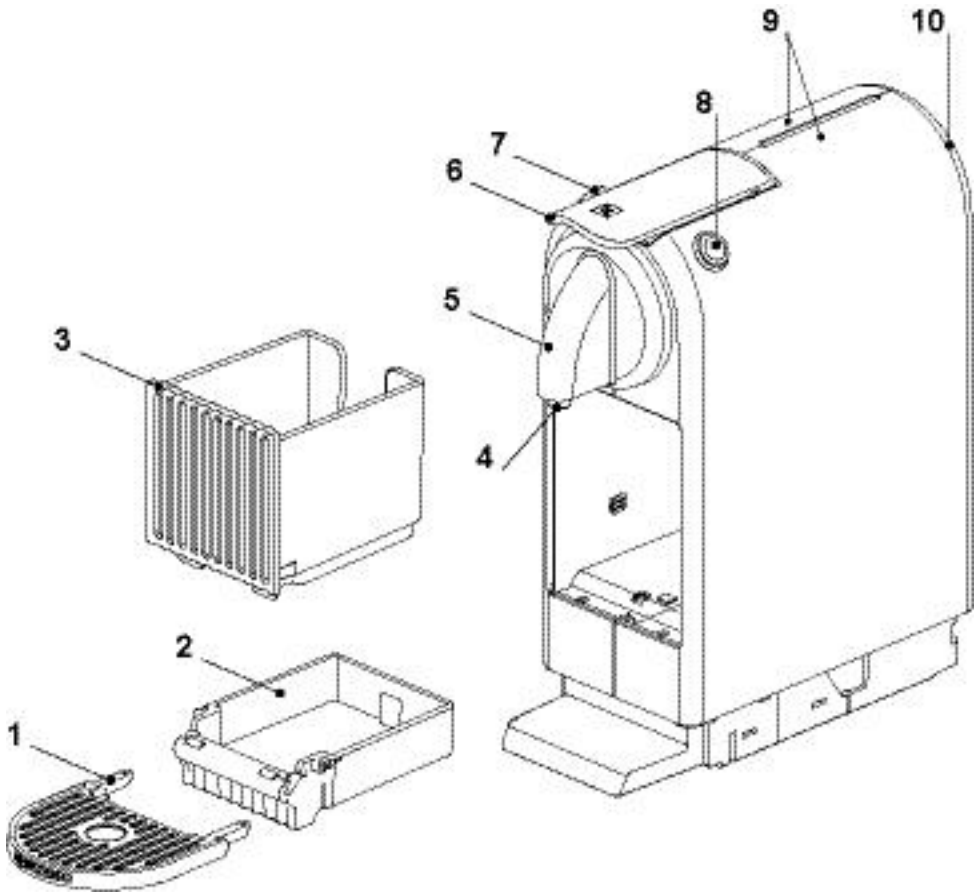
3 MAIN COMPONENTS

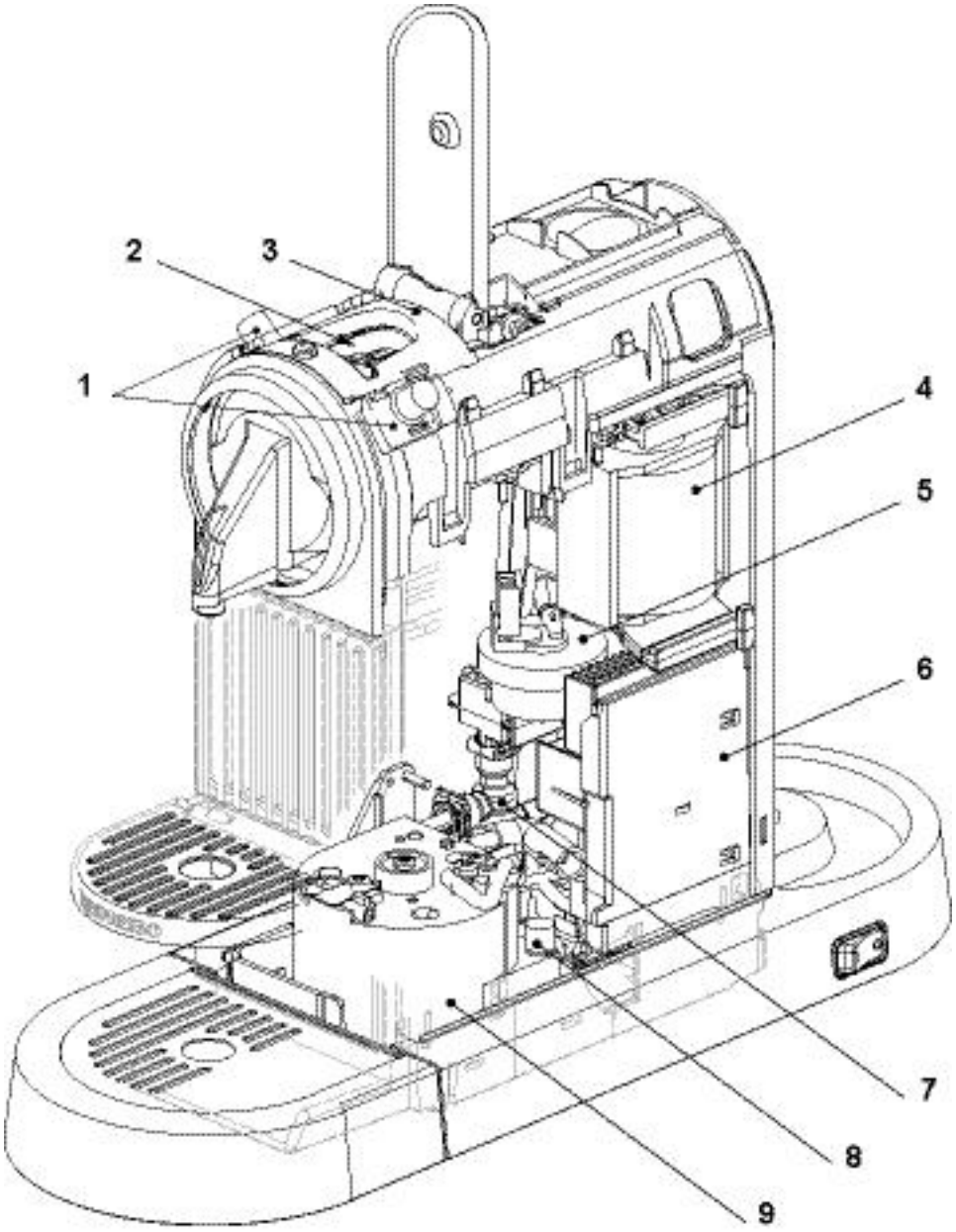
3.1 Overview - core unit, D-range



1) Cup support
2) Waste water container
3) Capsule container (used capsules)
4) Coffee nozzle
5) Steam cover
6) Closing handle
7) Button "small cup" (Espresso)
8) Button "large cup" (Lungo)
9) Side panels left/right
10) Rear cover

