



## FIBRE THERM- AUTOMATED FIBRE ANALYSIS

FIBRE THERM offers the fully automated processing of the boiling and filtration steps for the fibre analysis. FIBRE BAGS must be ordered separately.

### Technical Data FIBRE THERM

Data	FIBRE THERM
Hotplate	Infrared glass ceramic
Capacity boiling vessel [l]	1,8
Cooling water connection on the unit	2 x 3/4 Inch thread
Required cooling water connection in the lab	2 x 1/2 Inch thread
Cooling water pressure [bar]	1 - 6
Cooling water consumption [l/min]	ca. 5
Compressed air pressure [bar]	4 - 5
Nominal voltage [V]	230
Frequency [Hz]	50
Current [A]	8,5
Nominal wattage [W]	1900
Interface	2 x RS 485
Dimensions W / D / H [mm]	340 / 640 / 860
Weight [kg]	ca. 42

### Order Information FIBRE THERM

Order No.	Type	Description
13-0026	FT12	FIBRE THERM 12-place complete system, version 230 V, 50 Hz incl.: 12 x Glass Spacer, Tubing connection set, Sample carousel-12-place, 12 x Fibre-Bag fixing cones, Drip tray
13-0032	FT12	FIBRE THERM 12-place complete system, version 230 V, 60 Hz (only on request) incl.: Equipment identical with standard version

## FIBREBAG-SYSTEMS - MANUAL FIBRE ANALYSIS

C. Gerhardt offers 2 simple systems, which require the user to do the boiling and filtration steps manually. FIBREBAGS must be ordered separately.

### Technical Data / Order information FIBREBAG-SYSTEMS



Order No.	Type	Description
10-0013	FBS6	<p>FIBREBAG-System 6-place</p> <p>Manual system for the simultaneous handling of up to 6 samples, Scope of delivery:</p> <ul style="list-style-type: none"> <li>1 x Single heater 450 W, 230 VAC</li> <li>1 x Beaker 1000 ml</li> <li>1 x Carousel 6-place incl. handle</li> <li>6 x Glass spacer</li> <li>1 x Support stand with ring</li> <li>1 x Condenser made of glass with tubes</li> </ul> <p>Dimensions W / D / H [mm]: 250 / 230 / 600</p>
10-0015	FBS36	<p>FIBREBAG-System 36-place</p> <p>Manual system for the simultaneous handling of up to 36 samples, Scope of delivery:</p> <ul style="list-style-type: none"> <li>1 x Serial heater 6-place 2700 W, 230 VAC,</li> <li>6 x Beaker 1000 ml</li> <li>6 x Carousel 6-place incl. handle</li> <li>36 x Glass spacer</li> <li>6 x Support stand with ring</li> <li>6 x Condenser made of glass with tubes</li> </ul> <p>Dimensions W / D / H [mm]: 900 / 230 / 600</p>

## ACCESSORIES AND CONSUMABLES

Make sure to use only original C. Gerhardt spare parts in order to obtain the best possible results. These parts have been tested thoroughly in the C. Gerhardt application lab.

### FibreBags



Order No.	Type	Description
10-0127	FB-ADF	FibreBags ADF, for ADF-/NDF-Determination, 100 pcs
10-0128	FB-ROF	FibreBags RF, for Crude fibre determination, 100 pcs
10-0142	FB-S	FibreBags S, with smaller pore size, especially for very fine grinded samples, 100 pcs

### Glass Spacer



Order No.	Type	Description
10-0124	SPF	Glas Spacer for FibreBags, to open and fix the bags Package with 6 pcs

### External Dosing Unit



Order No.	Type	Description
1004430	EMD	External dosing unit 230 VAC with housing for the automatic addition of amylase, complete with teflon tubings and mains cable Dimensions W / D / H [mm]: 215 / 280 / 185

### Incineration Module



Order No.	Type	Description
13-0092	VAM12T	Incineration module for FibreBags, 12-place, complete with handle and 12 quartz glass crucibles. W / D / H: 130 / 240 / 130 mm (dimensions incl. quartz glass crucibles, without handle)
13-0093	VAM12	Incineration module for FibreBags, 12-place, identical with 13-0092, but <b>without</b> quartz glass crucibles

### Quartz glass Crucible



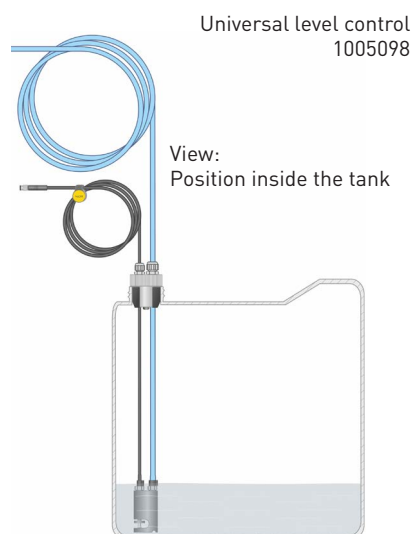
Order No.	Type	Description
13-0048	QTV	Quartz glass crucible incineration, suitable for incineration module 13-0092 and 13-0093 Package with 6 pcs.

