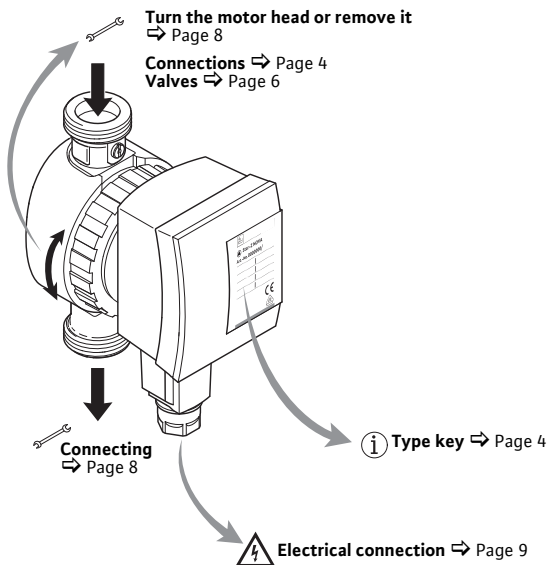


Wilo-Star-Z NOVA



en Installation and operating instructions
fr Notice de montage et de mise en service
es Instrucciones de instalación y funcionamiento
it Istruzioni di montaggio, uso e manutenzione
el Οδηγίες εγκατάστασης και λειτουργίας
tr Montaj ve kullanma kılavuzu
hu Beépítési és üzemeltetési utasítás
pl Instrukcja montażu i obsługi

cs Návod k montáži a obsluze
ru Инструкция по монтажу и эксплуатации
lv Uzstādīšanas un ekspluatācijas instrukcija
lt Montavimo ir naudojimo instrukcija
sk Návod na montáž a obsluhu
sv Monterings- och skötselansvisning
fi Asennus- ja käyttöohje
da Monterings- og driftsvejledning



⚠ Safety ⇨ Page 2

ⓘ Principle of operation ⇨ Page 6

🔧 Installation ⇨ Page 7

{ Faults ⇨ Page 12

2 Safety

About these instructions

- Read through these instructions completely before installation. Non-observance of these instructions can result in injury to persons and damage to the pump/unit.
- Once installation work is complete, pass the instructions on to the end user.
- Keep the instructions near the pump. They can be used as a reference if problems occur later.
- We accept no liability for damages resulting from failure to follow these instructions.

Safety information

Important safety information is indicated as follows:



Danger: Indicates a danger to life due to electrical current.



Warning: Indicates a possible danger to life or injury.



Caution: Indicates possible risks to the pump or other items.



Note: Highlights tips and information.

Qualification The pump may only be installed by qualified personnel. This product may not be commissioned or operated by persons with insufficient accountability (including children) or who do not possess the relevant specialist knowledge. Exceptions are only permitted on appropriate instruction from safety-responsible persons. The electrical connection may only be established by a qualified electrician.

Regulations The current versions of the following regulations must be observed when installing the equipment:

- Accident prevention regulations
- DVGW worksheet W551 (in Germany)
- VDE 0370/Part 1
- Other local regulations (e.g. IEC, VDE, etc.)

Conversion, spare parts The pump must not be technically modified or converted. It is not permitted to open the pump motor by removing the plastic lid. Only use original spare parts.

Transport Unpack and check the pump and all accessories upon receipt. Report any damage sustained in transit immediately.
Dispatch the pump in the original packing only.

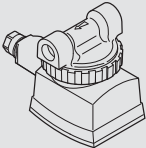
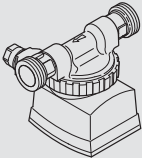
Electrical current There is a danger of an electric shock when working with electrical current. Therefore:

- Switch off the power before beginning work on the pump and make sure that it cannot be switched on again accidentally.
- Do not kink or nip the power cable or allow it to come into contact with heat sources.
- The pump is protected against drips in accordance with protection class IP 42. Protect the pump against water spray. Do not immerse in water or other fluids.