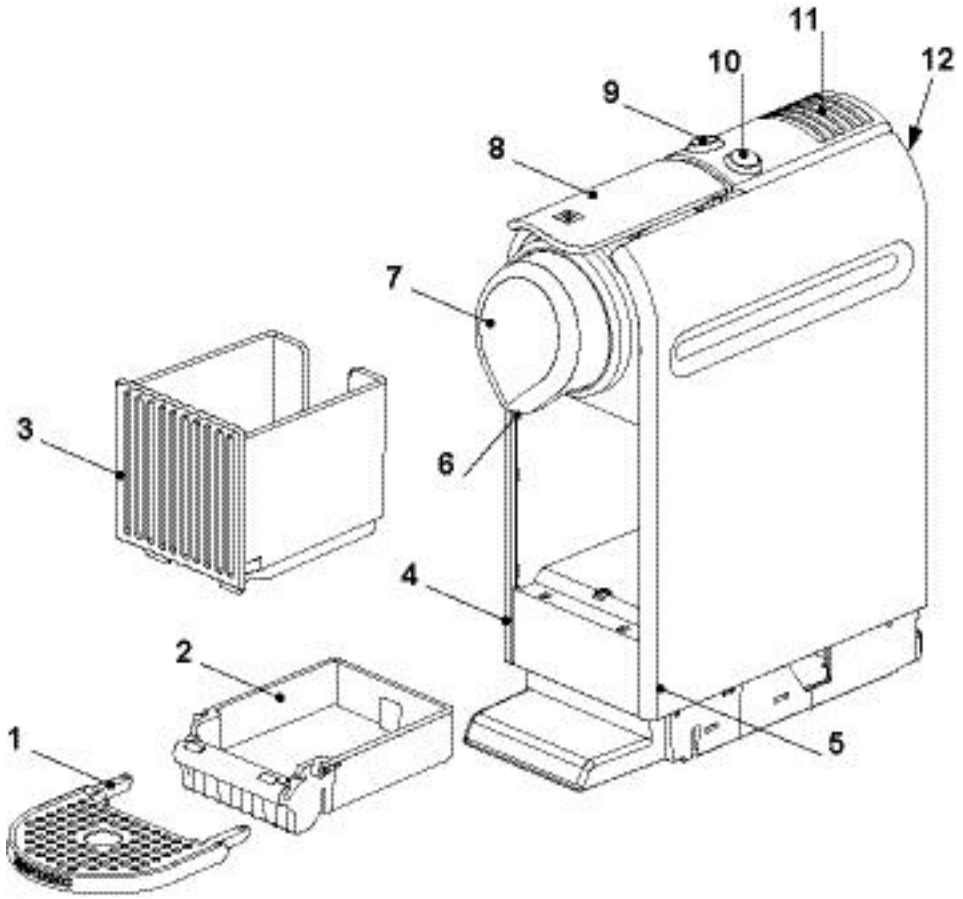
For platform components refer to model overview.

3.1.1 Interior view - core unit, D-range



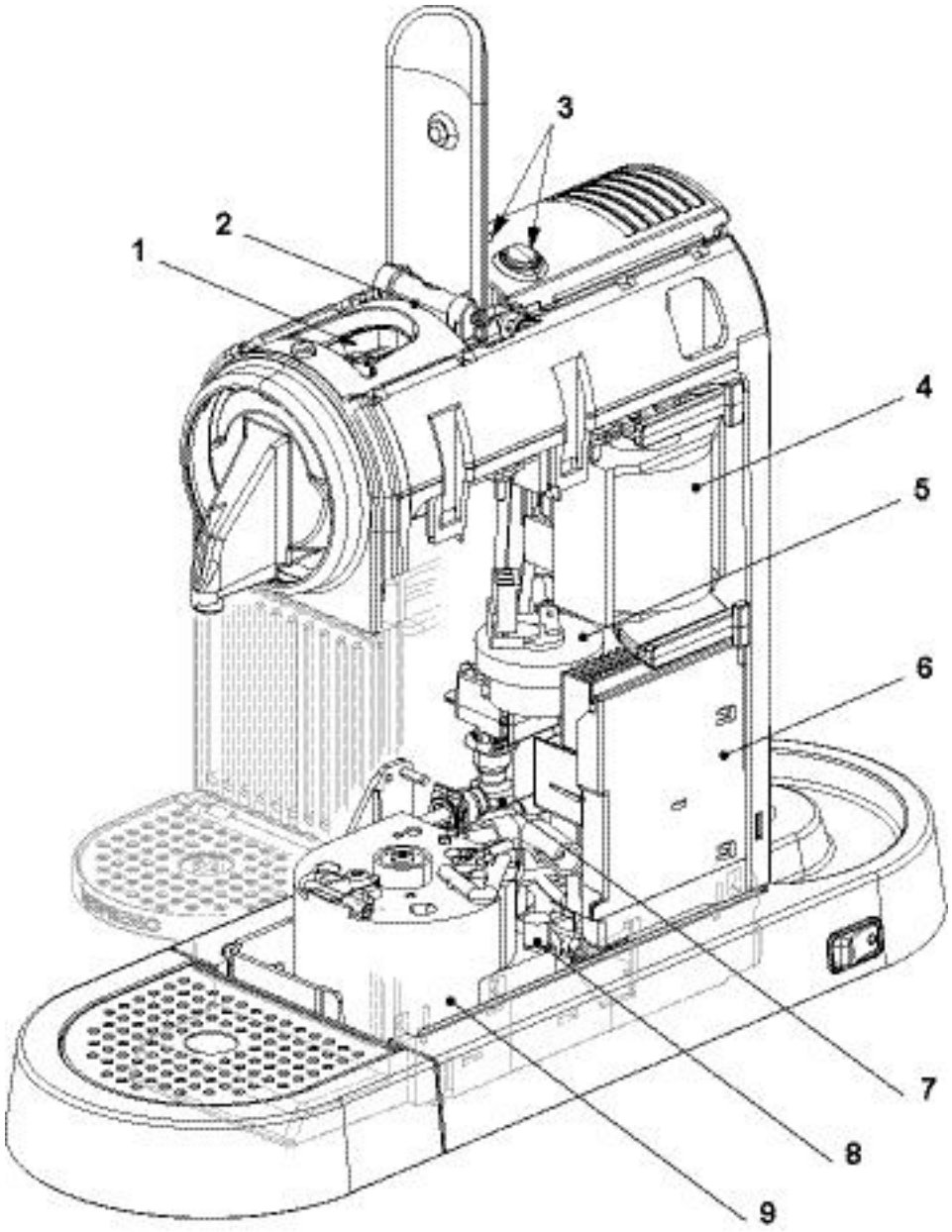
1) Button prints
2) Capsule bay
3) Brewing unit (TMBU, Tolkien Mini Brewing Unit)
4) Pump (Invensys CP4/SP)
5) Flowmeter (FHKSC12)
6) Electronic control board (with protective covers)
7) Self priming device (APD)
8) NTC temperature sensor
9) Thermoblock (EF 2003)

3.2 Overview - core unit, C-range



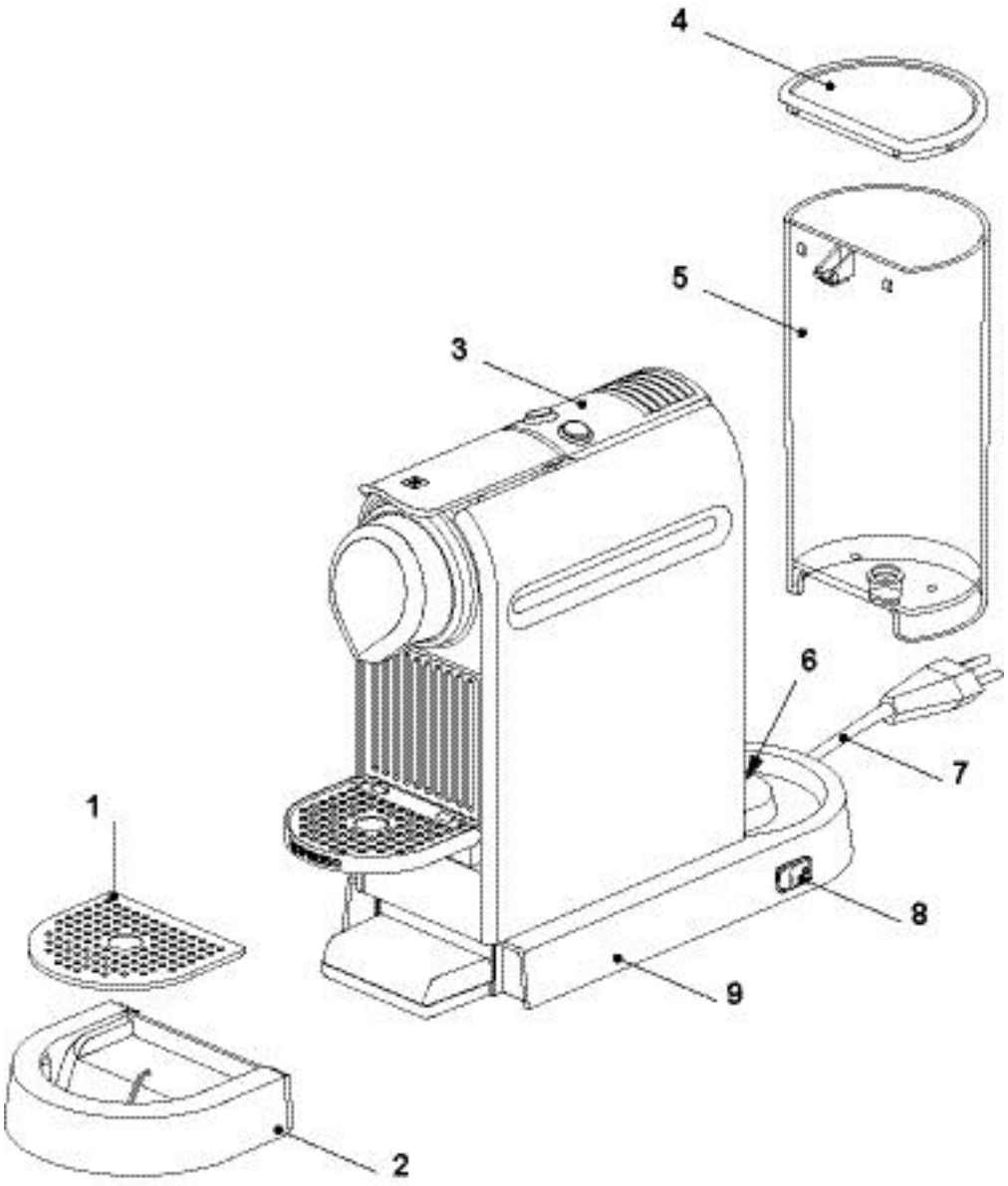
1) Cup support
2) Waste water container
3) Capsule container (used capsules)
4) Side panel, left
5) Side panel, right
6) Coffee nozzle
7) Steam cover
8) Closing handle
9) Button "small cup" (Espresso)
10) Button "large cup" (Lungo)
11) Top cover
12) Rear cover

