

Fully Automatic Fat/solvent Extraction system with hydrolysis Application :

Raw Materials, Intermediates and Finished Products in Food, Animal Feed and Petfood

For Total Fat (Free and Bound Fat)

1. Complete system for integrated boiling and filtration of samples and all accessories needed for food and feed samples
2. Completely automatic and unattended system,
3. Only ~10 ml of solvent should be used per sample with the recovery system
4. Separate timer functions for each extraction step
5. 2 set of Extraction cups should provided and should be made of Aluminum.
6. Accessories for batch handling (mention the list of batch handling tools included) to improve laboratory efficiency
7. Official approvals AOAC2003.05, 2003.06 (feed), SCAN-CM 49:93 (paper/pulp), EPA method 3541 (PAH in soil) should be there.
8. The electrical parts like switches, controllers, display etc except the heating element should be separate from the unit and should be able to be kept at least at 1 meter distance from extraction system for safety reasons.
9. Sample preparation prior to GC/HPLC work should be possible.
10. During rinsing procedure the samples along with the thimbles should be raised up from the solvent cups for better rinsing and good reflux without need of displacing the solvent cups.
11. 50 number of thimbles Thimble of size: 26 × 60 mm. Approx. 25 ml
12. Extraction time: typically 40 to 60 min, depending on application
13. Capacity per batch: 6 samples ,Capacity per day: 30-36 samples
14. Measuring range: 0.1-100% fat
15. Accuracy: According to official approvals
16. Repeatability: ± 1% rel. or better at 5-100% fat
17. Heating up time: from 20°C to 280°C in 7-9 min (230 V)
18. Solvent recovery: 80%
19. Following Seals for condensers should be supplied
viton (set of 6), butyl (set of 6), teflon (set of 6), polyuretone (set of 6)
20. Preventive maintenance kit for the system .
21. Solvent dispensing system to extraction cups.
22. Mill to grind samples of High-moisture, high-fat and fibrous samples, such as:
Grains, Cereals Beans Oilseeds Nuts Peas - wet and dry Maize (Corn) - wet and dry Pelleted feed and Pet food (3-4 mm) Pellets up to 6 mm - with lid for pellets meat products , Vegetables and Fruit . sample size Maximum 30 - 200 ml ,principle : Rotor blade Time : 2 to 10 sec ,speed Blade 16.000 rpm , Chamber cooling option by connect cooling circulating water to reduces adhesion of sample to the wall of the grinder
23. Hydrolysis system .

NOTE : All the item quoted should be from same manufacturer .