

JUNG PUMPEN MULTICUT08/2 ME
08/2 MES08/2 M
08/2 MS08/26 M
08/26 MS

08/2 M, EX

20/2 M PLUS

20/2 M PLUS, EX

DE Original-Betriebsanleitung**EN** Instruction Manual**FR** Instructions de service**NL** Gebruikshandleiding**IT** Istruzioni per l'uso**DA** Driftsvejledning**SV** Bruksanvisning**FI** Käyttöohje**PL** Instrukcja eksplatacji**CS** Návod pro provoz**SK** Návod na prevádzku**HU** Üzemeltetési útmutató**RO** Manual de utilizare**RU** Руководство по эксплуатации

You have purchased a product made by 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!

As with all electrical devices, this product can also fail to operate due to an interruption in the electricity supply or due to a technical defect. If this could result in damage, a mains-independent alarm system must be installed. Depending on the application, you may also wish to install an emergency power generator, or a second system as a back-up.

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

ATTENTION!

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 acces-

sories 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 attention 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!

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.

AREAS OF APPLICATION

Submersible pumps in the MultiCut range are suitable for effluent in pressure drainage systems or for the drainage of single dwellings.

MultiCut pumps are principally used for:

- effluent containing fibrous matter
- effluent containing solids (without stones)
- domestic effluent without faecal matter
- domestic effluent with faecal matter
- mechanically cleaned effluent

The submersible pumps are supplied without explosion protection or with explosion protection.

When using the pumps, the relevant national laws, regulations and stipulations must be adhered to, for example:

- Installation of lowvoltage systems (e.g., VDE 0100 in Germany)
- Safety and working materials (e.g., BetrSichV and BGR 500 in Germany)
- Safety in wastewater systems (e.g., GUV-VC5, GUV-R 104, GUV-R 126 in Germany)
- Electrical systems and operating resources (e.g., GUV-VA3 in Germany)
- Explosion protection
EN 60079-0:2012, EN 60079-1:2007, EN 60079-14:2007, EN 60079-14:2007 and EN 1127-1:2011

For non-standard utilisation conditions in areas subject to explosion hazards, please ask the local authority responsible.

In Germany, this would be, for example, the Trade Supervisory Centre (Gewerbeaufsicht), the Technical Inspection Agency (TÜV), the building authority (Bauamt) or professional organisation (Berufsgenossenschaft).

The installation and operation of this equipment is regulated by the ordinance concerning the protection of health and safety in the provision of work equipment and its use at work, concerning safety when operating installations subject to monitoring, and concerning the organisation of industrial health and safety at work, (Betriebssicherheitsverordnung), Article 1.

Where no explosion protection is stipulated for the pumping of foul wastewater at the installation location, pumps

without explosion protection may also be used.

Modes of operation

with the pumped medium at a temperature of 40°C:

Motor submersed: continuous operation S1

Motor emerged: short duration operation S2; see "Technical Data"

Motor emerged: intermittent operation S3; see "Technical Data"

The submersible pump is frost-resistant down to -20°C when stored in dry conditions. When installed, however, it must not be allowed to freeze in the water.

Transport

 The pump must always be lifted by the handle and never by the power supply cable! The pump should only be lowered by using a rope or chain.

ELECTRICAL CONNECTION

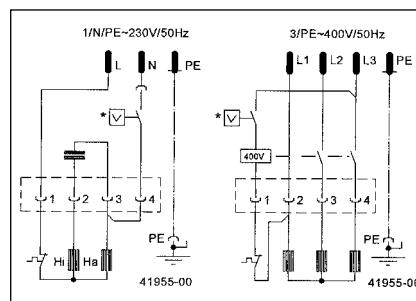
By using our controls, you can be sure that the requirements of the EU type-testing certificate are met.

 Only qualified electricians may carry out electrical works to the pump or the controls.

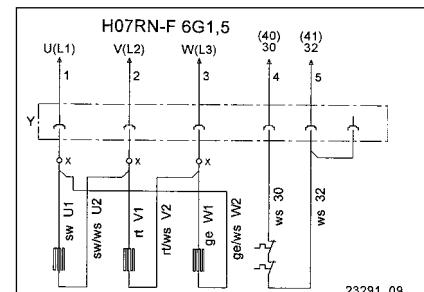
The standards applicable in each case (e.g. EN), the country-specific regulations (e.g. VDE in Germany), and the regulations of the local supply network operator must be observed.

ATTENTION! Never lay the end of cables in water! Penetrating water may cause malfunctions.

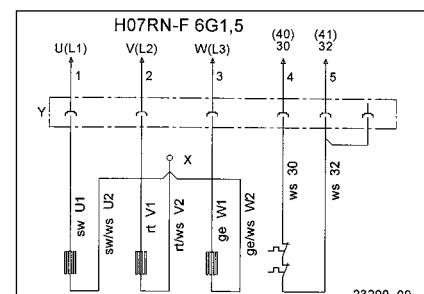
Circuitry 08/2 MES, 08/2 MS, 08/26 MS



Δ-Circuitry for low voltage (23291)



Y-Circuitry for high voltage (23290)



Alterations to the circuitry are to be made using crimp connectors (X) between the coni plug connection (Y) and the built-in motor. The new crimp connection must be professionally made.

