

CSV-20 Series

Congratulations on the purchase of your new Magnaflux CSV-20 Magnetic Particle Inspection Machine! This guide will help you install and set-up your new Magnaflux machine.

If you have any questions, please contact your local Magnaflux Authorized Service Center or call Magnaflux Customer Service at 847-657-5300.



Getting Started

The manual is shipped with the unit in electronic format wrapped in a green bubble wrap mailer within the Accessories Box. In the manual is an extensive step by step process of how to assemble the enclosure and attach it to the unit.



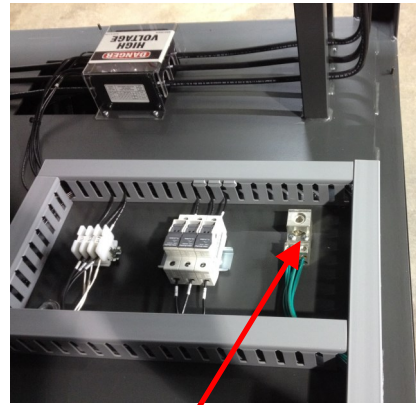
Operating Manual and Drawings

Set-Up

Right Side of Unit:
(looking from the front)



Incoming Power Connections



Chassis Ground Connection
(on floor of unit)

1. A minimum of two feet is required at both ends and the rear of the inspection unit to ensure adequate space for servicing (removing machine panels) and ventilation.
2. A firm, reasonably level floor capable of supporting the inspection unit and the materials awaiting inspection.

Electrical Input:

Input Volts AC	Phase	Full Load (Amps)	Recommended Line Fuse (Amps)	Recommended Wire Size (AWG)
208	N/A	N/A	N/A	**
230	N/A	N/A	N/A	**
380	3	500	400	**
415	3	450	350	**
460	3	400	300	**
575	3	325	250	**

Duty Cycle:

At full output: 0.5 seconds “ON” – 20 seconds “OFF”

The equipment can be fused based on less than the maximum amperage draw due to the duty cycle. Refer to NEC Code Section 630.31 Ampacity of Supply Conductors and Table 630.31 (A) (2) Duty Cycle Multiplication Factors for Resistance Welders (NPF National Electric Code 2011). Some areas refer to 2 phase instead of 1 phase. The incoming power goes directly to an isolation transformer so the unit will operate identically on 1 or 2 phase power.

Note: To obtain full rated output the following conditions must be met:

1. Two (2) thirty foot (30’) lengths of 1000 MCM cable connected in parallel and attached to each of the Output Lugs on the front of the unit. If Output 2 and/or 3 are not used — No need to hookup cables to that output.
2. A power source of the proper voltage, frequency and phase (as designated on the **Magnaflux Data Plate**) capable of providing current per the nameplate for the power pack. It is highly recommended that an electrical fused disconnect be installed either on the wall behind the unit or on a pedestal near the unit.