

Latte Art Factory Installation manual

LAF Classic, LAF Bar
January 2023



1. Machine specification and installation requirements

Dimensions, mm		LAF Essential	LAF Bar	
		Width 220 Height 660 Depth 690	Undercounter unit: Width 220 Height 570 Depth 560	Countertop unit Width 210 Height 560 Depth 315
Weight, kg		27,1	23,7	8,1
Power supply (2 sockets needed)	Voltage	230V; 50/60Hz		
	Power	LAF Essential / Bar: 2350 W, 10 A	LAF Pro / Bar Pro: 3600 W, 16A	
	Fridge	60 W 0,5 A		
Water supply		Water treatment: Drinking water without undissolved solids, mechanical filtration of $\leq 10 \mu\text{m}$; carbonate hardness $\leq 7^\circ\text{dKH}$ (German degrees) Connection: 3/8 Female connector on customer's side Pressure $> 0.1 \text{ MPa} < 1 \text{ MPa}$ (1-10 Bar)		
Drain		Drainpipe placed below counter level and able to fit 1x 6mm drain tube		
Counterspace		Horizontal and leveled, water-resistant, sturdy enough to handle machine weight. Leave at least 20cm free space behind machine for proper ventilation and connections cutout. Cutout recommendations on page 3		
Environment		Humidity $\leq 80\%$ with no condensation Temperature $+5$ to $+35 \text{ }^\circ\text{C}$. Make sure to drain water from the system if freezing		
Internet		LAN cable connected to internet needed to enable machine status / counters monitoring and remote service. You can order a 4G modem preinstalled from Frank Buna		

2. Unboxing

On receiving, please verify that the package arrived undamaged. If not, report to logistics company and Frank Buna team. Do not try to start a damaged unit

Accessories list

Below are the items delivered with the machines

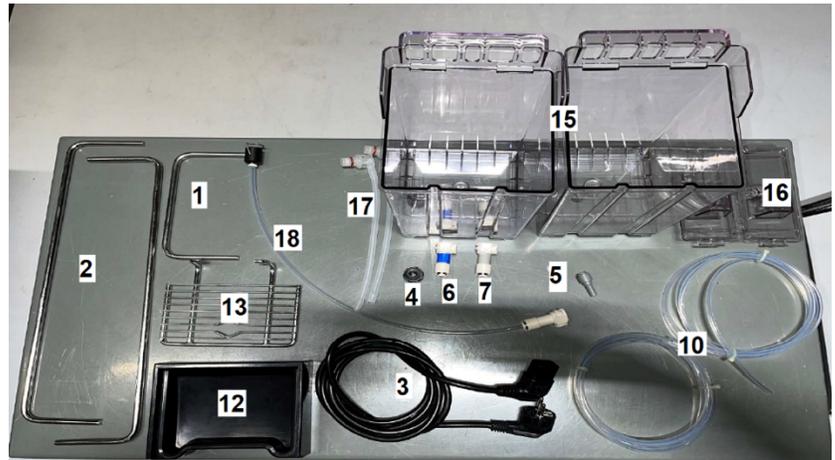
No.	Code	Product Item	Quantity	
			LAF Essential	LAF Bar
1	8615505013	Top rail Back	1	-
2	8615505012	Top rail Side	2	-
3	8612900281	Power cable Schuko L=2m*	2	2
4	76PM010813E	Adapter 3/8" Male BSP x 8mm John Guest	1	1
5	PM060806E	Reducer 8-6mm John Guest	1	1
6	8615509015.B	Blue quick connector 6mm	1	1
7	8615509015.G	Grey quick connector 6mm	1	-
8	8615509015	Red quick connector 6mm	-	1
9	8615509014	White quick connector 4mm	-	1
10	8612901969	Teflon tube d=6mm, l=2m	2	2
11	8612911630	2 tubes set (4mm + 6mm) wrapped in teflon	-	1
12	8615503549	Drip tray plastic	1	-
13	8613005662	Cup holder stainless	1	-
14	8000000303	Jug stand Bar	-	1
15	8615503640	4L milk / cleaning container	2	2
16	8615503602	Large container lid AB	1	1
17	8615502910	Silicon tube assembly for milk container	2	2
18	8000000141	Cleaning adapter	1	-
19	8000000341	Cleaning adapter Bar	-	1