Only slow-blow fuses or automatic fuses with C or D characteristics are to be used as pre-fuses for the pump. Necessary fuse protection at least 10 A.

The 3-phase-pumps must be protected via an overload trip. Setting = nominal current.

If the protective device has been triggered, the cause of the malfunction must be eliminated before switching on again.

Coil thermostats

ATTENTION! In addition to the overload trip or protective switch of the motor, the thermostats integrated in the motor winding must also be connected. The thermostats are suitable for 250 V / 1.2 A ($\cos \phi = 0.6$) and are labelled 30 and 32 for connection purposes.

For this reason, after the protective device has been triggered, the mains cable must be unplugged before remedying the cause of the failure, as otherwise the pump will be automatically switched on again.

Thermostat connection without explosion protection

The thermostats are to be connected in such a way that the motor is switched off via the control circuit when the re-

sponse temperature is reached. The motor is switched on again automatically after the winding has cooled down.

Thermostat connection with explosion protection

The thermostats are to be connected in such a way that the motor is switched off via the control circuit when the response temperature is reached. It must not be possible for the motor to switch on again automatically after the winding has cooled down.



After an automatic cut-out via the temperature limiters, the cause of the malfunction must first be eliminated. Only then may the motor be switched on again manually.

The restart interlock must be "non-resetting on power failure", i.e. the lock must be in place to prevent restarting even after a power cut (in Europe: Directive 94/9/EC, Appendix II 1.5, EN 60079-17 Table1, B10).

Operation with frequency converter

Frequency converters may only be used for controlling the frequency of special models of three-phase pumps. Alternating current pumps are unsuitable as a rule.

ATTENTION! For physical reasons, pumps may not be operated at a higher frequency than that shown on the type plate. If the frequency increases beyond the value on the type plate, the power input increases and the motor is then overloaded.

For special models of three-phase pumps that are designed for frequency converter operation, the motor type shown on the type plate is labelled with an additional "K" (e.g. D90-2/75 CK). These pumps also have a sticker on the end of the cable that indicates their suitability for use with a frequency converter.

These motors are fitted with PTC thermistors as winding protectors. Voltages of more than 2.5 V may not be connected to the winding protection terminals 40 and 41! For explosion protected pumps, a type-tested tripping unit that complies with the EC type-testing requirements is also necessary.

Rotational direction

Not applicable for alternating current pumps. The rotational direction must be checked before installation! If the ro-

tational direction is correct, the start-up jolt should be in the opposite direction to the rotational direction arrow on the motor housing. The wrong rotational direction is also indicated if the pump performs inadequately when installed, or if loud noises can be heard during operation. If the rotational direction is wrong, 2 phases of the supply cable must be swapped over.



The start-up jolt can be very forceful.

Potential equalisation

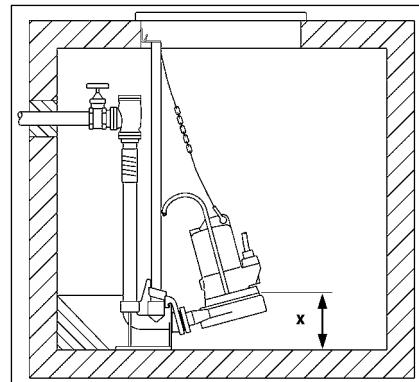
To comply with EN 60079-14 and EN 1127-1, an additional equipotential bonding must be installed for facilities with protective earth conductors in TN/TT networks in areas subject to explosion hazards. In Germany, for example, the design must be in accordance with VDE 0100, Part 540 (Association of German Electrical Engineers).

No additional potential equalisation is required on site for JUNG PUMPEN concrete or plastic chambers in explosion zones 1 and 2 (statement made by TÜV Nord [Technical Inspection Agency] in March 2008).

Exception: if conductive parts, such as cable protection sleeves made of corrugated pipe or a pressure pipe made of metal, are connected to the chamber from the outside. In this case, an electrically conductive connection must be made between the conductive parts and the housing of the pump(s). For corrosion protection reasons, the connection should be made using stainless steel.

Explosion protected pumps have a special connection point at the cable entry point.

Example installation with guide rail system for pumping stations at a permanent location.

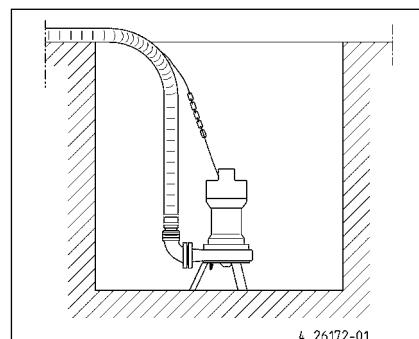


Assembly: Fix the coupling base firmly to the floor of the collection chamber using plugs and then mount the guide rails. Next, install the pressure pipe including the necessary fittings, such as the non-return valve and shut-off valves.

