Transtig T.W.C.U.
Torch Water Cooling Unit

Introduction

This high efficiency torch water cooler has been designed to be used with the Transtig AC/DC 203i or 353i TIG welding equipments although it can also be used as a free standing unit with other similar equipment. It operates from a 230V 1 phase 50Hz electricity supply. The metal enclosure contains a moulded reservoir tank, pump/motor assembly, radiator and cooling fan and water flow detection circuitry. In the event of failure of the water flow an alarm will sound and a warning light will illuminate on the control panel.

Specification

Electricity Supply:	230V ± 10% 1 phase 50Hz (6.3A fuse)
Capacity (excl torch):	5 Litres
Working Temperature:	47°C (300A/22V)
Water Flow Rate:	2 L/min (3.8m TIG torch)
Length:	510mm
Width:	290mm
Height:	250mm
Weight:	17.5Kg

Coolant

Distilled water is normally recommended however, where there is a possibility of the coolant freezing, distilled water with a minimum of 25% glycol antifreeze added should be used.

Installation

1. Attach the torch water inlet hose (blue) to the quick connector marked with the water out symbol.

2. Attach the torch water return hose (red) to the quick connector marked with the water in symbol.

3. Fill the tank with coolant, see above.

4. Connect the mains lead to a suitable 230Vac supply. (This is provided by the Transtig AC/DC 203i & 353i). Check the input is correctly fused at 6.3A.

5. Switch on and allow the coolant to circulate. Note that the audible alarm may sound briefly whilst air is pumped out of the system.

6. Top up the coolant, to level with the top of the sight window.

WARNING!

1. Do not operate the unit without coolant. Check coolant level regularly.

2. Do not operate the unit without a torch connected permitting the coolant to circulate.

Maintenance

WARNING!

Always isolate the unit from the electricity input supply before removing the cover.

1. Check the coolant level regularly. If necessary top up using the same coolant as already used, see above.

2. At least once a year drain the coolant, flush out the system, and refill with fresh coolant.

3. To keep the unit at peak performance, the cover should be removed at regular intervals (at least once per year) and any accumulated dust blown out.

4. If the unit is taken out of service for long periods, the system should be drained, and then refilled with fresh coolant to keep the pump 'wet'. This should keep the seals in good condition.

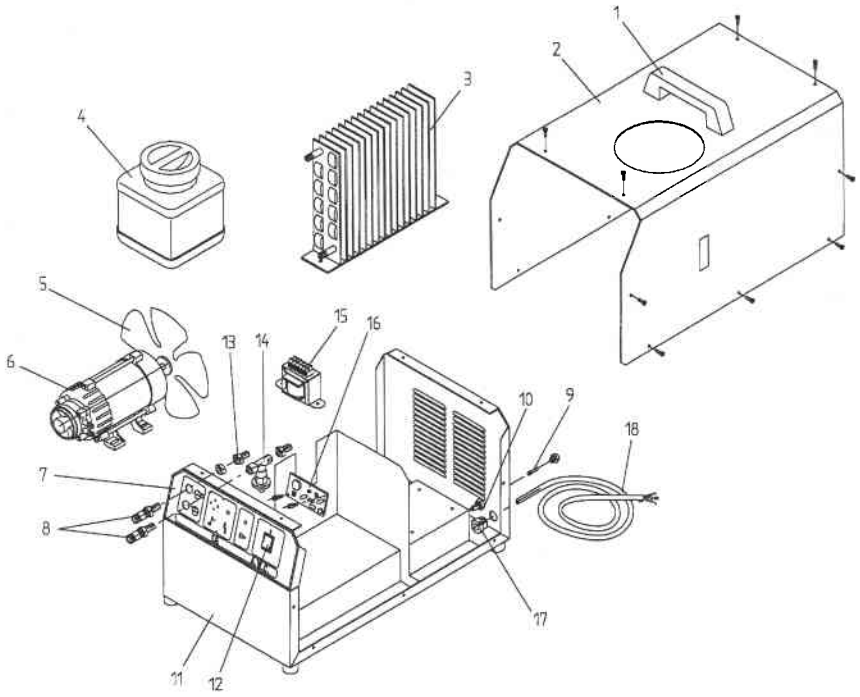
Service

Inspection and repair of this equipment should only be carried out by a suitably qualified person. Defective parts should only be replaced with genuine Murex spare parts, see over.

