



**WACKER
NEUSON**
all it takes!

Operator's manual

Battery driven internal vibrator

ACBe



Machine Type
Material number
Version
Date
Language

IEe38, IEe45, IEe58
5100051220
3
12/2020
[us]



Imprint

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Original operator's manual

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California Proposition 65 Warning



WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.



WARNING

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.



WARNING

Cancer and Reproductive Harm -
www.P65Warnings.ca.gov.



WARNING

Batteries, battery posts, terminals and related accessories contain lead and lead compounds, and other chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. WASH HANDS AFTER HANDLING.



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**WACKER
NEUSON**

EC Declaration of Conformity

Manufacturer

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, D-85084 Reichertshofen
This declaration of conformity is issued under the sole responsibility of the manufacturer.

Product	ACBe
Product type	Converter
Function of product	Conversion of voltage and frequency
Material number	5100050080

Guidelines and standards

We hereby declare that this product complies with the relevant provisions and requirements of the following directives and standards:

2014/30/EU, 2011/65/EU, EN 55014-1:2017, EN 55014-2:2015

Person responsible for technical documents

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, D-85084 Reichertshofen

Reichertshofen, 24.09.2019

Helmut Bauer
Managing Director

Original Declaration of Conformity

5100051220__ACBe_CE_en



WACKER NEUSON

EC Declaration of Conformity

Manufacturer

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, D-85084 Reichertshofen
This declaration of conformity is issued under the sole responsibility of the manufacturer.

Product	IEe38, IEe45, IEe58
Product type	Internal vibrator
Function of product	Compacting of concrete
Material number	5100049759, 5100049830, 5100049831, 5100049832, 5100049833, 5100049834, 5100052661, 5100052662, 5100052663

Guidelines and standards

We hereby declare that this product complies with the relevant provisions and requirements of the following directives and standards:

2006/42/EC, 2014/30/EU, 2011/65/EU, EN 60745-1:2009 + A11:2010, EN 60745-2-12:2009,
EN 55014-1:2017, EN 55014-2:2015, EN 12649:2008 + A1:2011

Person responsible for technical documents

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, D-85084 Reichertshofen

Reichertshofen, 24.09.2019

Helmut Bauer
Managing Director

Original Declaration of Conformity

5100051220__IEe38, IEe45, IEe58_CE_en



WACKER NEUSON

EC Declaration of Conformity

Manufacturer

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, D-85084 Reichertshofen
This declaration of conformity is issued under the sole responsibility of the manufacturer.

Product	C48/4
Product type	Battery Charger
Function of product	Charging the battery
Material number	5100006221

Guidelines and standards

We hereby declare that this product complies with the relevant provisions and requirements of the following directives and standards:

2014/35/EU, 2014/30/EU, 2011/65/EU, EN 55014-1:2017, EN 55014-2:2015, EN 60335-1:2012 + A11:2014 + AC:2014 + A13:2017, EN 60335-2-29:2004 + A2:2010 + A11:2018

Person responsible for technical documents

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, D-85084 Reichertshofen

Reichertshofen, 24.09.2019

Helmut Bauer
Managing Director

Original Declaration of Conformity

5100051220__C48/4_CE_en



WACKER NEUSON

EC Declaration of Conformity

Manufacturer

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, D-85084 Reichertshofen
This declaration of conformity is issued under the sole responsibility of the manufacturer.

Product	BP1000, BP1400
Product type	Accumulator
Function of product	Power supply
Material number	5100025709, 5100048620

Guidelines and standards

We hereby declare that this product complies with the relevant provisions and requirements of the following directives and standards:

2014/53/EU, 2014/30/EU, EN 60950-1:2006 + A11:2009 + A1:2010 + AC:2011 + A12:2011 + A2:2013, EN 301 489 V1.9.2 , EN 300 328 V2.1.1

Person responsible for technical documents

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, D-85084 Reichertshofen

Reichertshofen, 16.03.2020

Helmut Bauer
Managing Director

Original Declaration of Conformity

__BP1000, BP1400_CE_en



Supplier's Declaration of Conformity 47 CFR § 2.1077 Compliance Information

Manufacturer

Wacker Neuson Produktion GmbH & Co. KG, Wackerstraße 6, D-85084 Reichertshofen

Product	BP1000, BP1400
Product type	Accumulator
Material number	5100025709, 5100048620
Modular component	Panasonic PAN1762
FCC Identifier	T7V1762

Responsible Party - U.S. Contact Information

Wacker Neuson Corporation
N92 W15000 Anthony Avenue
Menomonee Falls, WI 53051-1504
technical.support@wackerneuson.com

FCC Compliance Statement

This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This product may not cause harmful interference, and (2) this product must accept any interference received, including interference that may cause undesired operation.

Note: This product has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a commercial environment. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the operator's manual, may cause harmful interference to radio communications. Operation of this product in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the product.



Supplier's Declaration of Conformity 47 CFR § 2.1077 Compliance Information

Copy of the Compliance Information Statement

TCB

GRANT OF EQUIPMENT
AUTHORIZATION

Certification

Issued Under the Authority of the
Federal Communications Commission

By:

Eurofins Product Service GmbH
Storkower Strasse 38c
D-15526 Reichenwalde,
Germany

Date of Grant: 05/13/2019

Application Dated: 05/13/2019

TCB

Panasonic Industrial Devices Europe GmbH
Zeppelinstrasse 19
Lueneburg, 21337
Germany

Attention: Olaf Knoth , Product Safety

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: T7V1762

Name of Grantee: Panasonic Industrial Devices Europe GmbH

Equipment Class: Digital Transmission System

Notes: Bluetooth Low Energy Module

Modular Type: Single Modular

Grant Notes	FCC Rule Parts	Frequency Range (MHz)	Output Watts	Frequency Tolerance	Emission Designator
	15C	2402.0 - 2480.0	0.0061		

Single Modular Approval. Output power listed is peak conducted. This device is to be used for portable and mobile applications. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures. OEM integrators and end-users must be provided with specific information required to satisfy RF exposure compliance, antenna installation and labeling requirements for the final host device.



4 Preface

4.1 Introduction

This operator's manual contains important information and procedures for the safe, proper and economical operation of this Wacker Neuson machine. Carefully reading, understanding and observing it helps to avoid dangers, reduce repair costs and downtimes and thus increase the availability and service life of the machine.

This operator's manual is not a manual for extensive maintenance or repair work. Such work must be carried out by Wacker Neuson Service or by technically trained personnel. The Wacker Neuson machine must be operated and maintained in accordance with the instructions in this operator's manual. Improper operation or maintenance can cause hazards.

Defective machine parts must be replaced immediately.

Wacker Neuson contact persons are always available to answer questions about operation or maintenance.

4.2 Storage location of the operator's manual

This operator's manual must be kept in the immediate vicinity of the machine and accessible to personnel at all times.

If this operator's manual is lost or you require a new copy, there are two ways of obtaining a replacement:

- You can download it from the Internet - <http://www.wackerneuson.com>
- Or you can contact your Wacker Neuson representative.

4.2.1 Understanding these instructions

This section helps to understand the operator's manual and the illustrations used therein.

Target group

People working with this machine must be regularly trained with regard to the dangers and risks occurring when using this machine.

This operator's manual is aimed at:

- Operating personnel:
 - These people have been instructed in working with the machine and about possible dangers and risks arising due to improper behavior.
- Technically trained personnel:
 - These people have a professional training as well as additional knowledge and experience. They are capable of assessing the tasks assigned to them and recognizing any possible risks and dangers.

Explanation of symbols

Symbol	Explanation
1., 2., 3...	Indicates an activity. The sequence of the steps must be observed.
⇒	Indicates a result or an intermediate result of an action.
✓	Indicates prerequisites that must be established for the activity.
•	Indicates a list, e.g. if several components are named one after the other.
-	Indicates a sub-list, e.g. if components consist of further components
ⓘ	Identifies a position, usually a component or control element, in a graphic. The numbering may be sequential or in Roman numerals.
1; A	Indicates the naming of components in explanatory texts. It is identical with the adjacent positions in the illustrations.
 	Indicates a direction of movement or different positions for switches.
▶	Indicates the avoidance of hazards in warning notices.
[▶52]	Indicates a cross-reference in tables. Here e.g. reference to page 52

4.2.1.1 Explanation of symbols

The symbols used in the operator's manual are explained below. The symbols are used exclusively in warning or environmental instructions or information. Warnings must always be observed to protect the operator and third parties from personal injury and damage to property.



Symbol for warning notices

This symbol marks general warnings. It is used to alert you of possible dangers, e.g. risks of injury or accidents.



Symbol for indications of technical damage

This symbol is a warning symbol that indicates a danger of technical damage. It is used to indicate situations where damage to the machine or third-party property may occur.



Symbol for environmental information

This symbol indicates environmental information. It is used to warn of possible environmental hazards.



Symbol for information

This symbol indicates information. This information can include tips on operation, for example. It helps to better understand and use the machine.

4.3 Accident prevention regulations

In addition to the notes and safety instructions in this operator's manual, the local accident prevention regulations and the national industrial safety regulations apply.



4.4 Wacker Neuson Contact

Depending on the country, the Wacker Neuson contact is a Wacker Neuson Service, a Wacker Neuson subsidiary or a Wacker Neuson dealer.

On the Internet at - <http://www.wackerneuson.com>.

4.5 Limitation of liability

In the event of the following infringements, the manufacturer disclaims any liability for personal injury and damage to property:

- Actions contrary to this operator's manual.
- Non-designated use
- Deployment of untrained personnel.
- Use non-approved spare parts and accessories.
- Improper handling.
- Structural changes of any kind.
- Non-observance of the General Terms and Conditions (GTC).

4.6 Labeling on the machine

Type label data

The type label contains information that uniquely identifies this machine. This information is required for ordering spare parts and for technical queries.

Enter the data on the machine in the following table:

Designation	Your details
Group - Type	
Material number (Mat. no.)	
Machine version (version)	
Machine number (machine no.)	
Year of construction	

4.7 Use of the operator's manual

This operator's manual:

- must be regarded as an integral part of the machine and must be kept in a safe place throughout its service life.
- must be passed on to each subsequent owner or operator of this machine.
- applies to various machine types from one product range. For this reason, some illustrations may differ from the appearance of the purchased machine. Variant-dependent components that are not included in the scope of delivery can also be described.

Wacker Neuson reserves the right to change the information in this operator's manual without notice.

It must be ensured that any changes or additions made by the manufacturer are immediately incorporated into this operator's manual.



Information

The accumulator immersion vibrator consists of the ACBe, a consumer and an accumulator.

Group - Type	Material number (Mat. no.)
ACBe	5100050080

Group - Type	Material number (Mat. no.)
IEe38/34/1,5	5100049759
IEe38/34/3	5100049830
IEe38/34/5	5100052661
IEe45/34/1,5	5100049831
IEe45/34/3	5100049832
IEe45/34/5	5100052662
IEe58/34/1,5	5100049833
IEe58/34/3	5100049834
IEe58/34/5	5100052663



Information

Compatible rechargeable batteries!

Only use the following rechargeable batteries:

- ▶ BP1000 with production date 08/2019 or later (see type label)
- ▶ BP1400
- ▶ Other incompatible rechargeable batteries switch off automatically after 30 seconds and do not release any voltage at the plug receptacle.

Group - Type	Material number (Mat. no.)
BP1000	5100025709
BP1400	5100048620
Rechargeable battery transport box	5100051760

Group - Type	Material number (Mat. no.)
C48/4	5100006221
C48/13	5100002543
C48/13 US	5100028231

Group - Machine Type	Material number (Mat. no.)
C48/13 Systainer	5100050107
C48/13 Systainer US	5100051761



5 Usage

5.1 Designated use

Designated use also includes observing all notes and safety instructions in this operator's manual and observing the prescribed care and maintenance instructions.

Any other use or use that goes beyond this is considered improper use. The manufacturer shall not be liable or liable for any damage resulting therefrom. The risk is borne solely by the operator.

The machine is used for:

- Compaction of fresh concrete.
- The vibrator head must be submerged in the freshly mixed (green) concrete.

5.2 Unintended use

The manufacturer is not liable for personal injury or damage to property resulting from unintended use. The following activities, among others, are not intended:

- Submerge the vibrator head in acidic or alkaline liquids.
- Let the vibrator head come into contact with body parts or insert in body parts.

6 Safety

6.1 Safety symbols and signal words

The following symbol identifies safety instructions. It is used for warning against potential personal risk or danger.



⚠ DANGER

DANGER identifies a situation causing death or serious injury if it is not avoided.

Consequences in case of non-observance.

- Avoidance of injury or death.



⚠ WARNING

WARNING identifies a situation that can cause death or serious injury if it is not avoided.

Consequences in case of non-observance.

- Avoidance of injury or death.



⚠ CAUTION

CAUTION identifies a situation that can cause injury if it is not avoided.

Consequences in case of non-observance.

- Avoidance of injury.



NOTICE

INFORMATION identifies a situation that causes damage if it is not observed.

Consequences in case of non-observance

- Avoidance of damage to property.

6.2 Principle

The machine has been designed and built in accordance with latest state-of-the-art standards and the recognized safety regulations. Nevertheless, improper use may result in danger to life and limb of the operator, third parties or damage to the machine and other material property.

Read and observe the notes and safety instructions in this operator's manual. Failure to follow these instructions may result in electric shock, fire and/or serious injury, and damage to the machine and/or other objects.

Keep safety instructions and information for the future.



6.3 Structural changes

Structural modifications may not be made without the written consent of the manufacturer. Unauthorized structural changes may result in hazards to the operator and/or third parties as well as damage to the machine.

The manufacturer's liability and warranty are also void in the event of unauthorized structural alterations.

In particular, a structural change shall be deemed to have occurred:

- When opening of the machine and permanent removal of components.
- Installation of spare parts that do not come from Wacker Neuson or are not equivalent in design and quality to the original parts.
- Attachment of accessories of any kind that do not originate from Wacker Neuson.

Spare parts or accessories from Wacker Neuson can be installed or removed safely. Further information is available on the Internet at - <http://www.wackerneuson.com>.

6.4 Responsibility of the operator

The operator is the person who operates this machine himself for commercial or economic purposes or who leaves it to a third party for use/application and bears the legal product responsibility for the protection of personnel or third parties during operation.

The operator must make the operator's manual accessible to the personnel at all times and ensure that the operator has read and understood the operator's manual.

The operator's manual must be kept ready to hand at the machine or at the place of use.

The operator must hand over the operator to any other operator or subsequent owner of the machine.

The country-specific regulations, standards and directives on accident prevention and environmental protection must also be observed. The operator's manual must be supplemented by further instructions for compliance with operational, official, national or generally applicable safety guidelines.

6.5 Obligations of the operator

- Know and implement applicable health and safety regulations.
- In a risk assessment, identify hazards arising from working conditions at the place of use.
- Create operating instructions for the operation of this machine.
- Regularly check whether the operating instructions correspond to the current status of the regulations.
- Clearly regulate and define responsibilities for installation, operation, troubleshooting, maintenance and cleaning.
- Train personnel at regular intervals and inform them about possible dangers.
- Refresh instruction at regular intervals.
- Keep records of the training received and make them available to the competent authority on request.
- Provide personnel with the necessary protective equipment.

6.6 Qualification of staff

This machine may only be put into operation and operated by trained personnel.

In the event of misuse, abuse or operation by untrained personnel, there is a danger to the health of the operators and/or third parties, as well as damage or total failure of the machine.

In addition, the following requirements apply to the operator:

- Physical and mental suitability.
- Minimum age 18 years.
- No influence on reactivity by drugs, alcohol or medication.
- Familiarity with the safety instructions in this operator's manual.
- Familiarity with the intended use of this machine.
- Instructed in the independent operation of the machine.

6.7 General safety instructions

The safety instructions in this chapter contain the "General safety instructions", which must be listed in the operator's manual in accordance with the applicable standards. It may contain instructions which are not relevant for this machine.

6.7.1 Workplace

- Before starting work, familiarize yourself with the working environment, e.g. load-bearing capacity of the floor or obstacles in the environment.
- Secure work area to public transport area.
- Necessary protection of walls and ceilings, e.g. in trenches.
- Keep unauthorized persons and children away when working with this machine. Distraction may result in loss of control of the machine, work must be carried out carefully.
- Always secure the machine against tipping, rolling, slipping and falling. Risk of injury!
- Keep work area tidy. Disorder or unlit work areas can lead to accidents.

6.7.2 Personal safety

- Working under the influence of drugs, alcohol or medication can lead to serious injuries.
- Suitable protective equipment must be worn for all work. Personal protective equipment considerably reduces the risk of injury.
- Keep wide or loose clothing, protective gloves, jewellery and long hair away from moving machine parts. Danger of being drawn in!
- Always ensure that you are standing in a stable position, always stand with both feet on the ground.
- During prolonged work with this machine, long-term vibration-related damage cannot be ruled out completely. Vibration load, [see Technical Data on page 54](#).
- Ensure that there are no other persons in the danger zone!

Personal protective equipment



⚠ WARNING

Risk of hearing damage if the country-specific noise limit is exceeded!

Working with the machine without hearing protection can lead to hearing damage in the long-term.

- ▶ Wear ear protectors.
- ▶ Work attentively and cautiously when using hearing protection.

6.7.3 Handling and use

- Handle machines with care. Do not operate machines whose components or control elements are defective. Have defective components or control elements replaced immediately. Machines with defective components or control elements entail a high risk of injury!
- Do not lock, manipulate or alter the machine operating elements in an inadmissible manner.
- Secure unused machines against unauthorized putting into operation. The machine may only be operated by authorized personnel.
- Handle machine with care. Have defective parts replaced immediately before this machine is commissioned. Defective machines entail a high risk of injury.
- Use the machine, accessories, tools etc. in accordance with these instructions.
- After operation, store the machine in a locked, clean, frost-protected, and dry location that is inaccessible to other persons and children.



6.8 General safety instructions for power tools



⚠ WARNING

Read all safety information and instructions, illustrations and technical data provided with this power tool.

Failure to comply with the following instructions can cause electric shock, fire and/or serious injuries.

Save all safety instructions and information for the future.

The term "power tool" used in the safety instructions refers to mains-operated power tools (with mains lead) or battery-operated power tools (without mains lead). Unmodified plugs and matching sockets reduce the risk of electric shock.

1) Working area safety

- **Keep your working area clean and well lit.** *Cluttered or dark work areas can lead to accidents.*
- **Do not work with a power tool in explosive environments where there are flammable liquids, gases or dust.** *Power tools create sparks, which can ignite dust or fumes.*
- **Keep children and other people away while using the power tool.** *If distracted, you may lose control of the electrical tool.*

2) Electrical safety

- **The connector plug of the power tool must fit in the plug receptacle. The plug may not be changed in any way. Do not use an adapter plug together with grounded power tools.** *Keep the power cord away from heat, oil, sharp edges or moving parts.*
- **Avoid body contact with grounded surfaces, such as tubes, heaters, stoves and refrigerators.** *There is a higher risk of electric shock if your body is grounded.*
- **Keep the power tools away from rain or wet conditions.** *The penetration of water into the power tool increases the risk of an electric shock.*
- **Do not use the connection cables to carry the power tool, to hang it or to pull the plug out of the plug receptacle. Damaged or tangled connecting lines increase the risk of electric shock.** *A tool or wrench that is in a rotating part of the power tool can cause injury.*
- **If you are working with a power tool outdoors, only use extension cables that are also suitable for outdoor use.** *The use of an extension cable that is suitable for outdoor use reduces the risk of an electric shock.*
- **If the operation of the power tool in damp conditions is unavoidable, use a fault current protective switch.** *The use of a fault current protective switch reduces the risk of an electric shock.*

3) Personal safety

- **Be alert, watch what you are doing and use common sense when working with a power tool. Do not use a power tool if you are tired or under the influence of drugs, alcohol or medication.** *A moment of carelessness when using the power tool can lead to serious injury.*
- **Wear personal protective equipment and always wear safety glasses.** *Wearing personal protective equipment, such as a dust mask, non-skid safety shoes, a hard hat or ear protection depending on the nature and application of the power tool, reduces the risk of injury.*
- **Avoid unintentional starting. Make sure that the power tool is switched off before you connect it to the electric power supply and/or the rechargeable battery before you pick it up or carry it.** *Accidents may happen if you carry the electrical tool with your finger on the switch or if you connect the equipment to the electric power supply while it is switched on.*



- **Remove the adjusting tools or spanners before switching the power tool on.** *A tool or wrench that is in a rotating part of the power tool can cause injury.*
 - **Avoid an abnormal posture. Ensure you have good footing and keep your balance at all times.** *In this way, you can better control the power tool in unexpected situations.*
 - **Wear appropriate clothing. Do not wear loose clothing or jewelry. Keep hair and clothing away from moving parts.** *Loose clothing, jewelry or long hair can be caught in moving parts.*
 - **If dust extraction and collection equipment can be fitted, connect it and use it correctly.** *Use of a dust extraction mechanism can reduce hazards from dust.*
 - **Do not lull yourself into a false sense of security and do not ignore the safety rules for power tools, even if you are familiar with the power tool after using it many times.** *Careless actions can lead to serious injuries within fractions of a second.*
- 4) **Use and handling of the power tool**
- **Do not overload the power tool. Use the power tool intended for your work.** *You will work better and more safely in the specified power range with the right power tool.*
 - **Do not use a power tool whose switch is defective.** *A power tool that can no longer be switched on or off is dangerous and must be repaired.*
 - **Unplug the power tool and/or remove a removable rechargeable battery before making any device adjustments, changing insert tool parts or putting the power tool away.** *These safety precautions prevent the accidental starting of the power tool.*
 - **Store unused power tools out of the reach of children. Do not allow persons to use the power tool who are not familiar with it or have not read these instructions.** *Power tools are dangerous if they are used by inexperienced persons.*
 - **Care for power tools and insert tools with care. Check whether moving parts function flawlessly and do not jam, whether parts are broken or whether they are so damaged that they impair the function of the power tool. Have damaged parts repaired before application of the equipment.** *Many accidents are caused by poorly maintained power tools.*
 - **Keep cutting tools sharp and clean.** *Carefully maintained cutting tools with sharp cutting edges jam less frequently and are easier to guide.*
 - **Use power tools, insertion tool, insertion tools, etc. in accordance with these instructions. In doing so, note the working conditions and the work to be carried out.** *The use of power tools for applications other than those intended can lead to dangerous situations.*
 - **Keep handles and grip surfaces dry, clean and free of oil and grease.** *Slippery handles and grip surfaces do not allow safe operation and control of the power tool in unforeseen situations.*

5) **Use and handling of the battery-powered tool**

- **Only charge the batteries in battery chargers that are recommended by the manufacturer.** *For a battery charger that is suitable for a certain type of batteries, there is a risk of fire if it is used with other batteries.*
- **Only use the intended batteries in the power tools.** *The use of other batteries can lead to injuries and fire hazard.*
- **Keep the unused rechargeable battery away from paper clips, coins, keys, nails, screws and other small metal objects that could cause a bridging of the contacts.** *A short circuit between the battery contacts can lead to burns or a fire.*
- **If used incorrectly, fluid may escape from the rechargeable battery. Avoid contact with this fluid. Rinse with water if you make accidental contact with the escaped fluid. If the fluid gets into your eyes, seek medical attention. Escaping battery fluid can lead to skin irritation or burns.**
- **Do not use a damaged or modified rechargeable battery.** *Damaged or altered rechargeable batteries may behave unpredictably and result in fire, explosion or risk of injury.*
- **Do not expose a rechargeable battery to fire or excessive temperatures.** *Fire or temperatures above 130 °C may cause an explosion.*
- **Follow all charging instructions and never charge the rechargeable battery or battery tool outside the temperature range specified in the operator's manual.** *Incorrect charging or charging outside the permitted temperature range can destroy the rechargeable battery and increase fire hazard.*

6) Service

- **Only have your power tool repaired by qualified technically trained personnel and only with original spare parts.** *This will ensure that the safety of the electrical tool is maintained.*
- **Never service damaged rechargeable batteries.** *All maintenance of rechargeable batteries should be performed only by the manufacturer or authorized service centers.*



6.9 Specific rechargeable-battery-related safety instructions

6.9.1 General safety instructions

- Do not take apart, open or deform rechargeable batteries.
- Do not short-circuit rechargeable batteries.
- Do not store rechargeable batteries in a box or draw as this can pose hazards where they can short out each other or be shorted out by another conductive material.
- Use rechargeable batteries for their intended purpose and protect them from damage.
- Keep rechargeable batteries away from children.
- Seek immediate medical attention if rechargeable battery components are swallowed accidentally.
- Use rechargeable batteries only in those applications for which they are intended.
- If possible, take the rechargeable battery out of the machine when it is not being used.
- Take the rechargeable battery out of the machine when it is being loaded and transported.
- In the event of prolonged storage, remove the rechargeable battery from the machine and store it in the battery transport box.
 - Store in a dry and well-ventilated room.
 - Observe storage temperature, [see technical data on page 54](#).
- Dispose of properly.
- In the event of fire:
 - Immediately take the machine out of operation.
 - Remove injured persons and others from the risk zone.
 - Stay away from vapors and gases, observe wind direction!
 - Extinguish only with water, do not use a direct stream of water.

6.9.2 External influences

- The rechargeable batteries may not be exposed to heat or fire. Avoid storage in direct sunlight.
- Do not expose rechargeable batteries to any mechanical impacts.
- Keep rechargeable batteries clean and dry. Do not allow them to come into contact with water.
- If the connections of rechargeable batteries become dirty, clean these with a dry and clean cloth.
- Keep paper clips, coins, keys, nails, screws and other small metal objects that could cause a bridging of the contacts away from rechargeable batteries. Danger of short circuit and fire!

6.9.3 Operational safety

- To charge the rechargeable batteries, only use the battery charger approved by the manufacturer.
- Rechargeable batteries may only be used in the machine specified by the manufacturer for this purpose.
- If a rechargeable battery is leaking, the fluid must not come into contact with your skin or eyes. If contact has been made, wash the affected area with plenty of water and seek immediate medical attention.
- If a rechargeable battery leaks, do not allow the contents to reach ground water, sewage system or soil.
- Observe the polarity as indicated on the rechargeable battery and the machine (+ and -). Ensure correct use.
- Do not use rechargeable batteries that are not intended for the machine.
- Charge rechargeable batteries before use. In this context, make sure that the correct charging procedure is used [see Start-up on page 39](#).
- Once the charge cycle is complete, the rechargeable battery is to be disconnected from the battery charger.
- Rechargeable batteries have their best power output if they are operated at normal room temperature (about 20 °C).

6.10 Specific charger-related safety instructions

6.10.1 General safety instructions



⚠ WARNING

Fire hazard!

The use of battery chargers in a flammable environment or near open flames may result in a fire.

- ▶ Do not operate the battery charger on easily flammable surfaces (e.g. paper, textiles) or in a flammable environment.

- Check the battery charger, cable and plug prior to every use and clean with a dry and clean cloth.
- Do not use the cable for carrying or suspending the machine. Do not pull the cable in order to pull the plug out of the receptacle.
- Do not use the battery charger if damage has been found. Do not open the battery charger yourself, but rather only have it repaired by qualified technically trained personnel who are using original spare parts.
- Only charge batteries permitted by the manufacturer.
- The battery charger's plug must fit in the plug receptacle. The plug may not be changed in any way. Do not use any adapters, since these are usually designed without a grounded conductor terminal.
- Avoid any physical contact with grounded surfaces (e.g. pipes, heaters).
- Once the charge cycle is completed, disconnect the rechargeable battery from the charger.
- Keep battery charger away from children.
- Dispose of battery charger properly.

6.10.2 External influences

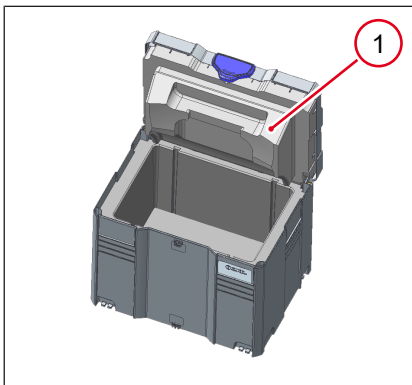
- Avoid penetration of water into the battery charger.
- Only use the battery charger indoors and keep away from rain and moisture.
- If it is not possible to avoid working in a damp environment, a fault current protective switch must be used.
- Do not subject the battery charger to mechanical shocks.
- Protect the connection cable from any aggressive media (e.g. oil), sharp edges or moving machine parts.
- Do not operate the battery charger in freezing temperatures, [see Technical data on page 54](#).
- The battery charger may not be exposed to heat (e.g. direct sunlight) or fire.