Finally, fit the pump with the screwed-on coupling catch on to the guide rails and lower it into place using a chain fixed to the shackle.

A fixing facility for lifting gear should be provided above the chamber opening at a sufficient height.

Example of installation with pump base or retrofitting or mobile operation.



Assembly: The submersible pump is fitted with a 90° connection and then lowered into the chamber or collecting pit using a chain. For short-term use, the pump can also be put into operation using a suitable plug.

Level monitoring can be carried out using various systems. Their specific characteristics and requirements can be found in the relevant operating manuals.



In accordance with the explosion protection laws and regulations, JUNG Ex-pumps should never be allowed to run dry or to operate in "snore" mode.

The pump must switch off when the water level sinks to the upper edge of the pump housing (x in the illustration), at the very latest. This shut-down must be implemented via a separate switching circuit. Dry running for servicing or inspection purposes may only take place outside the potentially explosive area.

A correspondingly larger diameter pipe should be used for longer pressure pipelines to avoid pipe friction losses.

Rising pressure pipes must be protected from frost! A chamber cover must be selected that is suitable for the intended use and has the required load-bearing capacity.

If the pump is malfunctioning, part of the contents of the oil reservoir could escape into the pumping medium.

Not Ex-pumps. If a hose is used as a pressure line, care must be taken to ensure that for every pumping operation the hose is completely empty before the pump is submersed. Any residual liquid would obstruct the ventilation of the pump housing and therefore also hinder the pumping operation.

This situation can also occur if the pump runs dry, pumps down to a lower lever than that shown in the installation drawing, or runs in "snore" mode during the daily test run.

SERVICING

We recommend that you service the equipment in accordance with EN 12056-4 and EN 60074-19.

To ensure continued reliability of service, we recommend that you take out a service contract.

Before carrying out any works: disconnect the pump and the controls from the mains and take steps to ensure that it cannot be energized again.

Check the cable for mechanical or chemical damage. A damaged or kinked cable must be replaced.

When using a chain to lift the pump, please observe the relevant national regulations regarding accident prevention. Lifting gear must be checked regularly by an expert in accordance with the legal regulations.



Motors in the EX range conform to the "flameproof enclosures" ignition protection category. Maintenance works that affect the explosion protection may only be carried out by authorised specialists or by the manufacturer. When carrying out repairs, all areas next to flameproof gaps must be checked for damages and, if necessary, replaced genuine parts.

Oil check

The oil reservoir is sealed on the outside with a sealing screw.. In order to check the mechanical seal, the oil, including any residue, must be drained from the oil reservoir and collected in a clean measuring container.

- If the oil is contaminated with water (milky), an oil change must be carried out. Check again after a further 300 operating hours, but at the very latest after 6 months!
- However, if the oil is contaminated with both water and pollutants, then not only the oil must be replaced, but the mechanical seal as well.

For monitoring the oil reservoir, it is also possible to retrofit the electrode of our "DKG" or DKG-Ex" seal leak control device in place of the "DKG" sealing screw.

Changing the oil

To ensure operational liability, the first oil change should be carried out after 300 operating hours, with further oil changes carried out after every 1000 operating hours.

If the number of operating hours is very low, an oil change should still be carried out at least once a year.

If wastewater with strongly abrasive constituents is being pumped, the oil changes should be carried out at correspondingly shorter intervals.

Use HLP hydraulic mineral oil, viscosity class 22 to 46, e.g. Mobil DTE 22, DTE 24, DTE 25, to replace the oil in the oil reservoir.

The volume of oil required is 350 cm³ for the MultiCut 08/2 M and 380 cm³ for the MultiCut 08/2 M EX, 20/2 M and 20/2 M EX.

The oil reservoir may only be filled with the specified quantity of oil. Overfilling will result in the pump being rendered inoperable.

Checking the pump unit

The housing screws for the pump, and the connecting and fixing screws of the installation must be checked to ensure they are fixed securely. They should be tightened if necessary.

If the pump performance decreases, or if increasingly loud noises can be heard during operation, or if the cutting performance decreases (the pump tends to become blocked), the impeller and cutting system must be checked for wear by an expert and replaced if necessary.

Replace the wear plate

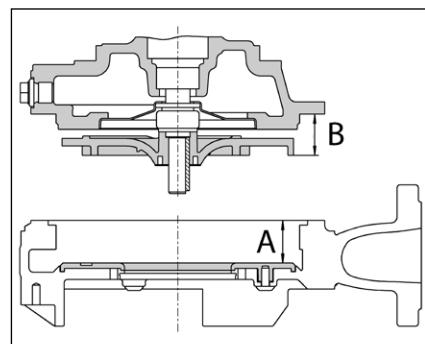
Replace the impeller

! Worn impellers can have sharp edges.

