

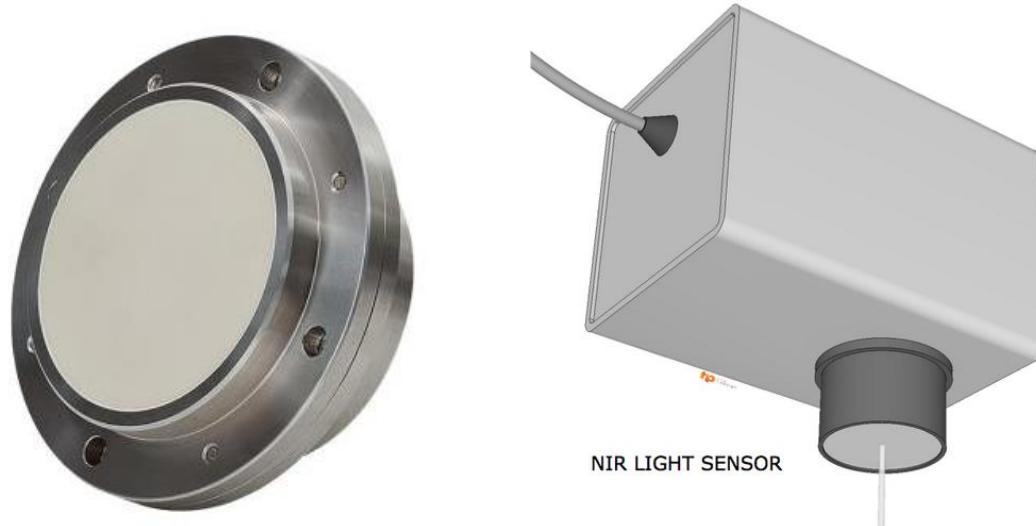
AQA

Automated Quality Analysis



AQA

Moisture measurement without product specific calibrations.



Sensors requires product specific calibrations

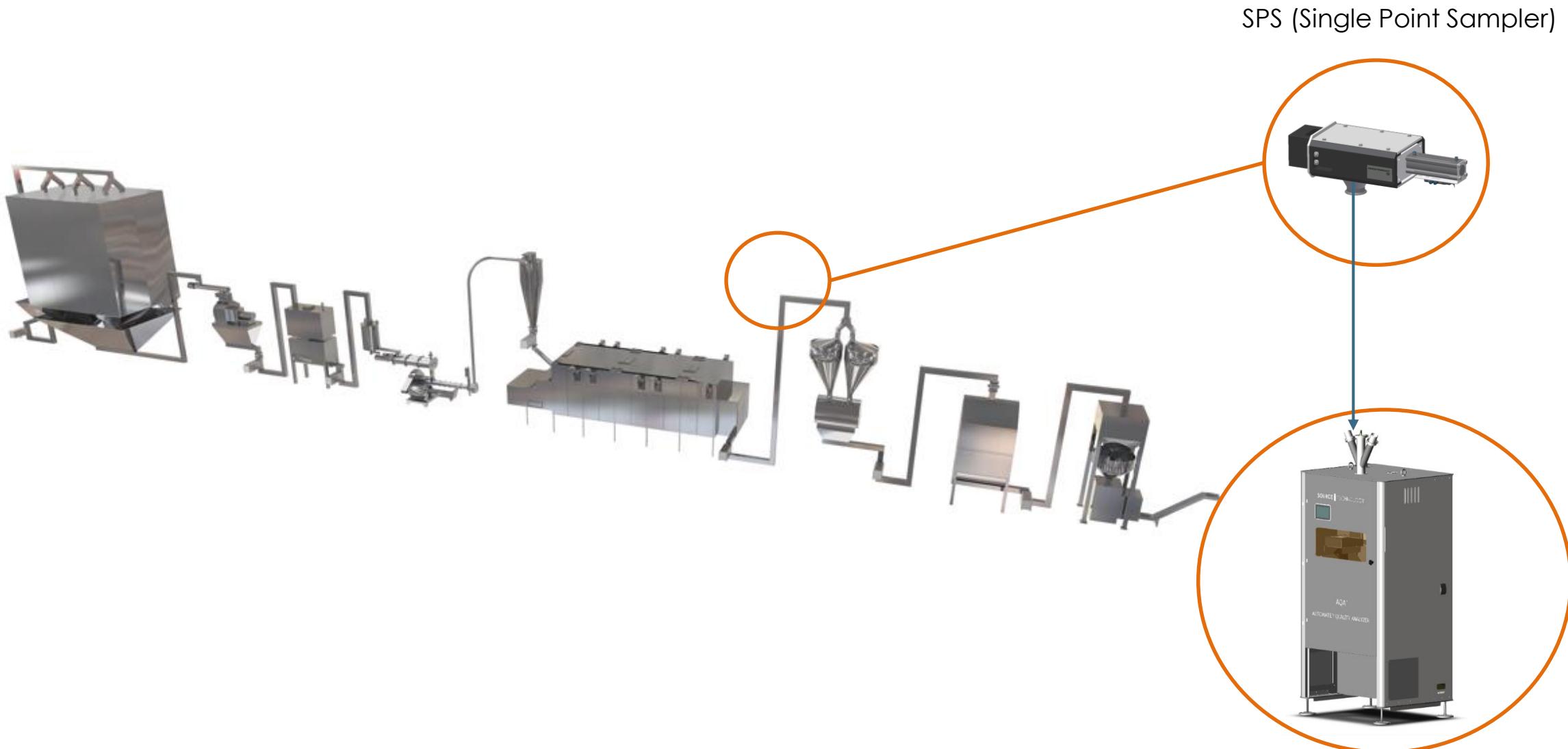


Moisture measurement based on LIW (Loss in weight).

Temperature and weight calibration.

