PRE-INFUSION FLOW RATE STÉPHANE RIBES - APRIL 2020



- Decent Espresso Machine DE1PRO v1.1 with a (red) Cafelat 8.0 mm silicone gasket
- IMS SI 200 IM screen (no spacer)
- Mahlkönig EK43 S grinder SSP burrs "High Uniformity" with Silver Knight coating
- Montille water (Le Mont Dore, France) adjusted to 50 ppm eq. CaCO₃ alkalinity and
 125 ppm eq. CaCO₃ total hardness, with sodium carbonate and Epsom salts
- Portafilter pre-heating: 70°C in a kettle
- Complete drying of the basket and shower screen before each shot, with a clean tissue
- Single dosing of the beans, ground in a double walled stainless steel cup
- VST 15g ridgeless filter basket, brew ratio of 2.3
- **WDT** in the basket with a Londinium tool (and a Decent funnel) no vertical tapping gentle raking of the coffee grounds with a hog tool, to obtain a uniform surface
- Hog puck preparation tool (thin pikes) in and out of the puck, with a stand to ensure a straight vertical movement (picture)
- The Force Tamper with a 58.5 mm smooth flat base used twice in a row
- TDS measurements: Atago PAL zeroed with adjusted Montille water no filtering of the coffee samples all samples measured at room temperature after vigorous stirring 1 data point = average of 3 to 5 measurements of each coffee sample

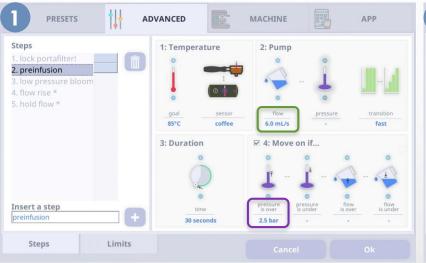




HYBRID "LEVER-BLOOMING" PROFILE

2.5 ML/S EXTRACTION - 85°C







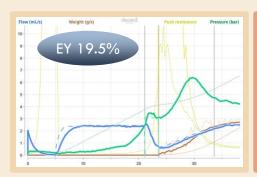
- Combination of the Londinium and blooming profiles
- The initial step "lock portafilter!"
 is optional: it prevents exposure of
 the coffee puck to the hot machine
 environment during the final warmup of the brew water

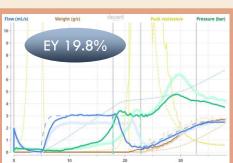


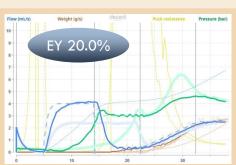


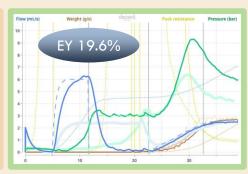
IMPACT OF THE PRE-INFUSION FLOW RATE ON THE ESPRESSO EXTRACTION

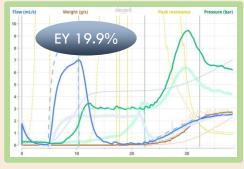












Pre-infusion flow rate:

All shots: same grind size, 13g in, 30g out – Total shot time: 33s

2.4 mL/s

3.0 mL/s

4.0 mL/s

6.0 mL/s

8.0 mL/s





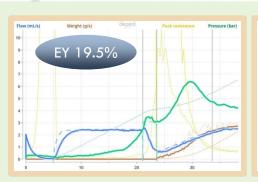






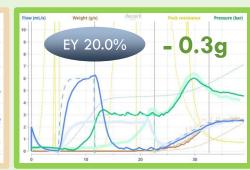
IMPACT OF THE PRE-INFUSION FLOW RATE

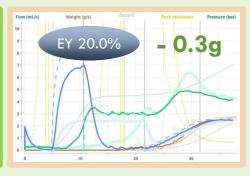












Pre-infusion flow rate:

Coffee dose adapted to reach a pressure peak around 6 bar

2.4 mL/s

3.0 mL/s

4.0 mL/s

6.0 mL/s

8.0 mL/s