1. Block the cutting rotor with a piece of wood and unscrew the central hexagon socket screw
2. Unscrew the four hexagon socket screws on the top of the spiral housing, and take off the spiral housing.

3. **Wear plate:** Remove the old wear plate, clean the housing carefully and insert the new wear plate, making sure it is fitted level (MA=2.5 Nm).

Impeller: Fit the new impeller with the feather key onto the shaft, using the same number of adjusting washers as before.

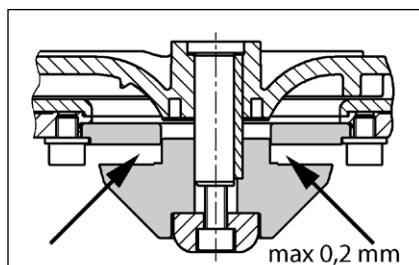


4. Measure dimension B on each blade and note the largest measurement.
5. Measure dimension A in several places and note the smallest measurement.
6. **ATTENTION!** The impeller gap A-B must measure:
...08/2M = 0,5-0,7 mm,
...20/2M = 0,8-1,0 mm.
If the gap is larger or smaller, use adjusting washers (12x16x0.2) under the impeller to adjust the gap.
7. Screw the spiral housing and the oil reservoir/motor back together again.
8. As a final step, put the cutting rotor back on and adjust the cutting gap.

Checking the cutting clearance

Using a suitable tool, e.g. feeler gauge, the cutting clearance between the cutting rotor and the cutting plate can be measured. A cutting clearance of over 0.2 mm must be reduced.

Adjustment of the cutting clearance



1. Block the cutting rotor with a piece of wood and unscrew the central hexagon socket screw.
2. Take off the compression piece, the cutting rotor and an adjusting washer and then attach the compression piece and the cutting rotor again.
3. Block the cutting rotor and tighten again with the hexagon socket screw (tightening torque 8 Nm).
4. Check the freedom of movement of the cutting rotor and the cutting clearance again (max. 0.2 mm).

If the cutting clearance is still too big, a further adjusting washer must be removed. Steps 1-4 must be repeated.

Cleaning

 Worn impellers can have sharp edges.
To clean the impeller and the spiral housing first of all remove the compression piece and the cutting rotor as described above. Then unscrew the 4 hexagon socket screws and remove the spiral housing.

The impeller and the spiral housing can now be cleaned. After this fit the individual components again and adjust the cutting clearance.

To clean the pump chamber a flushing pipe can be fitted as and when required. Type I-M is screwed into place immediately in front of the flange of pump 08/2 M. With the MultiCut 20/2 M, the "Luft" (Air) sealing screw is removed and the Type O flushing pipe is screwed in.

ATTENTION! If the wrong screws are unscrewed, the oil will run out of the oil reservoir.

Tightening torque M_A for A2 screw materials

for plastic screw Torx Plus® 25 IP 5x12
 $M_A = 2,5 \text{ Nm}$

for M 6 $M_A = 8 \text{ Nm}$
for M 8 $M_A = 20 \text{ Nm}$
for M 10 $M_A = 40 \text{ Nm}$
for M 12 $M_A = 70 \text{ Nm}$
for M 16 $M_A = 160 \text{ Nm}$

WHAT TO DO IN THE EVENT OF ANY PROBLEMS

Pump does not work

- Check mains current (do not use a pin gauge)
- Fuse faulty = may be too weak (please refer to Electrical Connection)
- Mains supply cable damaged = repair to be carried out by manufacturer only

Pump runs but does not pump

- Empty pressure pipe or hose to allow the non-return valve to open and let the air escape from the spiral housing.

