**Feature overview**

**Franke A600 MS EC**

**Milk System MS EC, 1 or 2 grinders, 1 or 2 powder dosing units, hot water spout, wand for steam or autosteam, mains water connection, internal water tank**

Microprocessor-controlled fully automatic coffee machine with 1 or 2 precision coffee grinders for the individual preparation of coffee and coffee specialties such as Ristretto, Espresso and Café Crème. The processing of fresh milk can be used to prepare additional products such as Cappuccino, Latte Macchiato and milk coffee with warm milk and warm milk foam in addition to specialties with cold milk. 1 or 2 built-in powder dosing units offer the possibility of preparing hot chocolate, milk or mixed drinks, e. g. with chocolate powder or milk powder or two different types of chocolate. Dosed or non-dosed preparation of hot water is possible through a separate dispensing spout. Steam wand for the dosed or undosed steam dispensing in order to manually heat milk or preheat cups.

**Technical data**

Number of cups per hour\*:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **1L N PE 220-240V 50/60Hz 2100-2300W10A** | | | **1L N PE 220-240V 50/60Hz 2400-2800W 16A** | | |
|  |  | **Single cup/h** | | **Double cup/h** | **Single cup/h** | | **Double cup/h** |
| **Espresso** |  | 145 | | 185 | 150 | | 194 |
| **Café Crème** |  | 96 | | 113 | 100 | | 121 |
| **Cappuccino** |  | 98 | | 160 | 98 | | 160 |
| **Latte Macchiato** |  | 102 | | 155 | 102 | | 155 |
| **Hot water** |  | 117 | | - | 164 | | - |
| **Hot water** |  | (23 l/h) | |  | (33 l/h) | |  |
| **Hot chocolate** |  | 111 | | - | 111 | | - |
| **Milk coffee** |  | 116 | | 160 | 124 | | 186 |
| **Warm milk** |  | 108 | | 128 | 108 | | 128 |
| **Cold milk** |  | 122 | | - | 122 | | - |
|  |  |  |  | |  |  | |
| **Energy loss** | **KWh/24h** | 1,682 | | | 1,604 | | |

\*Output per hour and energy loss information are according to DIN18873-2

All specified values are dependent on various factors, e. g. water supply and product temperature or the grind coarseness setting.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Mains power connections: | | | 220-240V 1L N PE 2400-2800W 50-60Hz 16Á (EU)  220-240V 1L N PE 2100-2300W 50Hz 10Á (CH/GB/EU)  200-220V 2L PE 4500-5300W 60Hz 30Á (USA)  200V 2L PE 2300W 50-60Hz 16Á (JP)  220V 1L N PE 2600W 50Hz 16À (China) | | |
| Net weight: | up to max. 38 kg | | |  | | | |
|  |  | | |  | | | |
| Dimensions: width: 340 mm  height: 754 mm (feet 7 mm)  height: 796 mm (feet 40 mm)  depth: 600 mm | | | | | | | |
|  | | |  | | |  | |
|  |  | | |  | | | |

Mains water connection: Cold water: G 3/8" external thread

Water pressure: 80 to 800 kPa (0,8 to 8,0 bar)

With water filter: 80 to 600 kPa (0,8 to 6,0 bar)

Inlet hose: ∅ 8 x 1500 mm; union nut G3/8"

Wastewater connection: Water drain: Funnel trap ∅ 50 mm, vented

Waste-water hose: ∅ 20 x 2000 mm

*Additional option to mains water connection:*

Internal water tank 4,0 l Presence and Level monitoring.

Incl. filter cartridge

electronically switchable to mains water connection

Drip tray 3,0 l removable with Level monitoring

Ingress protection: No water protection: IPX0

Noise emission: Acoustic pressure: < 70 dB (A)

Approvals: (FCS4043): CE / CB / HACCP

**Version**

Housing parts and product container are manufactured from low-maintenance plastic, the front door is made of aluminum and the drip grid is made of stainless steel. All safety-relevant components are certified by the respective testing authorities. Housing colours Black Line (high-gloss black) or Grey Line (anthracite/black).

**Operating panel Touch+Go Control**

The entire operator guidance, settings and status function displays are shown on the 8" touch screen protected by an aluminum frame. 6 menu cards, all Individual definable for example for seasonal summer and winter drinks or beverages with the distinction according to recipes. The "Size", "Flavor intensity" and "Bean selection" preselection buttons provide you with additional beverage options. Display of 4, 6, 9, 12, 16 or 20 product buttons with photorealistic images of drinks per page, up to five pages. The products can be displayed individually with predefined images and text or via USB interface with customer-specific images. Onboard media pool, to show images and advertising messages during operation-breaks. Up to 7 different languages can be selected. Display of nutritional and allergen information is possible. Payment mode displays the product price and any credit. Events and information, e.g., the absence of coffee beans, are displayed in different colors or can be called up from the dashboard located behind the product level. The edge lighting is individually programmable. The functional lighting concept offers the possibility to notice these messages through a for example red and optional flashing edge lighting from any distance.

