

# Recycling, disposal and recovery concept

Version 1.0, January 2022

## PROTECTING PEOPLE, MACHINES AND THE ENVIRONMENT.

Environmental protection and resource conservation are high priority corporate goals for Pfannenberg, also in the course of our ISO 14001 certified environmental management system.

We, the Pfannenberg Company, draw your attention to the crucial role you play as a consumer in the reuse, recycling and other forms of recovery at the end of the useful life of our products.

This document provides you with an overview of the measures and regulations to be observed when recycling, disposing of and taking back used Pfannenberg products.

### NOTE

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The devices are in packaging to protect them from transport damage. Packaging is a raw material and can therefore be reused. Please return them to the raw material cycle.



Pfannenberg old devices must not be disposed of in normal household waste. According to EU Directive 2012/19, the device must be disposed of in an orderly manner at the end of its service life. In this process, recyclable materials contained in the device are recycled and the burden on the environment is avoided.

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## 1 Dismantling and disposal

The unit must be dismantled and disposed of in an environmentally friendly way at the end of its useful life.

### 1.1 Country-specific legal regulations

When disposing of the products or product components, comply with the respective country-specific legal regulations. In this regard, corresponding standards for disposal must also be observed.

### 1.2 Safety information

All work may only be performed by persons with certified qualifications under consideration of:

- the minimum qualification
- the respective assembly or operating instructions
- the valid local regulations and laws
- company-internal work, operation and safety regulations

Use necessary personal protective equipment for the respective activity for all work.

#### **DANGER**

##### **Danger of fatal injury due to electric shock!**

Parts may be under voltage when the unit is opened and can cause an electric shock if touched.

Observe the following points when working on the open unit:

- Work on the electrical system may only be carried out by authorized electricians.
- Before commencing work on the electrical system, switch off the power supply, check that no voltage is applied and secure against being switched back on.
- Cordon off the working area and post a warning sign.
- The electrical connection must be made according to nationally valid regulations.

#### **CAUTION**

##### **Risk of cutting and injury!**

Risk of cutting and injury due to production-related, sharp sheet metal edges on the unit.

- Use personal protective equipment (cut-proof gloves).
- Handle with care.

#### **CAUTION**

##### **Risk of injury due to improper working!**

Risk of injury due to improper working on a refrigeration unit.

- The refrigeration unit may only be dismantled by specialized refrigeration companies.

#### **ATTENTION**

##### **Hazards for the environment**

Refrigerants are harmful to the environment as soon as they escape into the atmosphere.

- Only have work on the refrigeration unit carried out by experts in accordance with the chemicals climate protection directive.
- Do not damage refrigerant lines.
- Pass on refrigerants for professional treatment.

#### **NOTE**

Dismantling and disposal are to be carried out by the owner or persons authorized by him.

Contact the local authorities or special disposal companies for information on issues of environmentally friendly disposal.

### 1.3 Dismantling

#### Requirements

**⚠ DANGER** – Danger to life due electric shock. Make sure that the unit is voltage-free.

#### Procedure

1. Switch off the unit, secure against switching back on and wait until all parts have a temperature below 40 °C.
2. Physically disconnect all energy and media supplies from the unit, discharge stored residual energy.
3. Clean dirt and contamination from the unit.
4. Remove operating and auxiliary materials and dispose of them in an environmentally friendly way.
5. Dismantle the unit into the different separable materials.
  - Observe the valid work safety and environmental protection regulations.

### 1.4 Disposal

#### NOTE

Old units are also professionally disposed of by Pfannenberg within EU-countries. Delivery to one of our manufacturing facilities within EU shall be free of charge. If you have any questions, please feel free to contact our [customer service](#).

Dismantled components should be recycled unless return or disposal agreements have been made:

- Scrap metals
- Hand over plastic elements for recycling
- Dispose of other parts sorted according to their material properties

#### ATTENTION

##### Hazards for the environment

Improper disposal of chemicals (e.g. additives) can cause environmental pollution.

- Chemicals must not be thrown in with domestic trash and must not allowed to get into the sewer system or ground.
- Wear appropriate protective clothing (gloves, eye protection, etc.) for disposal.
- Dispose of the used chemicals(as special waste if necessary) and pass on for recycling separately.
- Refrigerants may not escape into the atmosphere. Pass on refrigerants for professional treatment.
- Work on the refrigeration circuit may only be carried out by experts in accordance with the chemicals climate protection directive.
- Observe safety data sheets as well as valid national and local regulations.

The components of the plant or the unit basically consist of the following materials:

- Plastic
- Non-ferrous metals
- Stainless steel
- Steel and aluminum parts
- Electronic sub-assemblies
- Refrigerants in the refrigeration circuit (type and amount, can be found in the respective assembly or operating instructions)

Batteries and accumulators

- Please return batteries and accumulators to the designated collection points. The chemical composition can be found in the respective data sheets, operating and assembly instructions.
- Possible installed accumulators and batteries can be removed easily and non-destructively with commercially available tools by qualified personnel independent of the manufacturer.

#### NOTE

We draw the attention of the end users to their own responsibility with regard to the deletion of personal data on the old devices to be disposed of.

**Exclusion of liability:**

All information present was carefully checked in 2022.

However, we shall assume no liability with regard to the completeness and accuracy of the information.

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