

TECHNICAL SPECIFICATION

Transformer Power Unit – (6 Output channel)

Stock Reference: 11000 for 50kVA, 11100 for 70kVA

Stork's transformer units (Mannings model) have achieved a worldwide reputation for cost effective design, quality and reliability having been successfully operated on heat treatment projects in some of the most demanding climates and industrial environments and around the world, for over 50 years.

The unit consists of a robust, natural air cooled, 3 phase transformer which is built into a compactly designed, strong, steel case which together provides the unit with a long working life expectancy.

Each output channel is controlled by means of an internal energy regulator working in parallel with a digital temperature controller. Provision is also made for connection to external control from any compatible programmer/control unit. Switching between internal (manual) control or external (automatic) control mode is made via each channel's auto/manual selector switch.

Features:

- Outputs for 60V heaters
- Controllers can be set to operate in °C or °F
- Displays set point and work piece temperature
- Neon shows 'power on' for each output channel
- Fitted with temperature controllers and energy regulators as standard
- Core winding thermostats provide automatic protection against transformer coil overheating
- Primary over-current protection provided by a three-phase circuit breaker
- Multi pin output to connect to external programmer
- Selector switches per channel to allow for internal temperature control or external

Benefits:

- Rapid return on investment
- Six independent temperature controllers allow the operator to control up to six control zones simultaneously
- Rugged, cost effective construction
- Temperature controllers are easy to set and operate
- Safety plugs fitted as standard to all 60V outputs



50kVA Specifications	70kVA Specifications
Transformer Core	
<ul style="list-style-type: none"> • Three Phase, Air Natural, Class 'H', 50kV • Primary winding connected in Delta • Secondary winding connected in Star 	<ul style="list-style-type: none"> • Three phase, forced air cooled, class H, 70kVA • Primary winding connected in Delta • Secondary winding connected in Star
Primary Supply	
<ul style="list-style-type: none"> • Primary voltage: 380V, 415V, 440V • Primary current: 76A, 70A, 66A • Frequency: 50/60 Hz 	<ul style="list-style-type: none"> • Primary voltage: 380V, 415V, 440V • Primary current: 106A, 97A, 92A • Frequency: 50/60 Hz
Protection	
<ul style="list-style-type: none"> • Three phase 100A circuit breaker with shunt trip • Three primary core winding over temperature thermostats linked to circuit breaker shunt trip 	<ul style="list-style-type: none"> • Three phase 160A circuit breaker with shunt trip • Three primary core winding over temperature thermostats linked to circuit breaker shunt trip
Secondary Outputs	
<ul style="list-style-type: none"> • Output: 65V • 6 temperature controlled output channels • Number of temperature controlled output channels: 6 channels • Max load per output channel: three 60V, 2.7kW heating elements • Maximum current per output channel: 135A • Auxiliary Output: Two 110V, 5A, 50/60Hz fused output sockets 	<ul style="list-style-type: none"> • Output: 65V • 6 temperature controlled output channels • Max load per output channel: three 60V, 2.7kW heating elements • Maximum current per output channel: 180A • Auxiliary Output: Two 110V, 5A, 50/60Hz fused output sockets
Control	
<ul style="list-style-type: none"> • Six 110V Energy Regulators • Six 110V Temperature Controllers • One Multi-pin socket for remote programmer • Mode Selection: Six Auto / Manual switches • Indicators: Six 110V neon channel indicators 	<ul style="list-style-type: none"> • Six 110V Energy Regulators • Six 110V Temperature Controllers • One Multi-pin socket for remote programmer • Mode Selection: Six Auto / Manual switches • Indicators: Six 110V neon channel indicators
Dimensions	
<ul style="list-style-type: none"> • Case: Robust sheet steel case complete with four 150mm diameter wheels • Weight: 302kg • Height: 1010mm • Width: 675mm • Depth: 725mm • Lifting Method: Fork lift under base 	<ul style="list-style-type: none"> • Case: Robust sheet steel case complete with four 150mm diameter wheels • Weight: 410kg • Height: 1010mm • Width: 675mm • Depth: 725mm • Lifting Method: Fork lift under base
Mains Connection	
The units are complete with 4.5m of four core primary cable	
Switching	
Contactorised – six off 200A, 110V a.c. solenoid contactors	

