



Pro-Heat 35 Induction Heating

Electrical FAQs



REQUIRED INPUT POWER	OUTPUT VOLTAGE	CURRENT RANGE	AC OUTPUT FREQUENCY RANGE	PRO-HEAT 35 SYSTEM IP RATING
63A	700V	Single Output 350A Dual Output 700A	5-30 KHz	IP23C

IS THERE ISOLATION PROTECTION ON THE OUTPUT AND INDUCTION CABLE?

The output is completely isolated from mains, and is electrically floating. A work piece could be supported or suspended somehow and not be physically connected to physical earth.

The Proheat35 has a Secondary or Blanket isolation fault detection .The blanket isolation detection circuit will switch off the output with in 10ms, if there is less than 30 k ohm of resistance between the output and the chassis of the Pro-Heat 35. Under operational conditions, the isolation detection will only work if the work piece is part of the chassis earth circuit. The most effective way to do this is to connect the work piece, with the magnetic ground lead, from the machine to the work piece.

The isolation fault detection will also work if the machine is adequately connected to the physical earth via the building earth system, and the work piece is also connected to physical earth.

The isolation detection circuit uses 150 volt AC which is present though the entire output circuit, including the extension and heating cables, all of the time.

If there is less than 30 Kohms of resistance between the output and the chassis, the F62 Isolation Fault will occur and the output and the 150Vac will be turned off in 10mS. They will remain off until the fault report is cleared. The isolation fault circuit also works inside of the Pro-Heat 35 on the output circuit, so dust and contamination inside the machine can also cause this fault.



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WHAT COMPLIANCE AUDITS/REPORTS/REGISTRATIONS HAS BEEN PERFORMED UNIT FOR SALE IN AUSTRALIA?

The machine is industrial equipment and as such is not in the scope of Electrical Regulatory Authorities Council (ERAC) requirements to be registered on the Electrical Equipment Safety System (EESS). Therefore is not registered.

HAS AN AUDIT BEEN COMPLETED TO THE RELEVANT WELDING UNIT AUSTRALIAN STANDARD?

The ProHeat35 is manufactured to IEC60974.1 and IEC60974.10, and is compliant with the requirements for CE labelling. AS60974.1 is a clone of the IEC equivalent.

IS THERE AN OPTION TO UPGRADE THE MACHINE TO BE COMPLETELY IP56 OR ABOVE COMPLIANT?

No.

CAN THE INDUCTION OUTPUT LEADS BE ROUTED IN CABLE TRAYS?

No. It is not recommend putting the induction output leads in a steel cable tray, it will likely heat up the cable tray and damage the cables. The output cable can be suspended away from the cable tray using non-conductive materials.



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