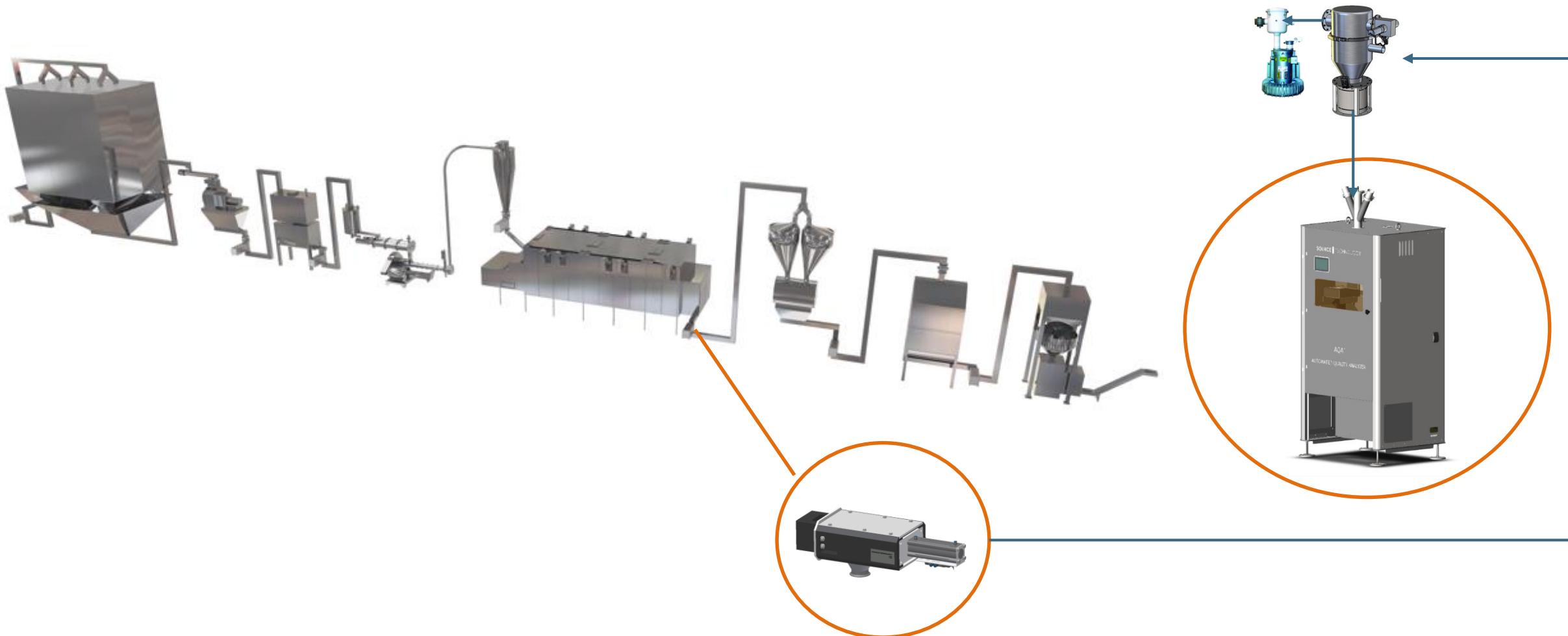
AQA

Standard layout Dryer outlet gravity transport of sample



AQA

Optional layout pneumatic conveying of sample



AQA Overview

Front



Engine room

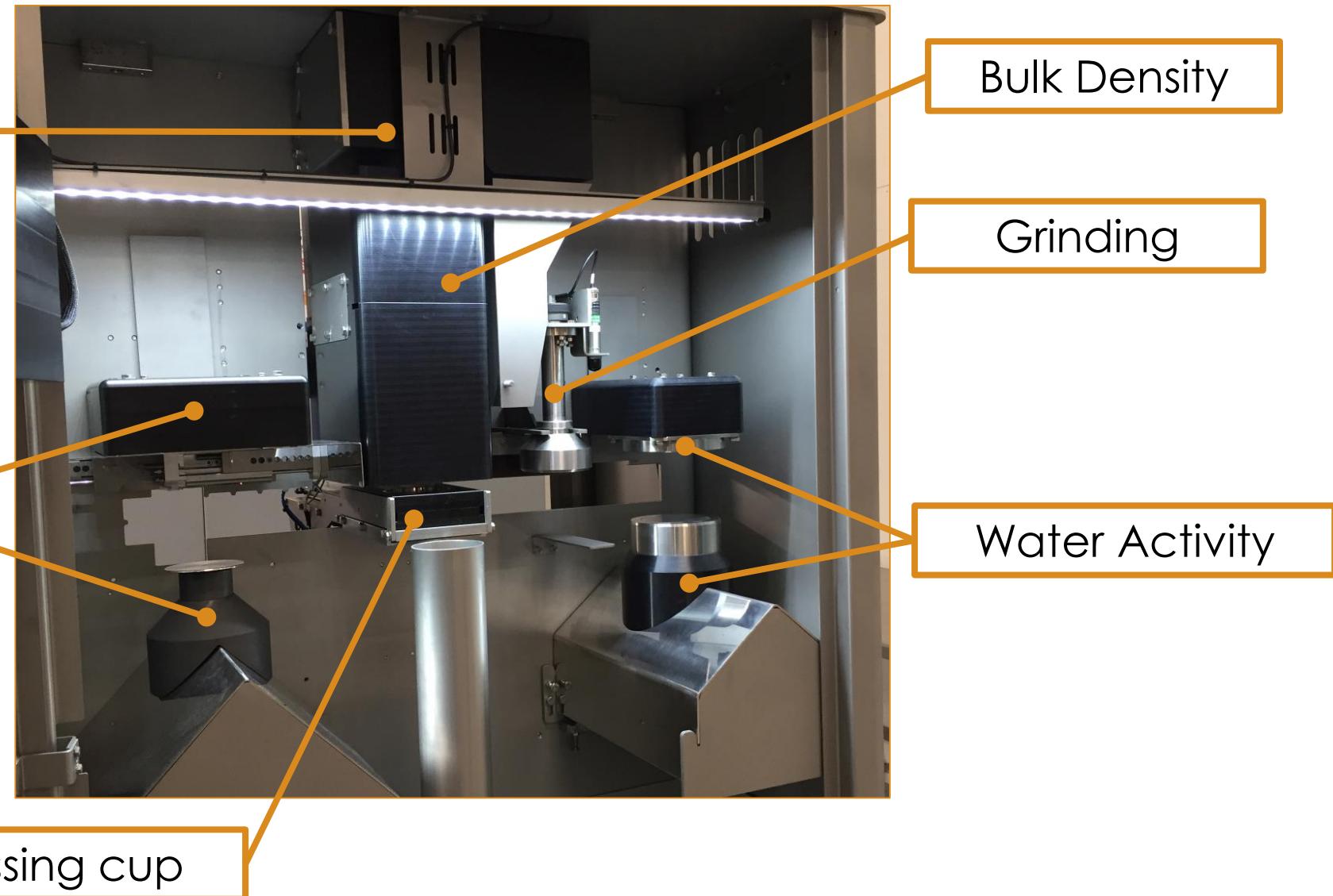


Electrical cabinet



AQA

Analysis functions

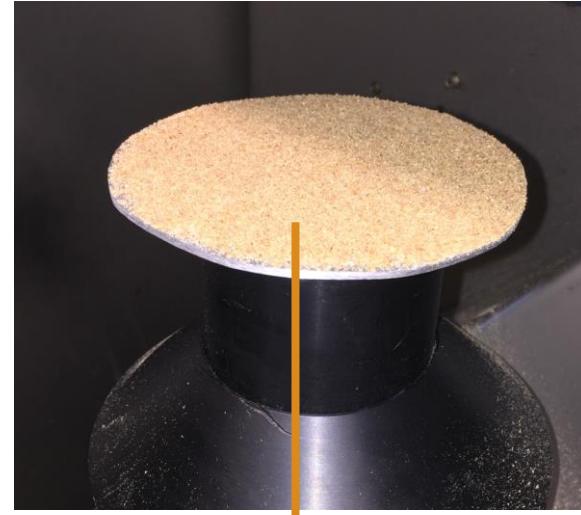


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Moisture measurement



Sample processing
cup and Grinder



Ground sample on
evaporation plate



