



Transcool 351

Torch Water Cooling Unit

Introduction

This high efficiency torch water cooling unit has been designed to be used with the Transtig 203i, 253i or 353i TIG welding equipment, although it can also be used as a free standing unit with other similar equipment. It operates from either a 115V or 230V 1 phase 50 Hz electricity supply. The metal enclosure contains a moulded reservoir tank, motor/pump assembly, radiator, cooling fan and water flow detection circuit. 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:	115V or 230v \pm 10% 1 phase 50 Hz
Capacity (excl torch)	5 litres
Working Temperature	47°C (300A/22V)
Water Flow Rate:	2 lpm (3.8m Torch)
Dimensions (LxWxH):	610mmx290mmx250mm
Weight:	17.5 kg

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 115V or 230V ac supply. (A 230v supply is provided by the Transtig 203i, 253i and 253i). Check the supply is fused at 6.3A
5. Switch on and allow the coolant to circulate. Note that the audible alarm may sound while 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 the torch connected.

Maintenance

WARNING!

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

1. Check the coolant level regularly. If necessary top up using the same coolant as already used.
2. At least once a year drain down 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'.

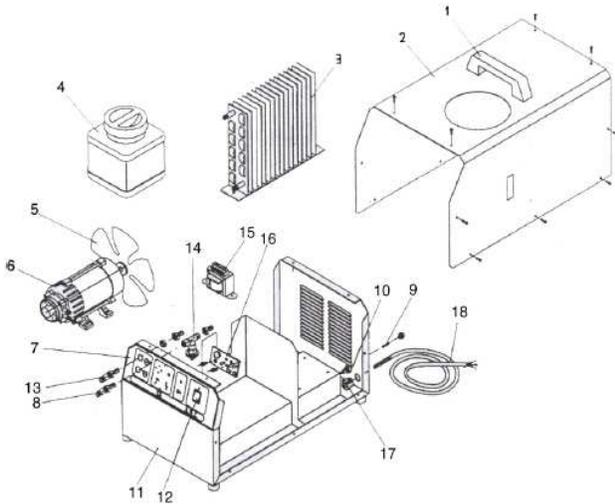
Service

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

Warranty

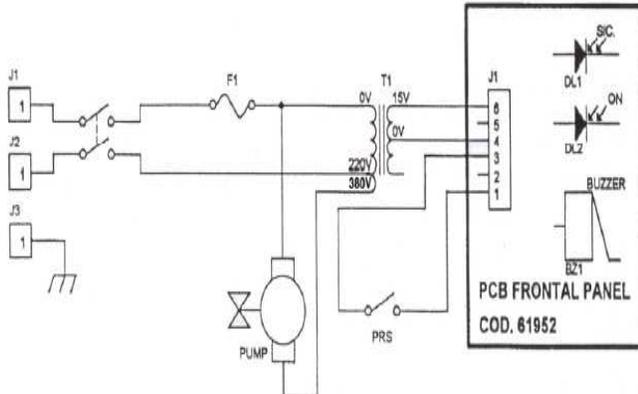
The Transcool 351 is guaranteed for 24 months against defects in either materials or workmanship. This warranty excludes failure as a direct result of incorrect use or lack of maintenance. Contact your local approved Murex service centre or distributor.

Transcool 351 Parts List



Item	Description	Part Number
1	Handle	0700066184
2	Cover Lid	0706200280
3	Radiator	0700063429
4	Reservoir Tank	0700066302
5	Fan Blade	0700066303
6	Pump/Motor Assembly	0700064629
7	Front Plate	0700066937
8	Female Coupling Red	0700063147
9	Fuse 6.3A Slow Blow	0700064207
10	Fuse Holder	0700064180
11	Chassis	0706200270
12	On/Off Switch	0700064056
13	Female Coupling Blue	0700063145
14	Pressure Switch & Coupling	0700063146
15	Aux. Transformer	0700064637
16	Indicator PCB	0700061952
17	Cable Grommet	0700066061
18	Power Cable	0700066490

Circuit Diagram



Wiring Diagram

BLACK + BROWN = 240 V
 BLACK + GREY = 115V
 YELLOW/GREEN = GROUND

