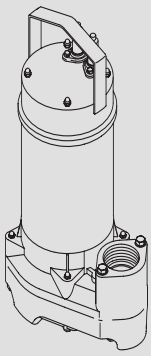


Wilo-Drain TS 40/10, TS 40/14
TS 40/10 A, TS 40/14 A

D Einbau- und Betriebsanleitung

GB Installation and operating instructions

F Notice de montage et de mise en service

NL Inbouw- en bedieningsvoorschriften

E Instrucciones de instalación y funcionamiento

I Istruzioni di montaggio, uso e manutenzione

P Manual de instalação e funcionamento

GR Οδηγίες εγκατάστασης και λειτουργίας

S Monterings- och skötselinstruktioner

FIN Asennus- ja käyttöohje

DK Monterings- og driftsvejledning

H Beépítési és üzemeltetési utasítás

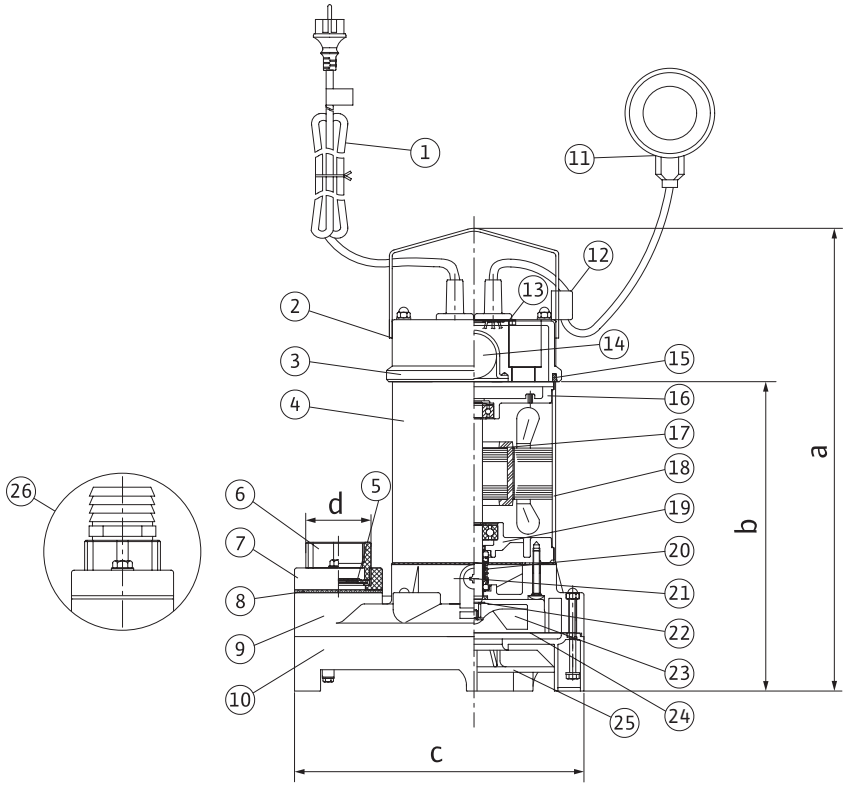
PL Instrukcja montażu i obsługi

CZ Návod k montáži a obsluze

RUS Инструкция по монтажу и эксплуатации

2 065 337 - Ed. 01 / 2006-05 - Wilo

Fig.1:



Typ	a	b	c	d	kg
TS 40/10 TS 40/10A	407	273	245	1½"	13 kg
TS 40/14 TS 40/14A	424	290	245	1½"	15 kg

Fig.2a:

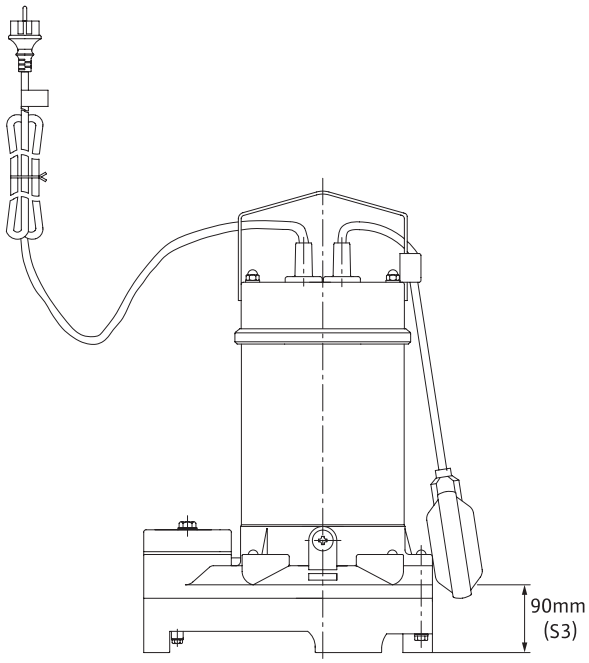
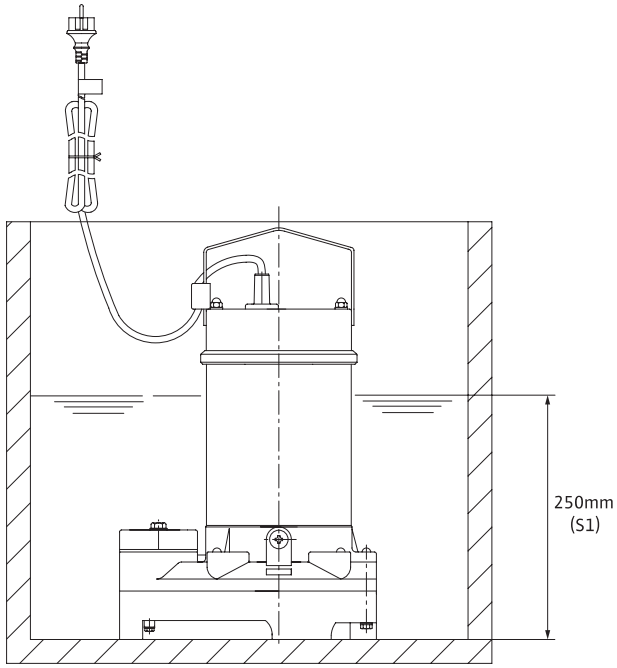