3.1 Type key

Star-Z	Series: Standard secondary hot water circulation pump, glandless pump
NOVA	Type designation A = with check valves C = with check valves and ready for connection with plug clock timer

3.2 Connections

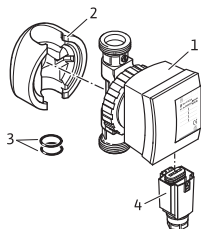
	Star-Z NOVA Screwed connection: 15 (Rp 1/2")
	Star-Z NOVA A and Star-Z NOVA C Screwed connection: 15 (Rp 1/2") and check valves

3.3 Data

Star-Z NOVA, Star-Z NOVA A, Star-Z NOVA C	
Mains voltage	1 ~ 230 V / 50 Hz
Protection class	42
Nominal diameter of connecting pipes	R ½
Installation length	84 mm (Type A: 138 mm)
Maximum permissible operating pressure	10 bar (1000 kPa)
Permitted fluid temperature range	+2 °C to +65 °C, in short-term operation up to 2 hours +70 °C
Max. ambient temperature	+ 40 °C
Max. permitted total hardness in secondary hot water circulation systems	20 °dH

See name plate or Wilo catalogue for further information.

3.4 Scope of delivery



- 1 Pump
- 2 Thermal insulation shell
- 3 Sealing rings
- 4 Wilo-Connector
- 5 Installation and operating instructions (not shown)

4.1 Application

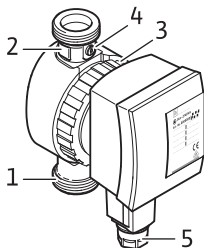
This circulator is suitable for drinking water only.

4.2 Functions

Valves

The Star-Z NOVA A and Star-Z NOVA C versions are equipped with a non-return valve (1) on the pressure side and with a stop valve (2) on the suction side.

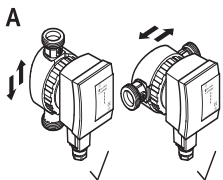
When exchanging the motor head (3), it is sufficient to cut the power by unplugging the connector (5) and to close the stop valve at the rotating slot (4). The motor head can then be simply unscrewed → Page 8.



5.1 Mechanical installation

Danger: Before starting work, make sure that the pump has been disconnected from the power supply.

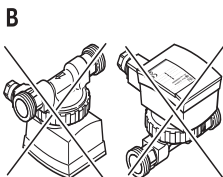
Installation site



Provide a weatherproof, frost-free, dust-free and well-ventilated room for the installation. Choose an installation site that is easily accessible.

Caution: Dirt can cause the pump to fail. Flush the pipe system before installation.

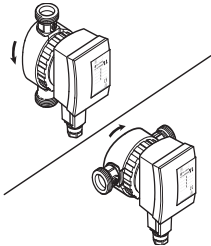
Note: In the case of the Star-Z NOVA A and Star-Z NOVA C versions, the stop valve and non-return valve are pre-installed. In the case of the Star-Z NOVA version, these valves have to be installed additionally.



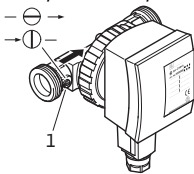
1. Prepare the installation site so that the pump can be installed without being exposed to mechanical stresses.
2. Choose the right installation position – only as shown in (Fig. A).
The arrow on the back of the housing indicates the direction of flow.

Installation

Turn the motor head or remove it



Open the stop valve



3. Release the union nut – unscrew it completely if necessary.



Caution: Do not damage the housing seal. Replace damaged seals.

4. Turn the motor head so that the Wilo-Connector points downwards.



Caution: If the position is wrong, water can penetrate and destroy the pump.

5. Tighten the union nut again.

6. Turn slot (1) with a screwdriver so that it is parallel to the direction of flow (only in the case of the Star-Z NOVA A, and Star-Z NOVA C versions).



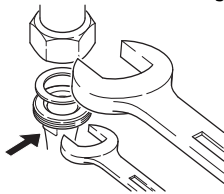
Note: To close, turn the slot so that it is across the direction of flow.

7. Fit the thermal insulation shell.



Caution: The plastic parts of the motor may not be heat-insulated in order to protect the pump from overheating.

