



AMK Technical Bulletin 002

Kitchen furniture – Raised installation of dishwashers

Edition 06/2020

For AMK members
(manufacturers of kitchen furniture, appliances, sinks and accessories, as well as dealers),
surveyors and test institutes

Preface

The AMK Technical Bulletin 002, edition 06/2020, was elaborated by the AMK Working Group Technology & Standards.

This AMK Technical Bulletin replaces the AMK Technical Bulletin 002, edition 11/2011.

Amendments

In comparison with the AMK Technical Bulletin 002, edition 11/2011, the following amendments have been made:

- a) Technical Bulletin brought up to the latest technical status;
- b) Layout changed;
- c) Revision remark removed.

Version history

The following former editions of the AMK Technical Bulletin 002 exist:

- Edition 11/2011
- Edition 03/2010
- Edition 07/2007
- Edition 06/2001

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1. Area of application

This AMK Technical Bulletin defines requirements with regard to the mounting, implementation and planning of household dishwashers that are not installed on the kitchen floor, but raised in an appliance cabinet/on a platform. Figures 1 and 2 show examples of installation situations.

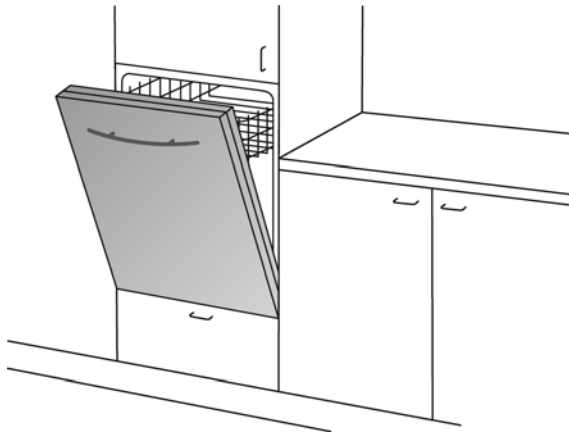


Figure 1 – Fully integrated dishwasher (example)

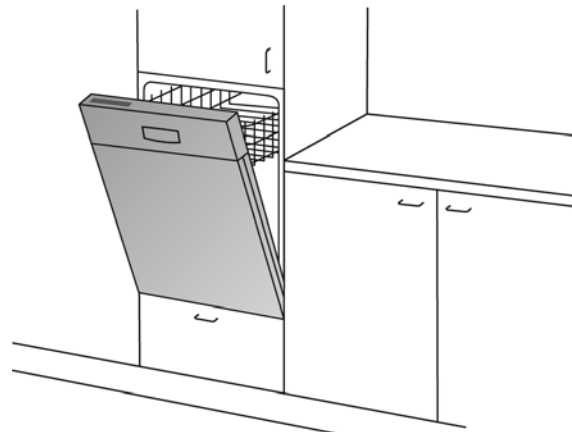


Figure 2 – Semi-integrated dishwasher (example)

2. Standards and literature references

DIN 68930, Kitchen furniture – Fitness for purpose – Requirements and testing

DIN EN 14749:2016-06, Furniture – Domestic and kitchen storage units and kitchen worktops – Safety requirements and test methods

DIN EN 16122:2012-10, Domestic and non-domestic storage furniture – Test methods for the determination of strength, durability and stability

DIN EN 60335-2-5; VDE 0700-5, Household and similar electrical appliances – Safety – Part 2-5: Particular requirements for dishwashers

3. Requirements

3.1 Installation

The appliance is to be installed according to the specifications of the appliance and kitchen furniture manufacturer.

3.2 Installation

The electrical and water connections (e.g. pump-off height/back-suction guard) are to be made according to the specifications of the appliance manufacturer.

Visual displays of fully integrated dishwashers may be restricted or no longer usable with a raised installation.

Due to the tilting of the lower edge of furniture front mounted on the dishwasher, the necessary gap between it and the front below it may be affected. Depending on the implementation of the furniture and/or dishwasher, this gap may have a different size and thus deviate from the joint width of the kitchen. To minimise the gap, there are various solutions on the market for furniture/dishwashers.

3.3 Load requirement

The furniture, and in particular the construction shelf on which the dishwasher will be installed, must be suitable for this load.

DIN EN 14749:2016-06, 5.3.4 "Storage area/space for heavy household appliances" describes this load case and the test.

The load on the front area of the construction shelf is increased when the appliance door is open. In addition, pulling out baskets filled with dishes increases the load still further.

3.4 Stability

The stability of the appliance cabinet/platform including the dishwasher must be ensured. The appliance cabinet must be fastened (e.g. to the wall) in accordance with the kitchen furniture manufacturer's specifications.

The tilting moment on the appliance cabinet is increased when the appliance door is open. In addition, pulling out baskets filled with dishes increases the load still further.

The requirements according to DIN EN 14749:2016-06 are to be met.

DIN EN 14749:2016-06, 5.4 "Stability" and 5.5 "Floor standing units intended to be attached to the building" describe this load case and the test. With regard to stability, DIN EN 14749:2016-06 takes into account household appliances in standard installation situations. In individual cases with the raised installation of a dishwasher, higher tensile forces can act on the wall fastening than those used for testing according to DIN EN 14749:2016-06.

3.5 Moisture protection

Moisture protection is to be designed such that damage is impossible when operated as intended and handled properly.