6.10.3 Operational safety

- Damaged battery chargers may not be used.
- In case of malfunctions, disconnect the battery charger immediately from the power source.
- Charge only approved compatible rechargeable batteries.
- Damaged batteries may not be recharged.
- The battery charger's plug must fit in the plug receptacle. The plug may not be changed in any way. Do not use the adapter plug together with grounded machines.
- Avoid any contact with grounded surfaces.

6.11 Safety features

Safety features protect the operator of this machine from being exposed to the existing hazards. These are barriers (separating protective devices) or other technical measures that serve to avert or reduce hazards.



The cover insert 1 is a special insert for hazardous materials.



Information

Regulations for the transport of dangerous goods!

If the cover insert is removed, the rechargeable battery transport box no longer complies with the UN regulations for the transport of dangerous goods.



6.12 Maintenance

- The machine must not be serviced, repaired, adjusted or cleaned when switched on.
- Remove accumulator from the machine before maintenance work.
- Observe maintenance intervals according to maintenance plan. Have work that is not listed performed by a service partner.
- Replace worn or damaged machine parts immediately. Only use spare parts from the manufacturer.
- Keep the machine clean.
- Replace any missing, damaged or illegible safety labels immediately. Safety and information labels contain important information for the protection of the operator.
- Carry out maintenance work in a clean and dry environment (e.g. workshop).

6.12.1 Service

- Only have the machine repaired or serviced by technically trained personnel.
- Only use original spare parts and accessories. The operational safety of the machine is thus maintained.

6.12.1.1 Threaded fittings

All threaded fittings must comply with the specified specifications and be firmly bolted together. Observe the tightening torques! Screws and nuts must not be damaged, bent or deformed.

Particular attention should be paid to the following:

- Self-locking nuts and micro-encapsulated screws must not be reused after loosening. The fastening effect is lost.
- Threaded fittings with adhesive protection/liquid adhesives (e.g. Loc-tite) must be cleaned after loosening and provided with new adhesive.



Information

Observe the instructions of the liquid adhesive manufacturer.

7 Description of the Machine

7.1 Type plates and labels

7.1.1 Type label

A type label is permanently attached to the machine.

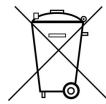
Other type labels

Furthermore, the following components of the machine are provided with their own type label:

- the rechargeable battery

Symbols on the type label

Various symbols may be displayed on the type label.



Symbol crossed-out waste bin

This symbol means that the machine must not be disposed of with normal household waste, but in a separate collection in an environmentally friendly manner.

7.1.1.1 Labeling on the machine

Type label data

The type label contains information that uniquely identifies this machine. This information is required for ordering spare parts and for technical queries.

Enter the data on the machine in the following table:

Designation	Your details
Group - Type	
Material number (Mat. no.)	
Machine version (version)	
Machine number (machine no.)	
Year of construction	

7.1.2 Safety and information labels



⚠ WARNING

Injury hazard due to missing or damaged labels and signs!

Safety labels contain important information to protect the operator.

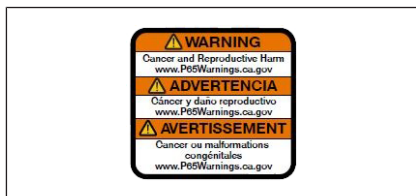
- Keep all safety, warning and operating instructions on the machine in a clearly legible condition.
- Replace missing or damaged labels and signs immediately.



Read the operator's manual.



Caution!

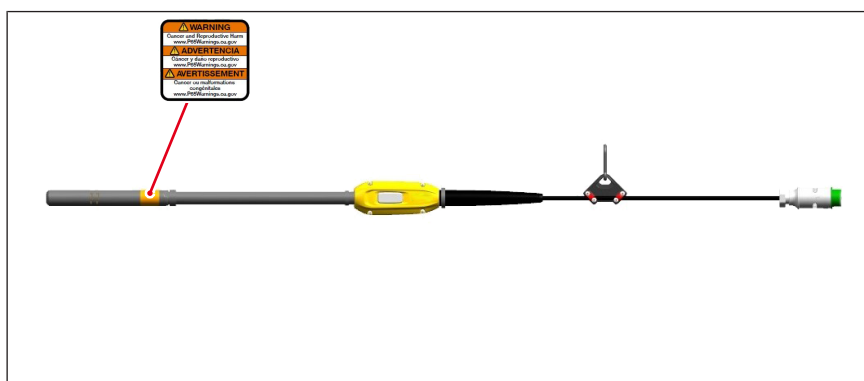


Warning of health risks

WARNING! CALIFORNIA: Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

For more information: www.P65Warnings.ca.gov

7.1.3 Safety and information labels Internal vibrator



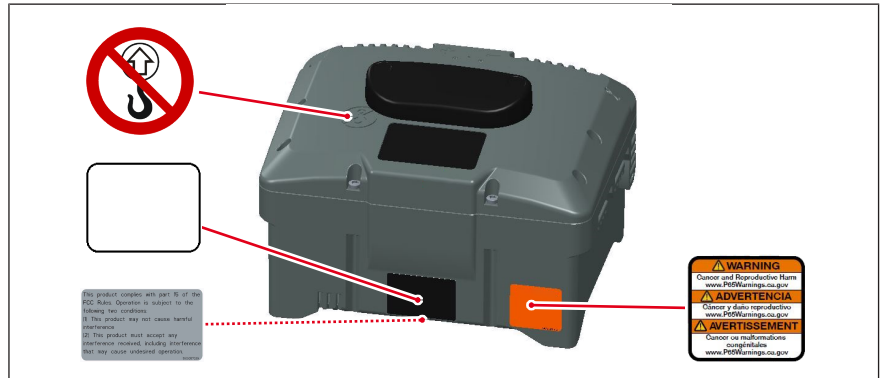


Warning of health risks

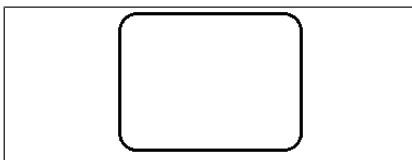
WARNING! CALIFORNIA: Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

For more information: www.P65Warnings.ca.gov

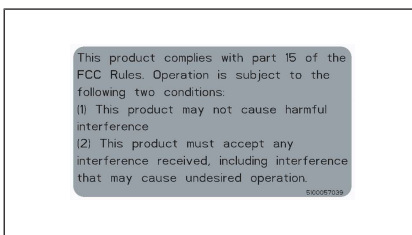
7.1.4 Safety and information labels Accumulator



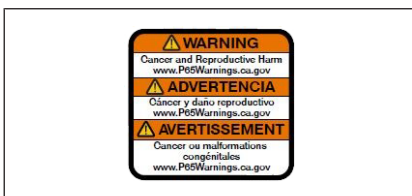
No lifting point.



Empty type label.



The machine complies with part 15 of the FCC regulations (valid for US market).

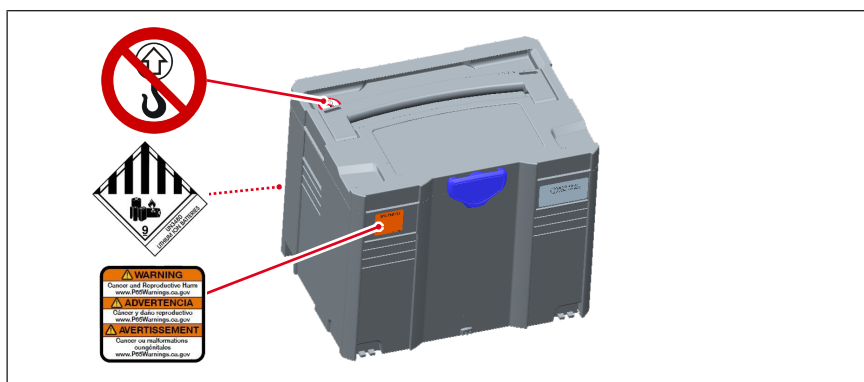


Warning of health risks

WARNING! CALIFORNIA: Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

For more information: www.P65Warnings.ca.gov

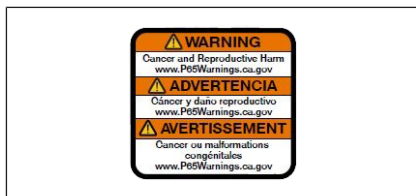
7.1.5 Safety and information label Battery transport box



No lifting point.



Dangerous goods class 9A, UN 3480: Lithium-ion batteries.
Observe transport regulations.

