

## Semiconductor Application Worksheet

Customer Name:	Classification:
Contact:	
Equipment	
Puller Manufacturer:	Number of Pullers:
Vacuum Pump brand:	Oil Sealed or Dry:
Booster brand:	Oil Filtration system included:
Auxiliary Pump used?:	Exhaust Filtration System included:
Filtration System brand currently used:	
Number of filter units per VP:	
Canister dimensions:	
Element Type (paper, polyester, steel mesh, etc.):	
# Elements per canister:	
Surface area:	
Element dimensions: OD:	ID:
Element height:	# of Pleats:
Size of holding area:	Inlet & outlet port sizes:
Are filter elements mounted on top or at bottom or	f canister?
Process Data	
Ingot size(s) (Solar/Semi-con only):	
Typical cycle time(s):	





Vacuum level required during each cycle: Base pressure:

## Semiconductor Application Worksheet

Run:

Typical:

How is the vacuum regulated during each cycle (valves, etc.)?
Time required to remove ingot & set up for next run:
Time and # of person(s) required to service filter unit:
Is element replaced, cleaned and re-used? If applicable, how many cleanings before replacement?
Is the entire line cleaned with cleaning device (PIG)? How often?
Waste
How is reacted SIO2/SIOX removed from filter system?
How is material disposed?
Is the waste material regulated in any way or is garbage OK?
How much SIO/SIO2/SIOX collected per cycle:
Operating Costs
Typical labor rate per hour per person:
Cost of replacement element(s):
How many elements used per month or year?
Are elements cleaned in-house or by outside service? If outside service, what is cost?
How often are pumps re-built?
On an annual basis, what is the approximate operating expense related to the vacuum system?