* Pro has 1 x 8612900281 C13 power cable + 1 x 8613000701 2,5M 16A C19 cable

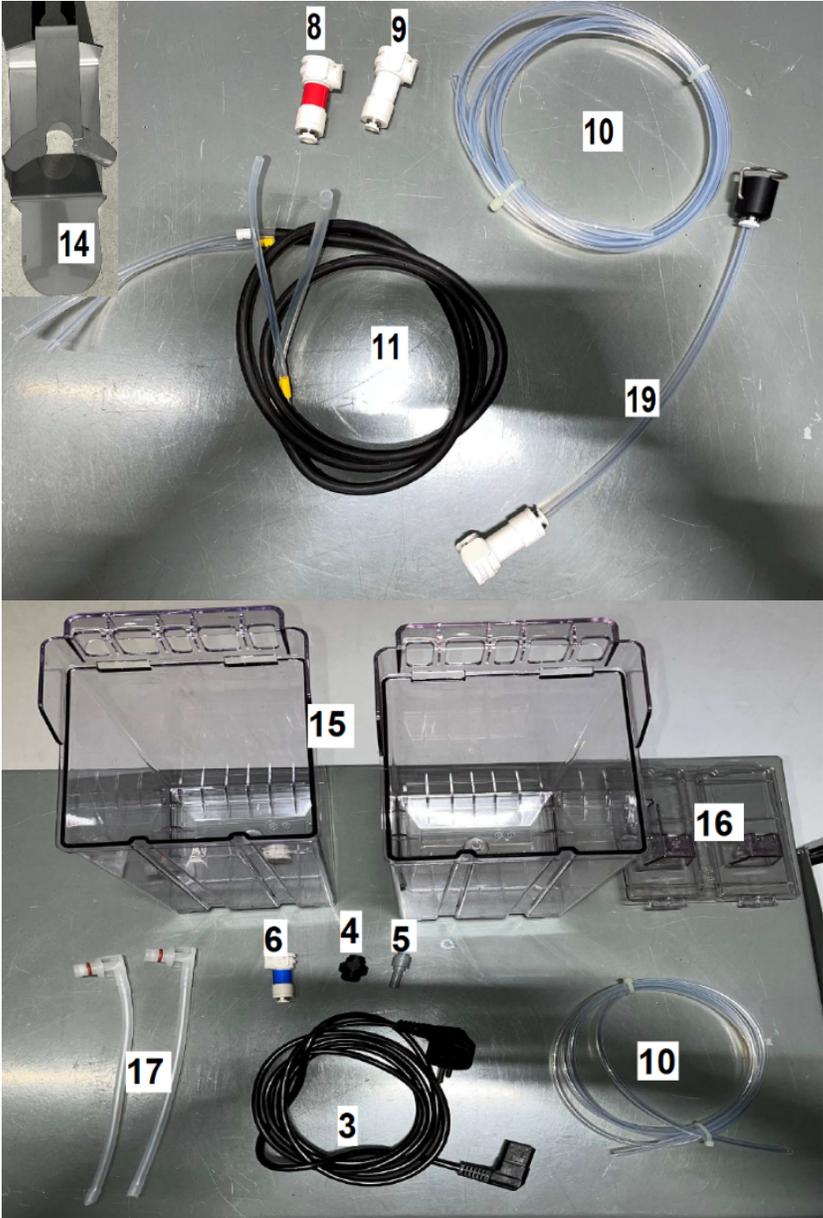
Additional accessories available to order

Code	Name
8615503650	Milk container 1.7L small
8615503612	A lid for small milk container
8615503613	B lid for small milk container
2515	Cleaning tablets CC/Frank Buna 120pcs
8000000405	Cup stand Bar
8000000314	Connection kit for customer-owned fridge