Connecting



8. Connect the pipework.



Caution: For the versions with stop and non-return valves, these are already pre-installed and sealed with a tightening torque of 15 Nm (hand-tight). Screwing with excessive tightening torque destroys the valve screw connection and the O ring.

When installing the valve, use a fixed spanner to prevent twisting.

5.2 Electrical connection



Danger: Only a qualified electrician is allowed to work on the electrical connection. Before establishing the connection, make sure that the connecting cable is dead.

Establish the electrical connection as follows:

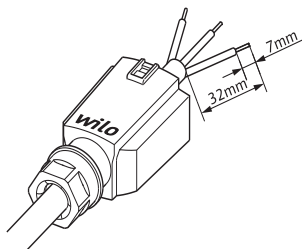


Fig. 1

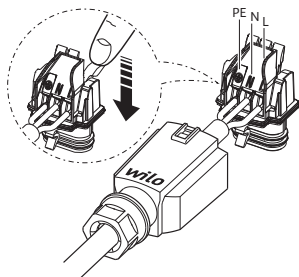


Fig. 2

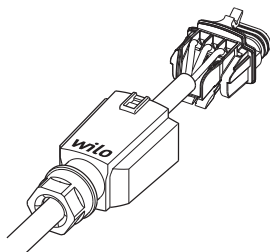


Fig. 3

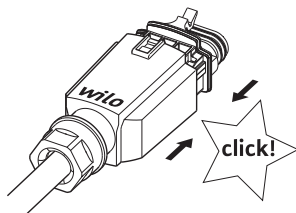


Fig. 4

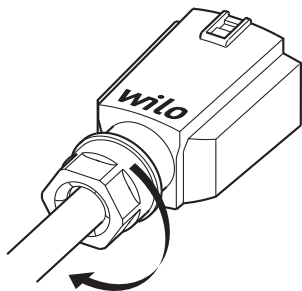
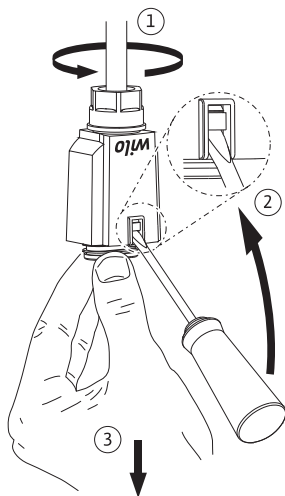


Fig. 5

Open the WILO- Connector as follows:



5.3 Filling and bleeding

1. Fill the system.
2. The pump rotor space bleeds automatically after a short time in operation. This may cause noises. If necessary, switch off and on repeatedly to accelerate the bleeding. Dry running for short periods will not harm the pump.

Cleaning Clean the outside of the pump with a slightly damp cloth only. Do not use detergents.

Replacing the motor head



Warning: When removing the motor head or pump, hot fluid may spurt out under high pressure. Allow the pump to cool down beforehand.

Close the stop valves before removing the pump
⇒ Page 8.



Note: When the motor is removed and running, noises and a change in rotation may occur. This is normal for this situation. Faultless operation can only be guaranteed when the pump is operated in fluid.

Replacing the motor head ⇒ Page 8.

Order the service motor from a specialist retailer.

Faults	Causes	Remedies
Pump does not start.	Interruption in the power supply, short-circuit or defective fuses.	Have the power supply checked by a qualified electrician.
	Time switching function has switched off automatically (Star-ZNOVAC version only).	Check the plug clock timer setting.
	Motor is blocked, e.g. by deposits from the water mains.	Have the pump removed by a qualified technician ⇒ Page 8.
Pump is making noises.	Motor scraping, e.g. through deposits from the water mains	Check that the impeller can move by turning it and rinse out the dirt that has accumulated.
	Running dry, too little water.	Check the check valves, they must be fully open.
	Air in the pump.	Switch the pump on/off 5 times for 30 s in each case.



Note: If you cannot remedy the fault, contact a specialist retailer.

Disposal

Avoid damage to the environment

- Do not dispose of the pump in household waste.
- Recycle the pump.
- If in doubt, contact local authorities and specialist waste management companies.