Fig.2b:



1 General

1.1 About this document

These installation and operating instructions are an integral part of the product. They must be kept readily available at the place where the product is installed. Strict adherence to these instructions is a precondition for the proper use and correct operation of the product.
These installation and operating instructions conform to the relevant version of the product and the underlying safety standards valid at the time of going to press.

2 Safety

These instructions contain important information which must be followed when installing and operating the pump. It is therefore imperative that they be read by both the installer and the operator before the pump is installed or operated.
Both the general safety instructions in this section and the more specific safety points in the following sections should be observed.

2.1 Instruction symbols used in this operating manual

Symbols:

General danger symbol

Hazards from electrical causes

NOTE: ...

Signal words:

DANGER!
Imminently hazardous situation.
Will result in death or serious injury if not avoided.

WARNING!
Risk of (serious) injury. 'Warning' implies that failure to comply with the safety instructions is likely to result in (severe) personal injury.

CAUTION!
Risk of damage to the pump/installation. 'Caution' alerts to user to potential product damage due to non-compliance with the safety instructions.

NOTE:
Useful information on the handling of the product. It alerts the user to potential difficulties.

2.2 Personnel qualification

The personnel installing the pump must have the appropriate qualification for this work.

2.3 Risks incurred by failure to comply with the safety instructions

Failure to comply with the safety precautions could result in personal injury or damage to the pump or installation. Failure to comply with the safety precautions could also invalidate any claim for damages.
In particular, failure to comply with these safety instructions could give rise, for example, to the following risks:

- Failure of important pump or system functions,
- Failure of specified maintenance and repair methods
- Personal injury due to electrical, mechanical and bacteriological causes.
- Damage to property

2.4 Safety instructions for the operator

The relevant accident precaution regulations must be observed.
Potential dangers caused by electrical energy must be excluded. Local or general regulations [e.g. IEC, VDE, etc.] and directives from local energy supply companies are to be followed.

2.5 Safety instructions for inspection and assembly

The operator must ensure that all inspection and assembly work is carried out by authorised and qualified specialists who have carefully studied these instructions.
Work on a pump or installation should only be carried out once the latter has been brought to a standstill.

2.6 Unauthorised modification and manufacture of spare parts

Changes to the pump/machinery may only be made in agreement with the manufacturer. The use of original spare parts and accessories authorised by the manufacturer will ensure safety. The use of any other parts may invalidate claims invoking the liability of the manufacturer for any consequences.

2.7 Improper use

The operating safety of the pump or installation can only be guaranteed if it is used in accordance with paragraph 4 of the operating instructions. All values must neither exceed nor fall below the limit values given in the catalogue or data sheet.

3 Transport and interim storage

Inspect the pump/system for transport damage immediately upon arrival. Any transport damage found must be reported to the carrier within the prescribed periods.

CAUTION! Risk of damage to the pump!
Risk of damage due to improper handling during transport or storage.

- **The pump may only be hung from or carried using the handle provided for transport. Never suspend or carry using the cable!**

- **The pump should be protected against moisture, frost and physical damage during transport and interim storage.**

4 Applications

DANGER! Risk of electric shock!
The pump may not be used for draining swimming-pools / garden ponds or similar places when there are people in the water.

WARNING! Risk of personal injury!

- **The materials are not designed for drinking water supply.**
  The pump must not be used for pumping drinking water.
- **The pumps must not be used:**
  • to pump raw sewage containing faeces,
  • in potentially explosive locations,
  Local regulations must be observed.
  The submersible motor pumps of the Wilo-Drain TS 40 are suitable for removing dirty water and clear fluids containing solids of max. 10 mm Ø from shafts, pits and vessels.
  They are used:
- for building and surface dewatering,
- in sewage and water-management,
- in environmental and domestic waste disposal,
- in industrial and process engineering.

The pumps
- are made from stainless steel (1.4301) and plastic (hydraulic).
- are normally submerged by the flow medium,
- can be installed stationary or transportable, but only vertically.

