

Operation manual

AMACS safety regulations

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1 About this manual

Observe the instructions in this manual to ensure correct and safe use of the system.

Keep this manual safe for future use.

You are obliged to instruct persons who are not familiar with the content of this manual.

You are also obliged to point out violations and their possible consequences.

These persons must always have access to the manual. Keep this manual in the immediate vicinity of the system for this reason.

Observe the comprised safety instructions!

If this manual is damaged or lost, request a new copy from **Big Dutchman**.

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1.1 Structure of the safety instructions



DANGER!

An **immediate danger** which, if ignored, will **certainly** lead to serious injury or death.



WARNING!

A **possible danger** which, if ignored, **may** lead to serious injury or death.



CAUTION!

A danger which, if ignored, may cause minor to moderate injury.



NOTICE!

An indication of **possible** property or environmental damage, which should be observed to avoid damage.

1.2 Supplier's documentation

The supplier's documentation includes all instructions for components that are supplied by **Big Dutchman** but not manufactured by **Big Dutchman**, for example motors. These instructions are usually supplied with the respective component. If this is not the case or if the language of the corresponding country is not included, please request this documentation from **Big Dutchman** .

It is essential to observe the instructions in the supplier's documentation!



2 Safety

2.1 General safety regulations

Only work with suitable tools and observe the local accident prevention regulations. Observe the regulations of local water distribution and power supply companies.

WARNING!

Danger of electric shock and short circuit when working on the system!

- ▶ Before maintenance: Switch off the main switch and secure it against reactivation.
- ▶ Attach a warning sign.
- ▶ Do not touch or use any bare electrical components.
- ▶ After working on the system: Check safety and function control devices.

DANGER!

Danger to life with manipulated safety devices!

- ▶ Never remove or deactivate.
- ▶ In case of defect: Immediately switch off the system, lock the main switch, repair the damage.
- ▶ Before operation: All safety devices must be functional.

WARNING!

Danger of tripping and damage due to parts lying about!

- ▶ Do not place any objects (e.g. tools, spare parts) on or around the system.
- ▶ Parts lying about in or on the components can lead to serious damage of the system.
- ▶ Before operation: Remove all loose parts.

DANGER!

Danger due to leaking water on live parts!

- ▶ Switch off the power and water supply.
- ▶ Only enter affected areas of the house after securing them.

**NOTICE!**

Leaking hoses, seals and pipes can cause structural damage or destroy electrical systems by short circuits.

- ▶ Check regularly for leaks to prevent damage and short circuits.

**WARNING!**

No access for children – risk of injury due to insufficient safety distances, even with supervision.

**DANGER!****For maintenance of drives:**

- ▶ Set the M-0-A switch to "0".
- ▶ Switch off the motor protection switch.
- ▶ Press the emergency stop button (if applicable).
- ▶ Inform all persons involved and those authorised for remote access about the maintenance work.
- ▶ Deactivate or secure remote access during maintenance

2.2 Operator's responsibility

The operator is legally **obliged** to ensure the safety of all staff and **external persons**, such as visitors or veterinarians, and to comply with all applicable safety, accident prevention and environmental protection regulations in the system's area of use.

In particular, the operator must ensure the following:

- Responsibilities for operation, maintenance and cleaning are clearly defined.
- Staff and external persons who come into contact with the system are provided with the necessary personal protective equipment.
- The system is only used in accordance with its designated use.
- The system is operated in an excellent state from the technical point of view at all times and is regularly maintained.
- Both staff and external persons have been instructed in the safe handling of the system.
- Operation instructions are available for the system.



2.3 Staff qualifications

Only qualified and reliable persons may work on the system. Persons whose ability to respond is impaired, for example due to alcohol, drugs or medication, are not permitted to work on the system. The operator is responsible for the staff employed. **Big Dutchman** does not accept any liability for damage caused by insufficiently qualified staff.

2.4 Personal protective equipment



WARNING!

Protective measures during any work on the system are mandatory!

- ▶ Wear close-fitting work clothes and protective footwear.
- ▶ Use protective gloves and safety glasses, if necessary.
- ▶ Avoid wearing jewellery and loose clothing.
- ▶ Tie back long hair.
- ▶ Wear a hard hat when working underneath the system.

2.5 Replacement/repair



CAUTION!

