

# Automatic Thermocouple Attachment Unit

100-125V a.c. Stock Reference: 41756  
220-240V a.c. Stock Reference 41757

**Eliminate expensive temperature control and recording errors as well as thermocouple failures!**

Stork's powerful Automatic Thermocouple Attachment Unit (TAU) helps eliminate the risk of expensive rework by enabling accurate temperature control and recording and reducing the risk of thermocouples breaking off during the heat treatment process.

The TAU can also be used to attach thermocouples for many other temperature monitoring applications that require reliable temperature measurement.

**One hand is better than two!**

It can be difficult to attach thermocouples with manual attachment units, which require both hands to operate. Stork's Automatic Thermocouple Attachment Units require only one hand to operate which can be an important safety feature when working at elevated levels or inaccessible locations.

Stork equipment is manufactured incorporating ISO 9001:2000 quality controlled designs. These designs are based upon the results of third party testing for compliance with European Safety Directives and Stork's extensive experience in the field of heat treatment engineering.



## Stork's Automatic Thermocouple Attachment Unit

Direct attachment of thermocouples to the work-piece by the 'capacitive discharge method' has long been established as the preferred industry standard method of attaining accurate temperature measurement of the work piece being heat-treated or monitored.

Stork's Automatic Thermocouple Attachment Unit utilises this method to attach various gauges of thermocouple wire to the work piece.

By means of thermocouple contact sensory circuitry, Stork's Thermocouple Attachment Unit will automatically discharge through the wire a few seconds after the wire comes into contact with the work piece.

### Versatility

- Three power output settings enable the unit to attach 12, 18 and 24 gauge (avg) thermocouple wire
- A stainless steel case allows the unit to be used in all environmental conditions including offshore
- Battery or mains operated
- Available for use with 230V or 110V battery recharging supplies

### Ease of Operation and Maintenance

- Can be operated by one person
- Single handed operation in automatic mode
- Simple to operate
- No welding skills required
- Light weight and portable
- Recharged simply by connecting to the appropriate a.c. supply
- Indicating lights show unit charge status and battery status
- Three power settings can be selected in both automatic and manual operating modes
- Automatic switch off after 3 minutes to save battery power
- Carrying shoulder strap fitted as standard
- Integral storage compartment for safe storage of pliers, magnet and recharging cable

### Fitness for Purpose

- Constructed from high-grade stainless steel giving excellent protection against corrosion even in marine offshore applications
- Capable of 1000 discharges from a fully charged integral nickel cadmium battery
- Third party tested to ensure Electro-Magnetic Compatibility (EMC)

Reliable, Safe and Cost Efficient

**At Stork we deliver excellence in the design, manufacture and product support of Heat Treatment Equipment**

**Call us today for all your heat treatment requirements.**

**STORK®**

Stork Thermal and  
Inspection Services

Stork locations  
worldwide:

- United Kingdom
- The Netherlands
- United States
- Saudi Arabia
- United Arab Emirates
- Australia
- Malaysia
- New Zealand

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## SPECIFICATIONS

Power Consumption	5.0 VA
Battery Voltage	12 Volts
Battery Capacity	2.7 Ah
Thermocouple Diameters	0.5, 1 & 2 mm selectable
Discharge Voltages	50 / 70 / 83 V d.c. nominal
Discharge Energy	12.5 / 25 / 34.5 Joules nominal
Battery Monitor	Monitoring LED and Automatic Full Discharge Protection
Number of discharges	Approximately 1000 on setting 2 at a rate of 200 discharges per day with fully charged battery.
Height	210 mm
Width	215 mm
Depth	90 mm
Weight	4.25 kg

## SPARE REPLACEMENT PARTS

Part Number	Description
ZY-41756/1	100-125 Volts TAU PCB complete
ZY-41757/1	220-240 Volts TAU PCB complete
TH-50RIA40	Thyristor 50RIA100
516-041	16A, 110V, 2P&E plug
530-006	Panel mounting fuse holder 20 mm
530-064	Fuse 20 mm 500 mA (Pack 10)
536-058	Shoulder Strap & Clips
HAR105	Toggle Catches
536-128	Pliers/Magnet Cable Set
538-024	LED Red c/w Ring & Clip
538-025	LED Green c/w Ring & Clip
538-026	LED Yellow c/w Ring & Clip
SWT001	Pushbutton Green
SWT002	Pushbutton Red
HAR150	21 mm Knob black
HAR151	Knob cap 21 mm black
HAR 152	21 mm transparent figure dial
558-027	Battery 12V 3 Ah

## CONSUMABLES

43000	100m roll Type K thermocouple wire
516-111	Type K thermocouple plugs