Pre-Installation guide

Scanomat Download Center

Scanomat Connection Diagram

Scanomat Architect Pack (2D/3D Files)

Video
Complete Walkthrough

For TopBrewer Pro
Version: 3.1
01-06-18
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Introduction

The operation of a TopBrewer Pro coffee system. The TopBrewer Pro consists of a main unit, the coffee machine, the “swan neck” or tap that is installed through the tabletop and is height adjustable through the mounting bracket, a drained drip tray and a ventilation kit for the toe kick base. Additionally we offer optional accessories that are installed along side of the TopBrewer. These accessories include our extensive lineup of fridges, coolers and racks (overview on next page) that expands the machines capabilities to include milk, chocolate and ice water.

The TopBrewer is connected to the cold water supply and water is heated in professional flashheaters, meaning on demand. This works by water flowing through two 2,3kW aluminum coils when a drinks is ordered (approx. 84-92o) and a separate steam-coil producing steam for milk (138-140o). The total heating capacity of the TopBrewer is thus 6,9 kW and it should be preferably connected to 400V, 3 phase, 16 amp (3-phase version) or 208-240V, single phase, 30 amp (single phase version) for the machine to perform to it’s full potential. If only 208-240V, single phase, 10 amps is available, the machine can be re-programmed to run on a priority heating diverting power to the heating source needing it the most.

When ordering a milk drink, milk is pumped from the fridge (the pump is placed inside the fridge for sanitary reasons), and once a delivery is done the machine finishes with pushing the remaining milk out with cold water and thus cleaning the entire tubing. The water does not enter the cup but is afterwards ejected into the drain via the double-valve inside the fridge.

All water shall be purified using TopBrewer certified filtration. We require that the main inlet is filtered through a filter using 30% bypass or less and that a second filter with 0% bypass is used to completely remove line from the dedicated steamer inlet.

Installation, maintenance and warranty

The TopBrewer system can be installed in almost any location provided there is sufficient space for the machine as well as power, water supply and waste. The TopBrewer must be placed with sufficient clearance so that it may slide out on its hinges. The fridge must be fitted so that the length of the tubes does not exceed 1,5 mm. It can be installed in an adjacent cabinet provided it maintains such maximum length. Accessories such as the Scanomat Cooler 45l and the Chocolate rack must also stay within the same maximum distances to ensure proper dispense quality.

All equipment must be fitted so that the they receive proper ventilation, with temperatures not exceeding 35°C, as this would harm components and void warranty.
### UNIT DETAILS

<table>
<thead>
<tr>
<th></th>
<th>TopBrewer Pro</th>
<th>TB</th>
<th>ICE-Bank</th>
<th>A1</th>
<th>Pro-fridge</th>
<th>A2</th>
<th>Pro-fridge Tall</th>
<th>A3</th>
<th>Cooler 45*</th>
<th>B1</th>
<th>Cooler 65*</th>
<th>B2</th>
<th>Pro-Fridge BiB</th>
<th>A4</th>
<th>Slimrack</th>
<th>C1</th>
<th>Chocolate rack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Dimensions (WxDxH)</td>
<td>224 x 534 x 667 mm</td>
<td>236 x 569 x 428.5 mm</td>
<td>231 x 600 x 430 mm</td>
<td>231 x 438 x 600 mm</td>
<td>255 x 486 x 404 mm</td>
<td>351 x 454 x 513 mm</td>
<td>520 x 560 x 760 mm</td>
<td>129 x 438 x 476.5 mm</td>
<td>230 x 323 x 237 mm</td>
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<tr>
<td>Packing Dimensions (WxDxH)</td>
<td>320 x 660 x 790 mm</td>
<td>246 x 579 x 488.5 mm</td>
<td>300 x 615 x 490 mm</td>
<td>241 x 443 x 660 mm</td>
<td>265 x 483 x 464 mm</td>
<td>361 x 469 x 573 mm</td>
<td>530 x 575 x 820 mm</td>
<td>139 x 443 x 536.5 mm</td>
<td>240 x 338 x 297 mm</td>
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<tr>
<td>Weight, gross.</td>
<td>60 kg</td>
<td>25 kg</td>
<td>20 kg</td>
<td>20 kg</td>
<td>22 kg</td>
<td>33 kg</td>
<td>31 kg</td>
<td>9 kg</td>
<td>8 kg</td>
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<tr>
<td>Weight, net.</td>
<td>56 kg</td>
<td>22 kg</td>
<td>17 kg</td>
<td>17 kg</td>
<td>19 kg</td>
<td>30 kg</td>
<td>28 kg</td>
<td>6 kg</td>
<td>5 kg</td>
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<tr>
<td>Bean/Carton Capacity</td>
<td>2 x 1.4 kg</td>
<td>Up to 4 L</td>
<td>Up to 8 L</td>
<td>Up to 8 L</td>
<td>-</td>
<td>-</td>
<td>3 x 10 L Bag-in-box (up to)</td>
<td>10 L Bag-in-box</td>
<td>3 L Bag-in-box</td>
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<tr>
<td>Throughput/hour</td>
<td>180 cups</td>
<td>25 L</td>
<td>-</td>
<td>-</td>
<td>45L</td>
<td>65-180L</td>
<td>-</td>
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<tr>
<td>Approvals</td>
<td>CE, ETL/UL, CB, NSF</td>
<td>CE</td>
<td>CE, ETL/UL</td>
<td>CE, ETL/UL</td>
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<td>CE, ETL/UL</td>
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### REQUIREMENTS

