

F52 Assimilation Traps

A Rechargeable In-Line Trap to Help Prevent Backstreaming

Features:

- Replaceable element in a wide variety of materials
- Prevents backstreaming
- Wide variety of connections

The Assimilation Traps are similar to our Coaxial Foreline Traps in that they are used between the rough vacuum pump and the diffusion (or turbo) pump to prevent backstreaming of oil into the diffusion pump. In addition, these traps prevent particulate matter from entering the vacuum pump.

Assimilation Traps have the added feature of a replaceable filtering element. This allows easy replacement once it becomes contaminated, clogged, or corroded. A variety of different filtering mediums are available for specific applications described below. The quick clamp seal incorporates a viton gasket to provide a good vacuum seal. In addition to the elements listed, the user could incorporate his own medium into the assimilation trap for special applications. For example, if a lot of acidic compounds were to be pumped by the vacuum pump, NaOH or other basic compounds could be used in the trap to neutralize acids, and aluminum oxide filtering material could be used for high efficiency filtering. For applications such as lyophilizing (freeze drying), water trapping media such as Drierite® could be used. Activated carbon could also be used to trap organic molecules and keep them from contaminating the vacuum pump oil.

Assimilation Trap Elements

The standard element is coarse OFHC (oxygen free hard copper). Optional filtering elements are available as described below.

Coarse grade OFHC copper elements are standard. They provide a large surface area for condensing oil vapors. The pure copper surface attracts hydrocarbons due to its high affinity for that type of compound.

Coarse grade stainless steel is for applications where a copper element is not desirable due to the reactivity of copper with certain chemicals.

Trapping elements should be replaced every 6 months.



Part No: SAT-40A

Offset with bottom connector for Alcatel Vacuum Pumps

Part No: AT300-NW25-OFF

Replacement Elements

Part No.	Description	Price
RE-SAT16*	Coarse Mesh Copper	
RE-SAT16SS*	Coarse Mesh Stainless	
RESAT150†	Coarse Mesh Copper	
RE-SAT150SS†	Coarse Mesh Stainless	

* Also fits SAT-16A

† Also fits SAT-40A

Replacement Parts

Part No.	Description	Price ea.
G-250	Replacement Gasket - 250 series	
G-300	Replacement Gasket - 300 series	
SS-250	Filter Screen - 250 series	
SS-300	Filter Screen -300 series	

Part No.	Body Dimensions(W x L)	Tubulation		Replace. Element	Capacity	Price ea.
		Bottom	Top			
SAT-75A	3" x 6 1/2"	3/4" OD tube	3/4" OD tube	RE-SAT16	11cfm	
SAT-100A	3" x 6 1/2"	1" OD tube	1" OD tube	RE-SAT16	17cfm	
SAT-150A	4" x 6 7/8"	1 1/2" OD tube	1 1/2" tube	RE-SAT150	17cfm	
SAT-16A	3" x 6 3/4"	NW16 Flange	NW16 Flange	RE-SAT16	11cfm	
SAT-25A	3" x 6 3/4"	NW25 Flange	NW25 Flange	RE-SAT16	17cfm	
SAT-40A	4" x 7 1/8"	NW40 Flange	NW40 Flange	RE-SAT150	17cfm	
AT300-NW25-OFF	3" x 4 7/16"	NW25 Flange Offset	NW25 Flange Offset	RE-SAT150	17cfm	