3.2.1 Interior view - core unit, C-range



1) Capsule bay
2) Brewing unit (TMBU, Tolkien Mini Brewing Unit)
3) Button prints (under top cover)
4) Pump (Invensys CP4/SP)
5) Flowmeter (FHKSC12)
6) Electronic control board (with protective covers)
7) Self priming device (APD)
8) NTC temperature sensor
9) Thermoblock (EF 2003)

3.3 Overview - model Citiz



This model is pictured with a C-range core unit.

1) Drip grid
2) Drip tray
3) Core unit (e.g. C-range)
4) Water tank cover
5) Water tank
6) Water tank connector
7) Power cord
8) ON/OFF switch (mains switch)
9) Platform

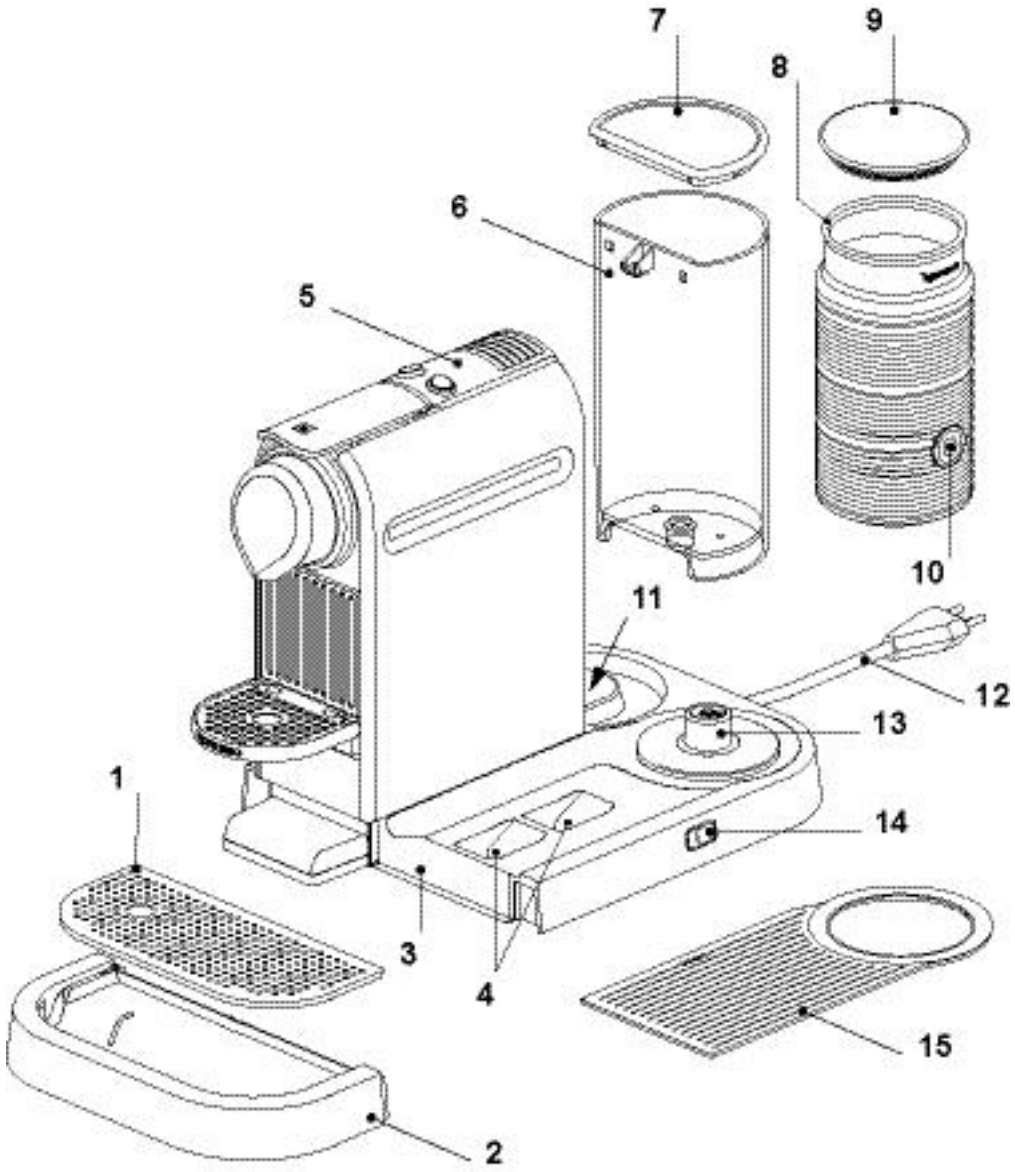
This is the basic model with the smallest platform (9).

The drip grid (1)
- exists in 2 versions,
- matches with the cup holder of the core unit version (e.g. circular recesses).

The core units of model Citiz and Citiz & milk are not compatible due to different electronic control boards.

3.4 Overview - model Citiz & milk

This model is pictured with a C-range core unit.



