

Resistance

Technical documentation

Product Description: 50kVA Mobile Heat Treatment Unit

This 50kVA six control channel unit, utilises six P159TDA temperature controller/ programmers, to provide power and temperature control of up to eighteen ceramic pad heating elements rated at 65V, 45A, 2.7kW. This controlled power is used for preheating or post weld heat treatment of pipe welds, fabrication welds and other fabrications requiring controlled heating.

Applications

This unit has been designed and manufactured for use on site in a variety of global industrial environments or inside a workshop. The chassis trolley design enables the unit to be easily moved around in typical site conditions.

Features

The front control panel includes:

- Six P159CF single channel temperature controller/ programmers
- Six energy regulators
- Six auto/manual selector switches which allow the use of a six channel external temperature controller/programmer
- Six type K thermocouple panel mounted input sockets
- Twelve 0V and 65V output , 300A, panel mounted twistlock sockets.

The rear panel includes:

- Ventilation fan
- Moulded case circuit breaker (MCCB)
- Multi pin panel mounted plug for use with external temperature controller/ programmers, six type K panel mounted thermocouple output sockets for connection to external temperature recorder.

Three 110V auxiliary sockets for supplying power to:

- External temperature recorder
- External six channel temperature controller/programmer
- Thermocouple attachment unit (TAU) for recharging.



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Specification	Three phase, 380V (75A), 415V (69A) or 440V (65A)
Primary Input Supply Voltage and Current	50/60Hz
Frequency	65V a.c.
Secondary Output Voltage	50kVA Natural air cooled, class H.
Transformer coil	Eighteen
Maximum total number of 2.7kW heating elements	Three per channel: Six per phase
Maximum 2.7 kW heaters per channel and per phase	Over temperature sensor in each winding and 3 phase MCCB with shunt trip
Protection	Type K (NiCr/NiAl)
Thermocouple Input and output	Six P159TDA controller/programmers : Range 0 to 1200° C (0 to 2200° F)
Temperature Control	Six P159TDA controller/programmers: Range: 0
Supply Cable	5m x 4 core SY 16mm ² flexible armoured cable
Switching	Six, UK manufactured single pole 200A contactors
Secondary 65V output connectors	Twelve 300A panel mounted twistlock sockets
Auxiliary Outputs	Three 110V auxiliary sockets
External six channel controller/programmer connection	One 'Bulgin' 7 Pin panel mounted plug
Case	Mild steel, blue powder coated. (stainless steel case available on request)
Dimensions (including wooden packing box)	123cm x 67cm x 108cm
Weight	360 kg
Design Standards	EMC: EN 61326: 1998, LVD: EN 61010-1: 2001

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