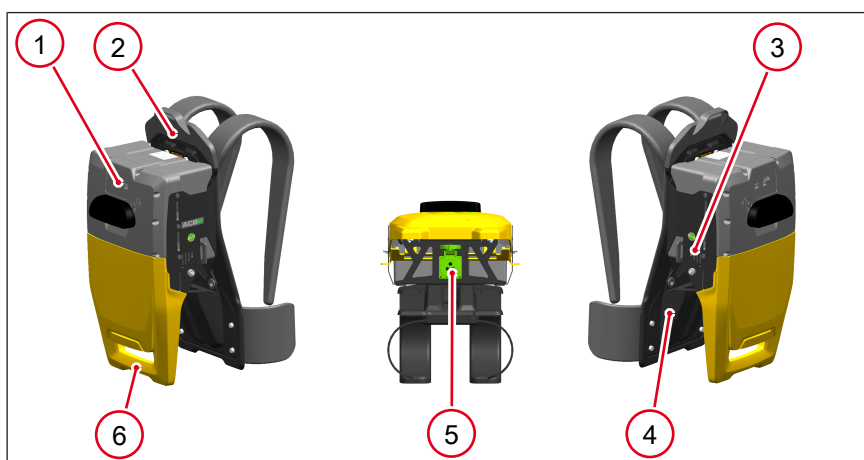


Warning of health risks

WARNING! CALIFORNIA: Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

For more information: www.P65Warnings.ca.gov

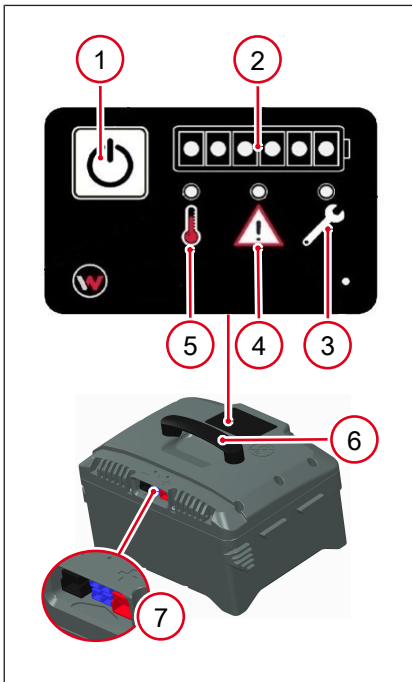
7.2 Components



- 1 Rechargeable battery
- 2 Back plate

- 3 Check plate
- 4 Type label
- 5 Connection plug receptacle
- 6 Handle

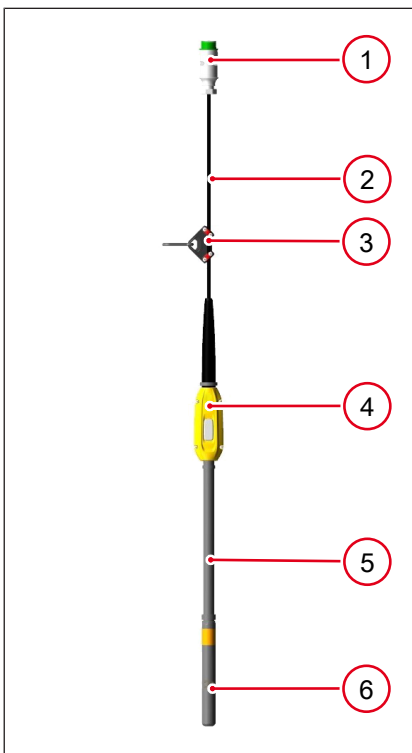
7.3 Components and control elements accumulator



- 1 Start button Activation/deactivation
- 2 Control light Charge condition
- 3 Control light diagnosis
- 4 Control light rechargeable battery error
- 5 Control light overtemperature/undertemperature
- 6 Handle
- 7 Connections (contact strip)

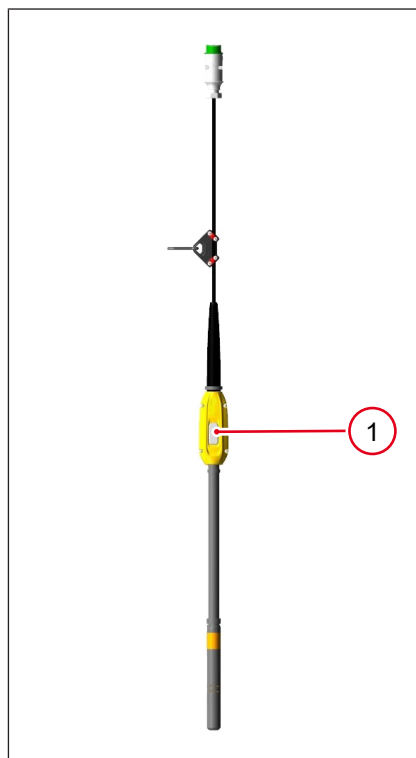
7

7.4 Components internal vibrator



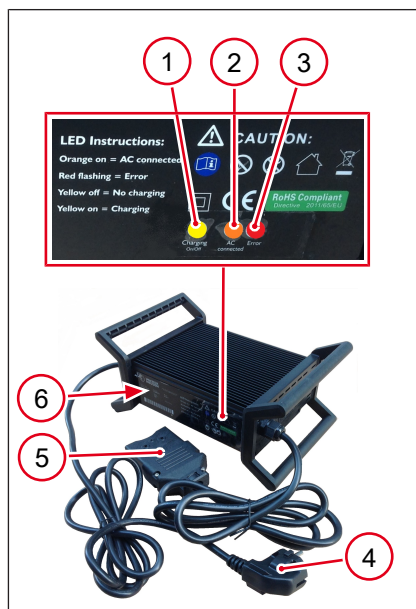
- 1 Plug
- 2 Power cable
- 3 Strain relief clamp
- 4 Switch housing
- 5 Protective hose
- 6 Vibrator head

7.5 Operating elements internal vibrator



- 1 Switch On/Off

7.6 Components and operator's controls battery charger



- 1 Control light Charge condition
- 2 Control light Operation
- 3 Control light Fault
- 4 Power cable
- 5 Power cable of the rechargeable battery
- 6 Type label

Control light Charge condition

LED comes on. Rechargeable battery is charged.

Control light Operation

LED comes on. Battery charger is connected to the power supply.

Control light Fault

LED flashes: There is a fault, contact Wacker Neuson Service.

8 Transportation

8.1 Safety instructions for transport



⚠ WARNING

Risk of burns!

Touching the hot vibration body can cause severe burns.

- ▶ Allow the engine and vibrator head to cool down.
- ▶ Use protective gloves.



⚠ CAUTION

Danger of tripping or falling.

Wearing the immersion vibrator incorrectly may lead to injuries.

- ▶ Roll up protective hose when wearing the immersion vibrator.



NOTICE

Damage to the protective hose and power cable!

Improper handling can result in damage to the protective hose and power cable.

- ▶ Do not kink the protective hose and power cable.

8.2 Prerequisites and preparations

1. We recommend removing the rechargeable battery from the machine before charging and transporting.
2. Disconnect consumers from ACBe, [see Decommissioning on page 44](#).
3. Fold the protective hose and power cable together.

8.3 Loading and transporting the machine

1. Carefully load the machine into or onto a stable and stable means of transport.
2. Strap the machine onto the means of transport in such a way that it is secured against slipping, tipping over or falling down.



8.4 Packing and transporting rechargeable battery



NOTICE

Material damage due to improper transport!

- ▶ Pack the rechargeable battery in the rechargeable battery transport box.
- ▶ Do not remove the cover insert of the rechargeable battery transport box.
- ▶ Observe the regulations for the transport of dangerous goods.

- Ensure proper transport and load securing.

8.5 Transporting battery charger

1. Roll up the charger's cable.
2. Do not kink the cable.
3. Ensure proper transport and load securing.

9 Commissioning

9.1 Safety instructions for operation



⚠ WARNING

CALIFORNIA: Proposition 65 (Law of 1986 on toxic substances and safe drinking water) Warning!

Battery terminals, clamps and similar parts contain lead and lead compounds. These chemicals are considered by the State of California to be the cause of cancer and reproductive harm.

- ▶ Wash hands after working on the battery.



⚠ WARNING

Physical injury from electric current.

Damage to a machine part or power cable can lead to physical injury from electric current.

- ▶ Do not operate a damaged machine.
- ▶ Check protective hose for damage.
- ▶ Check power cable and extension cable for damage.
- ▶ Have damaged machine repaired immediately.



⚠ WARNING

Injuries caused by uncontrolled machine operation.

- ▶ Always hold the machine with both hands and take a firm stand.



⚠ CAUTION

Proper motion of the running vibrator head outside of the freshly mixed (green) concrete.

Risk of injury or danger of property damage due to beating around vibrator head.

- ▶ Hold the machine.
- ▶ Switch the machine off before setting it down.



⚠ CAUTION

Uncontrolled start-up of the connected consumer!

Uncontrolled start-up of consumers can lead to injuries or damage to property caused by vibrations.

- ▶ Switch off all connected loads before connecting them to the power supply.
- ▶ In the event of a fault or after the rechargeable battery has been switched off automatically, always switch off the switch on the connected load.



⚠ CAUTION

Danger of tripping or falling!

Risk of injury due to use of incorrect protective hose lengths.

- ▶ Use protective hose lengths appropriate for the work task (shortest possible length).



NOTICE

Material damage to the machine.

Improper handling can damage the ACBe.

- ▶ The rated current of the connected consumer may not be greater than the maximum rated current of the machine (ACBe).
- ▶ Only use the defined consumers, ([see Table on page 15](#)).



Information

Automatic shutdown of rechargeable battery!

If the consumer is not put into operation, the rechargeable battery switches off automatically after 30 minutes.

- ▶ All control lights go out.
- ▶ Switch off the internal vibrator with the On/Off switch.



Information

Automatic shutdown of rechargeable battery!

If not started up, the rechargeable battery automatically switches off after 30 seconds.

9.2 Tests before commissioning



Information

Further information and detailed descriptions, [see Maintenance on page 46](#).

Perform the following checks:

- Check machine and components for damage.
 - Do not put the damaged machine into operation. Damages and defects must be repaired immediately.
- Check the charge state of the accumulator.
- Check the protective hose and power cable for damage.

9.3 Charge the rechargeable battery



NOTICE

Damage to the machine or the accumulator.

Only use chargers and rechargeable batteries from the manufacturer.

Charge the rechargeable battery

1. Place the battery charger and rechargeable battery on a dry and clean working area.
2. Connect the battery charger to the power source.
3. Then connect the rechargeable battery to the battery charger.
4. Check the charge state of battery regularly.
5. If the rechargeable battery is completely charged, unplug the battery from the charger and disconnect the battery charger from the power source.

9.4 Install the rechargeable battery



NOTICE

Damage to the machine or the accumulator.

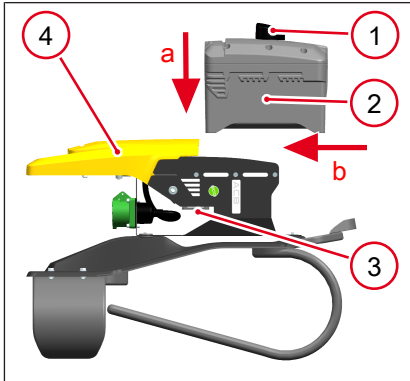
Connections and contact area of the accumulator must be clean and dry.



