

COOPERHEAT TRANSFORMER POWER UNIT (6 & 12 OUTPUT CHANNEL)

Compliance with international heat treatment codes and standards requires equipment that can provide accurate control of the heat treatment specification parameters, including uniformity of temperature throughout the geometry of the work piece. As part of our commitment to continuing innovation, Cooperheat's 50kVA and 70kVA Heat Treatment Modules include our unique Advantage 3 temperature programmer/controllers which ensure the required temperature uniformity within each control zone. The design of our equipment is based on over 50 years experience as a market leader in the field of heat treatment and has been developed to meet the real needs of the heat treatment engineering industry.

Features:

- Outputs per channel for both 30V or 60V heaters (40V and 80V output units also available)
- Advantage 3 operates in °C or °F
- Unique 'Advantage 3' programmer/controller linking

features allow the operator to carry out up to 6 heat treatment cycles simultaneously

- Each Advantage 3 communicates with other controlling zones on the same heat treatment. This controls and limits the differential between each control zone within the work piece being heated
- Displays set point and work piece temperature
- LED shows power on for each output channel
- Connector block provided for simple connection of primary supply cable
- Constructed from high-grade stainless steel giving excellent protection against corrosion, including marine offshore applications
- Core winding thermostats provide automatic protection against transformer coil overheating
- Primary over-current protection provided by a 3-phase circuit breaker
- Safe voltages employed. Voltage to earth from any single output socket is 32.5V a.c.



6 Way	12 Way	kVA Rating	32.5V—0V—32.5V Output	Max Current Per Output Channel	Temperature Controllers
16050		50	•	Each heater rated @ 45Amps (Total 135A per channel)	ADV'3s
16051		70	•	Each heater rated @ 45Amps (Total 180A per channel)	ADV'3s
	16059	70	•	Each heater rated @ 45Amps (Total 90A per channel)	ADV'3s
	16100	100	•	Each heater rated @ 45Amps (Total 135A per channel)	ADV'3s

BASIC SPECIFICATION OF COOPERHEAT TRANSFORMER POWER UNITS (6 & 12 OUTPUT CHANNEL)

TRANSFORMER CORE

- Three phase, forced air cooled, class H,
- Primary winding connected in Delta
- Secondary winding connected in Star
- Auxiliary winding: 110V a.c. 3.3kVA single phase

PRIMARY SUPPLY

- Primary voltage: 380V, 415V, 440V
- Frequency: 50/60Hz

PROTECTION

- Three phase circuit breaker with shunt trip
- Three primary core winding over temperature thermostats thermal trips linked to circuit breaker shunt trip

SECONDARY OUTPUTS

- Output: 32.5V – 0V – 32.5V (for 30V and 60V heating element operation)
- Auxiliary outputs: Two 110V, centre tapped @ 5A, output sockets

CASE & MOBILITY

- Case: 304 Stainless steel case complete with two off fixed and two off swivel/braked 150mm rubber wheels
- Lifting Method: Fork lift under base

TEMPERATURE CONTROL

- Temperature measurement, display and control
- Degrees Fahrenheit or Degrees Centigrade
- Start temperature
- Temperature ramp up and down in degrees per hour
- Hold/soak temperature set point and hold/soak time period setting

MAINS CONNECTION

- The units are complete with 4.5m of four core primary cable

SWITCHING

- Double pole, 180A, contactors with 110V a.c. coil