5 Product data

5.1 Type code

Example:	TS 40/10 A 1-230-50-2-5M KA, TS 40/14 3-400-50-2-10M KA
TS	Series: submersible motor pump, waste water
40	Nominal width: 40 = Rp 1½
/10	Maximum pump lift [m]: 10, 14
A	A = with float switch, connecting cable with plug - = not specified: without float switch, connecting cable with free cable end for 3~ motor
1-230	Mains voltage: 1~230 V, single-phase motor, 3~400 V, three-phase motor
-50	Mains frequency [Hz]
-2	2 poles
-10M KA	Connecting cable length [m]: 5, 10

5.2 Technical data

Permissible components of the flow media:	Mildly acidic / mildly alkaline, Chloride content max. 150 mg/l (for 1.4301 / AISI 304),
max. permissible grain size:	10 mm
Mains voltage:	1 ~ 230 V, ± 10 %, 3 ~ 400 V, ± 10 %
Mains frequency:	50 Hz
System of protection:	IP 68
Speed:	max. 2900 $^{1}/_{min}$ (50 Hz)
max. current consumption:	see rating plate
Power input P1:	see rating plate
Motor power rating P2:	see rating plate
max. flow rate:	see rating plate
max. pump lift:	see rating plate
Operating mode S1:	200 operating hours a year
Operating mode S3 (optimum):	Intermittent service, 25 % (2.5 min mode, 7.5 min break).
recommended operating frequency:	20 $^{1}/_{h}$
max. operating frequency:	50 $^{1}/_{h}$
Nominal width of pipe mount:	see rating plate
Temperature range of the flow medium:	+3 to 35 °C
max. immersion depth:	5 m
Oil filling:	ELFOLNA DS 22 or comparable, 410 ml

5.3 Scope of supply

Each pump is supplied with
- 5 / 10 m connecting cable,
- plug (earthing pin), (for single-phase current)
- built-in non return valve,
- connected float switch (A-version),
- hose connection 1½",
- pipe connection with outside thread 1½",
- Installation and operating instructions.

6 Description and operation

6.1 Pump description (Figure 1)

Pos.	Part description	Pos.	Part description
1	Cable assy	14	Capacitor
2	Head Cover	15	Gasket, Head Cover
3	Adaptor cover	16	End bracket (B)
4	Motorhousing	17	Rotor assy
5	Non-return valve	18	Stator
6	Pipe connection 1 ½"	19	End bracket (A)
7	Delivery port, Flange	20	Mechanical seal
8	Gasket, Flange	21	Oil drain plug with seal
9	Cover, Casing	22	Washer
10	Pump casing	23	Impeller
11	Floatswitch	24	Gasket, Casing
12	Cable holder	25	Strainer
13	Sealing, cable entry	26	Hose nozzle R1½ (outside thread)

The submersible motor pump is driven by an enclosed motor that is impermeable to presswater. Motor and pump have a continuous shaft. The flow medium enters from below through the central suction opening and exits by the vertical pressure-pipe connection. The pump has a built-in non return valve (pos. 5).
The TS 40 pumps are delivered with a half-open impeller (pos. 23). It pumps solids up to 10 mm Ø (no fibrous materials such as grass, leaves or rags).
For stationary installation, the pump is screwed to a fixed pressure-pipe (R 1½), and for transportable installation to a hose connection.
The motor of both types is sealed with a mechanical tandem seal (pos. 20) on the medium and motor side against the pump housing. So that the seals are lubricated and cooled in the case of dry running, the chamber between the mechanical seals is filled with oil.

CAUTION! Risk of leak!
If the mechanical seal is damaged, small quantities of oil may leak into the flow medium.

The motors are fitted with a thermal motor protection (1~: thermal winding contact (WSK), 3~: thermal motor control) that automatically switches the motor of if there is a threat of it overheating and switches it back on again once it has cooled down. A capacitor is fitted at the 1~ motor to generate the rotary field.

7 Installation and electrical connection

Installation and electrical connection should be carried out in accordance with local regulations and only by qualified personnel!

WARNING! Risk of personal injury!
The relevant accident precaution regulations must be observed.

WARNING! Risk of electric shock!
Potential dangers caused by electrical energy must be excluded.
Local or general regulations [e.g. IEC, VDE, etc.] and directives from local energy supply companies are to be followed.

7.1 Installation

The pump is designed for stationary and transportable wet-well installation.

CAUTION! Risk of damage to the pump!
- **Only suspend the pump using a chain or rope from the transport loop, never by the electric cable or pipe / hose connection.**
- **When the pump is lowered into the shaft or pit the connecting cable must not be damaged.**
- The pump must be installed in a frost-free place.
- The shaft must be free from coarse solids (e.g. building rubble) prior to installation and commissioning.
- See catalogue for installation dimensions.
- The pressure-pipe must show the pump's nominal width (R 1½, possibility for expansion).

7.1.1 Stationary wet-well installation

In the case of stationary wet-well installation of TS 40 pumps with pressure-pipe the pump is to be positioned and secured such that:
- the pressure-pipe connections do not bear the weight of the pump,
- the load of the pressure-pipe does not act on the connecting sleeve.

7.1.2 Transportable wet-well installation

In transportable wet-well installations, the pump in the shaft is to be protected against tipping over and slipping. (e.g. secure the chain with slight prestressing).

NOTE:
If used in pits without a solid floor, the pump must be placed on a sufficiently large plate or be suspended in a suitable position on a rope or chain.