LAF Essential

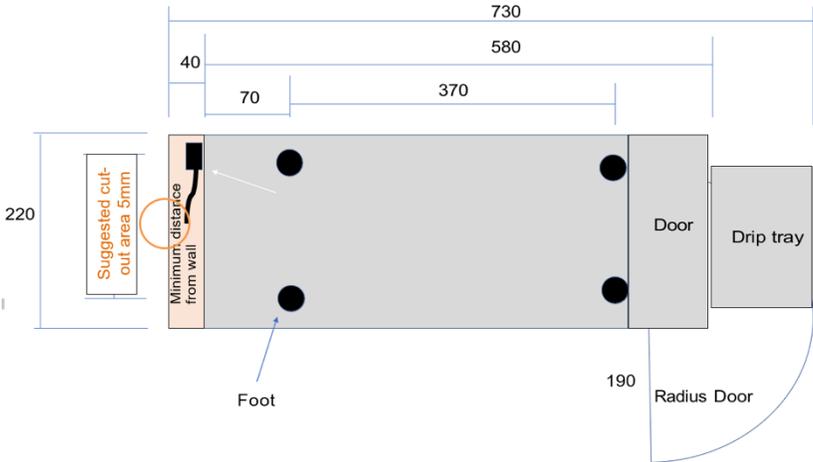


LAF Bar

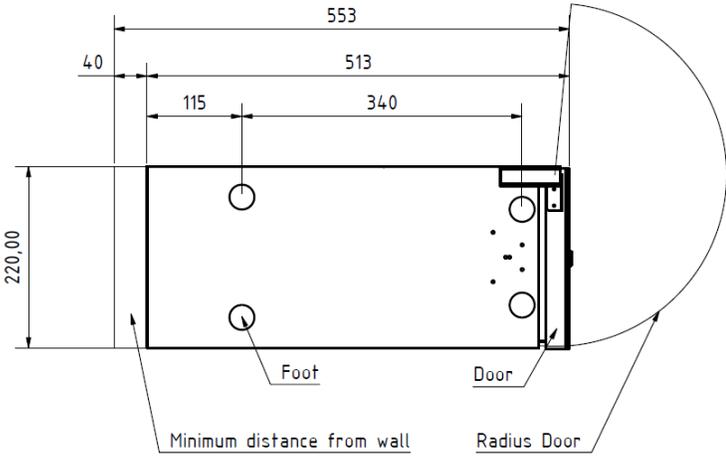


If any parts are missing or arrived damaged – please notify by email to support@frankbuna.com

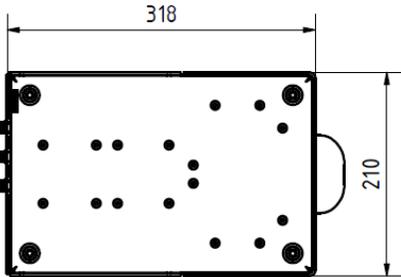
LAF Essential counter preparation



LAF Bar undercounter unit



Laf Bar countertop unit



Place the machine on a flat waterproof surface within 2 meters distance from power, water and drain outlets. Then proceed with the installation.

3. Installation



3.1.

Undo the two screws and remove the back panel as show in the picture to the left.



3.2

Connect the 6mm tubes to the quick connectors supplied. There are check valves inside the quick connectors, so water will not flow until plugged into the machine



3.3

Connect to water mains:

3.3.1

Close the mains water tap

3.3.2

A) With the provided 3/8 Male fitting and reduction you can connect to customer's 3/8 female outlet.



3.3.3

B) If you are installing a new water filter specifically for the LAF then you can plug the 8-6 reduction connection directly into a Brita filter head outlet



3.4.1

Plug the transparent water tube with blue quick connector to water mains on one side and to a plug with blue sticker "Water" on a back of the unit on other side. Push firmly to make sure connections are sealed and non-return valve inside quick connector is opened.