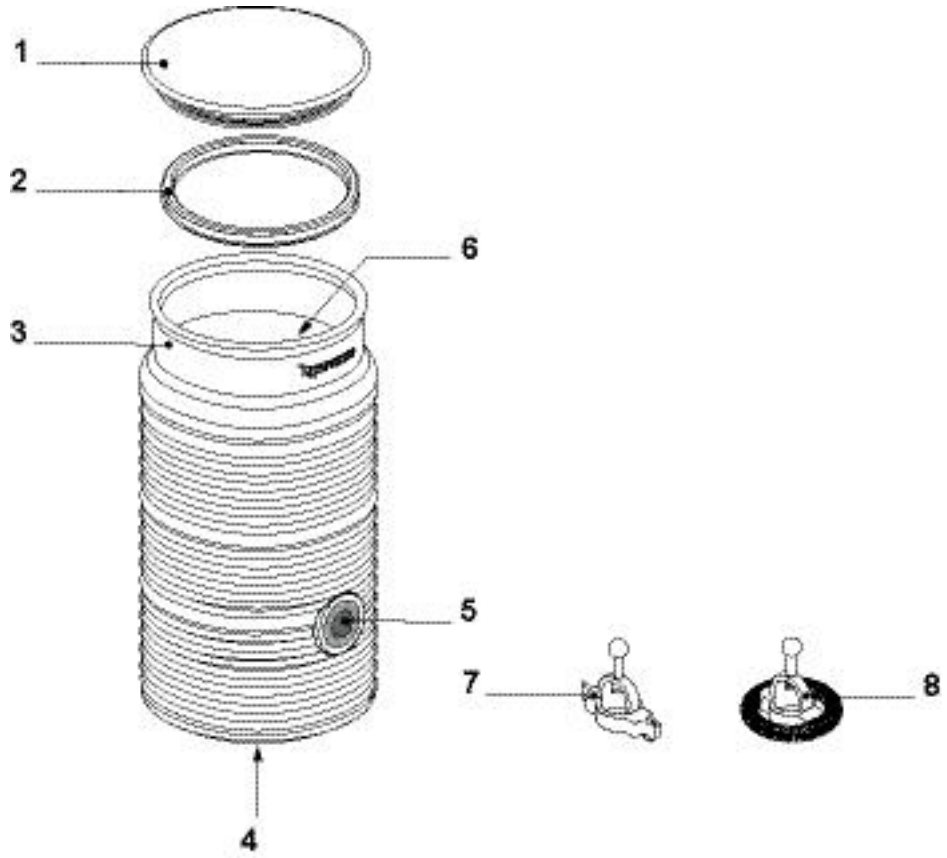
1) Drip grid
2) Drip tray
3) Platform
4) Storage places for whisks
5) Core unit (e.g. C-range)
6) Water tank
7) Water tank cover
8) Milk frother (Aero 3)
9) Lid
10) Milk frother start button
11) Water tank connector
12) Power cord
13) Milk frother connector
14) ON/OFF switch (mains switch)
15) Cup storage (removable)

The core units of model Citiz and Citiz & milk are not compatible due to different electronic control boards.

The platform of this model is equipped with a milk frother (8).

The drip grid (1)
- exists in 2 versions,
- matches with the cup holder of the core unit version (e.g. circular recesses).

3.4.1 Overview - milk frother AERO3



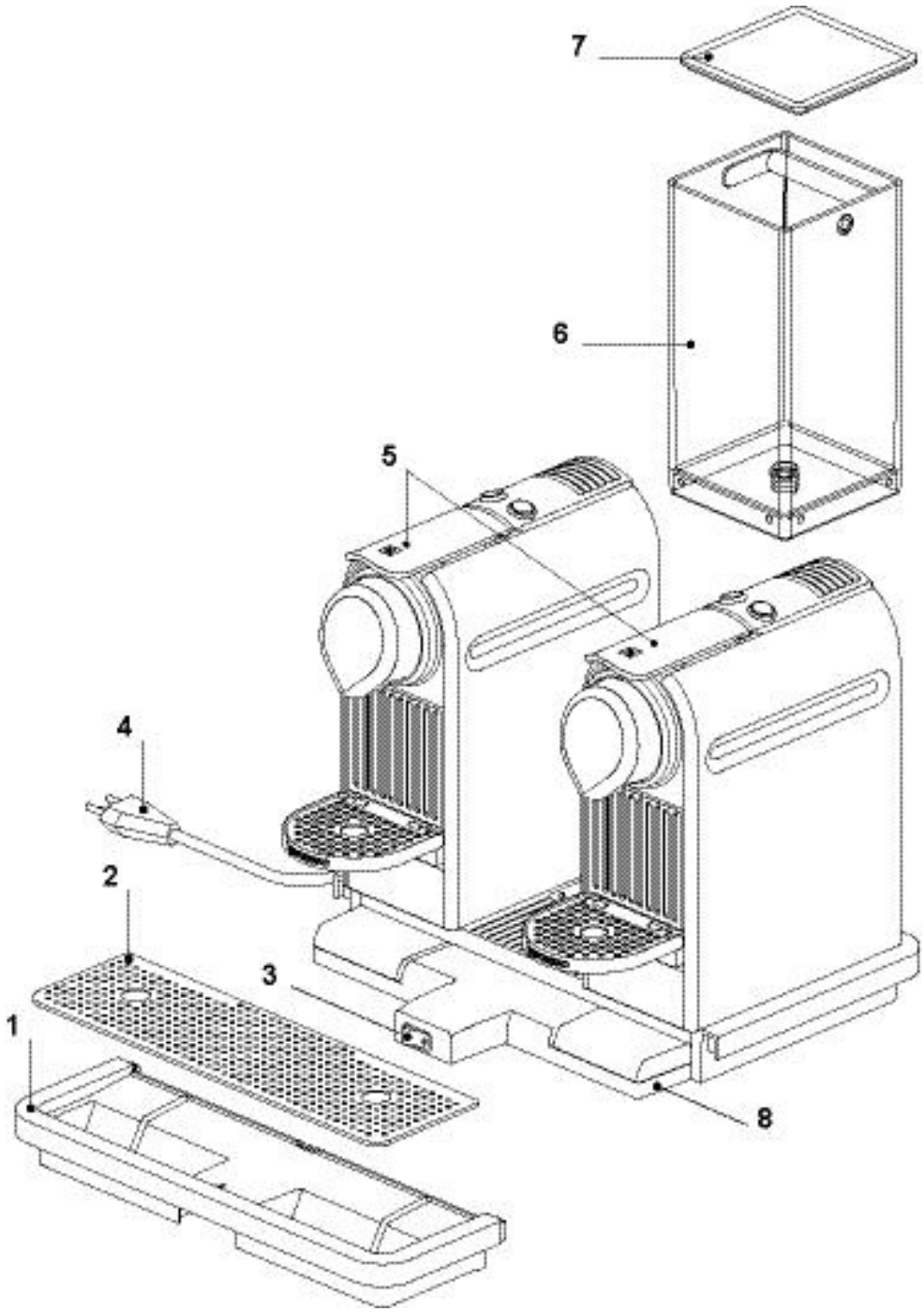
1) Lid
2) Seal
3) Jug
4) Power plug
5) Start button (red/blue backlighted)
6) Indication of 2 max. milk levels (120 ml/240 ml)
7) Mixer for hot milk
8) Spring whisk for milk foam

The inside of the jug (3)
- has level marks (6),
- is surface-coated for easy cleaning.

The milk frother AERO3 is part of the standard equipment of the model Citiz & milk.

3.5 Overview - model Citiz & Co

This model is pictured with a C-range core unit.



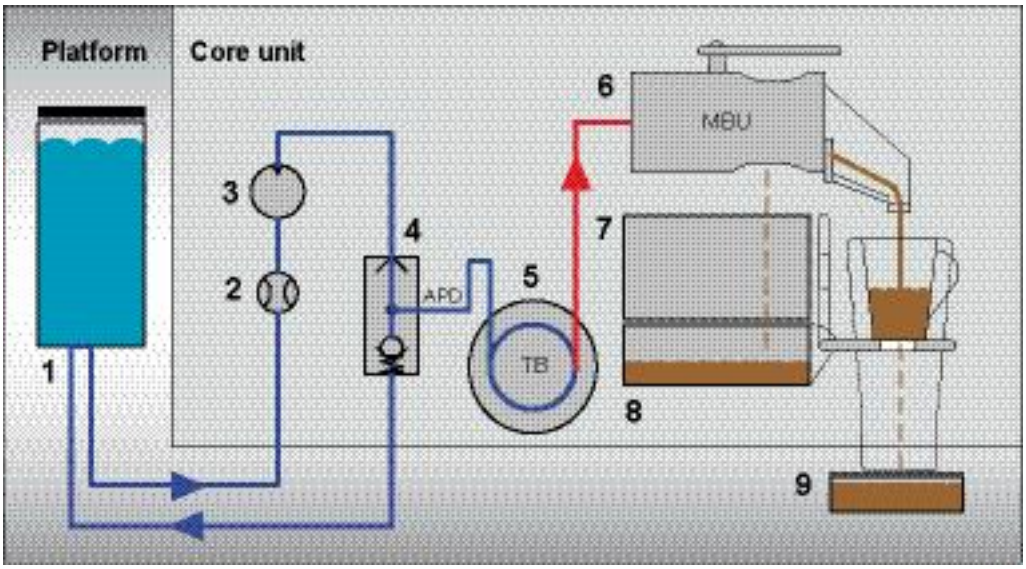
1) Drip tray
2) Drip grid
3) ON/OFF switch (mains switch)
4) Power cord
5) Core units (e.g. 2 x C-range)
6) Water tank
7) Water tank cover
8) Platform

The drip grid (1)

- exists in 2 versions,
- matches with the cup holder of the core unit version (e.g. circular recesses).