7.2 Electrical connection

WARNING! Risk of electric shock!
Electrical connection must be carried out by an electrical installer authorised by the local power supply company in accordance with the applicable local regulations (e.g. VDE regulations).
- Check that the mains current and voltage comply with the data on the rating plate.

- Mains fuse: 16 A, time-lag,
- Pump / installation must be earthed in compliance with regulations,
- Use a residual current operating device ≤ 30 mA,
- Use a disconnecting device to disconnect from the mains with a contact gap width of min. 3 mm,
- The pump is ready for connection.
  Pump with three-phase current motor (3~400V):
- For the three-phase current connection (DM) the leads of the free cable end are to be assigned as follows:

4-leaded connection cable: 4 x $1{,}0^2$

Lead no	brown	black	blue	green/yellow
terminal	U	V	W	PE

The free cable end is to be wired up in the switch box (see switch box Installation and Operating Instructions).

8 Starting-up

DANGER! Risk of electric shock!
The pump may not be used for draining swimming-pools / garden ponds or similar places when there are people in the water.

CAUTION! Risk of damage to the pump
Prior to starting up the pump, the shaft and the intake pipes should be freed from solid matter such as rubbish.

8.1 Direction of rotation (only for three-phase current motors)

The correct direction of rotation must be tested before the pump is submerged. he correct direction of rotation is indicated by a directional arrow on the top of the motor housing.

- Hold the pump in your hand,
- Briefly switch on the pump. The pump will move in the opposite direction to the motor.
- If the direction of rotation is incorrect, 2 phases of the mains connection must be exchanged.

8.2 Adjusting the control level

CAUTION! Risk of damage to the pump!
The mechanical seal must not run dry!

- **Dry running reduces the life of motor and mechanical seal.**
- **As protection against dry running for the mechanical seal, the motor is fitted with an oil-filled separating chamber.**
- The water level may not be reduced below the minimum immersion depth of the pump. The level control is originally set at the following level: see figure 2
  - Fig. 2a:
    operating mode S3: connection and electrical data
  - Fig. 2b:
    operating mode S1: connection and electrical data
- When filling the shaft or lowering the pump into the pit make sure that the float switches can move freely.
- Switch on pump.

9 Maintenance

Maintenance and repair work should only be carried out by qualified personnel!

WARNING! Risk of infection!
In order to avoid any risk of infection, maintenance work should only be carried out using appropriate protective clothing (protective gloves).

WARNING! Risk of electric shock!
Potential dangers caused by electrical energy must be excluded

- **The pump must be switched off for all maintenance and repair work and secured against unauthorised operation.**
- **In principle, damage to the connecting cable should only be repaired by a qualified electrician.**
- **Change oil in the mechanical seal chamber one times the year.**
- Unscrew Oil drain plug with seal (Fig. 1, pos. 21).
- Cant the pump until the oil gets out (use a suitable collecting basin and dispose the oil correctly).
- Fill in new oil (see connection and electrical data).
- Screw in Oil drain plug with seal.

10 Problems, causes and remedies

Problems	Causes	Remedy
Pump does not run	Interruption of the current, short circuit. Insulation fault in the motor winding.	Check power supply,. Call on expert to check cable and motor.
	Safety fuse, capacitor defect.	Replace fuses, capacitor
	Cable break.	Check cable resistance. If necessary, replace cable. Only use original Wilo special cable!
	Level switch does not switch.	Check level switch.
Protective motor switch engaged	Protective motor switch not set correctly.	Switch to nominal current.
	Cutting device or impeller already blocked by foreign bodies.	• Switch off the pump voltage and secure against re-operation. • Close the shut-off valve at the back of the pump. • Remove pump from the sump. • Remove foreign bodies from the pump.
Pump does not pump	Air in spiral housing.	Ventilate backflow preventer.
	Level switch not set correctly.	Ensure that the suction impeller is flooded.
Pump transports too little, noisy operation	Wrong direction of rotation.	interchange two phases of the mains connection.
	Impeller worn down.	Change impeller.
	Impeller, cutting device or pump housing covered in sludge.	Clean pump, see sixth line.

If no solution can be found, please contact your plumbing and heating specialist or your nearest Wilo Customer Service or representative.

11 Spare parts

Spare parts are ordered via a local specialist dealer and/or Wilo customer service.
In order to avoid queries and incorrect orders, make sure to mention all data indicated on the rating plate when placing your order.

Subject to technical alterations!

