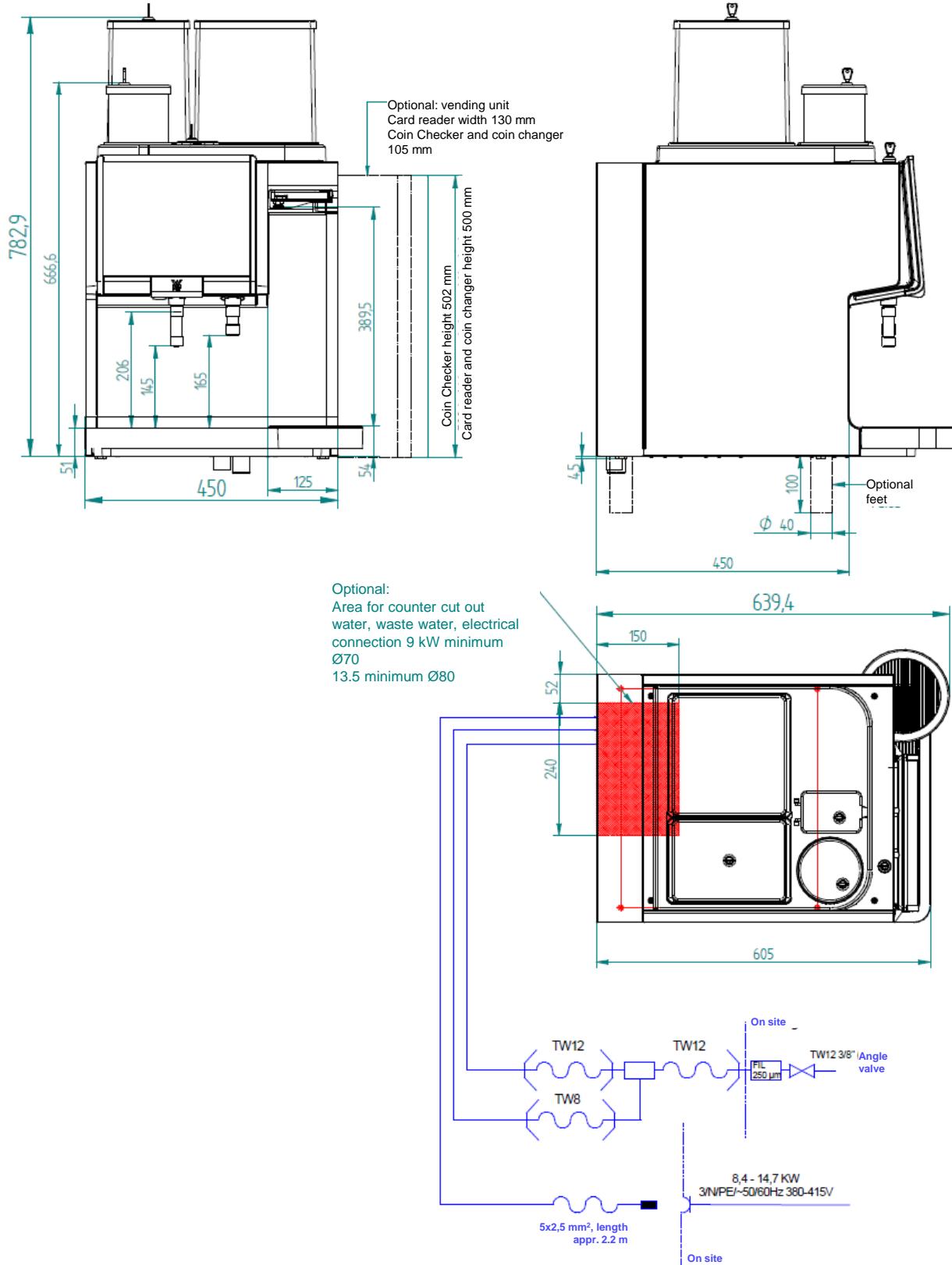


# WMF 9000 F (internal storage) with grounds separator planning information



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## Conditions for usage and installation

Any necessary on-site preparatory work for electricity, water and drainage connections at the customer's premises is to be arranged by the machine owner / operator. The work must be carried out by authorised installation technicians in compliance with general, country-specific and local regulations. The WMF service engineers may only connect the coffee machine to existing prepared connection points. WMF Service is neither authorised nor responsible for carrying out any on-site installation work prior to connection. In order to avoid possible faults from arising on our shielded data lines due to potential equalisation currents between the devices, an additional potential equalisation unit should be planned for devices connected to the vending system.

Dimensions and empty weight	Width Height Depth Clearance heights  Weight	450 mm 783 mm 605 mm (640 mm) 145 (coffee) 165 mm (206 mm with removed hot water spout) Approx. 65 kg
Water supply	Water supply line  Inlet temperature	Onsite: 1/2 inch (TW12) hose connector with main shutoff valve and dirt filter with 250 sq.m mesh size, on-site. At least 0.36 MPa (3.6 bar) flow pressure at 6 l/min <sup>1)</sup> <sup>2)</sup> <sup>3)</sup> Machine site: Boiler feed 1/2 inch (TW12) Rinsing line 3/8 inch (TW8) At least 0.2 MPa (2 bar) flow pressure at 6 l/min. Maximum 0.6 MPa (6 bar). Maximum 35 °C.
Water drain tube (optional)		Hose a minimum of DN 40, minimum downward slope of 2 cm/m. If the coffee machine is connected to the drainage system without a grounds separator, it is imperative that a 20 mm drop section is installed in the pipe routing by the customer. This drop section can be realised by using, for example, part 352.389.08.1 from Geberit or similar.
Calibration pressure	Boiler	0.32MPa (3.2 bar)
Electrical data	Nominal power rating	8.5 – 10.1 kW / 12.4 – 14.7 kW
	Power supply	380 / 415V 50 / 60 Hz (3 / N / PE)
	Degree of protection	IP X0
	Protection Class	IP 30