3.6 Fluid System

3.6.1 Water circuit diagram of core unit (all Citiz versions)



1) Water tank
2) Flow meter
3) Pump
4) Self priming device
5) Thermoblock
6) Mini brewing unit (MBU)
7) Capsule container
8) Waste water container
9) Drip tray

Legend:

Fresh cold water

Fresh hot water

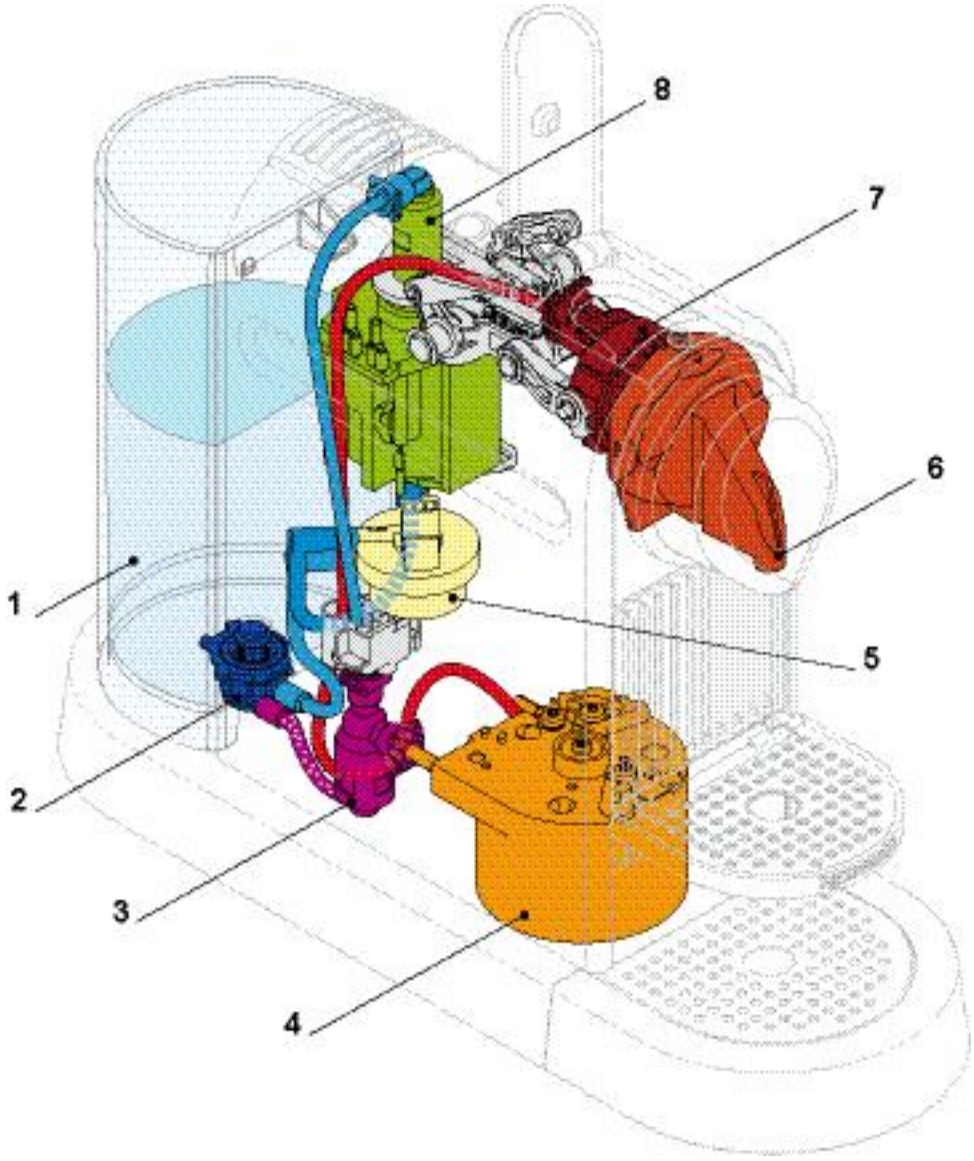
Coffee

Waste/drip water

The self priming device (4)

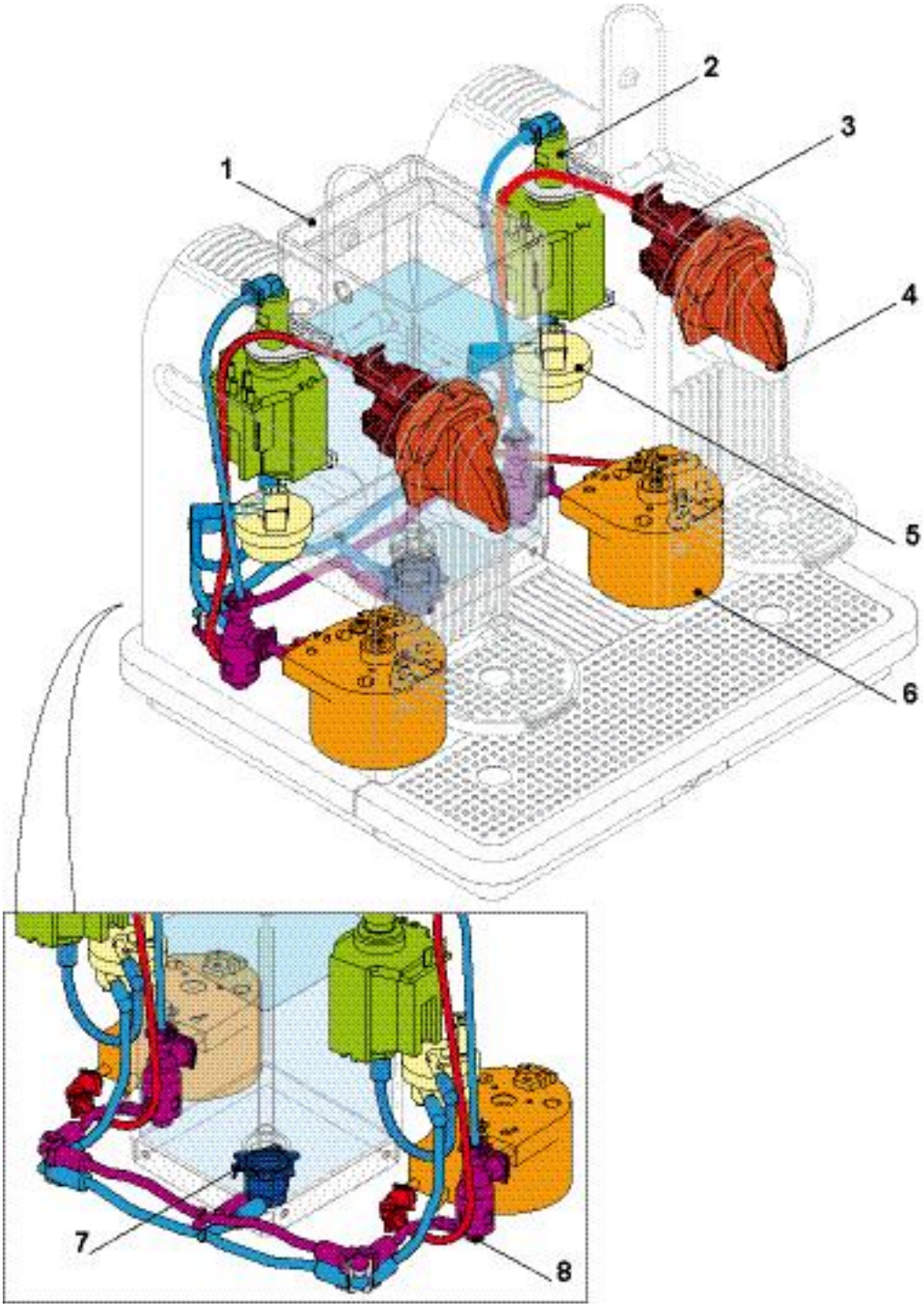
- allows the pump to suck water when it is filled with air (new machine, empty water tank etc.)
- removes air bubbles from the water circuit
- feeds a water/air mix back into the water tank.