Cutting system blocked

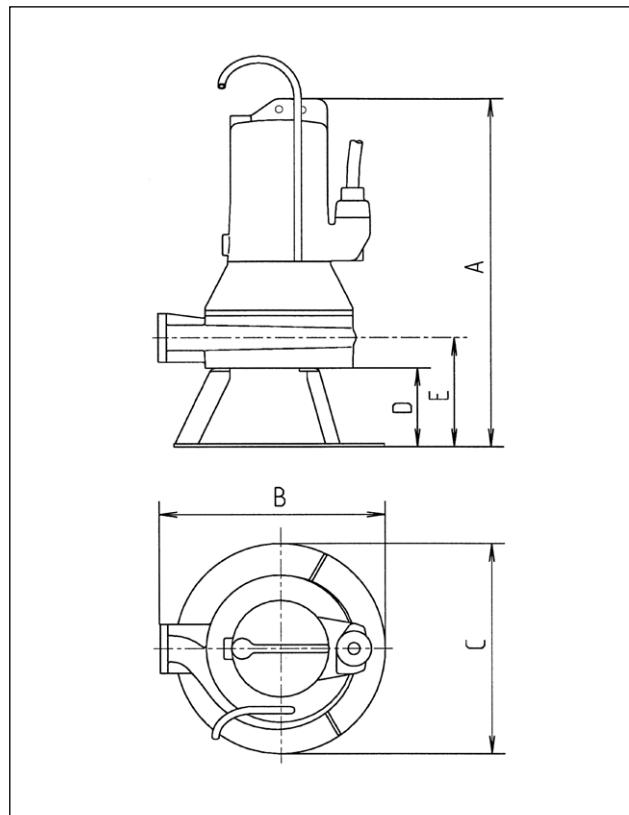
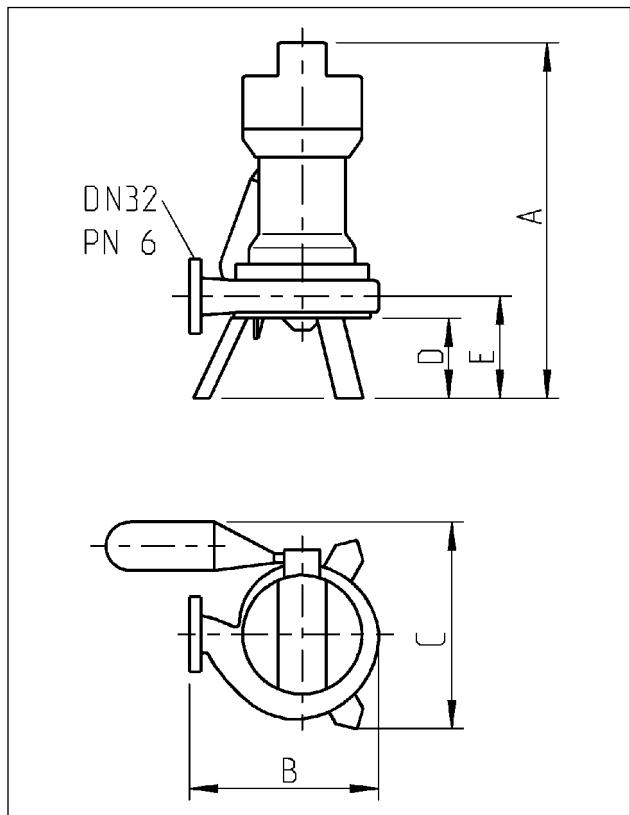
- Check the cutting system and readjust or replace as necessary.

Impeller blocked

- Clean spiral housing and impeller.

Decreased pumping performance

- The impeller is worn out = replace it
- Wrong direction of rotation = change 2 phases of the power supply



	A	B	C	D	E
08/2 ME	445	235	230	100	128
08/2 MES	445	340	255	100	128
08/2 M	445	235	230	100	128
08/2 MS	445	340	255	100	128
08/26 M	445	235	230	100	128
08/26 MS	445	340	255	100	128

	A	B	C	D	E
08/2 M, EX	395	235	230	100	128
20/2 M PLUS	440	290	230	100	140
20/2 M PLUS, EX	440	290	230	100	140

Leistungen • Performance • Puissances • Capaciteit • Prestazioni • Ydelser • Prestanda • Suorituskyvyt • Wydajności i moce • Výkony • Výkony • Teljesítmény • Capacități • Показатели

H [m]	1	3	5	7	9	11	13	15	17	19	21	23	Q [m³/h]
08/2 ME(S)	16,5	15,0	13,0	11,0	9,0	6,5	3,5						
08/2 M(S)	18,5	17,5	16,5	15,0	13,0	11,0	9,0	6,0	2,5				
08/26 M(S)	18,5	17,5	16,0	14,5	13,0	11,0	8,5	6,0	3,0				
08/2 M, EX	18,5	17,5	16,5	15,0	13,0	11,0	9,0	6,0	2,5				
20/2 M plus	18,5	18,0	18,0	18,0	17,0	16,0	15,0	13,0	11,0	9,0	6,0	3,0	
20/2 M plus, EX	18,5	18,0	18,0	18,0	17,0	16,0	15,0	13,0	11,0	9,0	6,0	3,0	

Technische Daten • Technical data • Caractéristiques techniques • Technische gegevens • Dati tecnici • Tekniske data • Tekniska data • Tekniset tiedot • Dane techniczne • Technické údaje • Technické údaje • Műszaki adatok • Date tehnice • Технические данные

	08/2 ME /1	08/2 M /3	08/26 M /3	20/2 M PLUS
[kg]	16,0	16,5	16,5	29,0
 PN 6	DN 32	DN 32	DN 32	DN 32
[mm]	7	7	7	7
S2	8 min.	8 min.	8 min.	12 min
S3*	10 %	10 %	10 %	25 %
Motor	E 71-2/80 A	D 71-2/80 A	D 71-2/80 A	D 71-2/105 B
P1 [kW]	1,37	1,65	1,80	2,40
P2 [kW]	0,98	1,24	1,33	1,91
U [V]	1/N/PE ~230	3/PE ~400	3/PE x 460	3/PE ~400
f [Hz]	50	50	60	50
I [A]	6,0	2,8	2,8	4,0
cos phi	0,98	0,85	0,86	0,86
n [min ⁻¹]	2705	2674	3200	2730

