

TTV Control Units are systems for operating TTVs with their electronic test board (ETB). They combine a robust industrial control computer, a DAQ unit and power supplies in one device. The I/O and the pre-installed Nanotest TTV Control software enable a plug and play workflow for thermal tests. TCU systems are available in multiple sizes, from compact 19" units to full rack solutions, depending on required heater zones, output power, and expansion level.

The TCU is available in flexible 19" rack configurations to accommodate different testing requirements, heater-zone counts, and power levels:

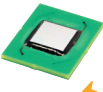
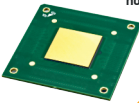
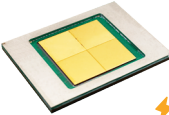
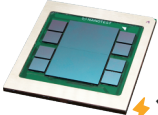
- 4 HU desktop rack**
 - TCU 1
 - TCU 4
 - TCU 6

22 HU tower rack with casters
 - TCU 9
 - TCU 12
 - TCU 18
 - TCU 24

Different adapters are required to ensure compatibility between the TTVs and the various TCUs.



COMPATIBILITY MATRIX

		NUMBER OF HEATERS / max. POWER			
TTV		TTV5	TTV10	TTV16	TTV200
		 140w	 no Adapters required 2kw	 5kw	 12kw
		1 independent heater zone	4 independent heater zones	24 independent heater zones	48 independent heater zones
CONTROL UNIT	TCU1 1 power supply	✓	✓ 500w	✗	✗
	TCU4 4 power supplies	✓	✓	✓ 2kw	✗
	TCU6 6 power supplies	✓	✓ 720w	✓ 2.8kw	✓ 3.5kw
	TCU9 9 power supplies	✓	✓	✓	✗
	TCU12 12 power supplies	✓	✓	✓	✓ 8kw
	TCU18 18 power supplies	✓	✓	✓	✓ 10kw
	TCU24 24 power supplies	✓	✓	✓	✓

Compatible

Not compatible

max. Power at 25°C up to

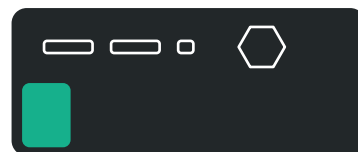



10kw

TCU 1

Controllable Heater Zones	1
Max. Power Output	800 W
Operating System	Windows IoT
Supply Voltage Range	100 – 240 V (1-phase AC)

Supply Line Frequency	50 Hz/60 Hz
Power Distribution Unit	N/A
Weight	22.5 kg
Dimensions (h x w x d)	44 x 17.5 x 51 cm ³



TCU 4

Controllable Heater Zones	4
Max. Power Output	3.2 kW
Operating System	Windows IoT
Supply Voltage Range	100 – 240 V (1-phase AC)

Supply Line Frequency	50 Hz/60 Hz
Power Distribution Unit	N/A
Weight	25 kg
Dimensions (h x w x d)	44 x 17.5 x 51 cm ³



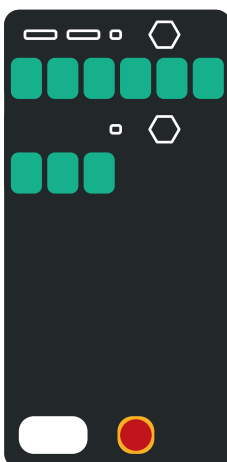
TCU 6

Controllable Heater Zones	6
Max. Power Output	4.8 kW
Operating System	Windows IoT
Supply Voltage Range	200 – 240 V (1-phase AC)

Supply Line Frequency	50 Hz/60 Hz
Power Distribution Unit	N/A
Weight	30 kg
Dimensions (h x w x d)	44 x 17.5 x 51 cm ³

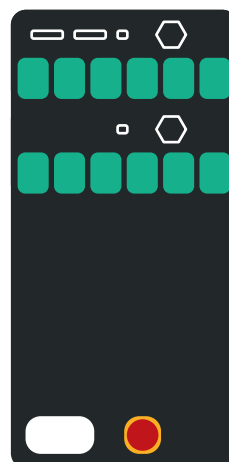


TCU 9



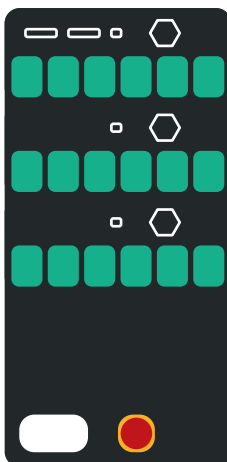
Controllable Heater Zones	9
Max. Power Output	5 kW
Operating System	Windows IoT
Supply Voltage Range	380 – 400 V (3-phase AC)
Supply Input Current	32 A CEE Plug
Supply Line Frequency	50 Hz/60 Hz
Power Distribution Unit	Yes, w. E-stop
Weight	110 kg
Dimensions (h x w x d)	117 x 60 x 80 cm ³

TCU 12



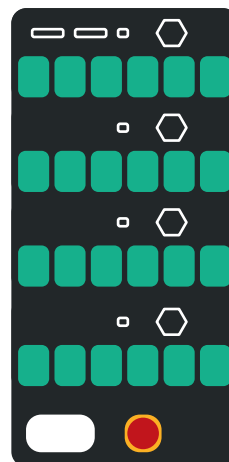
Controllable Heater Zones	12
Max. Power Output	10 kW
Operating System	Windows IoT
Supply Voltage Range	380 – 400 V (3-phase AC)
Supply Input Current	32 A CEE Plug
Supply Line Frequency	50 Hz/60 Hz
Power Distribution Unit	Yes, w. E-stop
Weight	140 kg
Dimensions (h x w x d)	117 x 60 x 80 cm ³

TCU 18



Controllable Heater Zones	18
Max. Power Output	15 kW
Operating System	Windows IoT
Supply Voltage Range	380 – 400 V (3-phase AC)
Supply Input Current	32 A CEE Plug
Supply Line Frequency	50 Hz/60 Hz
Power Distribution Unit	Yes, w. E-stop
Weight	170 kg
Dimensions (h x w x d)	117 x 60 x 80 cm ³

TCU 24



Controllable Heater Zones	24
Max. Power Output	20 kW
Operating System	Windows IoT
Supply Voltage Range	380 – 400 V (3-phase AC)
Supply Input Current	32 A CEE Plug
Supply Line Frequency	50 Hz/60 Hz
Power Distribution Unit	Yes, w. E-stop
Weight	200 kg
Dimensions (h x w x d)	117 x 60 x 80 cm ³