

COMPACT

Solvent Recovery Unit

Product data sheet



Acetone
20 litre/hour
Naphtha solvent
25 litre/hour

Your benefit

- Full automatic operation
- Comfortable recycling from drum to drum
- Fast distillation
- Constructed acc. to latest EU directives
- High levels of operational safety

Easy and **safe distillation**

The Ex-proof OFRU distillation unit „**COMPACT**“ is developed for daily volumes from 60–400 litre and consists of a thermal oil heated horizontal distillation vessel made of stainless steel, in which the soiled solvent is regenerated. The COMPACT unit operates fully automatic and fills itself continuously with an integrated membrane pump or with the option vacuum unit. Every few minutes the machine refills itself and can be used for 24hr operation. During the automatic distillation process the level in the distillation tank remains constant, where as the evaporated quantity of the solvent will be replaced by new soiled solvent all the time. That means, manual filling by hand is not necessary. Indicating instruments inside the front plate give information about boiling/vapour temperature of the solvent, the process pressure inside the distillation boiler and the nominal/actual values of the heating temperature. The electrical control system monitors all safety relevant parameters and switches the plant automatically off in case of fault. The automatic feeding mode realizes when the dirty solvent storage tank is empty. Then the SIEMENS micro processor stops feeding and switches to the final „sump distillation mode“. During the sump distillation mode, solvent will be evaporated and the remaining residue will be concentrated into an adjustable viscosity. Afterwards the machine stops for drainage of the residue, which is easily done through the large front door. The „Compact“ is equipped with a certificated inside explosion-proof control

board. For solvents with a high boiling point >150°C a optional vacuum unit is available. This option consists of a electrical high performance vacuum pump and generates a vacuum from –0,9 to –0,95 bar. Thus the boiling point of the solvents is deeply reduced. The heating temperature can be adjusted smaller, which safes energy. The installation and start-up can be carried out easily by the customer within short time. All connections are placed on one side of the machine.

COMPACT – dangerous pouring of solvents belongs to the past.

Typical area of application: 60-160 l / shift



Product benefits	
<ol style="list-style-type: none"> 1. Automatic and continuous solvent filling <ul style="list-style-type: none"> → No pour of solvents by hand any more → Filling level is controlled always constant 2. Horizontal distillation vessel <ul style="list-style-type: none"> → Easy cleaning of vessel → No expensive plastic bags any more → No tilting of whole machine necessary 3. Small distillation vessel <ul style="list-style-type: none"> → Fast heating up of solvents → High distillation rate with small machine size 	<ol style="list-style-type: none"> 4. Water cooling <ul style="list-style-type: none"> → Optimal condensation of solvent vapours even at high ambient temperature 5. Explosion proof electric panel with SIEMENS digital control inside <ul style="list-style-type: none"> → 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 6. Built according to newest European regulations <ul style="list-style-type: none"> → High safety and operation standard

Technical data	COMPACT
Filling volume constantly, level controlled	35 l
Distillation rate approx.	7-20 l/h *
Heating up time approx.	0,5 h *
Heating temperature	max. 200 °C
Electrical connection	380-410 V / 50 Hz / 3Ph
Power consumption thermal oil heating	6 kW
Consumption air pressure approx.	6 bar max., 50 l/min
Consumption cooling water (8-12° C) approx.	0,5 m³/h
Width x Depth x Hight / Weight approx.	1,2 x 0,8 x 1,6 [m] / 140 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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