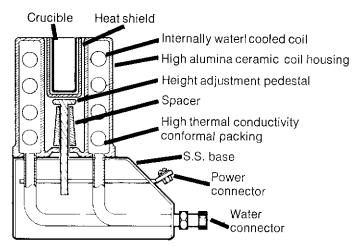
A splatter and radiation damage free evaporation source

No high energy particles or x-ray emissions

are produced in the In-Source 1500. In addition the uniform melt temperature eliminates violent stirring action which often results in splatter

The new high reliability design eliminates potential water leaks and provides rates of up to 100,000Å/min. for aluminum at 10" spacing

Excellent control of alloy composition makes this source a good choice for many AI/Si or AI/Cu film applications



Internal Detail of Standard Evaporation Source

In-Source Specifications

Source

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Deposition Rate: (Aluminum) 100,000Å/minute, 10" be-

tween source and substrate

Crucible Volume: 33cc Standard. Sizes to 58cc may be

used with optional hardware.

Bakeout Temperature: With water: 400°C. Without water:

150°C.

Fittings: ¼" Stainless Steel (Cajon tube type "O"-ring, quick couple sealed) Standard. High Pressure/Ion Plating source requires special fittings.

Dimensions: 63/8"H x 43/8"W x 7" D

Weight: 6 lbs.

Power Supply

Input Power: 208V AC, 3 phase, 50/60 Hz, 20A, 5 wire

Output Power: 80 amperes at 45 KHz

Regulation: 0.1% line and load combination

System Coolant Req:

Minimum Flow Rate: 1.0 GPM

Minimum ΔP : 30 PSI between inlet and outlet. If available ΔP is less than 30 PSI, consult instruction manual for

special plumbing requirements.

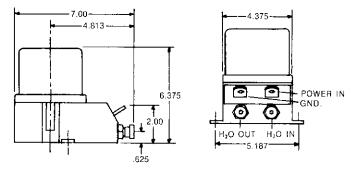
Maximum Absolute Inlet Pressure: 80 PSI

Fittings: %" O.D. Swagelock type tubing Temperature: 15°C minimum, 30°C maximum

Cable Length: Power Cable: 10 feet

Power Supply to Vacuum System: 8 feet Power Supply to System Controller: 8 feet Non standard cables available on request Dimensions: 83/4"H x 17"W x 211/2"D

Weight: 85 lbs.



In-Source Ordering Information

Description	Part Number
In-Source 1500 Basic System including source, power supply, controller and installation kit	
In-Source 1500 plus full instrumentation readout and Versatrak power programmer	***************************************
Deposition Source	
Installation Kit, including copper strap, 2 RF power feed- throughs, dual water feedthrough, water filter and two filter cartridges	
Heat Shield (2.005" long)	
Pyrolytic boron nitride crucible (for A1)	
Aluminum oxide crucible (for gold)	