Note: For further information on recycling, see www.wilo-recycling.com.

D **EG - Konformitätserklärung**
GB **EC - Declaration of conformity**
F **Déclaration de conformité CE**

(gemäß 2004/108/EG Anhang IV, 2 und 2006/95/EG Anhang III, B,
according 2004/108/EC annex IV, 2 and 2006/95/EC annex III, B,
conforme 2004/108/CE appendice IV, 2 et 2006/95/CE l'annexe III B)

Hiermit erklären wir, dass die Bauart der Baureihe : **Star Z Nova**
Herewith, we declare that this pump type of the series:
Par le présent, nous déclarons que le type des pompes de la
série:

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

Niederspannungsrichtlinie **2006/95/EG**
Low voltage directive
Directive basse-tension

Elektromagnetische Verträglichkeit - Richtlinie **2004/108/EG**
Electromagnetic compatibility - directive
Directive compatibilité électromagnétique

und entsprechender nationaler Gesetzgebung.
and with the relevant national legislation,
et aux législations nationales les transposant,

Angewendete harmonisierte Normen, insbesondere: **EN 60335-2-51**
as well as following harmonized standards:
ainsi qu'aux normes (européennes) harmonisées suivantes:

Dortmund, 28.11.2012

A. C. Brasse

Claudia Brasse
Group Quality

wilo

WILO SE
Nortkirchenstraße 100
44263 Dortmund
Germany

<p align="center">(BG) - български език ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ ЕО</p> <p>WILO SE декларира, че продуктите посочени в настоящата декларация съответстват на разпоредбите на следните европейски директиви и приелите ги национални законодателства:</p> <p>Ниско Напрежение 2006/95/ЕО ; Електромагнитна съвместимост 2004/108/ЕО ; Продукти, свързани с енергопотреблението 2009/125/ЕО</p> <p>както и на хармонизираните европейски стандарти, упоменати на предишната страница.</p>	<p align="center">(CS) - Čeština ES PROHLÁŠENÍ O SHODĚ</p> <p>WILO SE prohlašuje, že výrobky uvedené v tomto prohlášení odpovídají ustanovením níže uvedených evropských směrnic a národním právním předpisům, které je přijímají:</p> <p>Nízké Napětí 2006/95/ES ; Elektromagnetická Kompatibilita 2004/108/ES ; Výrobků spojených se spotřebou energie 2009/125/ES</p> <p>a rovněž splňují požadavky harmonizovaných evropských norem uvedených na předcházející stránce.</p>
<p align="center">(DA) - Dansk EF-OVERENSSTEMMELSESERKLÆRING</p> <p>WILO SE erklærer, at produkterne, som beskrives i denne erklæring, er i overensstemmelse med bestemmelserne i følgende europæiske direktiver, samt de nationale lovgivninger, der gennemfører dem:</p> <p>Lavspændings 2006/95/EF ; Elektromagnetisk Kompatibilitet 2004/108/EF ; Energiøkonomiserende produkter 2009/125/EF</p> <p>De er ligeledes i overensstemmelse med de harmoniserede europæiske standarder, der er anført på forrige side.