Only use original spare parts from Big Dutchman! Non-original parts can lead to safety risks and falsify measured values such as the temperature.

- ▶ Foreign parts or modifications can cause safety risks.

2.6 Designated use

The software is used to control the equipment in the house.

- Use only within the intended scope.
- Non-designated use leads to the exclusion of liability.
- Comply with operating, maintenance and installation instructions.
- Do not make unauthorised changes to hardware or software.



2.7 Safety instructions when operating electrical appliances



DANGER!

Work on electrical components may only be carried out by qualified electricians!

- Observe standards such as EN 60204 and DIN VDE 0100/0113/0160.
- Danger to life if parts are open – prohibit access for unauthorised persons.



NOTICE!

Do not install control devices directly in the house but in the service room to prevent corrosion caused by e.g. ammonia gas.

2.8 System-specific safety regulations



CAUTION!

The software automatically controls various equipment in the house.

- Take suitable safety measures before starting work.



NOTICE!

Observe the manuals of the controlled equipment, especially the safety instructions!



2.9 Safety instructions for use of the software

2.9.1 Automatically starting control of drives and consumers



WARNING!

Danger to life due to devices starting up automatically!

- ▶ Do not insert any body parts into moving parts of the system.
- ▶ Do not bring clothing into rotating parts, even if they are stationary.
- ▶ Wear protective equipment.
- ▶ Never stay underneath automatically lowering parts of the system.

2.9.2 Passwords

Only **authorised** persons may operate the system, both on the computer and via remote maintenance. The operator **must** ensure that unauthorised access is excluded.



NOTICE!

Password protection for sensitive software inputs.

- ▶ Do not pass on passwords to unauthorised persons.
- ▶ Store safely and securely.
- ▶ No recovery possible without USERMANAGEMENT right.



CAUTION!

Improper operation by unauthorised persons can endanger people and animals.

2.9.3 Control cabinet



NOTICE!

Observe the documents enclosed with the control cabinet!

- ▶ The safety instructions are binding.



2.9.4 Alarms



WARNING!

The software does not replace emergency or safety systems!

- ▶ Alarms help to recognise problems at an early stage.
- ▶ Do not ignore – check the cause.
- ▶ Alarms must be active by default.
- ▶ Deactivated alarms are the operator's responsibility.



DANGER!

Deactivation can be life-threatening!

- ▶ Only deactivate if no safety-relevant function is affected.

2.9.5 Remote access



WARNING!

Responsibility lies with the user – improper remote control can be dangerous.

- ▶ Only change critical settings on site.
- ▶ Only use remote access for diagnosis or support.
- ▶ Technical errors can prevent remote control.
- ▶ Always inform the staff on site before remote actions.

Remote access enables the software to be controlled remotely.



2.10 Animal protection

The welfare of the animals has top priority. The software supports optimal management conditions, but does not replace human responsibility.

NOTICE!

For this reason, please note:

- ▶ Climate, feeding and light must be controlled in a welfare-friendly way.
- ▶ On-site inspections are essential, even in case of automation.
- ▶ Alarms and warnings must be taken seriously and checked promptly.
- ▶ Manual intervention is required immediately in the event of technical errors.
- ▶ All animal welfare regulations (e.g. temperature, air quality, lighting) must be complied with at all times.

DANGER!

Improper or negligent use of the software can endanger animal welfare.

2.10.1 Additives during operation

CAUTION!

Observe the following when using additives (e.g. feed additives, disinfectants):

- ▶ Only use authorised substances.
- ▶ Strictly adhere to dosage.
- ▶ Check interactions.
- ▶ No contamination of feed or water.
- ▶ Observe software instructions and check functions regularly.
- ▶ Wear personal protective equipment.
- ▶ **In the event of errors or uncertainties, stop use immediately and contact qualified staff!**

3 Dismantling and disposal



NOTICE!

When disposing of the system, commission experts only.

The operator is responsible for disposing of the system at the end of its service life. Observe the applicable statutory provisions when disposing of the system.



NOTICE!

Incorrect disposal can lead to environmental damage.

- ▶ The system and individual parts must be disposed of properly!
 - ▶ If necessary, commission a specialised company with the disposal.
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NOTICE!

Observe system-specific safety instructions during dismantling.

