

# PRODUCT DATA SHEET

## PROBATONE 5



Type of system:	Shop roaster (batch capacity of 3-5 kg)
Kind of system:	Drum roaster
Field of application:	Roasted coffee

### THE ESSENTIAL ADVANTAGES OF THE PROBATONE 5 AT A GLANCE:

Homogeneous roasting of the coffee with Probat-specific product-air ratio and special shovel mechanism Quick, gentle cooling of the roasted coffee by a large cooling sieve and even distribution with food-safe plastic scrapers Cleaning brush underneath the cooling sieve removes bean particles and chaff Classic, nostalgic design by many components made of high-quality cast iron Reduced cycle time by simultaneous roasting and cooling with separate ventilators Efficient drive concept by separate motors for drum drive, cooling sieve stirring arm, as well as, roaster and cooler fan Greater flexibility during roasting by adjustable gas regulation Efficient heating by proven burner technology Simplified cleaning by removable side walls Separate roasting cyclone for an effective chaff separation Accurate operation with digital time and temperature display Hand-crank for emptying the roasting drum in the event of a power outage. Alternatively, a supplied adapter makes it possible to attach a cordless screwdriver to simplify discharging.



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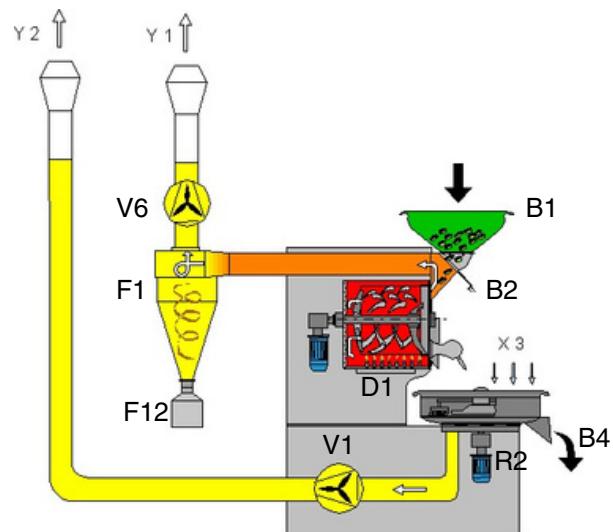


**PROBATONE 5 DESCRIPTION OF OPERATION:** With its classic, nostalgic design, the PROBATONE 5 serves for batch-by- batch production of high-quality coffee. An excellent roasting quality as well as a planable, efficient roasting result are surely the pre-conditions for a success- ful coffee roaster. The Probatone 5 is the perfect partner, among other things, due to the possibility of produc- ing replicable, consistent roasting re- sults. A batch of green coffee, max. 5 kg, is weighed and placed into the filling hopper (B1). When the temperature has reached approx. 210°C, the slide gate (B2), is opened and the coffee is filled into the roasting drum. After fill- ing, the slide gate has to be closed. The roasting process is monitored by viewing the coffee through the sight glass and taking samples with the sampler. The burner (D1), located un- derneath the roasting drum, can be increased and decreased depending on desired degree of roast and roast- ing time. The product temperature is measured continuously and displayed digitally on the operating panel. An even heat transfer, as well as, a very gentle and efficient mixing of the

special is achieved by the shovel mechanism in the roasting drum.

The cooling of the coffee is carried out by the cooling ventilator (V1) which draws ambient air (X3) through the roasted product and sieve. In doing so,

the roasting product is efficiently cooled.



The stirring mechanism (R2) serves to evenly distribute the coffee and to sim- plify the emptying. After the coffee has been cooled, it is emptied via the discharge door (B4) into a provided bin. During the cooling cycle, a further batch can be filled and roasted once the desired filling tem- perature has been reached. The exhaust gases and chaff created during roasting are transported via the roaster fan (V6) to the roasting cyclone (F1). Here, the chaff and dust is sepa- rated from the roasting air by means of centrifugal force and gravity. A chaff collecting bin (F12) arranged under the roasting cyclone collects the chaff. The roasting (Y1) and cooling (Y2) air is released into the open via the chim- ney.