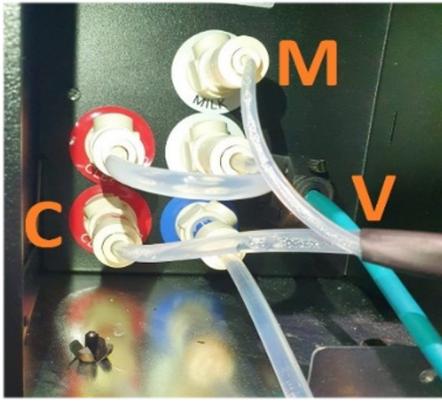
3.4.2

Open mains water tap

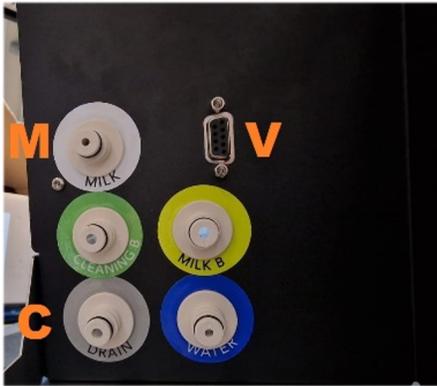
For LAF Essential:

3.5

Connect second tube with grey quick connector to outlet labeled "Drain" and feed other side of tube to wastewater pipe



Before September 2022



After September 2022



See pictures above

For the LAF Bar:

(for the LAF Classic installation, skip to section 3)

3.6.1

Connect the undercounter and the countertop units with the double tube set. The 4 mm pipe with white quick connector goes to "Milk" (M), the other 6 mm with the red connector goes to "Cleaning" (C)

3.6.2

Plug the 6mm tube into "Drain" (D) and feed it to the wastewater pipe

3.6.3



CAUTION: Do this step with the machine switched off!

Connect the VGA cable (V) (sitting at the back of the undercounter unit). Screw it tight to ensure firm connection.



3.7.

Plug the two power cables on the back side. One to the fridge, and one more to the IMS (LAF) unit, then switch the machine on.



→ Before



→ After

3.8.

2nd fridge connection (optional):

The additional fridge should be placed on the same level as the main LAF unit.

Remove the short tube adapter that connects "Cleaning" and "Milk". Plug in its place the 2nd fridge tubes with the corresponding plug colors (white and red).

We recommend to cut the tubes of the 2nd fridge as short as possible to optimize flushing cycles.



3.9.1

Internet Connection.

It is highly recommended to have the machine connected to the Internet to enable remote monitoring and servicing.

There are 3 options:

- [A] The LAF includes a 4G modem with SIM card preinstalled by Frank Buna
- [B] The LAF includes a modem without a SIM card
- [C] No modem (connection through LAN cable)



[A] - [B]

↑ Metal box and the black antennas indicate there is a modem installed. Modem lights on Y show signal strength. Blinking lights on X and no lights on Y = no SIM card detected



[C] connect the LAN cable from a router to the RJ45 slot (I) on the machine (for LAF BAR see picture from [3.6.2](#))



3.9 System info

3.9.2

Check if machine gets VPN IP number on 1st page of settings menu to verify internet availability. It takes up to 5 minutes after unit is switched on for VPN IP to appear.

N/A = not available, machine not connected to internet

4. Software settings

The following chapter describes only basic steps of the software settings for the first installation. For a full software description read the Software Manual.

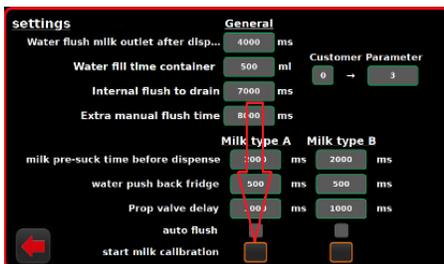


4.1.1

Decide if you will use only one milk type with the machine, or two simultaneously. To have two milks, use the small 1.7 L containers inside the main fridge, or connect the 2nd fridge for larger capacities. For a double fridge setup, the main fridge is named Milk A in the recipes, and the additional fridge is designated as Milk B.