NOTICE

Damage to the machine or the accumulator.

Note the direction of installation when installing the accumulator. The connections must point in the direction of the protective cover.



1. Lift the rechargeable battery **2** by handle **1** and slide over the protective cover **4** in the direction of the back plate **a**.
2. Carefully insert the rechargeable battery into the guide rail **b** provided for this purpose.
3. Insert the rechargeable battery by the handle until you hear a clearly audible snapping sound of the lock **3**.
4. Make sure the rechargeable battery is firmly seated.

9.5 Putting into operation

- ✓ Rechargeable battery is charged and inserted in the converter backpack.
 - ✓ The consumer to be connected is switched off.
1. Hold the converter backpack firmly by the back plate.
 2. Connect the consumer electrically, plug the plug into the connection plug receptacle.
 3. Attach the strain relief.
 4. Switch the rechargeable battery on again with the start button Activation/deactivation.
 5. Place the converter backpack on the back.
 6. Adjust and tighten hip, shoulder and chest straps.
 7. Switch on the internal vibrator with the on/off switch.

10 Operation

10.1 Operating the machine

In accordance with the intended purpose, the operator's intended location is by the protection hose of the machine.

10.1.1 Compacting freshly mixed (green) concrete



NOTICE

Material damage due to contact between the vibrator head and the reinforcement!

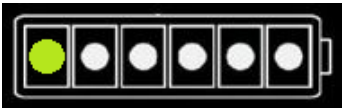
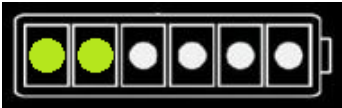
The following damages can occur when the vibrator head comes into contact with the reinforcement:

- ▶ The connection of the concrete to the reinforcement may be lost.
- ▶ Machine can be damaged.
- ▶ Avoid contact of the vibrator head with the reinforcement.

1. Hold the internal vibrator with both hands on the protection hose and guide it.
 2. Quickly immerse, submerge the vibrator head into the freshly mixed (green) concrete, wait for a few seconds and slowly pull it out.
 3. Immerse the vibrator head in all areas of the formwork and compact the freshly mixed (green) concrete.
 4. Compact particularly intensely within the range of the formwork corners, because reinforcement density is the greatest there.
 5. The result of the compression depends on the following factors:
 - The time the vibrator head is in the concrete.
 - The diameter of the vibrator head.
 - The consistency of the concrete.
 - Narrow spacing between the steel rods.
1. If a small diameter vibrator head is used, it must be compacted longer to achieve the same effect as with a large diameter.
 2. Features that the concrete has been sufficiently compacted:
 - Concrete no longer settles.
 - Little to no air bubbles are rising any longer.
 - The sound of the vibrator head no longer changes.

10.2 Check charge state of rechargeable battery

Check the charge condition of the rechargeable battery regularly.

Number of illuminated control lights:	Charge condition of the rechargeable battery
	Charge condition > 20 %
	charge condition > 20 %
	charge condition > 40 %
	charge condition > 60 %
	charge condition > 80 %
	Rechargeable battery is fully charged 100%.



Information

Automatic shutdown of rechargeable battery!

If not started up, the rechargeable battery automatically switches off after 30 seconds.

10.3 Decommissioning



⚠ CAUTION

Proper motion of the running vibrator head outside of the freshly mixed (green) concrete.

Risk of injury or danger of property damage due to beating around vibrator head.

- ▶ Hold the machine.
- ▶ Switch the machine off before setting it down.

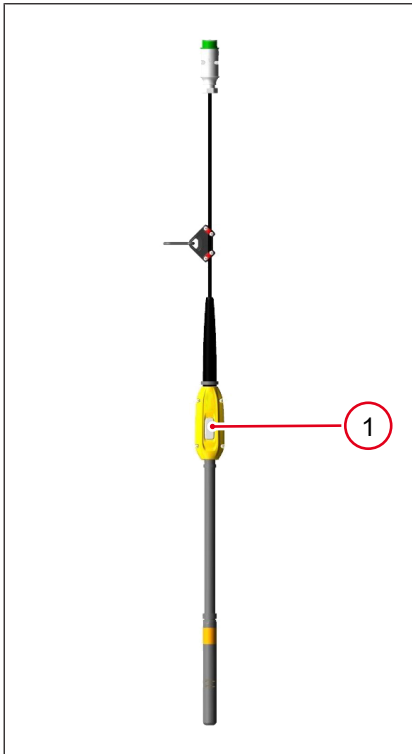


⚠ CAUTION

Warming up of the running vibrator head outside of the freshly mixed (green) concrete.

Risk of burning from hot surface. Damage to the machine from increased wear.

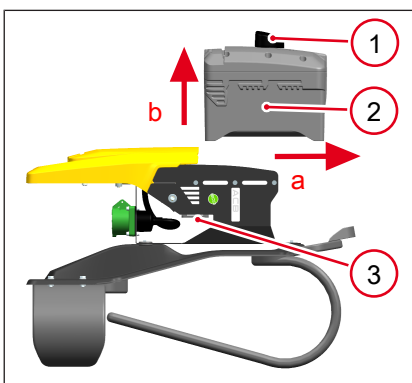
- ▶ Do not let the machine run outside of the freshly mixed (green) concrete.



1. Slowly pull the vibrator head out of the freshly mixed (green) concrete and hold it in the air.
 2. Switch off the immersion vibrator with the On/Off switch **1**.
 3. Wait until the immersion vibrator comes to a complete standstill.
 4. Carefully set down the immersion vibrator.
 5. Remove the ACBe from your back and carefully lay it down.
 6. Switch the rechargeable battery off with the start button Activation/deactivation.
 7. Disconnect the consumer electrically, remove the plug from the connection plug receptacle.
 - ⇒ Consumer is de-energized.
- Let the immersion vibrator cool down.

10

10.4 Remove the accumulator



- ✓ The consumer is electrically disconnected.
1. Push the lock **3** down.
 2. Push the accumulator **2** upwards by the handle **1** carefully until the stopper **a**.
 3. Pull out the accumulator by the handle **b** and put down safely.

11 Maintenance

11.1 Safety instructions for maintenance



⚠ WARNING

Improper handling may result in injury or serious material damage.

- ▶ Please read and follow all safety instructions in this operator's manual.



⚠ WARNING

Danger from electric current.

Risk of injury from electric shock.

- ▶ Switch the machine off.
- ▶ Remove the accumulator.



⚠ WARNING

Danger from electric current.

Risk of injury from electric current in the event of improper work.

- ▶ Repairs and a subsequent safety check may only be performed by a qualified electrician according to the applicable guidelines.

11.2 Maintenance plan

Activity	Daily before operation	After operation
Visual check of all elements for damage: • Housing • Power cable • Handle • Connection plug receptacle	•	
Clean the machine.		•
Clean the rechargeable battery.		•
Rechargeable battery - visual check for damage.	•	
Clean the battery charger.		•
Battery charger - visual check for damage.	•	
Check wear dimensions of the vibrator head.		•

11.3 Maintenance work

11.3.1 Cleaning the machine

Clean all components after each operation.

- Only clean machine with water and wipe with a damp, clean cloth.



NOTICE

Notice for cleaning the machine!

- Do not clean the machine with high pressure or steam cleaners!



NOTICE

Notice for cleaning the vibrator head.

While the machine is running, the concrete residues can be removed from the vibrating body by immersing it in a gravel bed.

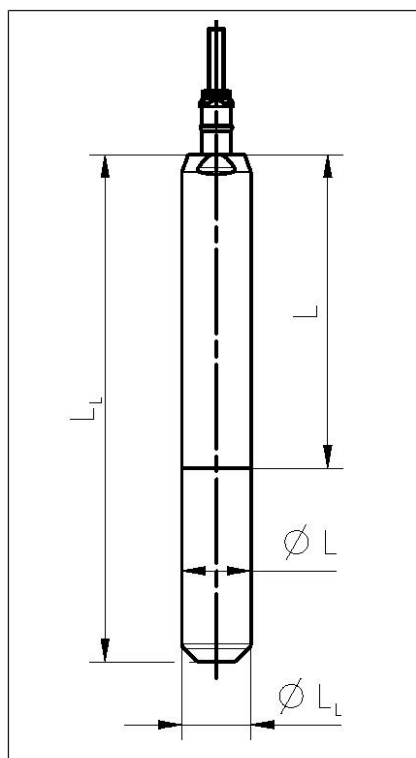
11.3.2 Check wear dimensions of the vibrator head

Wear dimensions:

- Minimum diameter bottom of the pipe $\varnothing L_L$
- Minimum diameter of vibration body $\varnothing L$
- Length of the vibrator head L_L

The wear is highest at the end of the vibrator head.

If the wear dimension is reached at one point, have the vibration body replaced by your service partner.



Group - Type	Dimensions of the vibrator head and bottom of the pipe [mm]			
	ØL _L	L _L	ØL	L
IEe38	33 (38)	287 (294)	36 (38)	191
IEe45	38 (45)	327 (330)	42 (45)	203
IEe58	50 (58)	327 (337)	54 (58)	215
Dimensions in bold are wear dimensions. Dimensions in brackets are original dimensions of a new vibrator head.				

12 Malfunctions

12.1 Troubleshooting machine



⚠ WARNING

Danger to life due to unauthorized troubleshooting!

- ▶ If faults occur on this machine which are not described in these operating instructions, contact the manufacturer.
- ▶ Do not rectify faults on your own.



⚠ CAUTION

Uncontrolled start-up of the connected consumer!

Uncontrolled start-up of consumers can lead to injuries or damage to property caused by vibrations.