- 1) Under reconsideration of usual pressure loss caused by water connection set and water filter and to ensure max. hourly output at necessary machine side supply pressure of 0.2 Mpa (2bar) at 6 l/min
- 2) Note: For effective operation of the setting routine of the pressure reducer, the system pressure at the machine connection needs to be at least 2,4bar at 6l/min. If the pressure is lower, the pressure difference might not be sufficient to set the pressure reducer according to the setting value
- 3) Note: pressure loss caused by an upstream water filter. Further information can be found in the filter user manual

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Installation Clearance	<p>For operating, service, and safety reasons the machine should be installed with a clearance from the building or non-WMF components of not less than 50 mm at the sides and 60 mm at the back. A minimum working space of 800 mm in front of the coffee machine is recommended. Clearance of at least 200 mm above the product hopper is recommended. The height of the installation surface above the floor is at least 850 mm. If the coffee machine connections are to be run downwards through the counter, please make space for the lines, which can reduce the usable space below the machine. Additional space for grounds through counter need to be considered on site if necessary. If the coffee machine is operated with a water filter the additional space under the machine depending on the filter size has to be considered. For further information see filter instructions.</p> <p>Attention: Installation of the optional thermal container is on the right side (seen from the operating side). Space must be considered.</p>
Ventilation	<p>If ventilation possibility is limited sufficient ventilation need to be provided e.g machine on feet extension, active ventilation, additional ventilation slots/ openings in counter area. Ventilation slots must not be covered. Under certain circumstances a forced ventilation on site is necessary to ensure heat dissipation.</p>
Installation surface / water spray	<p>The device must be placed and leveled on a horizontal, sturdy, water-resistant, and heatproof base. The device must not be cleaned using a water jet. The device must be installed where it is protected against water spray. The device must not be located on a surface that is sprayed or cleaned with a water hose, steam jets, steam cleaner, or similar devices.</p>
Electrical connection	<p>These specifications for the electrical connection and the standards quoted apply for connecting the coffee machine in EU countries. It may be necessary to also observe additional country-specific regulations. Outside the EU countries acceptance of the standards quoted is to be checked by the legal entity or natural person who wishes to use the coffee machine.</p> <p>The customer's on-site electrical system must be designed to meet country-specific regulations per IEC 60364 and must match the information on the rating plate.</p> <p>An isolated ground socket or a country-specific single-phase socket for single-phase connection, or a 5-pole CEE / CEKON socket per DIN EN 50310 VDE 0800-2-310 or a country-specific multi-pole socket for a three-phase connection, must be available near the machine. The sockets are part of the customer's on-site installation. The mains cable must not come into contact with hot surfaces. If the mains cable for this device is damaged then it must be replaced by our service personnel or a similarly qualified person, in order to prevent hazards.</p> <p>In order to avoid possible faults from arising in our shielded data lines due to potential equalisation currents between the devices, an additional potential equalisation unit should be planned for devices connected to the vending system (see DIN EN 50310 VDE 0800-2-310). If the machine is intended to be installed in a large kitchen, it is recommended that it be equipped with a ground potential bonding conductor. The potential equalisation terminal is installed by WMF Service if needed.</p>

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Water supply and drainage	<p>The water supply must be located close to the machine (max. distance 800 mm). An anytime easily accessible and sufficiently dimensioned water tap (preferably ball tap) as well as a dirt filter with mesh size 250 sq.m must be installed below the counter in the water supply.</p> <p>For connection from below through the counter a cut-out must be made in the hatched area on-site according to drawing (see top view).</p> <p>The grounds separator must be installed in the ventilated drain pipe. It must be ensured that the grounds separator is installed in a vertical position. This means that it must always be perpendicular to the water backflow level. It must be installed in such a way that the specified gradient of the drain hoses (2%) is maintained. In addition, the height level of the grounds separator must always be below the coffee machine drains and above the actual drain pipe connections (HT40). (see illustration) Only coffee machines with HT40 pipes or WMF hoses may be connected to the grounds separator. Other appliances such as dishwashers or sinks must be installed elsewhere. The additional insertion of waste water hoses of any kind into the set separator also impairs functionality and hygiene. The specifications are based on the relevant standards and legal regulations.</p> <p>The grounds separator including the hoses and pipes must not be subjected to any major tensile, compressive or torsional loads. This can cause damage to the mechanical components. As a result, the serviceability may be lost. Further information on the installation can be found in the planning information for the grounds separator kit. The on-site preparatory work for the waste water connection must be commissioned by the machine operator. It must be carried out by licensed installers in compliance with general, national and local regulations. The following illustrations serve to visualise the processes and do not include any other connections such as electricity or water supply!</p>
	<p>We generally recommend the use of a water filter. Your WMF service partner will be happy to advise you on choosing the right water filter. If the water filter recommended by WMF Service is not installed upstream, the coffee machine may be damaged (e.g. due to limescale).</p>

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Miscellaneous	Ambient temperature	+5 °C to maximum +35 °C (empty the water system in case of frost).
	Maximum humidity	80 % relative humidity without condensation. Do not use device outdoors.
	Continuous sound pressure level (Lpa)	< 70 dB(A)

For more information as the instruction manual , safety data sheets and certificates , see:  
<https://coffeeconnect2.wmf.com>

All information refers to coffee machines/ equipment as standard version. Individual solutions can differ from the standard version.