**Grinder**

One or two low-noise precision grinders with ceramic grinding discs and direct grinding function. Transparent single-chamber bean hopper with 2000 g content for one grinder. Transparent double-chamber bean hopper for two different bean types with 1200 g or 600 g content each for two grinders. Bean hopper made of easy care plastic. Removable using central fastener for release mechanism with simultaneous bean hopper fastener. Option to adjust the grind coarseness. Optional the bean hopper can be locked using a cylinder lock. Monitoring for lack of beans with messages on the display.

**Powder hopper**

One or two dosing units, e. g. for chocolate and/or milk powder or a dark and/or light-colored chocolate powder with a container content of approx. 1200 g or approx. 600 g. In the event of a lack of powder or missing hopper, the message appears on the display and the drink preparation is blocked. The special mixer system with high-performance motor ensures the preparation of homogeneous chocolate and milk products, and also (in connection with coffee products) combinations thereof. A special mechanism prevents the formation of tunnels in the powder stored in the hopper. The finished beverage is dispensed via the coffee spout as a single product. Optional the powder hopper can be locked using a central cylinder lock.

**Iced Coffee IC**

The optional Iced Coffee Module (IC) actively cools the freshly brewed coffee immediately after the brewing process and immediately before the product is issued. It can be used to prepare additional other freshly brewed and actively chilled products with freshly ground coffee beans such as Iced Coffee, Iced Espresso or Iced Americano or products in combination with milk, milk foam and/or syrup. Temperature control is carried out via a coaxial heat exchanger. The standard iQFlow brewing system prepares the Iced products in consistently high quality and taste. The Iced Coffee Module is integrated in the cleaning process of the coffee machine. A separate cleaner is not necessary. Installation instead of the second powder dosing unit.

**Brewing system**

The brewing system with patented brewing unit that features a fill level of up to 22 g and pre-brewing function is, when equipped with a corresponding brewing insert, suitable for the preparation of classic espresso, café crème, and other specialty coffees. Pressing a product button triggers the respective fresh grinding of the coffee beans. Specialty coffees can be prepared in single or double cups, fresh and according to demand. The optional iQFlow system is monitoring and regulating the brewing process through programmable brewing times. The Powder lid for the manual dosing of the coffee powder is optional lockable. After brewing, the dry coffee grounds are collected in the integrated grounds drawer (up to 80 portions). The drawer is easily emptied via the direct, separate access on the front of the machine. Monitoring for overfilling. Optional coffee grounds chute for disposal of coffee grounds directly into a waste container installed under the counter. Tool-free brewing unit removal, e. g. for cleaning, with presence monitoring.

**Coffee spout**

The automatic height adjustment of the double coffee spout from 85 mm to 180 mm enables the utilization of all conventional cups and drinking vessels up to a maximum height of 180 mm. The optional cup sensor detects whether a drinking vessel is placed under the product spout. If there is no cup under the spout, the products and the rinsing process are locked. In addition to individual preparation, the double spout also enables the simultaneous preparation of two specialty coffees, e.g., classic espresso or café crème. LED lighting for the dispensing area while the product is being dispensed. Marking for the coffee cup positioning in the drip grid.

**Milk system MS EC**

For the preparation of warm and cold milk and warm milk foam. The coffee machine is equipped with an integrated milk pump, which ensures optimal dosage of the quantity of milk. With the milk foamer, integrated in the coffee spout, the milk is foamed and heated up. In addition to the dispensing of single products, the double-cappuccinatore allows the simultaneously dispensing of 2 coffee products with milk such as cappuccino or latte macchiato. The time at which milk is dispensed (before, with or after dispensing coffee) can be programmed individually. The milk dispensing takes place together with the coffee in a single operation. The milk deficiency monitoring in the milk line blocks the purchase of dairy products in the absence of milk and enables the monitored milk supply from a customer own cooling unit. Empty message and product lock by lack of milk. A residual amount purchase of milk or milk-coffee products after the empty-message can be programmed in combination with SU12 or UT12 cooling unit at the connected coffee machine.