3.6.2 Water circuit of models Citiz/Citiz & milk



1) Water tank
2) Water tank connector
3) Self priming device
4) Thermoblock
5) Flow meter
6) Coffee outlet
7) Brewing unit
8) Pump

3.6.3 Water circuit of model Citiz & Co



1) Water tank
2) Pump
3) Brewing unit
4) Coffee outlet
5) Flow meter
6) Thermoblock
7) Water tank connector
8) Self priming device

4 TECHNICAL DATA

4.1 Rating plates

The type plate can be found at the bottom of the coffee machine's platform.

This overview shows examples of various brands and is subject to alterations.

4.1.1 Examples of brand specific rating plates

Nespresso, EU-version

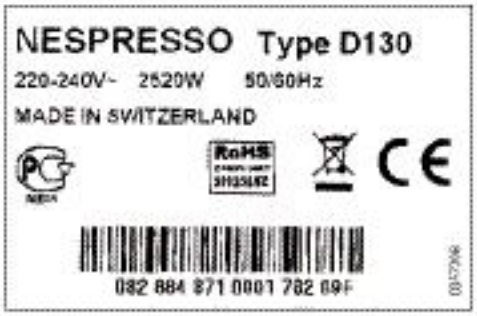
EF484 Citiz C110 red

EF483 Citiz D110 black

EF486 Citiz & milk C120 red

EF485 Citiz & milk D120 black

EF488 Citiz & Co C130 red



EF487 Citiz & Co D130 black

DeLonghi, EU-version

EF483 Citiz D110 Limousine black/DeLonghi EN165.B

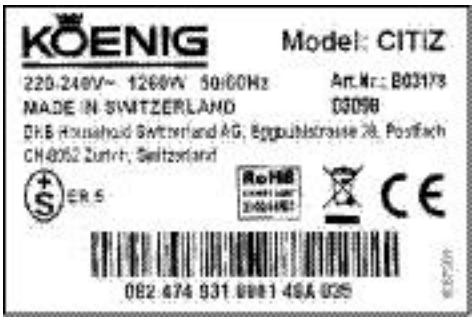
EF483 Citiz D110 60's White/DeLonghi EN165.CW

EF485 Citiz & milk D120 Limousine black/DeLonghi EN265.BAE

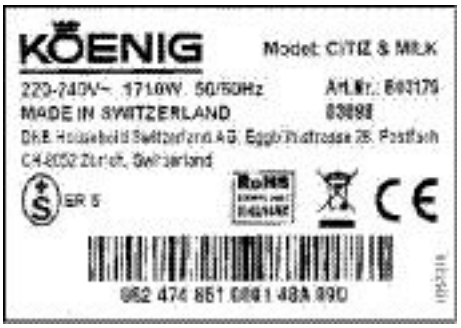
EF487 Citiz & Co. D130 Limousine black/DeLonghi EN325.B

Koenig, CH-version

EF483 Citiz D110 Limousine black/Koenig Citiz



EF483 Citiz D110 60's White/Koenig Citiz



EF485 Citiz & milk D120 Limousine black/Koenig Citiz & milk

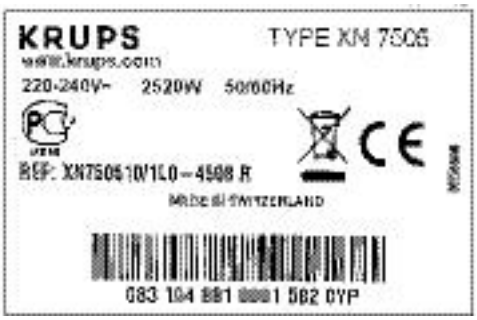
EF487 Citiz & Co. D130 Limousine black/Koenig Citiz & Co.

Krups, EU-version

EF484 CitiZ XN700510 grey

EF484 CitiZ XN700610 red

EF486 CitiZ & milk XN710610 red



EF488 CitiZ & Co XN750510 grey

Magimix, EU-version

EF483 Citiz M190 - Ref 11290 black

EF483 Citiz M190 - Ref 11291 cream

EF485 Citiz M190 Milk - Ref 11300 black

EF487 Citiz M190 Duo - Ref 11305 black

Turmix, AT-version

EF484 Citiz C110 fire engine red/ Turmix TX 170 - Citiz

EF484 Citiz C110 steel grey/Turmix TX 170 - Citiz

EF486 Citiz & milk C120 fire engine red/
Turmix TX 270 - Citiz & milk

EF488 Citiz & Co. C130 steel grey/
Turmix TX 370 - Citiz & Co.

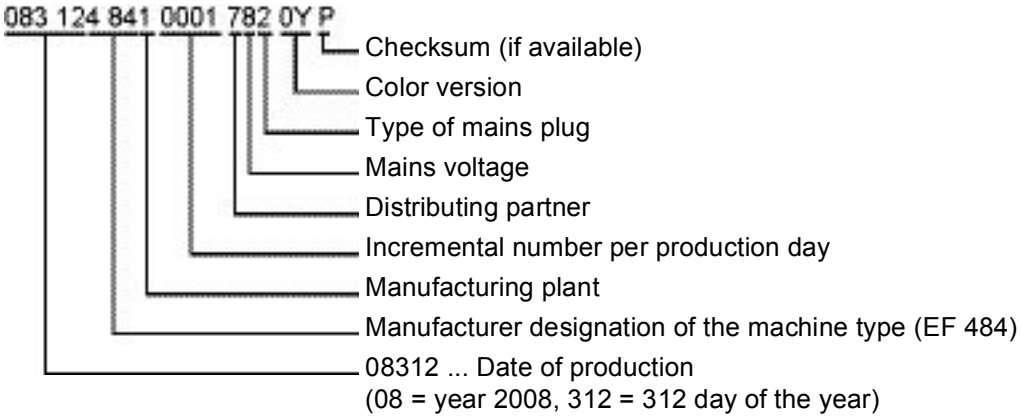
4.1.2 Rating plate details

1) Brand name
2) Voltage and power rating
3) Place of manufacture
4) National approval sign of Russia (GOST R)
5) National approval sign of Germany (VDE)
6) Barcode
7) Serial number
8) Machine type
9) Special disposal icon (do not dispose with ordinary waste)
10) Sign of conformity (CE)
11) Conform with RoHS guidelines (lead free solder, etc.)
12) Article number of the rating plate