### Degreasing module



Order No.	Type	Description
13-0045	EFM6	Degreasing module /ADL-module made of PTFE, for the simultaneous degreasing of up to 6 samples, incl. handle and Beaker 1,000 ml

### Universal level control (for storage tanks)



Order no.	Type	Description
1005098	ID8	Universal level control for reagent storage tank, with self-adhesive cable banner. Suitable for tanks with the following dimensions: - Height = min. 130 mm... max. 2000 mm - For filler neck = min. Ø 40 mm... max. Ø 50 mm
1005721	PA8	Universal level control for sample waste tank, with self-adhesive cable banner. Suitable for tanks with the following dimensions: - Height = all tanks - For filler neck = min. Ø 47 mm... max. Ø 50 mm
12-0560	NIV200	Universal control-Set for 2 reagent storage tanks (for the operation <b>without</b> chemical waste disposal), complete with: - 2 x Universal level control for reagent-tank, No. 1005098 - Distributor box
12-0561	NIV300	Universal control set for 2 reagent-storage tanks and 1 sample waste tank (for the operation <b>with</b> chemical waste disposal), complete with: - 2 x Universal level control for reagent-tank, No 1005098 - 1 x Universal level control sample waste tank, No. 1005721 - Distributor box
1005334		Adapter bayonet catch for universal level control. Accessorie for the connection to older FIBRE THERM systems ( <b>only necessary for systems with serial number older 1755150026</b> )

### Compressor



Order No.	Type	Description
13-0010	L-S20	Compressor for compressed air supply of the SOXTHERM units. Prepared for the operation with SOXTHERM. 230 V, 50 Hz, max. 8 bar., W / D / H mm: 290 / 340 / 340
		Note If connected to the in-plant compressed air supply, no compressor is needed. However, the air must be dried and filtered (5 µ).

### CONNECTION PIECE FOR COMPRESSOR



Order No.	Type	Description
1006270		Connection piece with quick coupling NW 2.7, for connection to compressor no. 13-0010. Allows the connection of up to 4 FIBRE THERM units to only one compressor.

### FIBREBAG-Fixing Cones



Order No.	Type	Description
10-0140	FSI	Fibrebag-fixing cones made of EPDM, for the safe fixing of the Fibrebags inside the sample carousel. Bag with 12 pcs.

### Insert rack (carousel)



Order No.	Type	Description
1003109		Insert rack (carousel) complete with quick clamping handle FIBRE THERM and 12x fixing cones EPDM

### Boiling vessel



Order No.	Type	Description
1003079		Boiling vessel FIBRE THERM, stainless steel, complete mounted with.: Stainless steel pot, Grip, glass ring, seal and centering PTFE

### Spare parts for boiling vessel 1003079



Order No.	Type	Description
1003086		Seal ring for boiling vessel FIBRE THERM 201x190x2 mm, expanded PTFE
1003078		Centering PTFE, Ø 177,5 mm

### Reference Substance



Order No.	Type	Description
10-0129	RFS1	Reference substance 30 g with Certificate For the measurement of crude protein, crude fat, crude fibre
10-0130	RFS2	Reference substance 30 g with Certificate, For the measurement of crude protein, crude fat, crude fibre, ADF <sub>OM</sub> , aNDF <sub>OM</sub>

### Antifoam



Order No.	Type	Description
10-0143	ASL	Antifoam solution for fibre analysis crude fibre, ADF and NDF. Content: 100 ml

### Recirculating Cooler FL



Order No.	Type	Description
10-0046	FL601	Recirculating cooler 230 V, 600 W, for environmentally friendly cooling of FIBRE THERM

## SUPPORT AND SERVICE

In addition to its high quality instruments, C. Gerhardt offers comprehensive services to maintain the functionality and efficiency of your equipment.

### INSTALLATION / EQUIPMENT QUALIFICATION

Order no.	Type	Description
99-0206	ABI-FT	Installation and Instruction FIBRE THERM - Installation and connection of the unit - functional check - operating instructions
99-0209	GQF-FT	Equipment Qualification (IQ/OQ) FIBRE THERM - Installation of the unit and instruction - Installation <b>Q</b> ualification <b>I</b> Q and <b>O</b> perational <b>Q</b> ualification <b>O</b> Q, Guidance for <b>P</b> erformance <b>Q</b> ualification <b>P</b> Q - Training of laboratory personnel with certificate - Individual training certificates, if requested

### SERVICING AND MAINTENANCE CONCEPTS

For detailed information on servicing and maintenance concepts, please contact your local authorised C. Gerhardt representative.

### WORKSHOPS / SEMINARS / APPLICATIONS TRAINING

For detailed information on trainings and workshops, please contact your local authorised C. Gerhardt representative.

## TABLE OF CONFIGURATION

Please arrange the required system

### FIBRE THERM / FIBRE BAG-SYSTEM

Quantity	Order No.	Type	Description

### CONSUMABLES / ACCESSORIES

Quantity	Order No.	Type	Description

### SUPPORT AND SERVICE

Quantity	Order No.	Type	Description

Send offer to:

Customer No.	
Company	
Name	
Address	
Tel.	
E-Mail	
Web	

Presented by:

