hebefix 200-50 (JP48189)		Hebefix 200-50 (JP48189)		Hebefix 200-50 (JP48189)	
Sammeln von fäkalienfreiem Abwasser innerhalb von Gebäuden		Collection of faecal-free wastewater inside buildings		Collection of faecal-free wastewater inside buildings	
BRANDVERHALTEN	NPD	REACTION TO FIRE	NPD	REACTION TO FIRE	NPD
WASSERDICHTHEIT, LUFTDICHTHEIT		WATERTIGHTNESS, AIRTIGHTNESS		WATERTIGHTNESS, AIRTIGHTNESS	
- Wasserdichtheit	Bestanden	- Water tightness	Pass	- Water tightness	Pass
WIRKSAMKEIT (HEBEWIRKUNG)		EFFECTIVENESS (LIFTING EFFECTIVENESS)		EFFECTIVENESS (LIFTING EFFECTIVENESS)	
- Förderung von Feststoffen	NPD	- Pumping of solids	NPD	- Pumping of solids	NPD
- Rohranschlüsse	Bestanden	- Pipe connections	Pass	- Pipe connections	Pass
- Mindestmaße von Lüftungsleitungen	Bestanden	- Minimum dimensions of ventilating pipes system	Pass	- Minimum dimensions of ventilating pipes system	Pass
- Mindestfließgeschwindigkeit	Bestanden	- Minimum flow velocity	Pass	- Minimum flow velocity	Pass
- Mindestfeststoffdurchgang	Bestanden	- Minimum solids passage	Pass	- Minimum solids passage	Pass
- Freier Mindestdurchgang der Anlage	Bestanden	- Minimum free passage of the plant	Pass	- Minimum free passage of the plant	Pass
MECHANISCHE FESTIGKEIT	Bestanden	MECHANICAL RESISTANCE	Pass	MECHANICAL RESISTANCE	Pass
GERÄUSCHPEGEL	NPD	NOISE LEVEL	NPD	NOISE LEVEL	NPD
DAUERHAFTIGKEIT		DURABILITY		DURABILITY	
- der Wasserdichtheit	Bestanden	- of watertightness	Pass	- of watertightness	Pass
- der Hebewirkung	NPD	- of lifting effectiveness	NPD	- of lifting effectiveness	NPD
- der mechanischen Festigkeit	Bestanden	- of mechanical resistance	Pass	- of mechanical resistance	Pass
GEFÄHRLICHE SUBSTANZEN	NPD	DANGEROUS SUBSTANCES	NPD	DANGEROUS SUBSTANCES	NPD

 0197		 0197	
JUNG PUMPEN GmbH - Industriestr. 4-6 33803 Steinhagen, Germany 20 461.10.2022.07		JUNG PUMPEN GmbH - Industriestr. 4-6 33803 Steinhagen, Germany 20 461.10.2022.07	
EN 12050-2:2001; 2015 Station de relevage pour effluents exempts de matières fécales		EN 12050-2:2001; 2015 Afvalwaterpompinstallatie voor afvalwater zonder fecaliën	
Hebefix (JP50210) Baufix 50 (JP09335) Hebefix 100 (JP09319) Baufix 100 (JP47214) Hebefix 100 H (JP09348) Baufix 200-32 (JP48186) Hebefix 200-32 (JP48188) Baufix 200-50 (JP48187) Hebefix 200-50 (JP48189)		Hebefix (JP50210) Baufix 50 (JP09335) Hebefix 100 (JP09319) Baufix 100 (JP47214) Hebefix 100 H (JP09348) Baufix 200-32 (JP48186) Hebefix 200-32 (JP48188) Baufix 200-50 (JP48187) Hebefix 200-50 (JP48189)	
Collecte des eaux usées exemptes de matières fécales à l'intérieur des bâtiments		Verzamelen van fecaliënvrij afvalwater binnen gebouwen	
RÉACTION AU FEU	NPD	BRANDGEDRAG	NPD
ÉTANCHÉITÉ À L'EAU, ÉTANCHÉITÉ À L'AIR - Étanchéité à l'eau	Réussi	WATERDICHTHEID, LUCHTDICHTHEID - Waterdichtheid	succesvol
EFFICACITÉ (PERFORMANCE DE RELEVAGE) - Refoulement de matières solides - Raccords de tuyaux - Dimensions minimales des conduites d'aération - Débit minimum - Passage minimum des solides - Passage libre minimum de l'installation	NPD Réussi Réussi Réussi Réussi Réussi	RENDEMENT (HEFEFFECT) - Transport van vaste stoffen - Buisaansluitingen - Minimum afmeting van verluchttingsleidingen - Minimum doorstromingssnelheid - Minimum doorlaat vaste stoffen - Minimum vrije doorgang van de installatie	NPD succesvol succesvol succesvol succesvol succesvol
RÉSISTANCE MÉCANIQUE	Réussi	MECHANISCHE VASTHEID	succesvol
NIVEAU SONORE	NPD	GELUIDSNIVEAU	NPD
DURABILITÉ - de l'étanchéité à l'eau - de la performance de relevage - de la résistance mécanique	Réussi NPD Réussi	DUURZAAMHEID - van waterdichtheid - van het opheffingseffect - van de mechanische vastheid	succesvol NPD succesvol
SUBSTANCES DANGEREUSES	NPD	GEVAARLIJKE STOFFEN	NPD

 0197		 0197	
JUNG PUMPEN GmbH - Industriestr. 4-6 33803 Steinhagen, Germany 20 461.10.2022.07		JUNG PUMPEN GmbH - Industriestr. 4-6 33803 Steinhagen, Germany 20 461.10.2022.07	
EN 12050-2:2001; 2015 Stazione di sollevamento per acque di scarico prive di sostanze fecali		EN 12050-2:2001; 2015 Urządzenie do przetwarzania ścieków bez fekalii	
Hebefix (JP50210)	Baufix 50 (JP09335)	Hebefix (JP50210)	Baufix 50 (JP09335)
Hebefix 100 (JP09319)	Baufix 100 (JP47214)	Hebefix 100 (JP09319)	Baufix 100 (JP47214)
Hebefix 100 H (JP09348)	Baufix 200-32 (JP48186)	Hebefix 100 H (JP09348)	Baufix 200-32 (JP48186)
Hebefix 200-32 (JP48188)	Baufix 200-50 (JP48187)	Hebefix 200-32 (JP48188)	Baufix 200-50 (JP48187)
Hebefix 200-50 (JP48189)		Hebefix 200-50 (JP48189)	
Raccolta di acque reflue prive di sostanze fecali all'interno degli edifici		Zbieranie wolnych od fekalii ścieków wewnątrz budynków	
INFIAMMABILITÀ	NPD	WŁAŚCIWOŚCI OGNIOWE	NPD
IMPERMEABILITÀ, ERMETICITÀ ALL'ARIA - Impermeabilità	Superata	SZCZELNOŚĆ WODNA I POWIETRZNA - Szczelność wodna	Pozytywnie
EFFICACIA (CAPACITÀ DI SOLLEVAMENTO) - Pompaggio di materiali solidi - Collegamenti al tubo - Misure minime delle linee di ventilazione - Velocità di scorrimento minima - Passaggio minimo di solidi - Passaggio libero minimo dell'impianto	NPD Superata Superata Superata Superata Superata	SPRAWNOŚĆ DZIAŁANIA (SKUTECZNOŚĆ TŁOCZENIA) - Tłoczenie substancji stałych - Przyłącza rurowe - Wymiary minimalne przewodów wentylacyjnych - Minimalna prędkość przepływu - Minimalny przelot substancji stałych - Minimalna, swobodna przepustowość instalacji	NPD Pozytywnie Pozytywnie Pozytywnie Pozytywnie Pozytywnie
RESISTENZA MECCANICA	Superata	WYTRZYMAŁOŚĆ MECHANICZNA	Pozytywnie
SOGLIA DI RUMOROSITÀ	NPD	POZIOM HAŁASU	NPD
DUREVOLEZZA - di tenuta all'acqua - della capacità di sollevamento - della resistenza meccanica<	Superata NPD Superata	TRWAŁOŚĆ I WYTRZYMAŁOŚĆ - wodoszczelności - efektu podnoszenia - wytrzymałość mechaniczna	Pozytywnie NPD Pozytywnie
SOSTANZE PERICOLOSE	NPD	SUBSTANCJE NIEBEZPIECZNE	NPD



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