

ASC-100

Solvent Recovery Plant Product data sheet



Your benefit

- Automatic operation
- High distillation performance, 20-80 l/hr *
- Constructed acc. to latest EU directives
- High levels of operational safety
- Low space requirement

ASC, one of the most modern distillation plants world wide, constructed in intentionally small vessel size, powerful and very comfortable in operation.


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The **ASC-100** is the smallest vacuum distillation unit out of the professional series ASC. It includes a integrated thermal oil heating system.

A characteristic is the conical distillation vessel made of stainless steel, where the lateral surface is heated with thermal oil. The hot oil in the double jacket heats up indirectly the solvent and evaporates it afterwards. At the same time a very good distillation rate is reached with small vessel filling volume. For the integrated thermal oil heating system only an electrical connection is necessary.

A high speed vacuum pump transfers the dirty solvent to the evaporator and guarantees a continuous 24 hour operation. During automatic distillation the quantity of solvents which is evaporated, is constantly fed automatically by metered dirt solvent. This automatic process is adjusted by timers. If the tank of dirty solvent is empty, the plant switches automatically to "sump distillation". The continuous feeding is stopped and the remaining sludge in the vessel is evaporated to a thick concentrate. Afterwards the plant switches off and is ready for the manual or fully automatic emptying.

The distilled and/or cleaned solvent flows continuously from the distilling plant into a build-lateral tank.

A further characteristic of the ASC evaporators is a slow-running agitator with automatic self adjusting scraper blades made out of PTFE.

These blades clean optimally the conical evaporator vessel and need no re-adjustment. A great benefit while daily operation. The total distillation process is controlled by a SIEMENS microprocessor. The emptying of the high viscose residue is done by natural gravity over a drainage valve at the bottom of the conical round vessel. The plant can be re-filled again automatically with dirty solvent after e.g. one, two or three-shift operation. A new continuous recycling process begins.

Typical area of application: 160-500 l / shift



Product benefits	
<ol style="list-style-type: none"> 1. Product-affected parts in stainless steel 2. Automatic and continuous feeding with dirty solvents → Filling level is kept constant. Plant distils always further, no batch operation 3. Conical distillation vessel in stainless steel AISI 304 with lathe and plain surface. → Easy and complete drainage of vessel content by natural gravity and scraper support 4. Perfect scraper system: → Blades keep free the evaporator walls from settlements → no re-adjustment necessary → guarantee an optimal and real cleaning effect. 	<ol style="list-style-type: none"> 5. Water cooling → Optimal condensation of solvent vapours even at high ambient temperature 6. Electric control board with SIEMENS digital control inside → Automatic operation → Auto-stop when dirty solvent drum is empty → Auto-stop when over temperature → Auto-stop when no thermal oil existent → Auto-stop when no cooling water flow <p>Built according to newest European regulations → High safety and operation standard</p>

Technical data	ASC-100
Total vessel volume	140 l
Filling volume constantly, level controlled	80 l
Distillation rate approx.	20-80 l/h *
Heating up time approx.	0,50 h *
Heating temperature	max. 200 °C
Vacuum abs.	max. 50 mbar
Electrical connection	380-410 V / 50 Hz / 3Ph
Power consumption thermal oil heater	6 kW (Standard) oder 12 kW (optional)
Power consumption vacuum unit	1,1 kW
Consumption air pressure approx.	6 bar max., 50 l/min
Consumption cooling water (8-12° C) approx.	0,6-1,5 m³/h
Width x Depth x Hight / Weight approx.	With higher rack: 1,6 x 0,82 x 2,63 [m] / 900 kg Without higher rack: 1,6 x 0,82 x 1,93 [m] / 700 kg

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* Abhängig vom Lösemitteltyp / Dependent on type of solvent, **Begleitenden Depotstelle nach RL 94/9/EG, depositary, notified body acc. RL 94/9/EG
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