

LABORATORY REFRIGERATOR / FREEZER COMBINED

417-TD



Product description

- Great capacity vs footprint
- A two-in-one equipment with separated temperature control in each chamber, great space saving on a lab
- Precise temperature control
- Exterior: corrosion resistant treatment and epoxy powder coated
- Inside: stainless steel
- High durability and easy-to-clean
- Excellent technology that provides even more precise results.

Technical Characteristics

- Ecological refrigeration system, no CFC
- Thermal isolation with low temperature dissipation, magnetic sealed door
- Temperature control and reading through sensor PT100 with 0,1°C resolution
- Size flexibility from 86 to 600liters (check technical specification chart)
- Smart defrost system for better performance and thermal balance, no need for a stop to maintenance.

Technical Specifications

Refrigerator temperature range	0°C to 20°C
Freezer temperature range	-20°C to 0°C
Temperature control	PID
Temperature control resolution	± 0,1°C
Display Resolution	Colored 4 digit TouchScreen
Temperature sensor	PT 100
Output	4 to 20mA
Inner capacity câmara fria	180 L
Inner capacity freezer	120 L
Defrost system	Smart eletric
Refrigeration system	Hermetic compressor
Refrigeration gas	R134a
Heating system	Stainless steel tubular resistance
Protection grade	IP 20
Electrical specs	110V or 220V 50Hz/60Hz

OPTIONAL



- Qualification protocols IQ, OQ and PQ
- Software for RDC 301 and GAMP5 requirements
- RS 485 output

ethik EXCLUSIVE SOFTWARE



Better user interaction software, for easy and clear operation.



Easy and simple control programming of temperature on a colorful and graphic interface on a 3" screen.



Saves up to 10 different programs for ramp/soak (60 segments each) with the possibility of naming each program.



Exclusive security system which allows access control (LOGIN) for every user.



Programmable software for visual alarm activation in case of higher or lower temperature than set point, and temperature differential.

INCLUDED ACCESSORIES AND COMPONENTS



- Wired tray
- Mechanical adjustable security thermostat
- Side access to each chamber for cables and tubes
- Operational manual
- RBC Calibration Certificate, for temperature controller
- Connection for Data Logger (4 to 20mA)
- Audio and visual open door, exceeded temperature rate and defrost alarm
- Shutting down circulation device when door opens

Laboratory refrigerator/ Freezer combined 417-TD information

SIZE	INTERIOR				EXTERIOR			
	WIDTH mm	DEPTH mm	HEIGHT mm	INTERN VOLUME L	WIDTH mm	DEPTH mm	HEIGHT mm	EXTERN VOLUME L
Refrigerator (superior)	500	450	800	180	644	780	2027	1012
Freezer (inferior)	500	450	550	124				

SIZE	WEIGHT Kg	ELETRICAL SPECS W	TRAY AMOUNT SUPPORT	TRAYS	MAXIMUM WEIGHT PER TRAY Kg	DOORS
Refrigerator (superior)	120	1700 Total	5	2	20	1
Freezer (inferior)			3	1	20	1