Warranty

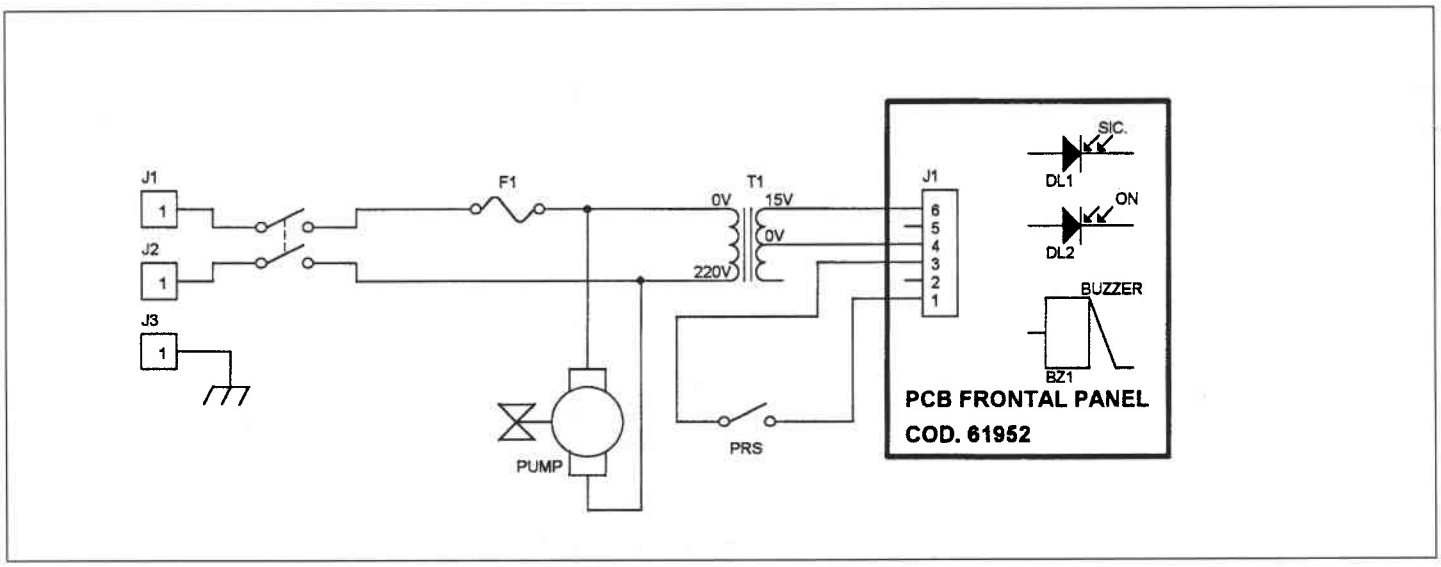
The Transtig T.W.C.U. is guaranteed for a period of 24 months against defects in either materials or workmanship. This warranty excludes failure as a direct result of incorrect use or lack of maintenance. Contact your local approved Murex service centre or distributor.

Parts List



Item	Description	Pt.No.
1	Handle	66184
2	Cover Lid	62015
3	Radiator	63143
4	Reservoir Tank	66302
5	Fan Blade	66303
6	Pump/Motor Assembly	64150
7	Front Plate	66937
8a	Female Coupling Red	63147
8b	Female Coupling Blue	63144
9	Fuse 6.3A Slow	64207
10	Fuseholder	64180
11	Chassis	62016
12	On/Off Switch	64094
13	Coupling	63145
14	Pressure Switch & Coupling	63146
15	Aux. Transformer	64125
16	Indicator PCB	61952

Circuit Diagram



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