- ▶ Switch off all connected loads before connecting them to the power supply.
- ▶ In the event of a fault or after the rechargeable battery has been switched off automatically, always switch off the switch on the connected load.

Fault	Possible cause	Remedy
The machine will not operate.	The charge condition of the rechargeable battery is too low.	Charge the rechargeable battery.
	The rechargeable battery is not inserted correctly into the machine.	Insert the rechargeable battery correctly into the machine.
	The rechargeable battery is defective.	Have the rechargeable battery repaired.*
The machine is displaying unexpected faults when putting into operation or operation.	Observe the table "Rechargeable battery malfunctions".	Deactivate the rechargeable battery and remove it from the machine. If the fault persists, have the rechargeable battery repaired.*
The machine switches itself off.	The charge condition of the rechargeable battery is too low.	Charge the rechargeable battery.
	The machine was overloaded.	Switch the machine on again.
	Machine is overheated.	Let the machine cool down.
	Machine under temperature.	Operate the machine only within the permissible temperature range, Technical Data.

* Have this work carried out by a service partner.

12.2 Troubleshooting rechargeable battery

Pictogram	Status control light	Possible cause	Remedy
	Control light rechargeable battery error is lit.	Contact error of connection strip.	Clean and if necessary dry the contacts.
		Hardware error or software error.	Activate rechargeable battery again and acknowledge error by push button.
			Have the rechargeable battery repaired.*
	Overtemperature/undertemperature control light lights up.	Temperature error (too high or too low temperature).	Operate the rechargeable battery only within the permissible temperature range.
			Allow the equipment to cool down if necessary.
			Activate rechargeable battery again.
	Diagnosis control light lights up.	The rechargeable battery was disabled due to a fault.	Have the rechargeable battery repaired.*

* Have this work carried out by a service partner.

13 Shutdown

13.1 Temporary decommissioning



⚠ WARNING

Fire and explosion hazard!

Storage with other hazardous substances may lead to fire or explosion due to dangerous interaction.

- ▶ Store separately from other hazardous materials.
- ▶ Store away from other flammable materials.
- ▶ Keep a minimum distance of 2.5 m.



NOTICE

Property damage due to self-discharge of the rechargeable battery!

The self-discharge rate is approx. 3 % per month. Deep discharge can cause damage to the cells or loss of capacity.

- ▶ Check charge condition every six months.



Information

Further information and detailed descriptions, [see Maintenance on page 46](#).

Storage requirements

- Store dust-free and dry.
- Do not store outdoors.
- Protect from direct sunlight.
- Observe the storage temperature, [see Technical Data on page 54](#).
- Store in a locked place that is not accessible to children.

If the machine is stationary for more than 1 month, perform the following measures:

Entire machine	• Clean thoroughly. • Check for leaks, rectify any defects if necessary.
Rechargeable battery	• Clean thoroughly. • Check the charge condition, store at a state of charge of approx. 30%. • Store rechargeable battery separately from.



13.2 Final shutdown

If the machine is no longer in use and is shut down for good, all operating fluids must be drained.

Have the machine professionally dismantled and disposed of by a state-approved recycling company.

Professional disposal of this machine avoids negative effects on human health and the environment, helps with the targeted treatment of pollutants and makes it possible to recycle valuable raw materials.

13.2.1 Disposal of old electrical and electronic equipment

Disposal of old electrical and electronic equipment

Professional disposal of this machine avoids negative effects on human health and the environment, helps with the targeted treatment of pollutants and makes it possible to recycle valuable raw materials.

For customers in EU countries

This machine is subject to the European directive for old electrical and electronic equipment (Waste Electrical and Electronic Equipment (WEEE)), as well as the corresponding national laws.

The WEEE directive provides the framework for an EU-wide treatment of old electrical equipment.

The machine is marked with the crossed-out garbage bin symbol. This means that you do not dispose of the battery in normal household waste but that it must be disposed of in a separate, environmentally friendly collection facility.

This unit is intended as a professional electrical tool exclusively for commercial use (so-called B2B device according to WEEE directive). In contrast to equipment mainly used in private households (so-called B2C equipment), this machine may therefore not be disposed of in some EU countries, e.g. in Germany, at the collection points of the public waste disposal authorities (e.g. municipal recycling centers). In case of doubt, information on the prescribed disposal route for B2B electrical appliances in the respective country can be obtained from the sales outlet in order to ensure disposal in accordance with the applicable legal regulations.

There are also some notes to follow in the sales contract or in the general Terms and Conditions of the sales location.

For customers in other countries

It is recommended that you do not dispose of the machine in normal household waste but rather in a separate, environmentally friendly collection facility. National laws also may, under certain circumstances, prescribe the separate disposal of electrical and electronic products. Correct disposal of this machine in accordance with current national guidelines must be assured.

13.2.2 Disposal of rechargeable batteries and starter batteries

The machine contains one or more batteries or accumulators (hereinafter uniformly referred to as "battery"). Professional disposal of the battery avoids negative effects on human health and the environment, helps with the targeted treatment of pollutants and makes it possible to recycle valuable raw materials.

For customers in EU countries

This battery is subject to the European Directive on (old) batteries and (old) accumulators and the relevant national laws. The Battery directive provides the framework for an EU-wide treatment of old batteries.

The battery is marked with the crossed-out garbage bin symbol. Below this symbol there is also the name of the pollutants contained, namely "Pb" for lead, "Cd" for cadmium and "Hg" for mercury.

Batteries must not be disposed of with normal household waste! End users must dispose of used batteries exclusively via the manufacturer and the trade or the collection points specially set up for this purpose (legal obligation to return); the disposal is free of charge. Retailers and manufacturers are obliged to take these batteries back and recycle them properly or dispose of them as hazardous waste (legal obligation to take them back).

Batteries purchased from Wacker Neuson can be returned to Wacker Neuson free of charge after use. If the batteries cannot be returned personally to one of the Wacker Neuson branches, please note any instructions in the purchase contract or in the General Terms and Conditions of the point of sale.

For customers in other countries

Wacker Neuson recommends that the battery be disposed of in an environmentally friendly manner in a separate collection rather than in the normal household waste. National laws or regional regulations may also require batteries to be disposed of separately. Disposal of the battery in accordance with national regulations must therefore be ensured.

14 Technical Data

14.1 General instructions



NOTICE

The installed connectors do not correspond to the IEC standard.

- ▶ Only the loads defined in the chapter Use of the operating instructions may be connected.



Information

For system technical reasons, empty columns can be displayed in the technical data, and numbers and letters that written in superscript or subscript may be displayed incorrectly, e.g:

- ▶ Sound power level LWA instead of L_{WA}
- ▶ Sound pressure level LpA instead of L_{pA}
- ▶ Vibration total value ahv instead of a_{hv}
- ▶ Carbon dioxide CO2 instead of CO_2
- ▶ Unit m/s2 instead of m/s^2

14.2 ACBe

Type	ACBe	
Frequency converter material number	5100050080	
Rechargeable battery material number	5100025709	
Rated current [A]	20	
Rated voltage [V]	51	
Rated output [kW]	0,82	
Output current [A]	16,7	
Output voltage [V]	34	
Nominal output power [kW]	0,79	
Output phases [~]	3	
Type of current (input)	DC	
Length [mm]	296	
Width [mm]	236	
Height [mm]	561	
Weight [kg]	6,5	
Operating weight [kg]	15,9	
Plug receptacle type	CEE; 3P 32A 2H < 50V	
Number of plug receptacles	1	
Protection type	IP24D	
Storage temperature range [C°]	-30 - +50	
Operating temperature range [C°]	0 - +45	

Type	ACBe	
Frequency converter material number	5100050080	
Sound pressure level LpA Norm	EN ISO 11201	
Sound pressure level LpA [dB(A)]	> 70	

14.3 Rechargeable battery



Information

Compatible rechargeable batteries!

Only use the following rechargeable batteries:

- ▶ BP1000 with production date 08/2019 or later (see type label)
- ▶ BP1400
- ▶ Other incompatible rechargeable batteries switch off automatically after 30 seconds and do not release any voltage at the plug receptacle.

Type	BP1000
Rechargeable battery material number	5100025709
Rated voltage [V]	51
Type of current (output)	DC
Length [mm]	296
Width [mm]	396
Height [mm]	322
Weight [kg]	9,3
Labeling	14INR19/65-8
Rechargeable battery type	Lithium-ions
Energy content [Wh]	1.008
Capacity [Ah]	20
Discharge current max. [A]	160
Charge current max. [A]	32
Protection type	IP2X
Storage temperature range [°C]	-30 – +50
Operating temperature range [°C]	-10 – +50
Operating temperature range charging [°C]	0 – +45
Rechargeable battery runtime [h] ACBe IEe38	4
Rechargeable battery runtime [h] ACBe IEe45	3
Rechargeable battery runtime [h] ACBe IEe58	2

Type	BP1400
Rechargeable battery material number	5100048620
Rated voltage [V]	51
Type of current (output)	DC
Length [mm]	296
Width [mm]	396



Type	BP1400
Rechargeable battery material number	5100048620
Height [mm]	322
Weight [kg]	9,6
Labeling	14INR19/66-8
Rechargeable battery type	Lithium-ions
Energy content [Wh]	1.425
Capacity [Ah]	28
Discharge current max. [A]	80
Charge current max. [A]	27
Protection type	IP2X
Storage temperature range [°C]	-30 – +50
Operating temperature range [°C]	-10 – +50
Operating temperature range charging [°C]	0 – +45
Rechargeable battery runtime [h] ACBe IEe38	5,6
Rechargeable battery runtime [h] ACBe IEe45	4,2
Rechargeable battery runtime [h] ACBe IEe58	2,8

