

Dumatherm – The Obvious Choice in Nitrogen/Protein Analysis

MODEL	DUMATHERM	ELEMENTAR RAPIDN/NCUBE	LECO TRUSPEC N™
AUTOSAMPLER POSITIONS	40, 80, 120	30, 60, 90, 120/ 60, 120	30, 60, 90, 120
POSSIBLE MAXIMUM SAMPLE WEIGHT	UP TO 1 GRAM	UP TO 1 GRAM	UP TO 1 GRAM
REALITY - TYPICAL SAMPLE WEIGHTS	UP TO 1 GRAM	200-400 MG	200-400 MG
ALL COMBUSTION GASES ANALYZED	YES	YES	NO (ALIQOT)
DETECTOR	INOVATIVE TCD	CLASSIC TCD	CLASSIC TCD
DAILY CALIBRATION ADJUSTMENT	NO	YES	YES
ANALYSIS TIME	3 TO 4 MINUTES	5 TO 7 MINUTES	4 TO 6 MINUTES
USAGE OF MAGNESIUM PECHLORATE	SMALL AMOUNT TO REPLACE EVERY 1500 ANALYSIS	SICOPENT	LARGE AMOUNT ALMOST DAILY
NUMBER OF VALVES	10	25	35
LANCE	NO	CERMAIC LANCE THAT MAY REQUIRE DAILY REPLACEMENT	EXPENSIVE QUART LANCE, DIFFICULT TO REPLACE
NUMBER OF O-RINGS	8	24	35
COMBUSTION TUBE	STRAIGHT QUARTZ WITH CATALYST - VERY INEXPENSIVE	TWO STAINLESS STEEL TUBES - EXPENSIVE	U-SHAPED QUARTZ WITH DUST FILTERS - EXPENSIVE
DOWN TIME TO REPLACE COMBUSTION TUBES	5 MINUTES	HOURS	HOURS
USE OF EXPENSIVE SICOPENT	NO	YES	NO
NUMBER OF RUNS TO CALIBRATE LINEARITY	5 TO 8	20+	20+
USE OF OXYGEN	100-500ML PER SAMPLE	850ML PER SAMPLE	4500ML PER SAMPLE

FURNACE CRUCIBLE	CERAMIC, REPLACEMENT TIME LESS THAN 1 MINUTE	STEEL, NEEDS CLEANED OFTEN, 16 STEP PROCEDURE TO REMOVE	CERAMIC
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