	08/2 M /3, EX	20/2 M PLUS, EX
[kg]	23,0	29,0
 PN 6 /10	DN 32	DN 32
[mm]	7	7
S2	20 min.	12 min
S3*	35 %	25 %
Motor	D 71-2/80 B 11 ATEX 1021 X Ex d IIb T4Gb	D 71-2/105 B 11 ATEX 1021 X Ex d IIb T4Gb
II 2 G		
P1 [kW]	1,65	2,40
P2 [kW]	1,24	1,91
U [V]	3/PE ~400	3/PE ~400
f [Hz]	50	50
I [A]	2,8	4,0
cos phi	0,87	0,86
n [min ⁻¹]	2800	2730

- * Beispiel: 40%: 4 min Betrieb + 6 min Pause (Spieldauer 10 min)
- * Example for 40%: 4 min. operation and 6 min. rest (Cycle duration 10 min.)
- * Exemple: 40% = 4 min de service et 6 min de pause (Durée du jeu 10 min)
- * Eksempel: 40 %: 4 min drift + 6 min pause (Spilletid 10 min)
- * Esempio: 40%: 4 min. di funzionamento + 6 min. di pausa (durata del ciclo 10 min.)
- * Exempel: 40 %: 4 min drift + 6 min paus (spellängd 10 min)
- * Esimerkki: 40 %: Käytöö 4 min + tauko 6 min (käyttöjakson pituus 10 min)
- * Przykładowo 40%: 4 min pracy i 6 min przerwy (Czas cyklu 10 min)
- * Příklad 40%: 4 min. provoz a 6 min. přestávka (trvání pracovního cyklu 10 min.)
- * Príklad 40%: 4 min prevádzka a 6 min prestávka (doba trvania cyklu 10 min)
- * 4 perc üzem és 6 perc szünet (ciklusidő 10 perc).
- * Exemplu 40%: 4 min functionare și 6 min pauză (timp aproximativ 10 min)
- * Пример: 40%: 4 мин. эксплуатация + 6 мин. пауза (длительность цикла 10 мин.)



JUNG PUMPEN

DE · Konformitätserklärung

CZ · Prohlášení o shodě

DK · Overensstemmelseserklæring

EN · Declaration of Conformity

FI · Vaatimustenmukaisuusvakuutus

FR · Déclaration de Conformité

HU · Megfelelőségi nyilatkozat

IT · Dichiarazione di conformità

NL · Conformiteitsverklaring

PL · Deklaracja zgodności

RO · Declarație de conformitate

SE · Försäkran om överensstämmelse

SK · Vyhľásenie o zhode

DE · Richtlinien - Harmonisierte Normen

CZ · Směrnice - Harmonizované normy

DK · Direktiv - Harmoniseret standard

EN · Directives - Harmonised standards

FI · Direktiivi - Yhdenmukaistettu standardi

FR · Directives - Normes harmonisées

HU · Irányelv - Harmonizált szabványok

IT · Direttive - Norme armonizzate

NL · Richtlijnen - Geharmoniseerde normen

PL · Dyrektwy - Normy zharmonizowane

RO · Directivă - Norme coroborate

SE · Direktiv - Harmoniserade normer

SK · Smernice - Harmonizované normy

• 2006/42 EG (Machinery)

EN 809:2010; EN ISO 12100:2010

• 2004/108 EG (EMC)

EN 61000-3-2:2010, EN 61000-3-3:2009

JUNG PUMPEN GmbH - Industriestr. 4-6 - 33803 Steinhagen - Germany - www.jung-pumpen.de

DE · Wir erklären in alleiniger Verantwortung, dass das Produkt den aufgeführten Richtlinien entspricht.

CZ · Prohlašujeme na svou výlučnou odpovědnost, že výrobek odpovídá jmenovaným směrnicím.

DK · Vi erklærer under ansvar at produktet i overensstemmelse med de retningslinjer

EN · We hereby declare, under our sole responsibility, that the product is in accordance with the specified Directives.

FI · Me vaatutamme omalla vastuullamme, että tuote täyttää ohjeita.

FR · Nous déclarons sous notre propre responsabilité que le produit répond aux directives.

HU · Kizárolagos felelősségeünk tudatában kijelentjük, hogy ez a termék megfelel az Európai Unió fentnevezett irányelveinek.

IT · Noi dichiariamo sotto la nostra esclusiva responsabilità che il prodotto è conforme alle direttive citate

NL · Wij verklaaren geheel onder eigen verantwoordelijkheid dat het product voldoet aan de gestelde richtlijnen.

PL · Z pełną odpowiedzialnością oświadczamy, że produkt odpowiada postanowieniom wymienionych dyrektyw.

RO · Declaram pe proprie răspundere că produsul corespunde normelor prevăzute de directivele mai sus menționate.

SE · Vi försäkrar att produkten på vårt ansvar är utförd enligt gällande riktlinjer.

SK · Na výlučnú zodpovednosť vyhlasujeme, že výrobok spĺňa požiadavky uvedených smerníc.

08/2 ME (JP09312/1)

08/2 MES (JP09613/1)

08/2 M (JP09945/3)

08/2 MS (JP09946/3)

20/2 M plus (JP42765)

DE · Weitere normative Dokumente CZ · Jinými normativními dokumenty DK · Andre normative dokumenter EN · Other normative documents FI · Muiden normien FR · Autres documents normatifs HU · Egyéb szabályozó dokumentumokban leírtaknak IT · Altri documenti normativi NL · Verdere normatieve documenten PL · Inymi dokumentami normatywnymi RO · Alte acte normative SE · Vidare normerande dokument SK · Iným záväzným dokumentom:

DE · Bevollmächtigter für technische Dokumentation CZ · Oprávněná osoba pro technickou dokumentaci DK · Autoriseret person for teknisk dokumentation EN · Authorized person for technical documentation FI · Valtuutettu henkilö teknisen dokumentaatiolla FR · Personne autorisée à la documentation technique HU · Hivatalos személy műszaki dokumentáció IT · Persona abilitata per la documentazione tecnica NL · Bevoegd persoon voor technische documentatie PL · Pełnomocnik ds. dokumentacji technicznej RO · Persoană autorizată pentru documentație tehnice SE · Auktoriseraad person för teknisk dokumentation SK · Oprávnena osoba pre technickú dokumentáciu:

JUNG PUMPEN · Stefan Sirges - Industriestr. 4-6 - 33803 Steinhagen

Steinhagen, 10-12-2013


Stefan Sirges, General Manager


ppa.
Frank Erdt, Sales Director



JUNG PUMPEN

DE · Konformitätserklärung

CZ · Prohlášení o shodě

DK · Overensstemmelseserklæring

EN · Declaration of Conformity

FI · Vaatimustenmukaisuusvakuutus

FR · Déclaration de Conformité

HU · Megfelelőségi nyilatkozat

IT · Dichiarazione di conformità

NL · Conformiteitsverklaring

PL · Deklaracja zgodności

RO · Declarație de conformitate

SE · Försäkran om överensstämmelse

SK · Vyhlásenie o zhode

DE · Richtlinien - Harmonisierte Normen
CZ · Směrnice - Harmonizované normy
DK · Direktiv - Harmoniseret standard
EN · Directives - Harmonised standards
FI · Direktiivi - Yhdenmukaistettu standardi

FR · Directives - Normes harmonisées
HU · Irányelv - Harmonizált szabványok
IT · Direttive - Norme armonizzate
NL · Richtlijnen - Geharmoniseerde normen
PL · Dyrektwy - Normy zharmonizowane

RO · Directivă - Norme coroborate
SE · Direktiv - Harmoniserade normer
SK · Smernice - Harmonizované normy

• 2006/42 EG [Machinery]

EN 809:2010; EN ISO 12100:2010

• 2004/108 EG [EMC]

EN 61000-3-2:2010, EN 61000-3-3:2009

• 94/9 EG [ATEX]

EN 60079-0:2012, EN 60079-1:2007, EN 60079-14:2007

JUNG PUMPEN GmbH - Industriestr. 4-6 - 33803 Steinhagen - Germany - www.jung-pumpen.de

DE · Wir erklären in alleiniger Verantwortung, dass das Produkt den aufgeführten Richtlinien entspricht.

CZ · Prohlašujeme na svou výlučnou odpovědnost, že výrobek odpovídá jmenovaným směrnicím.

DK · Vi erklærer under ansvar at produktet i overensstemmelse med de retningslinjer

EN · We hereby declare, under our sole responsibility, that the product is in accordance with the specified Directives.

FI · Me vakuuttamme omalla vastuullamme, että tuote täyttää ohjeita.

FR · Nous déclarons sous notre propre responsabilité que le produit répond aux directives.

HU · Kizárolágos felelősséggünk tudatában kijelentjük, hogy ez a termék megfelel az Európai Unió fenntevetett irányelvainak.

IT · Noi dichiariamo sotto la nostra esclusiva responsabilità che il prodotto è conforme alle direttive citate.

NL · Wij verklaren geheel onder eigen verantwoordelijkheid dat het product voldoet aan de gestelde richtlijnen.

PL · Z pełną odpowiedzialnością oświadczamy, że produkt odpowiada postanowieniom wymienionych dyrektyw.

RO · Declărăm pe proprie răspundere că produsul corespunde normelor prevăzute de directivele mai sus menționate.

SE · Vi försäkrar att produkten på vårt ansvar är utförd enligt gällande riktlinjer.

SK · Na výlučnú zodpovednosť vyhlasujeme, že výrobok spĺňa požiadavky uvedených smerníc.

08/2 M EX (JP42768)

20/2 M PLUS EX (JP42766)

20/2 M PLUS EX (JP45211)

20/2 M PLUS EX (JP45212)

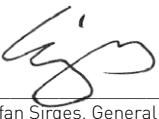
DE · Weitere normative Dokumente CZ · Jinými normativními dokumenty DK · Andre normative dokumenter EN · Other normative documents FI · Muiden normien FR · Autres documents normatifs HU · Egyéb szabályozó dokumentumokban leírtaknak IT · Altri documenti normativi NL · Verdere normatieve documenten PL · Innymi dokumentami normatywnymi RO · Alte acte normative SE · Vidare normerande dokument SK · Iným záväzným dokumentom:

DE · Bevollmächtigter für technische Dokumentation CZ · Oprávněná osoba pro technickou dokumentaci DK · Autorisert person for teknisk dokumentasjon EN · Authorized person for technical documentation FI · Valtuutettu henkilö tekniikan dokumentaatio FR · Personne autorisée à la documentation technique HU · Hivatalos személy műszaki dokumentáció IT · Persona abilitata per la documentazione tecnica NL · Bevoegd persoon voor technische documentatie PL · Pełnomocnik ds. dokumentacji technicznej RO · Persoană autorizată pentru documentație tehnice SE · Auktoriseraad person för teknisk dokumentation SK · Oprávnéná osoba pre technickú dokumentáciu:

JUNG PUMPEN · Stefan Sirges - Industriestr. 4-6 - 33803 Steinhagen

CE Ex II 2 G Ex d IIB T4Gb PTB 11 ATEX 1021 X

Steinhagen, 15-01-2014


Stefan Sirges, General Manager


ppa.
Frank Erdt, Sales Director

CE 317-11-1401

CE	0197
JUNG PUMPEN GmbH - Industriestr. 4-6 33803 Steinhagen, Germany	
13	
417.12.1504	
EN 12050-1:2001 Fäkalienhebeanlage	
08/2 ME (JP09312/1) 08/2 MES (JP09613/1) 08/2 M (JP09945/3) 08/2 MS (JP09946/3) 20/2 M PLUS (JP42765)	
08/2 M, EX (JP42768) 20/2 M PLUS, EX (JP42766) 20/2 M PLUS, EX (JP45211) 20/2 M PLUS, EX (JP45212)	
Sammeln und automatisches Heben von fäkalienfreiem und fäkalienhaltigem Abwasser über die Rückstauebene	

CE	0197
JUNG PUMPEN GmbH - Industriestr. 4-6 33803 Steinhagen, Germany	
13	
417.12.1504	
EN 12050-1:2001 Lifting plant for wastewater containing faecal matter	
08/2 ME (JP09312/1) 08/2 MES (JP09613/1) 08/2 M (JP09945/3) 08/2 MS (JP09946/3) 20/2 M PLUS (JP42765)	
08/2 M, EX (JP42768) 20/2 M PLUS, EX (JP42766) 20/2 M PLUS, EX (JP45211) 20/2 M PLUS, EX (JP45212)	
Collection and automatic lifting of wastewater without sewage and wastewater containing faecal matters above the backflow level	

BRANDVERHALTEN	NPD
WASSERDICHTHEIT	Bestanden
WIRKSAMKEIT (HEBEWIRKUNG)	
- Förderung von Feststoffen	Bestanden
- Rohrabschlüsse	Bestanden
- Mindestmaße von Lüftungsleitungen	NPD
- Mindestfließgeschwindigkeit	Bestanden
- Freier Mindestdurchgang der Anlage	Bestanden
- Mindestnutzvolumen	NPD
MECHANISCHE FESTIGKEIT	
- Tragfähigkeit und strukturelle Stabilität des Sammelbehälters für die Verwendung außerhalb von Gebäuden	NPD
- Strukturelle Stabilität des Sammelbehälters für die Verwendung innerhalb von Gebäuden	NPD
GERÄUSCHPEGEL	≤ 70 dB(A)
DAUERHAFTIGKEIT	
- der Wasserdichtheit und Luftdichtheit	Bestanden
- der Hebewirkung	Bestanden
- der mechanischen Festigkeit	Bestanden
GEFÄHRLICHE SUBSTANZEN	NPD

REACTION TO FIRE	NPD
WATERTIGHTNESS	Pass
EFFECTIVENESS (LIFTING EFFECTIVENESS)	
- Pumping of solids	Pass
- Pipe connections	Pass
- Minimum dimensions of ventilating pipes system	NPD
- Minimum flow velocity	Pass
- Minimum free passage of the plant	Pass
- Minimum useful volume	NPD
MECHANICAL RESISTANCE	
- Load bearing capacity and structural stability of collection tank for use outside buildings	NPD
- Structural stability of collection tank for use inside buildings	NPD
NOISE LEVEL	≤ 70 dB(A)
DURABILITY	
- of structural stability	Pass
- of lifting effectiveness	Pass
- of mechanical resistance	Pass
DANGEROUS SUBSTANCES	NPD