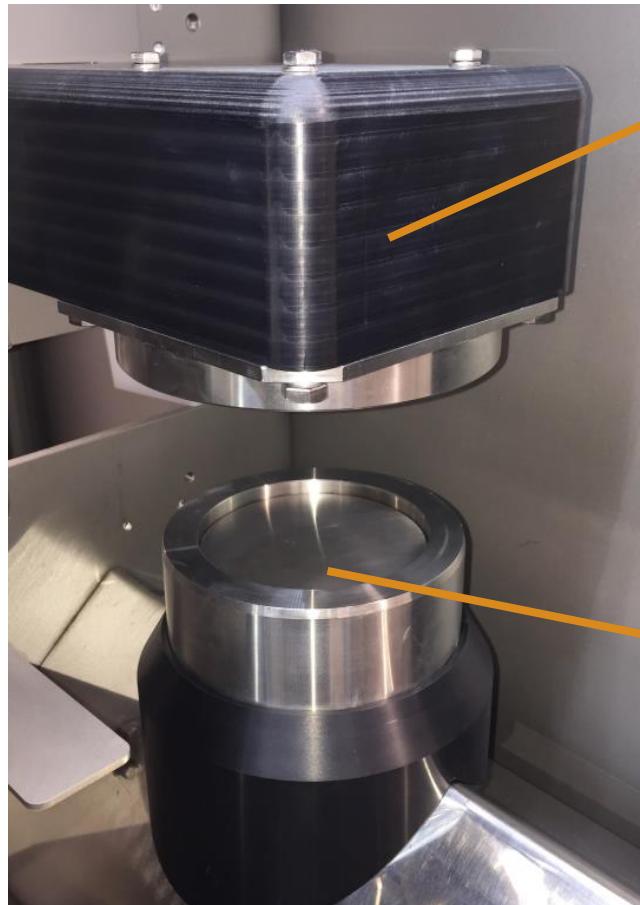
Halogen Heater



Micro scale

AQA

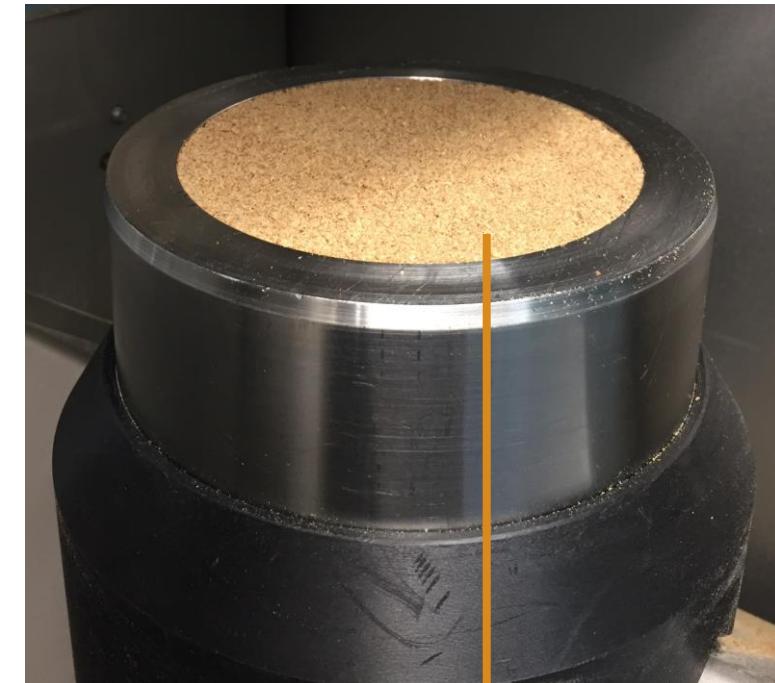
Water activity measurement



aW sensor



Large sample
container

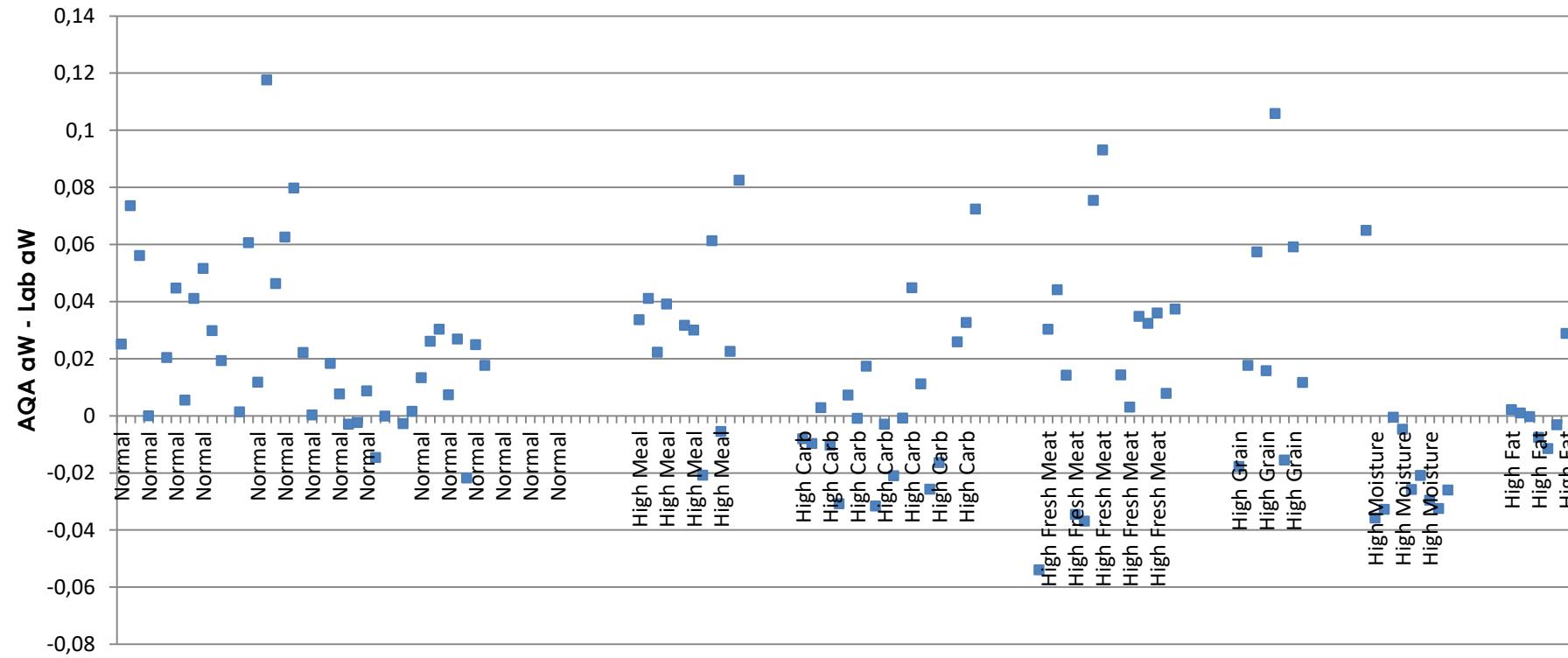


Ground sample for aW analysis

AQA

Water Activity results from field test (Pet food)

Detailed look at the differences between the AQA to the internal AquaLab results.