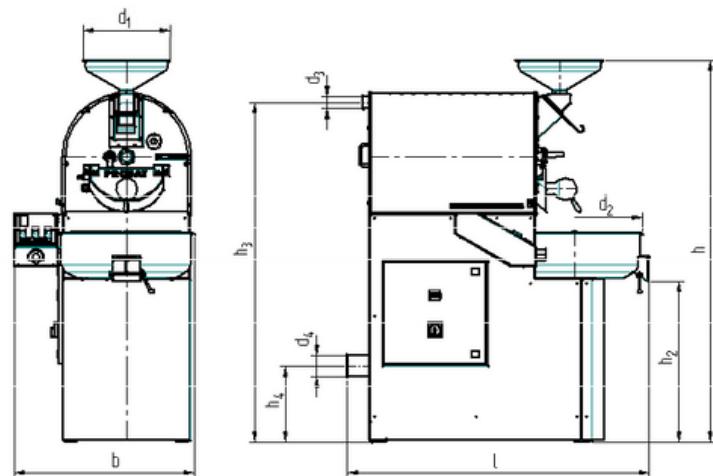
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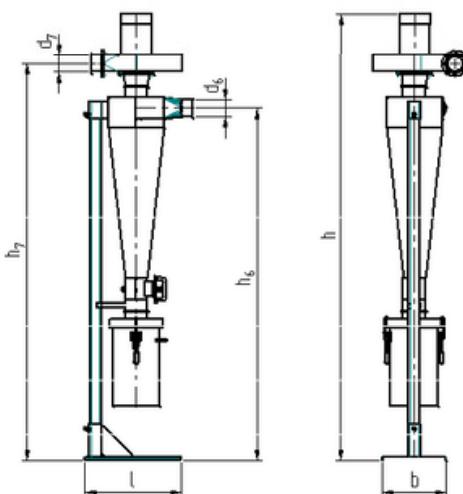
### DIMENSIONS AND WEIGHT OF THE ROASTER

Dimensions in mm approx.	l	1,470
	b	880
	h	1,860
Filling hopper in mm approx.	$\varnothing$ d1	425
Cooling sieve in mm approx.	$\varnothing$ d2	660
Cooling sieve emptying in mm approx.	h2	785
Roasting exhaust air duct in mm approx.	$\varnothing$ d3	NW 60
	h3	1,650
Cooling exhaust air duct in mm approx.	$\varnothing$ d4	NW 100
	h4	370
Gas connection in mm approx.	h5	35
Operating weight in kg approx.	Roaster	340



### DIMENSIONS AND WEIGHT OF THE ROASTINGCYCLONE

Dimensions in mm approx.	l	450
	b	300
	h	2,092
Roasting exhaust air duct in mm approx.	$\varnothing$ d6	NW 80
	h6	1.650
Exhaust air duct in mm approx.	$\varnothing$ d7	NW 80
	h7	1.840
Operating weight in kg approx.	Cyclone	44



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### CONNECTING AND CONSUMPTION DATA

Voltage supply			
Supply voltage (three-phase current)			400 V or 230 V
			50 Hz or 60 Hz
Current consumption			
PROBATONE 5 Nominal			< 0.3 kWh/5kg
power Drum drive			
Stirring mechanism drive			0.12 kW 0.09 kW
Roaster fan Cooler fan			0.22 kW / 0.30 kW
Kind of gas			
			0.22 kW / 0.30 kW
Nozzle designation	Gas pressure	Nominal gas power	
	120	20 mbar 50 mbar	
Propane	75		50 MJ/h

Kind of gas	Calorific value Hu	Gas consumption during nominal power
Natural gas	10.3 kWh/Nm <sup>3</sup>	1.3 m <sup>3</sup> /h
Propane	25.8 kWh/Nm <sup>3</sup>	0.5 m <sup>3</sup> /h

Exhaust air volume flow	
Roasting	100 m <sup>3</sup> /h norm
Cooling	250 m <sup>3</sup> /h norm