4.1.2

Fill the containers with 1.7 L of milk.



4.2.1

Press  icon to enter the settings menu. Go to **Technician** → enter password (98998998) → **Techn.Settings** → **Milk module settings**. Press “start milk calibration” under the Milk Type A column

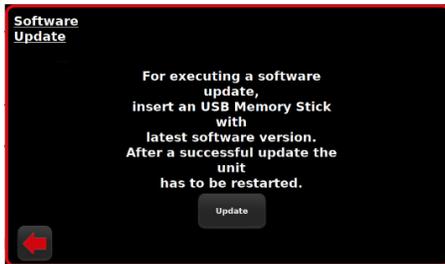


4.2.2

Put an empty container or bucket with at least 1 L capacity under the milk outlet (nozzle). Confirm the calibration procedure and wait for the "Calibration successful" message on the screen.

4.2.3

Repeat the same for Milk B if you plan to use it.



4.3

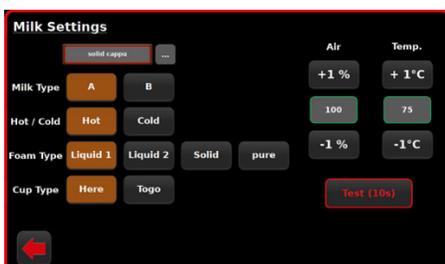
If you have custom recipes prepared on a USB-stick, upload them as follows: **Menu → Technician → Technical settings → Software update**. Plug the USB-stick under the display and confirm. Depending on the software version, the display will show either a green checkmark on a white background or a static noise when the update is finished. Thereafter, reboot the machine.



4.4

Run the cleaning cycle as follows:

Menu → Service → Clean → Cleaning Milk Module and follow the instructions on the screen. The cleaning cycle takes approximately 20 minutes.



4.5

Adjust the milk foam quality by defining air and temperature settings by going to the **Menu → Milk Airflow**.

Here you can set up to 16 foam types for each milk. Default factory recipes use Hot Liquid, Hot Solid, Cold Liquid, Cold Solid foams. Increasing Air setting leads to more solid texture. If the milk flow is interrupted and large bubbles appear while dispensing; check if the milk container is filled and connected properly, then reduce the air quantity.

Foam type names are used later in the recipes and can be changed by pressing **...** next to the recipe name.

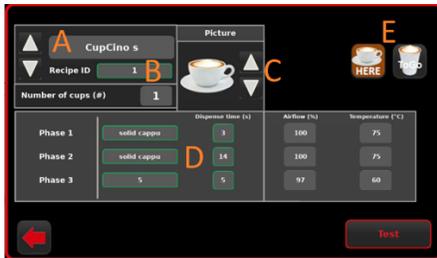


4.6

Drinks menu, their positions on the screen and the quantity of drinks appearing per page are adjustable by activating **Configurationsmodus** through:

Menu → Technician → Technical settings → Config. Mode

For a more details check the Software Manual.



4.7

Adjust drink recipes: **Menu → Recipes → Milk Modul**

[A] – arrows for switching between recipes. Press on the recipe name to rename it

[B] – switching between recipes by their IDs (full list of recipes and IDs is under **Menu → Statistics → Total Counters**)

[C] – recipe (drink) picture

[D] – drink recipe. Set here foam types needed and their dispensing times (filling volumes are set by time in seconds). Set time at 0 for the phases you don't need

[E] – switching between Here and ToGo versions of the recipe (adjusted separately)



4.8

Go back to main screen, deactivate Technician mode and Configuration mode by pressing  and  buttons

4.9

Train the client / machine operators on how to use and clean the LAF

CUP&CINO Kaffeesystem-Vertrieb GmbH & Co. KG,
Paderborner Str. 33, 33161 Hövelhof, Germany
+49 5257 98 98 40 4, www.frankbuna.com,
info@frankbuna.com