<table>
<thead>
<tr>
<th></th>
<th>TopBrewer Pro</th>
<th>TB</th>
<th>ICE-Bank</th>
<th>A1</th>
<th>Pro-fridge</th>
<th>A2</th>
<th>Pro-fridge Tall</th>
<th>A3</th>
<th>Cooler 35</th>
<th>B1</th>
<th>Cooler 45</th>
<th>B2</th>
<th>NFC</th>
<th>A4</th>
<th>Multirack</th>
<th>C1</th>
<th>Chocolate rack</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power</strong></td>
<td><strong>6900 Watt</strong></td>
<td>208-240V, 30 Amp, single phase</td>
<td>OR</td>
<td><strong>2300 Watt (Priority Heating)</strong></td>
<td>208-240V, 10 Amp, single phase</td>
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<tr>
<td><strong>For Canada &amp; US</strong></td>
<td>208-240V, 13 Amp 3-pin plug point for each unit.</td>
<td>For Canada &amp; US:</td>
<td>115V, 60 Hz, 10 Amp, plug point for each unit.</td>
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<tr>
<td><strong>For UK</strong></td>
<td>32 Amp - Commando fitting (supply male/female connections)</td>
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<tr>
<td><strong>Water</strong></td>
<td>Direct Water Connection, 3/4&quot; type shutoff valve</td>
<td>Water pressure: 200kPa (2 Bar) - 600 kPa (6 Bar)</td>
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<tr>
<td><strong>Filtration</strong></td>
<td>TopBrewer water filters fitted in a location adjacent to the TopBrewer. (pages 7 &amp; 8)</td>
<td>Dedicated steam filter required (Pure 50, 0% bypass)</td>
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<tr>
<td><strong>Drainage</strong></td>
<td>Waste U-pipe, ø40mm. Manifold/drain plug (included, see pages 15 &amp; 16) is inserted and components are connected here.</td>
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<tr>
<td><strong>Ventilation</strong></td>
<td>Machine and fridge produces heat, which needs to be able to exit as per installation instructions. See carpenter requirements (pages 7 &amp; 8) and ventilation specs (page 11)</td>
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</table>
Space requirements

Clearance height needed for installation of swan neck min 500 mm

Depth dependent on fridge
- A1: 569 mm
- A2: 600 mm
- A3: 534 mm
- A4: 560 mm

See page 4

Min. Total width 560 mm

Always allow min. 40 mm clearance

Always allow min. 60 mm clearance

*Optional units

Video Space Walkthrough
CARPENTER
Cutout overview

**UNITS:** TB + A2 + C2*

- **Side:**
  - Air exhaust
    - See page 18/19 for installation details

- **Front:**
  - Air exhaust
    - See page 18/19 for installation details

- **Top View:**
  - iPad:
    - 7
    - - 0.25
    - + 4.00
  - Air exhaust for heat from fridge
    - See page 11 for details