D EG – Konformitätserklärung
GB EC – Declaration of conformity
F Déclaration de conformité CEE

Hiermit erklären wir, dass die Bauarten der Baureihe : **TS 40 / 10**
Herewith, we declare that this product: **TS 40 / 14**
Par le présent, nous déclarons que cet agrégat :

in der gelieferten Ausführung folgenden einschlägigen Bestimmungen entspricht:
in its delivered state comply with the following relevant provisions:
est conforme aux dispositions suivants dont il relève:

EG–Maschinenrichtlinie **EC–Machinery directive** **Directives CEE relatives aux machines**	**98/37/EG**
Elektromagnetische Verträglichkeit – Richtlinie **Electromagnetic compatibility – directive** **Compatibilité électromagnétique– directive**	**89/336/EWG** i.d.F/ as amended/ avec les amendements suivants: 91/263/EWG 92/31/EWG 93/68/EWG
Niederspannungsrichtlinie **Low voltage directive** **Direction basse–tension**	**73/23/EWG** i.d.F/ as amended/ avec les amendements suivants : 93/68/EWG
Bauproduktenrichtlinie **Construction product directive** **Directive de produit de construction**	**89/106/EWG** i.d.F/ as amended/ avec les amendements suivants : 93/68/EWG
Angewendete harmonisierte Normen, insbesondere: *Applied harmonized standards, in particular:* *Normes harmonisées, notamment:*	**EN 809** **EN 12050–2** **EN 12050–4** **EN 60034–1** **EN 60204–1** **EN 60335–2–41** **EN 61000–6–3** **EN 61000–6–4**

Dortmund, 18.04.2006

i. V.
Erwin Prieß
Quality Manager

WILO

WILO AG
Nortkirchenstraße 100
44263 Dortmund

Document: 2068756.2

NL **EG-verklaring van overeenstemming**

Hiermede verklaren wij dat dit aggregaat in de geleverde uitvoering voldoet aan de volgende bepalingen:

EG-richtlijnen betreffende machines 98/37/EG

Elektromagnetische compatibiliteit 89/336/EEG als vervolg op 91/263/EEG, 92/31/EEG, 93/68/EEG

EG-laagspanningsrichtlijn 73/23/EEG als vervolg op 93/68/EEG

Bouwproductenrichtlijn 89/106/EEG als vervolg op 93/86/EEG

Gebruikte geharmoniseerde normen, in het bijzonder: **1)**

I **Dichiarazione di conformità CE**

Con la presente si dichiara che i presenti prodotti sono conformi alle seguenti disposizioni e direttive rilevanti:

Direttiva macchine 98/37/CE

Compatibilità elettromagnetica 89/336/CEE e seguenti modifiche 91/263/CEE, 92/31/CEE, 93/68/CEE

Direttiva bassa tensione 73/23/CEE e seguenti modifiche 93/68/CEE

Direttiva linee guida costruzione dei prodotti 89/106/CEE e seguenti modifiche 93/68/CEE

Norme armonizzate applicate, in particolare: **1)**

E **Declaración de conformidad CE**

Por la presente declaramos la conformidad del producto en su estado de suministro con las disposiciones pertinentes siguientes:

Directiva sobre máquinas 98/37/CE

Directiva sobre compatibilidad electromagnética 89/336/CEE modificada por 91/263/CEE, 92/31/CEE, 93/68/CEE

Directiva sobre equipos de baja tensión 73/23/CEE modificada por 93/68/CEE

Directiva sobre productos de construcción 89/106/CEE modificada por 93/68/CEE

Normas armonizadas adoptadas, especialmente: **1)**

P **Declaração de Conformidade CE**

Pela presente, declaramos que esta unidade no seu estado original, está conforme os seguintes requisitos:

Directivas CEE relativas a máquinas 98/37/CE

Compatibilidade electromagnética 89/336/CEE com os aditamentos seguintes 91/263/CEE, 92/31/CEE, 93/68/CEE

Directiva de baixa voltagem 73/23/CEE com os aditamentos seguintes 93/68/CEE

Directiva sobre produtos de construção 89/106/CEE com os aditamentos seguintes 93/68/EWG

Normas harmonizadas aplicadas, especialmente: **1)**

S **CE- försäkran**

Härmed förklarar vi att denna maskin i levererat utförande motsvarar följande tillämpliga bestämmelser:

EG–Maskindirektiv 98/37/EG

EG–Elektromagnetisk kompatibilitet – riktlinje 89/336/EWG med följande ändringar 91/263/EWG, 92/31/EWG, 93/68/EWG

EG–Lågspänningsdirektiv 73/23/EWG med följande ändringar 93/68/EWG

EG-Byggmaterialdirektiv 89/106/EWG med följande ändringar 93/68/EWG

Tillämpade harmoniserade normer, i synnerhet: **1)**

N **EU-Overensstemmelseserklæring**

Vi erklærer hermed at denne enheten i utførelse som levert er i overensstemmelse med følgende relevante bestemmelser:

EG–Maskindirektiv 98/37/EG

EG–EMV–Elektromagnetisk kompatibilitet 89/336/EWG med senere tilføyelser: 91/263/EWG, 92/31/EWG, 93/68/EWG

EG–Lavspenningsdirektiv 73/23/EWG med senere tilføyelser: 93/68/EWG

Byggevaredirektiv 89/106/EWG med senere tilføyelser 93/68/EWG

Anvendte harmoniserte standarder, særlig: **1)**

FIN **CE-standardinmukaisuusseloste**

Ilmoitamme täten, että tämä laite vastaa seuraavia asiaankuuluvia määräyksiä:

EU–konedirektiivit: 98/37/EG

Sähkömagneettinen soveltuvuus 89/336/EWG seuraavin täsmennyksin 91/263/EWG 92/31/EWG, 93/68/EWG