The results obtained were found to be very accurate compared the AquaLab; the majority of results are within a $\pm 0.05\%$ range of the results.

AQA

Control system. Water activity configuration. Temperature control

Temperature control of aW container to avoid condensation in the measuring chamber

Temperature	rH %	Dew point temperature
20	64	13,0
21	64	13,9
22	64	14,9
23	64	15,8
24	64	16,8
25	64	17,7
26	64	18,7
27	64	19,6
28	64	20,6
29	64	21,5
30	64	22,4
31	64	23,4
32	64	24,3
33	64	25,3
34	64	26,2
35	64	27,2
36	64	28,1
37	64	29,1
38	64	30,0
39	64	30,9
40	64	31,9
41	64	32,8

AQA Configuration - Water Activity 3 14:50:49

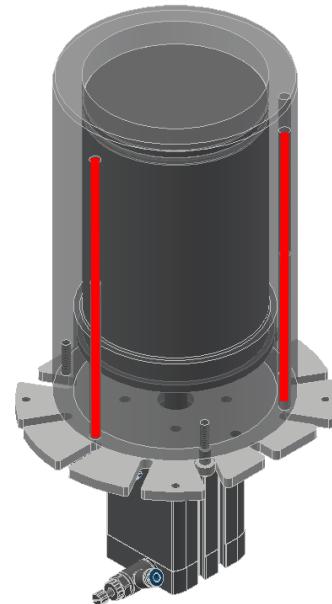
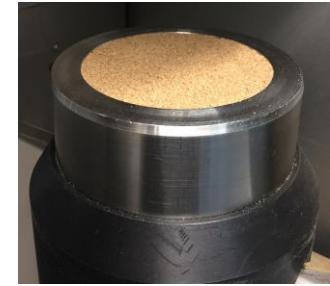
Temperature

- Max temperature for crushed sample: 40 °C
- Timeout for temperature drop: 180 sec.
- Enable aWCup Temperature Control:

Actuals

Humidity	34.10 % RH	Raw	34.100	Status	1
Temperature	End 0.0 °C	HumidSens	21.3 °C	aWCup	20.5 °C
	Product UnCrushed 0.0 °C	Product Crushed	20.6 °C	Cabinet	20.6 °C



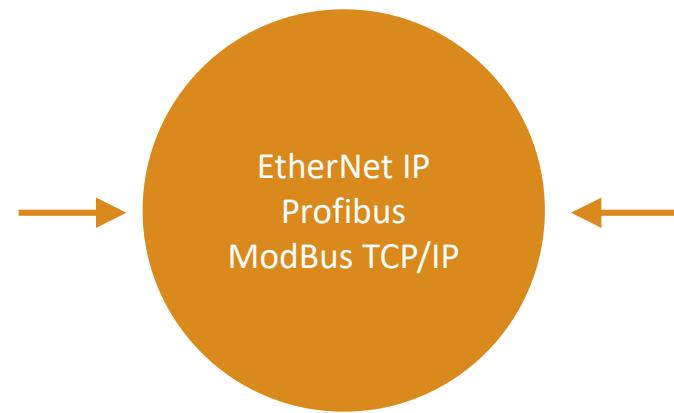


Heating elements inside aW assembly

AQA Control system



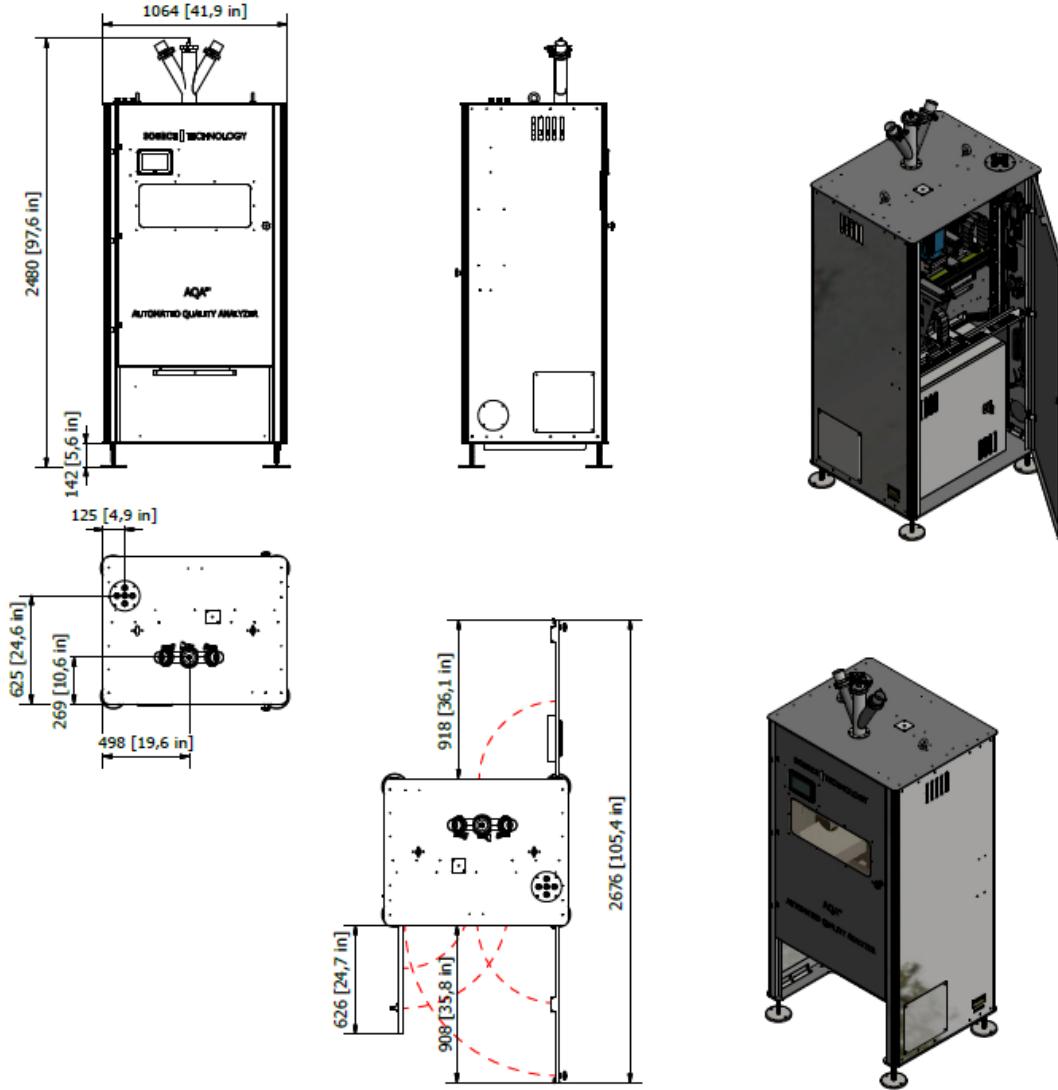
AQA Control system



Plant Control system

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Dimensions



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