</p>	<p align="center">(EL) - Ελληνικά ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ ΕΚ</p> <p>WILO SE δηλώνει ότι τα προϊόντα που ορίζονται στην παρούσα ευρωπαϊκή δήλωση είναι σύμφωνα με τις διατάξεις των παρακάτω οδηγιών και τις εθνικές νομοθεσίες στις οποίες έχει μεταφερθεί:</p> <p>Χαμηλής Τάσης 2006/95/ΕΚ ; Ηλεκτρομαγνητικής συμβατότητας 2004/108/ΕΚ ; Συνδεδεμένα με την ενέργεια προϊόντα 2009/125/ΕΚ</p> <p>και επίσης με τα εξής εναρμονισμένα ευρωπαϊκά πρότυπα που αναφέρονται στην προηγούμενη σελίδα.</p>
<p align="center">(ES) - Español DECLARACIÓN CE DE CONFORMIDAD</p> <p>WILO SE declara que los productos citados en la presente declaración están conformes con las disposiciones de las siguientes directivas europeas y con las legislaciones nacionales que les son aplicables :</p> <p>Baja Tensión 2006/95/CE ; Compatibilidad Electromagnética 2004/108/CE ; Productos relacionados con la energía 2009/125/CE</p> <p>Y igualmente están conformes con las disposiciones de las normas europeas armonizadas citadas en la página anterior.</p>	<p align="center">(ET) - Eesti keel EÜ VASTAVUSDEKLARATSIOONI</p> <p>WILO SE kinnitab, et selles vastavustunnistuses kirjeldatud tooted on kooskõlas alljärgnevat Euroopa direktiivide sätetega ning riiklike seadusandlustega, mis nimetatud direktiivid üle on võtnud:</p> <p>Madalpingeseadmed 2006/95/EÜ ; Elektromagnetilist Ühilduvust 2004/108/EÜ ; Energiatõhusjuga toodete 2009/125/EÜ</p> <p>Samuti on tooted kooskõlas eelmiselt leheküljel ära toodud harmoniseeritud Euroopa standarditega.</p>
<p align="center">(FI) - Suomen kieli EY-VAATIMUSTENMUKAISUUSVAKUUTUS</p> <p>WILO SE vakuuttaa, että tässä vakuutuksessa kuvutat tuotteet ovat seuraavien eurooppalaisten direktiivien määrätysten sekä niihin sovellettavien kansallisten lakiasetusten mukaisia:</p> <p>Matala Jännite 2006/95/EY ; Sähkömagneettinen Yhteensopivuus 2004/108/EY ; Energiaan liittyvien tuotteiden 2009/125/EY</p> <p>Lisäksi ne ovat seuraavien edelläsiellä sivulla mainittujen yhdenmukaistettujen eurooppalaisten normien mukaisia.</p>	<p align="center">(HR) - Hrvatski EZ IZJAVA O SUKLADNOSTI</p> <p>WILO SE izjavljuje da su proizvodi navedeni u ovoj izjavi u skladu sa sljedećim prihvaćenim europskim direktivama i nacionalnim zakonima:</p> <p>Smjernica o niskom naponu 2006/95/EZ ; Elektromagnetna kompatibilnost - smjernica 2004/108/EZ ; Smjernica za proizvode relevantne u pogledu potrošnje energije 2009/125/EZ</p> <p>i usklađenim europskim normama navedenim na prethodnoj stranici.</p>