**Minimum requirements:**
- 220 mm
- 110 mm
- 80 mm
- 71 mm
- 359.5 mm
- 150 mm
- 16 mm
- Ø100 mm

- **Optional units:**
  - Divide Panel (⚠ Mandatory)
    - Needs a tight fit

**NOTE:** CONTACT A SALES REPRESENTATIVE FOR ALTERNATIVE PLACEMENTS OF THE FAUCET.
Examples of other configuration:

All cabinets are based on standard 60 cm cabinets

- **UNIT 2**: TB + A3
  - 373.5 mm x 146 mm
  - Min. 398
  - Divide Panel (Mandatory)
  - Divide Panel (Needs a tight fit)

- **UNIT 3**: TB + A3 + B1* + C2*
  - 373.5 mm x 146 mm
  - 134 mm
  - 84 mm
  - Divide Panel (Mandatory)

- **UNIT 4**: TB + A1
  - 324 mm x 176 mm
  - 39 mm
  - Min. 530
  - Divide Panel (Mandatory)
  - Divide Panel (Needs a tight fit)

- **UNIT 5**: A4 + TB + B1* + C2*
  - 200 mm
  - 368 mm
  - 134 mm

*Optional units

Air exhaust for heat from Fridge/Cooler
See page 11 for details
Cutout dependent on Fridge/Cooler selection
Cutout here
NOTE that this drip tray is best used for water resistant tabletops such as Granite, Marble or Corian. If wood, make sure pourers are completely sealed.

In standard configuration (See page 4).
VENTILATION

Video
Ventilation Walkthrough
1. Toe-Kick Ventilation System

Overall Requirements:

- Maximum 35 °C / 95 °F operating temperature, measured in the top of the cabinet.
- Allow both TopBrewer and fridge clearance to ensure airflow. The clearances are included in the specified measurements on page 7.

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The sensor should be placed as high as possible, though no higher than 10 cm from the underside of the tabletop.

The sensor can be placed on the backing or sidepanel.

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Place the hood on top of the ventilation outlet made in the cabinet. This lets the hot air exit directly through the toekick.

Note: The hood is fitted to the back of the fridge/cooler from factory.

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The ventilation assembly can be mounted on a custom ventilation grate or on the aluminum grate which is a part of the kit.

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Ventilation kit: no. 2007915

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Divide Panel (⚠️ Mandatory)
(Needs a tight fit)

Cold air inlet

Hot air outlet
2. Ventilation Console
(ICE-bank only)

**Overall Requirements:**

- Maximum 35 °C / 95 °F operating temperature, measured in the top of the cabinet
- Allow both TopBrewer and fridge clearance to ensure airflow. The clearances are included in the specified measurements on page 7

The console is easier to mount as it requires less custom work on the cabinet. It also adds the sliding function for easier maintenance.
ELECTRICAL

Video
Electrical Walkthrough
Electrical Requirements

- Safety switch for machine main power
- 1600 mm cable length
- Plug point for fridge, ventilation & iPad
- All electrical must be kept within boundary
- Single phase 230V, 10 amp
- 3 phase 16 amp 400V
- Single phase 230V, 10/30 amp

US & Canada: Single phase 115V, 60 Hz, 10 Amp

Electrical installation area
Filter overview

Filters

Filters are chosen based on the projected usage pattern of the machine. Distance of installation relative to the machine are unlimited. An example of the capacity is listed below.

Capacity:

Example: 30% bypass, oDH. 15%
C150: 1390 L
C300: 2310 L
C500: 2926 L

Drainline Ø18 mm

Drain plug provided
Pipe size Ø40

Optional Co₂ bottle placement.
(optional). Must be standing upright, max pressure setting 3 bar.

*Optional units
Plumbing option 2

**U-Pipe is required**
- Drainline from driptray
- Fridge waste water
- Drainpump from machine
- Main Water w/ shutoff valve
- *Drainline from Chocolate Rack

Drainline Ø18mm

Pipe plug provided
Pipe size Ø40

1 m
5 cm

Drainline from driptray

Drainpump from machine

Main Water w/ shutoff valve

*Drainline from Chocolate Rack

Drainplug provided

Pipe size Ø40

300 mm

Filter overview

Filters
Filters are chosen based on the projected usage pattern of the machine. Distance of installation relative to the machine are unlimited. An example of the capacity is listed below.

Capacity:

Example: 30% bypass, 1\*H. 15

C150: 1390 L
C300: 2310 L
C500: 2926 L

Optional Co₂ bottle placement.
(Optional if applicable). Must be standing upright, max pressure setting 3 bar.

Plumber & Carpenter may need to arrange placement of the divider.

*Optional units