Decoding the alphanumeric serial number

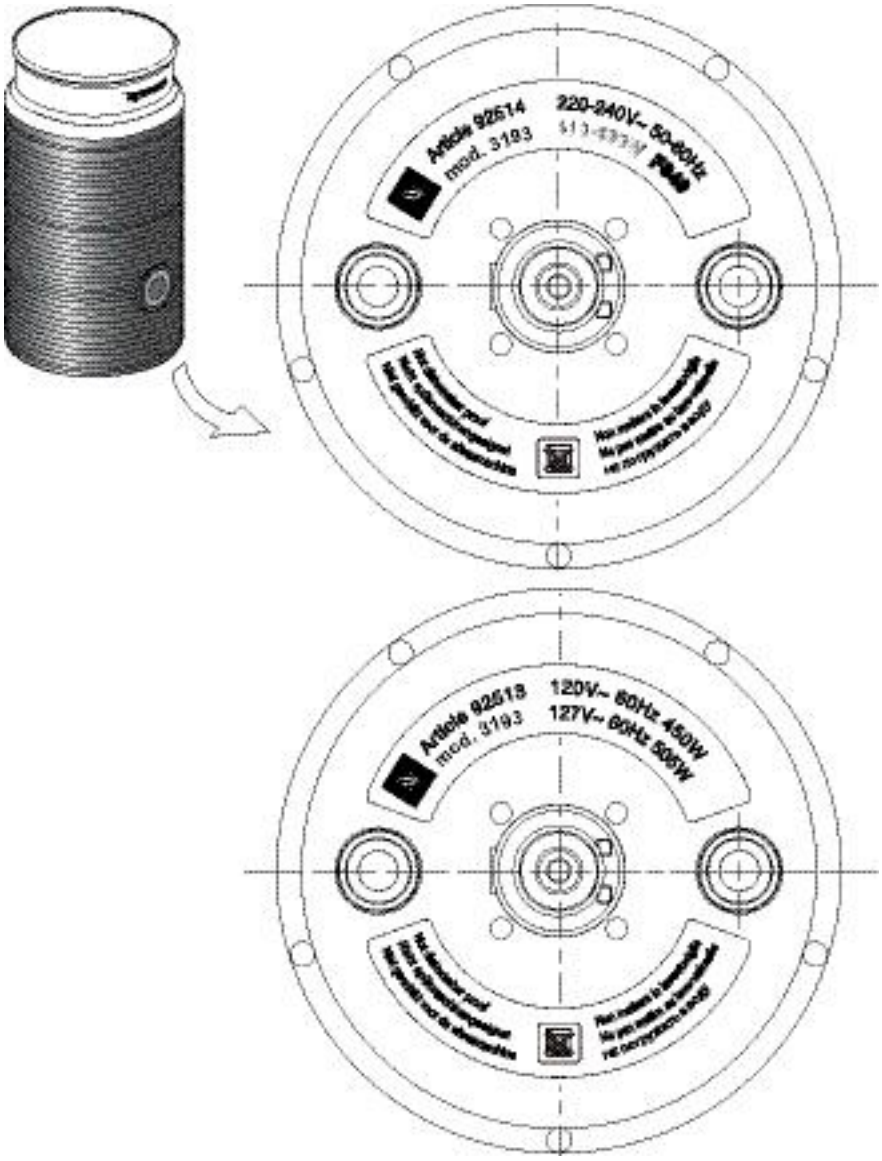
By decoding the date of production and machine type, the coffee machine can be identified exactly.

Example:



4.1.3 Rating plate of milk frother (model Citiz & milk)

Note he mains voltage ranges of the different models.



4.2 Summary of technical data

4.2.1 Technical data of coffee machines

Technical data are valid for all Citiz models unless explicitly stated otherwise.

Mains voltage ranges

Mains voltage for Citiz
- Europe, RU, AU, CN, KR, SG, HK, ME, ZA, IL, BR, AR..... 220-240 V / 50-60 Hz
- USA, Canada, BR, MX ..... 120-127 V / 50-60 Hz
- Japan ..... 100 V / 50-60 Hz*

Mains voltage for Citiz & milk
- Europe, RU, AU, CN, KR, SG, HK, ME, ZA, IL, BR, AR..... 220-240 V / 50-60 Hz
- USA, Canada, BR, MX ..... 120-127 V / 50-60 Hz

Mains voltage for Citiz & Co
- Europe, RU, AU, ME, IL..... 220-240 V / 50-60 Hz

Approvals

Approvals for Citiz ..... CE, UL "for USA and Canada", PSE, Gost R, Ctick, CCC, KTL, SPRING, SASO, SABS, ISI, IRAM, NOM

Approvals for Citiz & milk ..... CE, UL "for USA and Canada", Gost R, Ctick, CCC, KTL, SPRING, SASO, SABS, ISI, IRAM, NOM

Approvals for Citiz & Co ..... CE, Gost R, Ctick, SASO, ISI

Power ratings of coffee machine main components
(for all voltages and frequencies)

Thermoblock .....1200 W*

*model Citiz & Co, Australia: 1080 W

Pump..... 55/60 W

Performance data of core unit

Heating up
- Citiz..... approx. 7.6 Wh
- Citiz & milk ..... approx. 7.6 Wh
- Citiz & Co..... approx. 14.9 Wh

1 small cup (40 ml*)
- Citiz..... approx. 4.3 Wh
- Citiz & milk ..... approx. 4.3 Wh
- Citiz & Co (both heads)..... approx. 7.6 Wh

* Default setting

1 large cup (110 ml*)

- Citiz ..... approx. 8.7 Wh
- Citiz & milk ..... approx. 8.7 Wh
- Citiz & Co (both heads) ..... approx. 14.8 Wh

* Default setting

Standby operation (in 1 hour)

- Citiz ..... approx. 0.7 Wh
- Citiz & milk ..... approx. 0.7 Wh
- Citiz & Co ..... approx. 2.2 Wh

Pump

Pump pressure

- Max. permissible ..... 17.5 bar ± 1.5 bar
- During coffee preparation (depending on the type of coffee) ..... 9-16 bar

Flow performance ..... 120-240 ml/min. at 12 bar

Capacities

Advised water tank capacities to avoid spilling.

Water tank

- Citiz ..... 1.0 l
- Citiz & milk ..... 1.0 l
- Citiz & Co ..... 1.4 l

Drip tray

- Citiz ..... 100 ml
- Citiz & milk ..... 180 ml
- Citiz & Co ..... 250 ml

Capsule container

- Citiz, Citiz & milk ..... 9-11 capsules
- Citiz & Co ..... 2x (9-12) capsules

Temperatures

Operating temperature ..... + 5 °C up to + 45 °C

Storage temperature ..... - 25 °C up to + 60 °C

Safety temperature (thermal cut-off) ..... 167 °C

Coffee temperature at outlet ..... 86 °C ± 3 °C

Various data

Noise during brewing cycle ..... max. 60 dB(A)*

* model Citiz & milk: measured without milk frother
* model Citiz & Co: measured with only one core unit running

Preheating time ..... approx. 60 sec

Cable length ..... approx. 1.2m

4.2.2 Technical data of milk frother (model Citiz & milk)

Mains voltage

Europe ..... 220-240 V / 50-60 Hz
USA/Canada ..... 120-127 V / 50-60 Hz

The milk frother
- is available in 2 different models, depending on above mains voltage ranges,
- has to match the mains voltage range of the associated coffee machine.

If replacing a defect milk frother, check mains voltage range.

Power rating (depending on mains voltage)

220-240 V, 50-60 Hz ..... 410-490 W
110-127 V, 50-60 Hz ..... 380-505 W
Standby operation ..... < 1 W

Power consumption

Preparation	Voltage / Unit	120 V	127 V	220 V	230 V	240 V
Froth milk: hot (starting with cold device)						
Measured power	W	452	506	407	445	485
Intensity	A	3.77	3.98	1.85	1.93	2.02
Consumption for 2 test preparations	Wh	19	19	19	19	19
Froth milk: cold (starting with cold device)						
Measured power	W	1.98	2.24	2.72	2.80	3.01
Intensity of current (cos. = 0.58)	A	40.93	44	30.82	27.51	25.97
Consumption for 2 test preparations	Wh	0.08	0.09	0.11	0.12	0.13
Hot milk (starting with cold device)						
Measured power	W	452	506	407	445	485
Intensity of current	A	3.77	3.98	1.85	1.93	2.02
Consumption for 2 test preparations	Wh	37	37	37	37	37

Capacity

Hot milk ..... max. 240 ml
Hot/cold milk for milk froth ..... max. 130 ml

Performance data

Whisk speed ..... 2’000-2’700 rpm

Preparation times
(with full, semi-skimmed or skimmed milk at 8 °-10 °C fridge temperature)

