

TEMPERATURE CONTROL UNIT TCU

A temperature control unit (TCU) provides controlled temperature water (coolant) to a group of secondary sample coolers in order to ensure closely controlled sample temperatures.

A temperature control unit (TCU) systems are pre-designed available in sizes from 3 tons, 5 tons and 9 tons water-cooled.



Applications:

- Steam & Water Analysis Systems.
- Grab Sampling systems.

Features:

- Condenser water stainless steel heat exchanger
- Thermostatic valve for regulating the pressure of condensation water
- Wide condenser cooling water temperature range: 8°C @ 25°C.
- Cooling water at a precisely-controlled temperature with $\pm 2^\circ\text{C}$ accuracy.
- Self-contained with all necessary controls, pumping and refrigeration systems.
- Local display provides quick operational snapshot.

TEMPERATURE CONTROL UNIT

TCU

Models		TCU 3T	TCU 5T	TCU 9T
General				
Nominal cooling capacity	W	12.300	20.700	32.800
Type of fluid		Water		
Range fluid temperature	°C	+8 / +25		
Temperature accuracy	°C	±25		
Refrigerant	HFC	R-410 A		
Power supply				
Operating voltage	V / ph / Hz	400 V / 3 ph / 50 Hz 480 V / 3 ph / 60 Hz		
Compressor				
Type		Scroll		
Max absorbed power	Kw	4,7	7,4	11,6
Hydraulic circuit				
Type of pump		Centrifugal		
Flow rate nom/max	l / min	40	70	110
Nominal pressure	bar	1,5	1,5	1,5
Dimensions & connections				
Dimensions	mm	1.351X1.220X744	1.351X1.220X744	1.760X1.370X850
Weight	Kg	350	350	540
Condenser connection		1"	1"	1 1/2"
Evaporator connection		1"	1"	1 1/2"
References				
Models	Name			Units
TCU 3T	Temperature Control Unit 3T			1
TCU 5T	Temperature Control Unit 5T			1
TCU 9T	Temperature Control Unit 9T			1

Referred to following conditions: Fluid water, temperature IN 25°C, temperature OUT 15°C