Matalajännite direktiivit: 73/23/EWG seuraavin täsmennyksin 93/68/EWG

EU materiaalidirektiivi 89/106/EWG seuraavin täsmennyksin 93/68/EWG

Käytetyt yhteensovitetut standardit, erityisesti: **1)**

DK **EF-overensstemmelseserklæring**

Vi erklærer hermed, at denne enhed ved levering overholder følgende relevante bestemmelser:

EU–maskindirektiver 98/37/EG

Elektromagnetisk kompatibilitet: 89/336/EWG, følgende 91/263/EWG, 92/31/EWG, 93/68/EWG

Lavvolts-direktiv 73/23/EWG følgende 93/68/EWG

Produktkonstruktionsdirektiv 98/106/EWG følgende 93/68/EWG

Anvendte harmoniserede standarder, særligt: **1)**

H **EK. Azonossági nyilatkozat**

Ezennel kijelentjük,hogy az berendezés az alábbiaknak megfelel:

EK Irányelvek gépekhez: 98/37/EG

Elektromágneses zavarás/türés: 89/336/EWG és az azt kiváltó 91/263/EWG, 92/31/EWG, 93/68/EWG

Kisfeszültségü berendezések irány-Elve: 73/23/EWG és az azt kiváltó 93/68/EWG

Építési termékek irányelv 98/106/EWG és az azt kiváltó 93/68/EWG

Felhasznált harmonizált szabványok, különösen: **1)**

CZ **Prohlášení o shodě EU**

Prohlašujeme tímto, že tento agregát v dodaném provedení odpovídá následujícím příslušným ustanovením:

Směrnicím EU–strojní zařízení 98/37/EG

Směrnicím EU–EMV 89/336/EWG ve sledu 91/263/EWG, 92/31/EWG, 93/68/EWG

Směrnicím EU–nízké napětí 73/23/EWG ve sledu 93/68/EWG

Směrnicím stavebních produktů 89/106/EWG ve sledu 93/68/EWG

Použité harmonizační normy, zejména: **1)**

PL **Deklaracja Zgodności CE**

Niniejszym deklarujemy z pełną odpowiedzialnoscią że dostarczony wyrób jest zgdony z następującymi dokumentami:

EC–dyrektywa dla przemysłu maszynowego 98/37/EG

Odpowiedniość elektromagnetyczna 89/336/EWG ze zmianą 91/263/EWG, 92/31/EWG, 93/68/EWG

Normie niskich napięć 73/23/EWG ze zmianą 93/68/EWG

Wyroby budowlane 89/106/EWG ze zmianą 93/68/EWG

Wyroby są zgodne ze szczegółowymi normami zharmonizowanymi: **1)**

RUS **Деклация о соответствии Европейским нормам**

Настоящим документом заявляем, что данный агрегат в его объеме поставки соответствует следующим нормативным документам:

Директивы ЕС в отношении машин 98/37/EG

Электромагнитная устойчивость 89/336/EWG с поправками 91/263/EWG, 92/31/EWG, 93/68/EWG

Директивы по низковольтному напряжению 73/23/EWG с поправками 93/68/EWG

Директива о строительных изделиях 89/106/EWG с поправками 93/68/EWG

Используемые согласованные стандарты и нормы, в частности : **1)**

GR **Δήλωση προσαρμογής της Ε.Ε.**

Δηλώνουμε ότι το προϊόν αυτό σ' αυτή την κατάσταση παράδοσης ικανοποιεί τις ακόλουθες διατάξεις :

Οδηγίες ΕG για μηχανήματα 98/37/EG

Ηλεκτρομαγνητική συμβατότητα EG-89/336/EWG όπως τροποποιήθηκε 91/263/EWG 92/31/EWG, 93/68/EWG

Οδηγία χαμηλής τάσης EG–73/23/EWG όπως τροποποιήθηκε 93/68/EWG

Οδηγία κατασκευής 89/106/EWG όπως τροποποιήθηκε 93/68/EWG

Εναρμονισμένα χρησιμοποιούμενα πρότυπα, ιδιαίτερα: **1)**

TR **CE Uygunluk Teyid Belgesi**

Bu cihazın teslim edildiği şekliyle aşağıdaki standartlara uygun olduğunu teyid ederiz:

AB-Makina Standartları 98/37/EG

Elektromanyetik Uyumluluk 89/336/EWG ve takip eden, 91/263/EWG, 92/31/EWG, 93/68/EWG

Alçak gerilim direktifi 73/23/EWG ve takip eden, 93/68/EWG

Ürün imalat direktifi 89/106/EWG ve takip eden, 93/68/EWG

Kısmen kullanılan standartlar: **1)**

1) **EN 809,**
EN 12050-2,
EN 12050-4,
EN 60034-1,
EN 60204-1
EN 60335-2-41,
EN 61000-6-3,
EN 61000-6-4.

i.V.