Hot milk froth (120 ml) .....50-80 sec

Cold milk froth (120 ml) .....60-80 sec

Hot milk (240 ml) .....120-180 sec

Temperature

Hot milk ..... + 60 °C to + 70 °C

Foam milk..... + 60 °C to + 70 °C

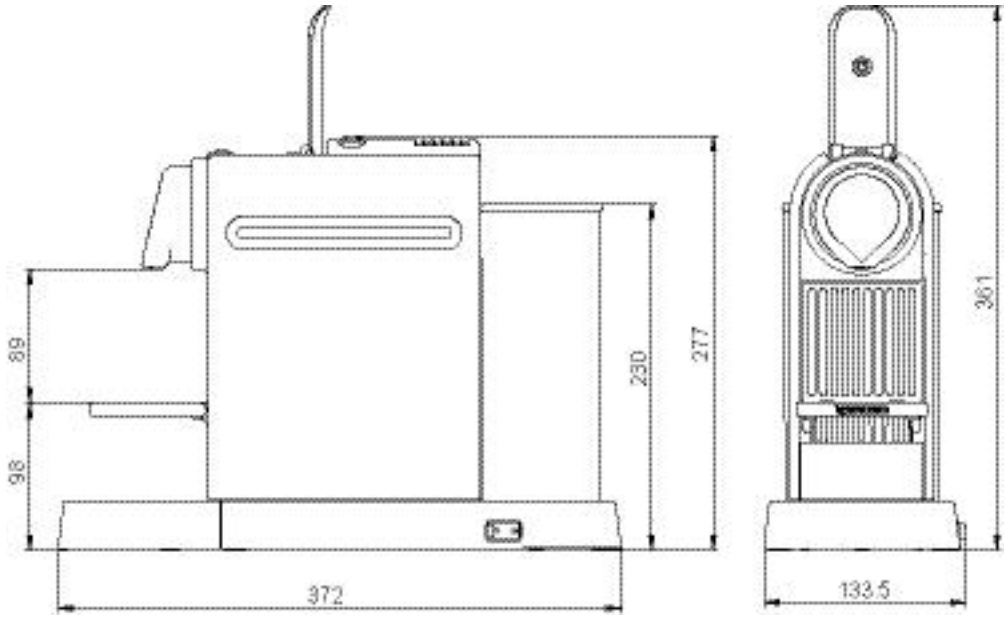
Various data

Noise emission ..... max. 55 dB(A)

4.2.3 Dimensions and weight - model Citiz

The overall dimensions are the same for both core unit versions (C- and D-range).

Dimensions in mm



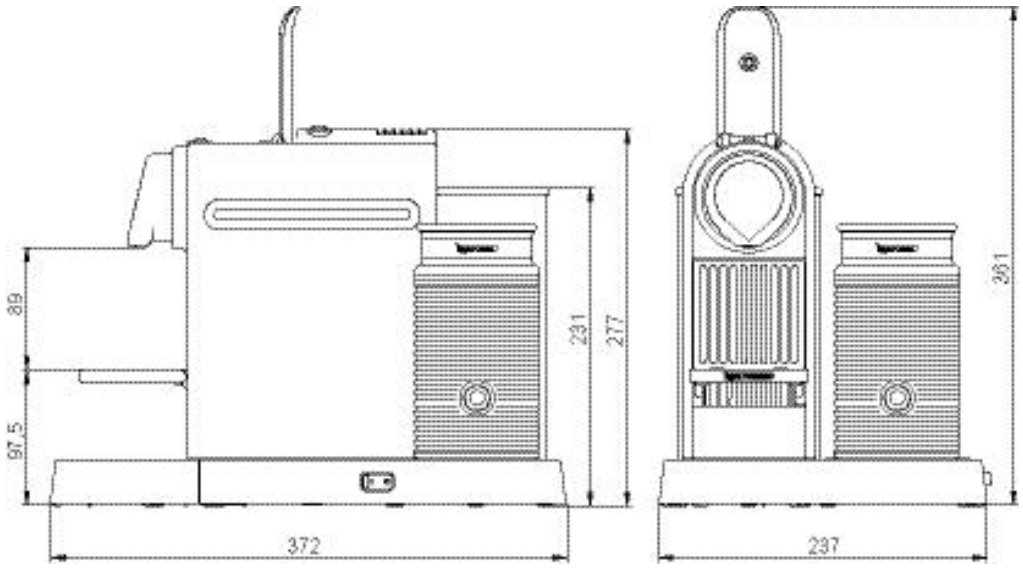
Dimensions (width x height x length)..... 130 x 277 x 372 mm

Cup support down ..... 85-90 mm, for espresso and lungo cups/glasses

Cup support up.....150-155 mm, for macchiato glasses

Weight (without water).....approx. 3.4 kg

4.2.4 Dimensions and weight - model Citiz & milk

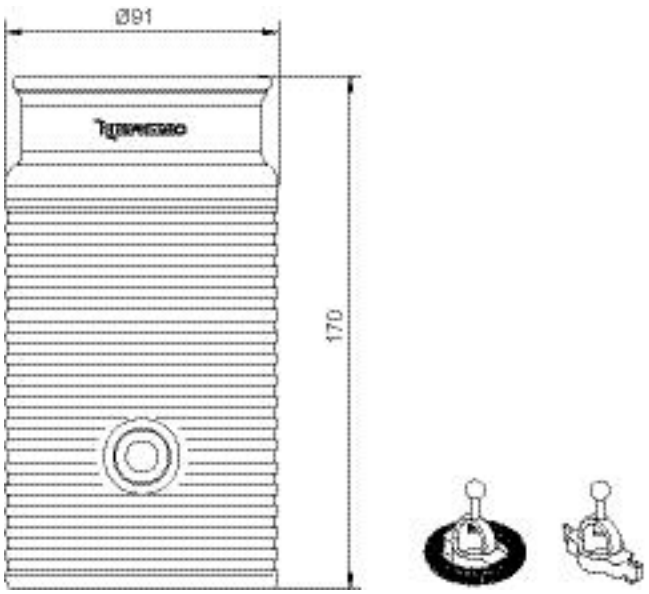


The overall dimensions are the same for both core unit versions (C- and D-range).

Dimensions in mm

Dimensions (width x height x length) ..... 237 x 277 x 372 mm
Weight (without water, milk frother included) .....approx. 4.6 kg

4.2.5 Dimensions and weight - milk frother

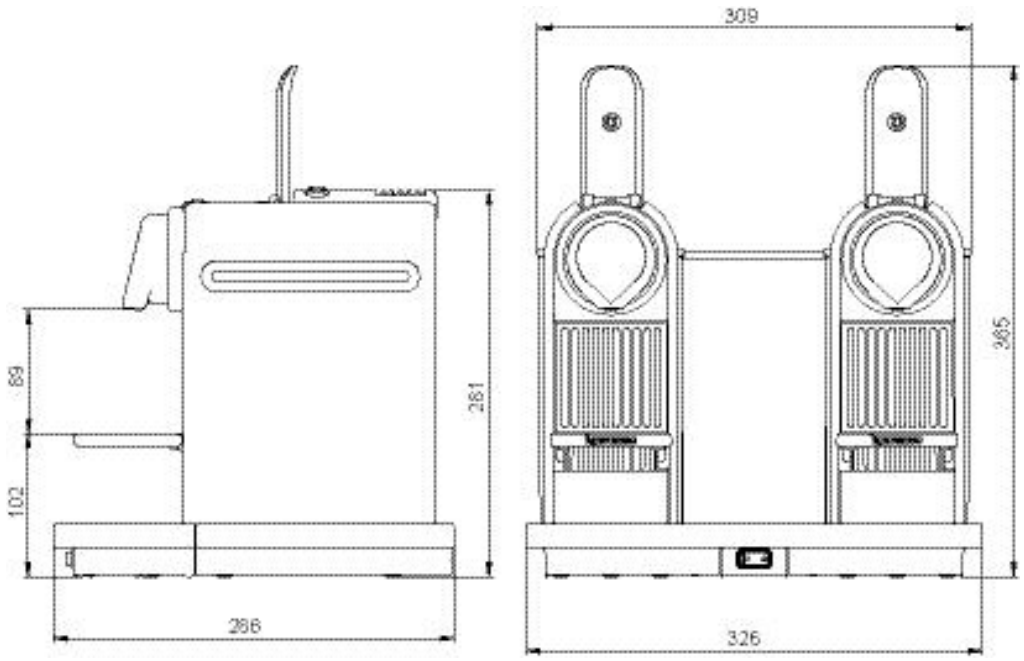


Dimensions of jug cpl. (diameter x height)..... 91 x 170 mm
Whisk for foam (diameter x height).....33 x 32 mm
Mixer for hot milk..... 15 x 34 x 32 mm
Weight (with whisk and mixer) .....0.7 kg

4.2.6 Dimensions and weight - model Citiz & Co

The overall dimensions are the same for both core unit versions (C- and D-range).

Dimensions in mm.



Dimensions (width x height x length)..... 326 x 281 x 286 mm
Weight (without water).....approx. 7 kg