

Spectroquant® Thermoreactors

Consistent, thorough digestion

Developed in practice for practice, **Spectroquant® thermoreactors** offer everything you need for perfect sample preparation: reliability, simplicity, safety and future compatibility. Choose from pre-installed programs to avoid errors in routine use, or program your own methods for complete flexibility.



**flexible
selection**

between standard and
individual programs

**easy
handling**

with our clear digestion guide

**two
in one**
temperature zones
instrument (TR 620)

Spectroquant® thermoreactors offer 8 pre-installed digestion programs for routine use

Temperature	Time	Method
148°C	120 min	for COD
148°C	20 min	for COD (rapid digestion method)
150°C	120 min	for COD acc. to USEPA
120°C	120 min	for TOC
120°C	60 min	for total nitrogen, total contents of Cr, Cu, Ni, Pb, Cd, Fe, Zn and Ag
120°C	30 min	for AOX and total phosphorus, cyanide
100°C	60 min	
100°C	30 min	

A description of digestion procedures is provided in the instruction sheets included with the test kits. Special digestion variants can be downloaded from: www.merckmillipore.com/aaf

320**Spectroquant® TR 320**

Ord. No. 1.71200.0001

Standard model for basic use

12 holes | 8 pre-installed programmes

420**Spectroquant® TR 420**

Ord. No. 1.71201.0001

Advanced device for frequent use

24 holes | 8 pre-installed and 8 freely selectable programmes

620**Spectroquant® TR 620**

Ord. No. 1.71202.0001

Two-in-one instrument for flexible use

2 x 12 holes | 8 pre-installed and 8 freely selectable programmes | 2 heating zones, which can be controlled separately

Technical data**Spectroquant® thermoreactors**

TR 320 TR 420 TR 620

Technical data		TR 320	TR 420	TR 620
Scope of delivery	Incl. integrated protective hood for the determination of COD and TOC, as well as of total contents of cadmium, chromium, copper, cyanide, iron, lead, nickel, nitrogen, phosphorus, silver, and zinc.	■	■	■
Display	LCD display for temperature and time, desired and actual values for heating time and temperature continually shown in the LCD display	■	■	■
Heater	On/off display (the LED blinks red during the heating phase and is permanently on during the digestion phase), contact guard on the surface of the heating-block	■	■	■
Functions	8 pre-installed programs	■	■	■
	8 freely selectable programs		■	■
	Simultaneous digestion of 12 samples	■		
	Simultaneous digestion of 24 samples		■	■
	Free temperature and time selection		■	■
	Two separate temperature-selectable heating zones			■
	Thermosensor and PC cable available		■	■
	AQA documentation for control purposes		■	■
Holes	12 for cell tests ø 16 mm	■		
	24 for cell tests ø 16 mm		■	
	24 (2 x 12) for cell tests ø 16 mm			■
Temperature selection	100°C, 120°C, 148°C and 150°C ±1.0°C	■	■	■
	Room temperature-170°C ±1.0°C		■	■
Controlling accuracy	±1°C ±1 digit	■	■	■
Timer	0 - 180 min freely selectable		■	■
Heating time	8 temperature heating-time programs for simplest possible operation: 148°C (20 min or 120 min), 150°C (120 min), 120°C (30 min, 60 min or 120 min), 100°C (30 + 60 min) automatic power switch-off at the end of the heating time	■	■	■
Mains version	115 V~ / 230 V~, 50 Hz / 60 Hz convertible	■	■	■
Dimensions	180 x 245 x 292 mm (H x W x D)	■	■	■
Weight	2.85 kg	■		
	3.6 kg		■	■
Optional accessories	Thermosensor: heating-block temperature-monitoring option via integrated serial interface and control software for AQA, brass adapter with integrated Pt sensor fitting the holes incl. connector cable (for checking equipment)		■	■

Thermosensor for thermoreactors TR 420/620

Ord. No. 1.71203.0001

The thermosensor measures the current temperature in the bore of the thermoreactor and compares it with the specified temperature. The results can be transmitted to a PC for documentation purposes.

PC cable for thermoreactors TR 420/620

Ord. No. 1.71204.0001