Erwin Prieß
Quality Manager

WILO AG
Nortkirchenstraße 100
44263 Dortmund

WILO AG
Nortkirchenstraße 100
44263 Dortmund
Germany
T 0231 4102-0
F 0231 4102-7363
wilo@wilo.de
www.wilo.de

Wilo-Vertriebsbüros

G1 Nord
WILO AG
Vertriebsbüro Hamburg
Sinstorfer Kirchweg 74–92
21077 Hamburg
T 040 5559490
F 040 55594949

G2 Ost
WILO AG
Vertriebsbüro Berlin
Juliusstraße 52–53
12051 Berlin-Neukölln
T 030 6289370
F 030 62893770

G3 Sachsen/Thüringen
WILO AG
Vertriebsbüro Dresden
Frankenring 8
01723 Kesselsdorf
T 035204 7050
F 035204 70570

G4 Südost
WILO AG
Vertriebsbüro München
Landshuter Straße 20
85716 Unterschleißheim
T 089 4200090
F 089 42000944

G5 Südwest
WILO AG
Vertriebsbüro Stuttgart
Hertichstraße 10
71229 Leonberg
T 07152 94710
F 07152 947141

G6 Rhein-Main
WILO AG
Vertriebsbüro Frankfurt
An den drei Hasen 31
61440 Oberursel/Ts.
T 06171 70460
F 06171 704665

G7 West
WILO AG
Vertriebsbüro Düsseldorf
Westring 19
40721 Hilden
T 02103 90920
F 02103 909215

G8 Nordwest
WILO AG
Vertriebsbüro Hannover
Ahrensburger Straße 1
30659 Hannover-Lahe
T 0511 438840
F 0511 4388444

Zentrale Auftragsbearbeitung für den Fachgroßhandel

WILO AG
Auftragsbearbeitung
Nortkirchenstraße 100
44263 Dortmund
T 0231 4102-0
F 0231 4102-7555

Wilo-Kompetenz-Team

- Antworten auf alle Fragen rund um das Produkt, Lieferzeiten, Versand, Verkaufspreise
- Abwicklung Ihrer Aufträge
- Ersatzteilbestellungen – mit 24-Stunden-Lieferzeit für alle gängigen Ersatzteile
- Versand von Informationsmaterial

T 01805 R•U•F•W•I•L•O*
7•8•3•9•4•5•6
F 0231 4102-7666

Werktags erreichbar von 7–18 Uhr

Wilo-Kundendienst

WILO AG
Wilo-Service-Center
Nortkirchenstraße 100
44263 Dortmund

- Kundendienststeuerung
- Wartung und Inbetriebnahme
- Werksreparaturen
- Ersatzteilberatung

T 01805 W•I•L•O•K•D*
9•4•5•6•5•3
0231 4102-7900
F 0231 4102-7126

Werktags erreichbar von 7–17 Uhr. Wochenende und Feiertags 9–14 Uhr elektronische Bereitschaft mit Rückruf-Garantie!

Wilo-International

Österreich
Zentrale Wien:
WILO Handelsgesellschaft mbH
Eitnergasse 13
1230 Wien
T +43 5 07507-0
F +43 5 07507-15

Vertriebsbüro Salzburg:
Gnigler Straße 56
5020 Salzburg
T +43 5 07507-0
F +43 5 07507-15

Vertriebsbüro Oberösterreich:
Trattnachtalstraße 7
4710 Grieskirchen
T +43 5 07507-0
F +43 5 07507-15

Schweiz
EMB Pumpen AG
Gerstenweg 7
4310 Rheinfelden
T +41 61 8368020
F +41 61 8368021

Standorte weiterer Tochtergesellschaften

Aserbaidschan, Belarus, Belgien, Bulgarien, China, Dänemark, Estland, Finnland, Frankreich, Griechenland, Großbritannien, Irland, Italien, Kanada, Kasachstan, Korea, Kroatien, Lettland, Libanon, Litauen, Niederlande, Norwegen, Polen, Portugal, Rumänien, Russland, Schweden, Serbien & Montenegro, Slowakei, Slowenien, Spanien, Tschechien, Türkei, Ukraine, Ungarn, USA

Die Adressen finden Sie unter **www.wilo.de** oder **www.wilo.com**.

Stand Januar 2006
* 12 Cent pro Minute

WILO AG
Nortkirchenstraße 100
44263 Dortmund
Germany
T +49 231 4102-0
F +49 231 4102-7363
www.wilo.com

Wilo – International (Subsidiaries)

Austria
WILO Handelsges. m.b.H.
1230 Wien
T +43 5 07507-0
F +43 5 07507-15
office@wilo.at

Azerbaijan
WILO Caspian LLC
1014 Baku
T +994 12 4992372
F +994 12 4992879
info@wilo.az

Belarus
WILO Bel OOO
220035 Minsk
T +375 17 2503393
F +375 17 2503383
wilobel@wilo.by

Belgium
WILO NV/SA
1083 Ganshoren
T +32 2 4823333
F +32 2 4823330
info@wilo.be

Bulgaria
WILO Bulgaria EOOD
1125 Sofia
T +359 2 9701970
F +359 2 9701979
info@wilo.bg

Canada
WILO Canada Inc.
Calgary, Alberta T2A5L4
T/F +1 403 2769456
bill.lowe@wilo-na.com

China
WILO SALMSON (Beijing)
Pumps System Ltd.
101300 Beijing
T +86 10 80493900
F +86 10 80493788
wilobj@wilo.com.cn

Croatia
WILO Hrvatska d.o.o.
10090 Zagreb
T +38 51 3430914
F +38 51 3430930
wilo-hrvatska@wilo.hr

Czech Republic
WILO Praha s.r.o.
25101 Cestlice
T +420 234 098 711
F +420 234 098 710
info@wilo.cz

Denmark
WILO Danmark A/S
2690 Karlslunde
T +45 70 253312
F +45 70 253316
wilo@wilo.dk

Estonia
WILO Eesti OÜ
12618 Tallinn
T +372 6509780
F +372 6509781
info@wilo.ee

Finland
WILO Finland OY
02320 Espoo
T +358 9 26065222
F +358 9 26065220
wilo@wilo.fi

France
WILO S.A.S.
78310 Coignières
T +33 1 30050930
F +33 1 34614959
info@wilo.fr

Great Britain
WILO (U.K.) Ltd.
DE14 2WJ Burton-on-Trent
T +44 1283 523000
F +44 1283 523099
sales@wilo.co.uk

Greece
WILO Hellas AG
14569 Anixi (Attika)
T +30 10 6248300
F +30 10 6248360
wilo.info@wilo.gr

Hungary
WILO Magyarország Kft
2045 Törökbálint
(Budapest)
T +36 23 889500
F +36 23 889599
wilo@wilo.hu

Ireland
WILO Engineering Ltd.
Limerick
T +353 61 227566
F +353 61 229017
sales@wilo.ie

Italy
WILO Italia s.r.l.
20068 Peschiera
Borromeo (Milano)
T +39 02 5538351
F +39 02 55303374
wilo.italia@wilo.it

Kazakhstan
WILO Central Asia TOO
050010 Almaty
T +7 3272 785961
F +7 3272 785960
info@wilo.kz

Korea
WILO Pumps Ltd.
621-807 Gimhae
Gyeongnarn
T +82 55 3405809
F +82 55 3405885
wilo@wilo.co.kr

Latvia
WILO Baltic SIA
1019 Riga
T +371 7 145229
F +371 7 145566
mail@wilo.lv

Lebanon
WILO SALMSON
Lebanon s.a.r.l.
12022030 El Metn
T +961 4 722280
F +961 4 722285
wsl@cyberia.net.lb

Lithuania
WILO Lietuva UAB
03202 Vilnius
T/F +370 2 236495
mail@wilo.lt

The Netherlands
WILO Nederland b.v.
1948 RC Beverwijk
T +31 251 220844
F +31 251 225168
info@wilo.nl

Norway
WILO Norge A/S
0901 Oslo
T +47 22 804570
F +47 22 804590
wilo@wilo.no

Poland
WILO Polska Sp. z.o.o.
05-090 Janki k/Warszawy
T +48 22 7026161
F +48 22 7026100
wilo@wilo.pl

Portugal
Bombas Wilo-Salmson
Portugal
4050-040 Porto
T +351 22 2080350
F +351 22 2001469
bombas@wilo-salmson.pt

Romania
WILO Romania s.r.l.
041833 Bucuresti
T +40 21 4600612
F +40 21 4600743
wilo@wilo.ro

Russia
WILO Rus o.o.o.
123592 Moskau
T +7 095 7810690
F +7 095 7810691
wilo@orc.ru

Serbia & Montenegro
WILO Beograd d.o.o.
11000 Belgrade
T +381 11 2850242
F +381 11 2850553
dragan.simonovic@wilo.co.yu

Slovakia
WILO Slovakia s.r.o.
82008 Bratislava 28
T +421 2 45520122
F +421 2 45246471
wilo@wilo.sk

Slovenia
WILO Adriatic d.o.o.
1000 Ljubljana
T +386 1 5838130
F +386 1 5838138
wilo.adriatic@wilo.si

Spain
WILO Ibérica S.A.
28806 Alcalá de Henares
(Madrid)
T +34 91 8797100
F +34 91 8797101
wilo.iberica@wilo.es

Sweden
WILO Sverige AB
35246 Växjö
T +46 470 727600
F +46 470 727644
wilo@wilo.se

Switzerland
EMB Pumpen AG
4310 Rheinfelden
T +41 61 8368020
F +41 61 8368021
info@emb-pumpen.ch

Turkey
WILO Pompa Sistemleri
San. ve Tic. A.Ş.
34530 Istanbul
T +90 216 6610211
F +90 216 6610214
wilo@wilo.com.tr

Ukraina
WILO Ukraina t.o.w.
01033 Kiew
T +38 044 2011870
F +38 044 2011877
wilo@wilo.ua

USA
WILO-EMU LLC
Thomasville, Georgia
31758-7810
T +1 229 584 0098
F +1 229 584 0234
terry.rouse@wilo-emu.com

Wilo – International (Representation offices)

Bosnia and Herzegovina
71000 Sarajevo
T +387 33 714510
F +387 33 714511
zeljko.cvjetkovic@wilo.ba

Georgia
0177 Tbilisi
T/F +995 32 536459
info@wilo.ge

Macedonia
1000 Skopje
T/F +389 2122058
valerij.vojneski@wilo.com.mk

Moldova
2012 Chisinau
T/F +373 2 223501
sergiu.zagurean@wilo.md

Tajikistan
734025 Dushanbe
T +992 372 316275
info@wilo.tj

Uzbekistan
700046 Taschkent
T/F +998 71 1206774
info@wilo.uz

March 2006