

## BAUER McNETT FIBRE CLASSIFIER

Determination of fibre length of pulp by classification

According to standards: TAPPI T233 - SCAN M6 - PAPTAC C.5V...



CF4 model – 4 Classifier Containers

### FEATURES

- Mounting frame and classification units made entirely of stainless steel
- Quick-locks for screens and drainage cups
- Control panel for agitation, vacuum, timer and power supply
- Vacuum-pump to speed up the draining at the end of the test
- Standard screens: ASTM 16 / 30 / 50 / 100 / 200 (Other screens available upon request)
- Manufactured with 4 or 5 tank units
- Flow rate: 11.355 l/min
- Flow Meter included to regulate the water flow
- Cover protection of the testing zone, eliminating possible damage to the operator and reducing ambient noise
- Ready for use delivery (plug & operate)
- Spraying nozzle and hose for cleaning included
- Quick release fasteners for screens and cups
- Automatic process controlled by a counter

### Description

Fiber length is a fundamental property of pulp. The Bauer McNett fibre classifier consists of up to 5 narrow tanks 255 mm deep, 127mm wide und 320mm high, mounted in a cascade arrangement, with screens of 335 cm<sup>2</sup> mounted on the flat side. A vertical, cylindrical agitator with short paddles rotates at 580 rpm near one semi-circular end of each tank. This causes the suspension in each tank to flow horizontally across the screen and circulate around the tank. An overflow weir is provided at the outgoing side of each screen, and a short pipe leads to the next tank with a finer screen, at a slightly lower level, or from the last tank, to drain away. A flow regulator supplies water at the rate of 11.35 l/min to the first tank. The motion of the water keeps the fibres from settling and presents them repeatedly to the screen through which they will pass if their length is less than twice the screen opening.



Cascade classifiers containers

### Test description

With the screens correctly mounted in the tanks, turn on the water so that the constant level tank overflows. The water supplied to the tanks should then flow at the rate of 11.355 L/min. As soon as the lowest tank starts overflowing, press the ON button of Agitation and simultaneously start to pour the prepared sample of 3333 ml with 24 g of moisture-free pulp during a period of 18 seconds into the top tank.



A green lamp shows that the agitation is in progress. During this time the drainage cups are furnished with weighed and marked filter papers. After the test (20 minutes according to TAPPI, 15 minutes according to SCAN) the stirrers will stop automatically and the green lamp of agitation goes out. Now shut off the water and as soon as the overflow from the last tank has nearly ceased, press the ON button of Vacuum for drainage after the completion of the agitation period.

After the tank has been drained, the screen and tank is flushed carefully with the provided hose. When all the tanks are emptied, press the OFF button of Vacuum. Then, open the drainage cups and take out the pads and fold them into semicircles. Remove as much water as possible using a wringer, a blotter or towel. Finally, dry the pads in an oven at 105°C to constant weight and then weight each to within 0.01 g.

**Models:**

- Bauer McNett Fibre Classifier CF4 Model (4 tanks)
- Bauer McNett Fibre Classifier CF5 Model (5 tanks)

**Standard Screens according to ASTM:**

- 16 Mesh
- 30 Mesh
- 50 Mesh
- 100 Mesh
- 200 Mesh

Other available upon request



Classifier screen frames

**CONNECTIONS:**

Electrical: 380V/50 or 60Hz / 3-phase  
 Water supply: 2 bar min, Drain: 3/4" Hose

**DIMENSIONS AND WEIGHT:**

Dimensions: 860 x 365 x 620 mm (M x D x H)  
 Box for transport: 1480 x 470 x 1250 mm (M x D x H)  
 Weight Net/Gross: 250 Kg / 360 Kg

**DELIVERY CONTENT:**

- > Bauer McNett Fibre Classifier
- > Flow meter
- > Spraying nozzle
- > Vacuum Pump
- > Cover protection



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