

Pulp Tester



Canadian Standard Freeness Tester (CSF)

For measuring the rate of drainage of pulp suspensions and expressing it in terms of Canadian freeness.



Manual Model

- Opening a hand valve starts the sequence
- Visual read out directly on the measuring beakers

Digital Model

- Touch of a button starts the test sequence
- Digital display of the measured data with an accuracy of 1 °CSF
- Digital display of drainage times
- Temperature compensation by temperature sensor
- Drainage curve via ProbeNet



✓ ProbeNet-capable

Digital version with temperature compensation

MOST IMPORTANT BENEFITS:

- ✓ Robust housing made of stainless steel
- ✓ Filling chamber and separating funnel made of special
- ✓ Temperature compensation with sensor
- ✓ Calibrated sieve plate and draining nozzle

 **FRANK-PTI**
QUALITY TESTING INSTRUMENTS

SUBSIDIARY OF  *Fol-Hansson*

 **M.C. TEC**

Sales and service benelux

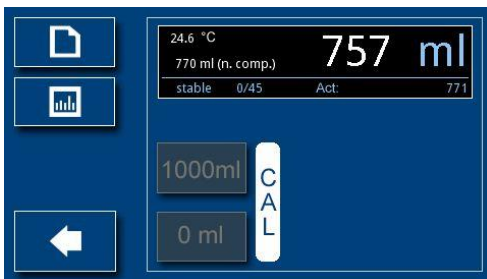
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PRODUCT DESCRIPTION

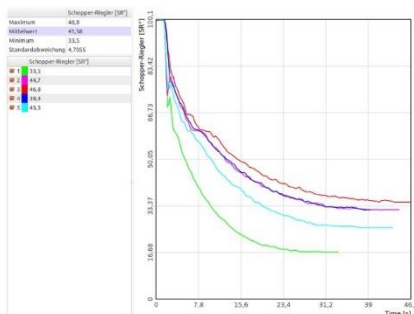
The drainage chamber and filling chamber are mounted on a robust stainless steel frame. The filling chamber has a calibrated perforated screen plate at its lower end and drains into the spreader cone. It is closed from above and below by a cover. The upper cover is equipped with an air valve, which is used to start the process. The spreader cone drains into a calibrated nozzle and a drainage pipe mounted on the side.

TEST DESCRIPTION

The pulp sample (3 g pulp), prepared with the standardized disintegrator, is poured into the filling chamber with the bottom closed. The cover and air valve are both closed and then the bottom cover is opened. Since no air can enter the filling chamber, the pulp suspension remains in the filling chamber until the air valve is opened. The suspension falls through the perforated screen leaving a fibre mat behind while the filtrate drains through the spreader cone into a measuring beaker. Within the spreader cone there is a calibrated nozzle that allows only a small amount to flow through. The excess liquid runs through the side drain pipe into another measuring beaker.



Test screen during measurement



Draining curve visible via ProbeNet

TECHNICAL DATA

DEVICE / INSTRUMENT

- Housing made of robust stainless steel
- Filling chamber and separating funnel made of lightweight special plastic
- Nozzle and sieve plate calibrated
- With temperature compensation according to standard
- Drainage curve can be displayed via ProbeNet
- In scope of delivery:
 - Sieve plate calibrated acc. to PAPTAC
 - 2 °CSF measuring cylinders

APPLICABLE STANDARDS

ISO 5267-2
TAPPI T 227
*more standards on request

MEASUREMENT

Unit:	
Version dig.	ml / temp in C° / ml-compensated
Version pneu./man.	CSF in ml (read manually on the beaker)
Accuracy:	1ml
Statistics	min. / max. / mean / standard def.

CONNECTIONS

Power supply:	230V/50-60Hz
(only digital version)	<25W
Water:	no
Compressed air:	no

DATA

RS232:	Data output
Ethernet:	Data output / MQTT
USB:	Updates / service / printer
*only digital version	



S955871013 SR and CSF freeness cylinder plex

Artikelnr. S41510



S415100001 CSF version manual

Version
S415100001/3

L x W x H
330 x 380 x 1000 mm

Weight:
S415100003
S415100001

net / gross
34 kg / 65kg
28 kg / 60

ARTICLE / MODELS

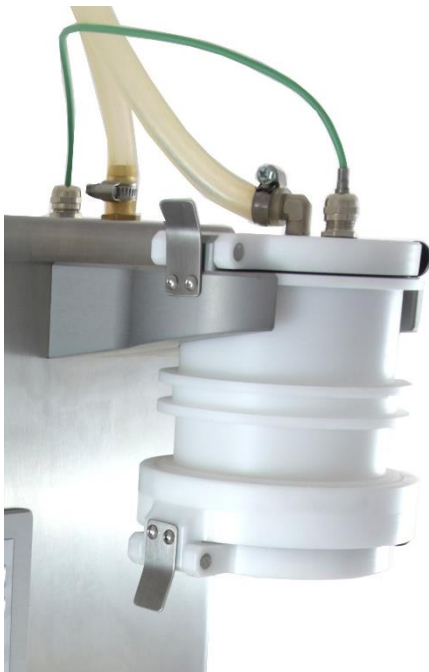
S415100001	Canadian Standard Freeness Tester (CSF) manual
S415100003	Canadian Standard Freeness Tester (CSF) digital with temp. comp.

Recommended Accessories:

S955871013	SR and CSF freeness cylinder plex
S406900001	ProbeNet software with one device license *requirements and information on request

For sample preparation:

S955680001	Desintegrator
S955681001	Acrylic glass container for desintegrator
S955681002	Stainless steel container for desintegrator



Filling chamber – digital version



Separating funnel – digital version