14.4 IEe38

Type	IEe38/34/1,5	IEe38/34/3
Material number internal vibrator	5100049759	5100049830
Rated current [A]	6,2	6,2
Rated voltage [V]	34	34
Rated frequency [Hz]	200	200
Nominal power** [kW]	0,29	0,29
Phases [~]	3	3
Vibration amplitude in air [mm]	2,0	2,0
Vibrations [1/min]	12000	12000
Vibrations [Hz]	200	200
Vibrating head diameter [mm]	38	38
Outer diameter of protective hose [mm]	31	31
Length of vibrator head [mm]	294	294
Length of protective hose [mm]	1500	3000
Length of power cable ** [mm]	1500	1500
Weight [kg]	4,10	5,26
Plug type	CEE; 3P 32A <50V 2H	CEE; 3P 32A <50V 2H
Engine type	Asynchronous engine	Asynchronous engine
Oil specification	4UH1-46N	4UH1-46N
Oil volume [l]	0,006	0,006
Protection class	III	III
Protection type	IP67	IP67
Storage temperature range [C°]	-20 - +60	-20 - +60
Operating temperature range [C°]	-10 - +40	-10 - +40

Type	IEe38/34/1,5	IEe38/34/3
Sound pressure level LpA Norm	EN 60745-2-12	EN 60745-2-12
Sound pressure level LpA [dB(A)]	74	74
Vibration total value ahv	< 2,5	< 2,5
Vibration total value norm	EN 60745-2-12	EN 60745-2-12
Measurement uncertainty of the total vibration value ahv [m/s ²]	0,5	0,5
* The rated power indicates the active power consumed at rated operation.		
** Including plug receptacle up to the switch housing.		

Type	IEe38/34/5	
Material number internal vibrator	5100052661	
Rated current [A]	6,2	
Rated voltage [V]	34	
Rated frequency [Hz]	200	
Nominal power** [kW]	0,29	
Phases [-]	3	
Vibration amplitude in air [mm]	2,0	
Vibrations [1/min]	12000	
Vibrations [Hz]	200	
Vibrating head diameter [mm]	38	
Outer diameter of protective hose [mm]	31	
Length of vibrator head [mm]	294	
Length of protective hose [mm]	5000	
Length of power cable ** [mm]	1500	
Weight [kg]	6,40	
Plug type	CEE; 3P 32A <50V 2H	
Engine type	Asynchronous engine	
Oil specification	4UH1-46N	
Oil volume [l]	0,006	
Protection class	III	
Protection type	IP67	
Storage temperature range [C°]	-20 - +60	
Operating temperature range [C°]	-10 - +40	
Sound pressure level LpA Norm	EN 60745-2-12	
Sound pressure level LpA [dB(A)]	74	
Vibration total value ahv	EN 60745-2-12	
Vibration total value norm	0,5	
Measurement uncertainty of the total vibration value ahv [m/s ²]	0,5	
* The rated power indicates the active power consumed at rated operation.		
** Including plug receptacle up to the switch housing.		



14.5 IEe45

Type	IEe45/34/1,5	IEe45/34/3
Material number internal vibrator	5100047831	5100049832
Rated current [A]	9,9	9,9
Rated voltage [V]	34	34
Rated frequency [Hz]	200	200
Nominal power** [kW]	0,47	0,47
Phases [~]	3	3
Vibration amplitude in air [mm]	2,3	2,3
Vibrations [1/min]	12000	12000
Vibrations [Hz]	200	200
Vibrating head diameter [mm]	45	45
Outer diameter of protective hose [mm]	31	31
Length of vibrator head [mm]	330	330
Length of protective hose [mm]	1500	3000
Length of power cable ** [mm]	1500	1500
Weight [kg]	5,24	6,42
Plug type	CEE; 3P 32A <50V 2H	CEE; 3P 32A <50V 2H
Engine type	Asynchronous engine	Asynchronous engine
Oil specification	4UH1-46N	4UH1-46N
Oil volume [l]	0,006	0,006
Protection class	III	III
Protection type	IP67	IP67
Storage temperature range [C°]	-20 - +60	-20 - +60
Operating temperature range [C°]	-10 - +40	-10 - +40
Sound pressure level LpA Norm	EN 60745-2-12	EN 60745-2-12
Sound pressure level LpA [dB(A)]	73	73
Vibration total value ahv	< 2,5	< 2,5
Vibration total value norm	EN 60745-2-12	EN 60745-2-12
Measurement uncertainty of the total vibration value ahv [m/s²]	0,5	0,5
* The rated power indicates the active power consumed at rated operation.		
** Including plug receptacle up to the switch housing.		

Type	IEe45/34/5	
Material number internal vibrator	5100052662	
Rated current [A]	9,9	
Rated voltage [V]	34	
Rated frequency [Hz]	200	
Nominal power** [kW]	0,47	
Phases [~]	3	
Vibration amplitude in air [mm]	2,3	
Vibrations [1/min]	12000	

Type	IEe45/34/5	
Vibrations [Hz]	200	
Vibrating head diameter [mm]	45	
Outer diameter of protective hose [mm]	31	
Length of vibrator head [mm]	330	
Length of protective hose [mm]	5000	
Length of power cable ** [mm]	1500	
Weight [kg]	8,80	
Plug type	CEE; 3P 32A <50V 2H	
Engine type	Asynchronous engine	
Oil specification	4UH1-46N	
Oil volume [l]	0,006	
Protection class	III	
Protection type	IP67	
Storage temperature range [C°]	-20 - +60	
Operating temperature range [C°]	-10 - +40	
Sound pressure level LpA Norm	EN 60745-2-12	
Sound pressure level LpA [dB(A)]	73	
Vibration total value ahv	< 2,5	
Vibration total value norm	EN 60745-2-12	
Measurement uncertainty of the total vibration value ahv [m/s²]	0,5	
* The rated power indicates the active power consumed at rated operation.		
** Including plug receptacle up to the switch housing.		

14.6 IEe58

Type	IEe58/34/1,5	IEe58/34/3
Material number internal vibrator	5100049833	5100049834
Rated current [A]	14,8	14,8
Rated voltage [V]	34	34
Rated frequency [Hz]	200	200
Nominal power** [kW]	0,7	0,7
Phases [~]	3	3
Vibration amplitude in air [mm]	2,9	2,9
Vibrations [1/min]	12000	12000
Vibrations [Hz]	200	200
Vibrating head diameter [mm]	58	58
Outer diameter of protective hose [mm]	40	40
Length of vibrator head [mm]	337	337
Length of protective hose [mm]	1500	3000
Length of power cable ** [mm]	1500	1500
Weight [kg]	7,82	9,58
Plug type	CEE; 3P 32A <50V 2H	CEE; 3P 32A <50V 2H



Type	IEe58/34/1,5	IEe58/34/3
Engine type	Asynchronous engine	Asynchronous engine
Oil specification	4UH1-46N	4UH1-46N
Oil volume [l]	0,008	0,008
Protection class	III	III
Protection type	IP67	IP67
Storage temperature range [C°]	-20 - +60	-20 - +60
Operating temperature range [C°]	-10 - +40	-10 - +40
Sound pressure level LpA Norm	EN 60745-2-12	EN 60745-2-12
Sound pressure level LpA [dB(A)]	78	78
Vibration total value ahv	< 2,5	< 2,5
Vibration total value norm	EN 60745-2-12	EN 60745-2-12
Measurement uncertainty of the total vibration value ahv [m/s²]	0,5	0,5
* The rated power indicates the active power consumed at rated operation.		
** Including plug receptacle up to the switch housing.		

Type	IEe58/34/5	
Material number internal vibrator	5100052663	
Rated current [A]	14,8	
Rated voltage [V]	34	
Rated frequency [Hz]	200	
Nominal power** [kW]	0,7	
Phases [~]	3	
Vibration amplitude in air [mm]	2,9	
Vibrations [1/min]	12000	
Vibrations [Hz]	200	
Vibrating head diameter [mm]	58	
Outer diameter of protective hose [mm]	40	
Length of vibrator head [mm]	337	
Length of protective hose [mm]	5000	
Length of power cable ** [mm]	1500	
Weight [kg]	12,10	
Plug type	CEE; 3P 32A <50V 2H	
Engine type	Asynchronous engine	
Oil specification	4UH1-46N	
Oil volume [l]	0,008	
Protection class	III	
Protection type	IP67	
Storage temperature range [C°]	-20 - +60	
Operating temperature range [C°]	-10 - +40	
Sound pressure level LpA Norm	EN 60745-2-12	
Sound pressure level LpA [dB(A)]	78	
Vibration total value ahv	< 2,5	

Type	IEe58/34/5	
Vibration total value norm	EN 60745-2-12	
Measurement uncertainty of the total vibration value ahv [m/s ²]	0,5	
* The rated power indicates the active power consumed at rated operation.		
** Including plug receptacle up to the switch housing.		

14.7 Battery charger

Type	C48/4
Material number machine	5100006221
Rated voltage [V]	230 (90 – 265)
Type of current (input)	AC
Phases [~]	1
Rated current [A]	<3
Rated frequency [Hz]	50 – 60
Type of current (output)	DC
Output current [A]	4 +/-0,5
Output voltage max. [V]	57,6
Length [mm]	190
Width [mm]	145
Height [mm]	65
Weight [kg]	2,0
Power cable [mm]	1500
Supply cable [mm]	1800
Protection class	II
Protection type	IP54
Storage temperature range [°C]	-30 - +50
Operating temperature range [°C]	0 - +45

14.8 Extension cable

- Only use permissible extension cables, .
- Data on the type designation and voltage of this machine can be found on the type label.
- Refer to the following table for the required wire cross-section of the extension cable:

Type	C48/4	
Material number	5100006221	
Extension [m]	≤150	
Strand cross section [mm ²]	1,5	



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Language: [us]