Optional cooling units – A600 with internal water tank:

* Franke KE200 EC - for 1 machine / 1 type of milk (Side unit, pedestal) Storage 1 x 4 l
* Franke SU05 EC - for 1 machine / 1 type of milk (Side unit) Storage 1 x 5 l
* Franke SU12 EC - for 1 machine / 1 type of milk (Side unit) Storage 1 x 12 l
* Franke SU12 EC Twin - for 2 machines / 1 type of milk (Side unit) Storage 1 x 12 l
* Franke SU12 EC Twin - for 2 machines / 2 media types\* (Side unit) Storage 2 x 4,5 l

Optional cooling units – A600 with mains water connection:

* Franke KE200 EC - for 1 machine / 1 type of milk (Side unit, pedestal) Storage 1 x 4 l
* Franke Chill&Cup EC - for 1 machine / 1 type of milk (Cup warmer integrated) Storage 1 x 5 l
* Franke SU05 EC - for 1 machine / 1 type of milk (Side unit) Storage 1 x 5 l
* Franke SU12 EC - for 1 machine / 1 type of milk (Side unit) Storage 1 x 12 l
* Franke SU12 EC Twin - for 2 machines / 1 type of milk (Side unit) Storage 1 x 12 l
* Franke SU12 EC Twin - for 2 machines / 2 media types\* (Side unit) Storage 2 x 4,5 l
* Franke UT05 EC - for 1 machine / 1 type of milk (Under table unit) Storage 1 x 5 l
* Franke UT12 EC - for 1 machine / 2 media types\* (Under table unit) Storage 2 x 4,5 l
* Franke UT12 EC Twin - for 2 machines / 1 type of milk (Under table unit) Storage 1 x 12 l
* Franke UT12 EC Twin - for 2 machines / 2 types of milk (Under table unit) Storage 2 x 4,5 l
* Franke UC09 EC - for 1 machine / 1 type of milk (Under machine unit) Storage 1 x 9 l

*\*Medium 1 is always milk*

**Customer settings**

The user can directly adjust the key parameters as for example the amount of coffee powder and water via the touch screen. Uploading own customer images and saving product settings via USB interface. Access authorization can be defined individually and secured with a PIN code. Programmable switch-on and switch-off times with a timer for maximum energy efficiency and minimum current consumption in stand-by mode.

**Accounting systems**

\*\* VIP interface with MDB interface for connecting to commercial accounting systems such as coin validator, coin changer or card-reading systems. Internal counter per product and total preparations. Up to four price lists can be programmed (1x cash, 3 x credit). SD card reader and optional IrDA interface (Infrared for a customer's own reader) for reading the counter values. Data export option in .csv format via USB interface. EVA-DTS standard for data transmission. Data backup in the VIP interface.

Optional payment casing:

|  |  |
| --- | --- |
| * Coin validator | Add-on unit (A line design)\*\* |
| * Coin changer | Add-on unit (A line design)\*\* |
| * Stored value and money card system\* | Add-on unit (A line design)\*\* |
| * smartSCHANK | Add-on unit (aluminum housing) |

\* Reading unit provided by the customer.

**Cleaning system EC EasyClean**

The integrated, automatic rinsing and cleaning system EC EasyClean for the entire preparation area makes caring for the device easy.

The special system cleaner (free of both DDAC and BAC) ensures maximum cleaning quality, optimum hygiene and uniform product quality.

Visual user guide and display of all manual cleaning steps on the touch screen, e. g. the dosing of cleaners for the cleaning process. With the SU05 EC and SU12 EC cooling units, the milk container is simply replaced by the supplied cleaning container and connected to the cooling unit via the quick-coupling system. The necessary hot water quantity is automatically added to the supplied cleaning container by the connected coffee machine once the cleaning program has started. Programmable starting time for rinsing of the milk line, even up into the cooling unit and for the foamer head, e. g. directly after each product preparation or, e. g. 3 minutes after the last preparation. LED lighting for the dispensing area while the cleaning process is running.

**Additional options**

* Autosteam Programmable temperature (Instead of steam and autosteam pro)
* Autosteam pro Programmable temperature and adjustable, automatic air admixture (Instead of Steam   
   and autosteam)
* Cup warmer Add-on unit with hated trays for around 120 coffee cups
* Coffee Caddy Transport carriage for mobile coffee machine insert
* Digital services (IoT) Internet access via smartphone, tablet, laptop, or PC to machine sales, counter values,  
   error messages, and product purchases at all machine locations. Evaluation option for  
   the current month. Option to monitor and set machine data via the Cloud, as well as  
   information regarding the machine status, cleaning intervals, and pending  
   maintenance schedules. This makes it possible to ensure a permanently high quality  
   standard in terms of product preparation and to avoid periods of downtime that are  
   associated with a loss of sales
* First Shot Intelligent brewing chamber pre-heating feature. Automatically activated depending on  
   the idling time of the coffee machine

**Manufacturer** Franke Kaffeemaschinen AG (ISO9001, ISO14001, ISO45001 certified)