Tenney

When you think of value, think of the Tenney

Benefits:

- Robust design delivers consistent, reliable, repeatable results that lead to higher productivity

- Programmable controller - Watlow F4 - is very intuitive - easy to set up and user-friendly

- Constructed for long life and thermal integrity

Standard Features

- Watlow F4 controller
- Solid state humidity sensor
- Platinum RTD temperature sensor
- Heavy duty leveling casters
- Nichrome wire air heater
- Solid state pressure switches
- Backup safety thermal cutoff
- Chamber vent port
- Communications - RS485 and RS232

-73° C

200° C

All new energy saving design

Workspace size: 10 cubic feet

Global support network

20% - 95% RH

Options

- Shelves
- FM approved safety OTP
- Ethernet port
- Heated viewing glass window
- Chamber light
- UL 508A compliant
- Main electrical disconnect

[One year parts and labor warranty]

Shown with Optional Window and Main Electrical Disconnect

SPX

THERMAL PRODUCT SOLUTIONS

www.tenney.com/tc

> Tenney

Controller Features

- Single or Dual Channel
- Profiling: 40 Profiles, 256 Steps
- Automatic & Manual Control
  1 Input: Universal Type (RTD is Std.)
- 4 Digital Inputs
- 2 Control Outputs: Time Proportioned, On/Off, or 4-20 ma
- 2 Alarm Outputs
- 8 Digital Event Outputs
- 2 Retransmit Outputs - Optional
- Communications: EIA-232 and EIA-485 with Modbus RTU protocol

Model	TC10S	TC10C	TC10RS	TC10RC
Cubic Feet	10			
Liters	283			
Work Space (W x D x H)	24" x 27.5" x 28" / 61 cm x 69 cm x 71 cm			
Exterior (nominal) (W x D x H)	33.625" x 59.121" x 73.898" / 86 cm x 151 cm x 188 cm			
Unit Weight (LBS)	1000	1154	1000	1154
Temperature Range	-35°C	-73°C	-35°C	-73°C
	200°C	200°C	200°C	200°C
Humidity Range *	-	-	20% - 95%RH	20% - 95%RH
Cooling Rate (empty chamber) Min (C/min)				
180C to -65C	-	77 (3.1)	-	77 (3.1)
180C to -35C	71 (3)	56 (3.8)	71 (3)	56 (3.8)
125C to -35C	60 (2.6)	41 (3.9)	60 (2.6)	41 (3.9)
85C to -20C	28 (3.7)	25 (4.2)	28 (3.7)	25 (4.2)
85C to -35C	53 (2.2)	30 (4)	53 (2.2)	30 (4)
ambient to -35C	31 (1.9)	16 (3.7)	31 (1.9)	16 (3.7)
ambient to -68C	-	38 (2.4)	-	38 (2.4)
Heating Rate (empty chamber) Min (C/min)				
-65C to 180C	-	35 (7)	-	35 (7)
-35C to 180C	30 (7.1)	31 (6.9)	30 (7.1)	31 (6.9)
-35C to 125C	20 (8)	20 (8)	20 (8)	20 (8)
-20C to 85C	11 (9.5)	13 (8)	11 (9.5)	13 (8)
-35C to 85C	10 (12)	14 (8.5)	10 (12)	14 (8.5)
-35C to ambient	6 (10)	7 (8.5)	6 (10)	7 (8.5)
-68C to ambient	-	10 (9.3)	-	10 (9.3)
Live Load Watts @ -18C	950	1450	950	1450
Live Load Watts @ -40C	-	1050	-	1050
Live Load Watts @ -54C	-	800	-	800
Temperature Control	±0.3°C after stabilization			
Temperature Uniformity	±3°C @ 65°C			
Humidity Control	-	-	±2% RH	±2% RH
Air Flow Rate	275 CFM			
Heat Capacity	3KW			
Humidifier Capacity	-	-	2KW	2KW
Refrigeration	2 HP	(2) 2 HP	2 HP	(2) 2 HP
Condenser	Air Cooled - Std Water Cooled - Option			
Power	208V - 230V 1P 60Hz			
Amp - Fuse	40	60	50	60
Amp - Under Load	32	45	40	45
Power	460V 1P 60Hz			
Amp - Fuse	20	30	30	30
Amp - Under Load	16	23	20	23

Performance estimates based on 230v 1P 60Hz
*Humidity Range: based on temperature range 20°C to 85°C limited by 3°C dewpoint

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