<p align="center">(HU) - Magyar EK-MEGFELELŐSÉGI NYILATKOZAT</p> <p>WILO SE kijelenti, hogy a jelen megfelelőségi nyilatkozatban megjelölt termékek megfelelnek a következő európai irányelvek előírásainak, valamint azok nemzeti jogrendbe áttüzetett rendelkezésének:</p> <p>Alacsony Feszültségű 2006/95/EK ; Elektromágneses összeférhetőségre 2004/108/EK ; Energiával kapcsolatos termékek 2009/125/EK</p> <p>valamint az előző oldalon szereplő, harmonizált európai szabványoknak.</p>	<p align="center">(IT) - Italiano DICHIARAZIONE CE DI CONFORMITÀ</p> <p>WILO SE dichiara che i prodotti descritti nella presente dichiarazione sono conformi alle disposizioni delle seguenti direttive europee nonché alle legislazioni nazionali che le traspongono :</p> <p>Bassa Tensione 2006/95/CE ; Compatibilità Elettromagnetica 2004/108/CE ; Prodotti connessi all'energia 2009/125/CE</p> <p>E sono pure conformi alle disposizioni delle norme europee armonizzate citate a pagina precedente.</p>
<p align="center">(LT) - Lietuvių kalba EB ATITIKTIES DEKLARACIJA</p> <p>WILO SE pareiškia, kad šioje deklaracijoje nurodyti gaminiai atitinka šių Europos direktyvų ir jas perkeliančių nacionalinių įstatymų nuostatas:</p> <p>Žema įtampa 2006/95/EB ; Elektromagnetinis Suderinamumas 2004/108/EB ; Energija susijusiems gaminiams 2009/125/EB</p> <p>ir taip pat harmonizuotas Europos normas, kurios buvo cituotos ankstesniame puslapyje.</p>	<p align="center">(LV) - Latviešu valoda EK ATBILSTĪBAS DEKLARĀCIJA</p> <p>WILO SE deklarē, ka izstrādājumi, kas ir nosaukti šajā deklarācijā, atbilst šeit uzskaitīto Eiropas direktīvu nosacījumiem, kā arī atveišķu valstu likumiem, kuros tie ir ietverti:</p> <p>Zemsprieguma 2006/95/EK ; Elektromagnētiskās Saderības 2004/108/EK ; Enerģiju saistītiem ražojumiem 2009/125/EK</p> <p>un saskaņotajiem Eiropas standartiem, kas minēti iepriekšējā lappusē.</p>
<p align="center">(MT) - Malti DIKJARAZZJONI KE TA' KONFORMITÀ</p> <p>WILO SE jiddikjara li i-prodotti speċifikati f'din id-dikjarazzjoni huma konformi mad-direttivi Ewropej li jsegwu u mal-legislazzjonijiet nazzjonali li japplikawhom:</p> <p>Vultaġġ Baxx 2006/95/KE ; Kompatibilità Elettramanjetika 2004/108/KE ; Prodotti relatati mal-enerġija 2009/125/KE</p> <p>kif ukoll man-normi Ewropej armonizzati li jsegwu imsemmija fil-paġna preċedenti.</p>	<p align="center">(NL) - Nederlands EG-VERKLARING VAN OVEREENSTEMMING</p> <p>WILO SE verklaart dat de in deze verklaring vermelde producten voldoen aan de bepalingen van de volgende Europese richtlijnen evenals aan de nationale wetgevingen waarin deze bepalingen zijn overgenomen:</p> <p>Laagspannings 2006/95/EG ; Elektromagnetische Compatibiliteit 2004/108/EG ; Energiegerelateerde producten 2009/125/EG</p> <p>De producten voldoen eveneens aan de geharmoniseerde Europese normen die op de vorige pagina worden genoemd.</p>

<p align="center">(NO) - Norsk EU-OVERENSSTEMMELSESERKLÆING</p> <p>WILO SE erklærer at produktene nevnt i denne erklæringen er i samsvar med følgende europeiske direktiver og nasjonale lover: EG-Lavspenningsdirektiv 2006/95/EG ; EG-EMV-Elektromagnetisk kompatibilitet 2004/108/EG ; Direktiv energirelaterede produkter 2009/125/EF og harmoniserte europeiske standarder nevnt på forrige side.</p>	<p align="center">(PL) - Polski DEKLARACJA ZGODNOŚCI WE</p> <p>WILO SE oświadcza, że produkty wymienione w niniejszej deklaracji są zgodne z postanowieniami następujących dyrektyw europejskich i transponującymi je przepisami prawa krajowego: Niskich Napięć 2006/95/WE ; Kompatybilności Elektromagnetycznej 2004/108/WE ; Produktów związanych z energią 2009/125/WE oraz z następującymi normami europejskich zharmonizowanymi podanymi na poprzedniej stronie.</p>
<p align="center">(PT) - Português DECLARAÇÃO CE DE CONFORMIDADE</p> <p>WILO SE declara que os materiais designados na presente declaração obedecem às disposições das directivas europeias e às legislações nacionais que as transcrevem : Baixa Voltagem 2006/95/CE ; Compatibilidade Electromagnética 2004/108/CE ; Produtos relacionados com o consumo de energia 2009/125/CE E obedecem também às normas europeias harmonizadas citadas na página precedente.</p>	<p align="center">(RO) - Română DECLARAȚIE DE CONFORMITATE CE</p> <p>WILO SE declară că produsele citate în prezenta declarație sunt conforme cu dispozițiile directivelor europene următoare și cu legislațiile naționale care le transpun : Joasă Tensiune 2006/95/CE ; Compatibilitate Electromagnetică 2004/108/CE ; Produsele cu impact energetic 2009/125/CE și, de asemenea, sunt conforme cu normele europene armonizate citate în pagina precedentă.</p>
<p align="center">(RU) - русский язык Декларация о соответствии Европейским нормам</p> <p>WILO SE заявляет, что продукты, перечисленные в данной декларации о соответствии, отвечают следующим европейским директивам и национальным предписаниям: Директива ЕС по низковольтному оборудованию 2004/95/EC ; Директива ЕС по электромагнитной совместимости 2004/108/EC ; Директива о продукции, связанной с энергопотреблением 2009/125/EC и гармонизированным европейским стандартам, упомянутым на предыдущей странице.</p>	<p align="center">(SK) - Slovenčina ES VYHLÁSENIE O ZHODE</p> <p>WILO SE čestne prehlasuje, že výrobky ktoré sú predmetom tejto deklarácie, sú v súlade s požiadavkami nasledujúcich európskych direktív a odpovedajúcich národných legislatívnych predpisov: Nízkonapäťové zariadenia 2006/95/ES ; Elektromagnetickú Kompatibilitu 2004/108/ES ; Energeticky významných výrobkov 2009/125/ES ako aj s harmonizovanými európskych normami uvedenými na predchádzajúcej strane.</p>
<p align="center">(SL) - Slovensčina ES-IZJAVA O SKLADNOSTI</p> <p>WILO SE izjavlja, da so izdelki, navedeni v tej izjavi, v skladu z določili naslednjih evropskih direktiv in z nacionalnimi zakonodajami, ki jih vsebujejo: Nizka Napetost 2006/95/ES ; Elektromagnetno Združljivostjo 2004/108/ES ; Izdelkov, povezanih z energijo 2009/125/ES pa tudi z usklajenimi evropskimi standardi, navedenimi na prejšnji strani.</p>	<p align="center">(SV) - Svenska EG-FÖRSÄKRAN OM ÖVERENSSTÄMMELSE</p> <p>WILO SE intygar att materialet som beskrivs i följande intyg överensstämmer med bestämmelserna i följande europeiska direktiv och nationella lagstiftningar som inför dem: Lågspännings 2006/95/EG ; Elektromagnetisk Kompatibilitet 2004/108/EG ; Energirelaterade produkter 2009/125/EG Det överensstämmer även med följande harmoniserade europeiska standarder som nämnts på den föregående sidan.</p>
<p align="center">(TR) - Türkçe CE UYGUNLUK TEYİD BELGESİ</p> <p>WILO SEbu belgede belirtilen ürünlerin aşağıdaki Avrupa yönetmeliklerine ve ulusal kanunlara uygun olduğunu beyan etmektedir: Alçak Gerilim Yönetmeliği 2006/95/AT ; Elektromanyetik Uyumluluk Yönetmeliği 2004/108/AT ; Eko Tasarım Yönetmeliği 2009/125/AT ve önceki sayfada belirtilen uyumlaştırılmış Avrupa standartlarına.</p>	

Дополнительная информация:

I. Информация о дате изготовления

Дата изготовления указана на заводской табличке оборудования.

Разъяснения по определению даты изготовления:

Например: YYwWW = 14w30

YY = год изготовления
w = символ «Неделя»
WW = неделя изготовления

II. Сведения об обязательной сертификации

Оборудование соответствует требованиям следующих Технических Регламентов Таможенного Союза:



ТР ТС 004/2011 «О безопасности
низковольтного оборудования»
ТР ТС 020/2011 «Электромагнитная
совместимость технических средств»

Наименование оборудования	Информация о сертификате	Срок действия
Циркуляционные насосы бытового назначения WILO	№ TC RU C-DE.AB24.B.01946, выдан органом по сертификации продукции ООО «СП «СТАНДАРТ ТЕСТ», город Москва	26.12.2014 - 25.12.2019

III. Информация о производителе и официальных представительствах

1. Информация об изготовителе.

Изготовитель: WILO SE (ВИЛО СЕ)

Страна производства указана на заводской табличке оборудования.

2. Официальные представительства на территории Таможенного Союза.

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