

## Extractor

according to EN 12697 - 1 for determining the binder content of asphalt. Washing out, drying and recovery with one device!

Basics of new development:

- ▶ More effective asphalt extraction with solvent, even with difficult polymer-modified bitumen or also mastic asphalt
- ▶ Completely redesigned washout device, sieve drum with sieve gauze
- ▶ Reduction of solvent consumption due to newly developed recovery system
- ▶ Reduction of drying times, no re-drying necessary
- ▶ Faster solvent recovery
- ▶ Reduction of operating costs
- ▶ Simplification of operation

Included in delivery:

- ▶ 3 pcs. aluminium filler cups
- ▶ One-hand pull-out aid
- ▶ Sieve drum
- ▶ Filter paper for filler cup
- ▶ Brass sieve brush
- ▶ Round bottom flask 1000 ml

### Technical data

Absorption capacity of the filler cup:	200 - 300 g
Sample volumes:	bis 3,2 kg
Extraction time with drying:	ca. 50 min.
Solvent consumption per extraction:	< 0,08 l
Dimensions:	1200 x 800 x 1700 mm
Power:	6,0 kW, Absicherung 3x16 A
Pin:	3Ph+N+PE, 230/400 V, 50 Hz,

1.018

# Fröwag

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### Highlights:

- ▶ Optional input of warm or cold asphalt possible
- ▶ Easy taking of a bitumen sample due to pre-installed piston
- ▶ Applicable for various solvents.
- ▶ Set to trichloroethylene at the factory. On request, the machine can also be set to perchloroethylene or methylene chloride.
- ▶ Entire unit on drip tray, no additional conversions necessary in the laboratory.





## Performance features:

- ▶ Completely closed unpressurised system in an enclosure with exhaust air connection, designed as a mobile unit
- ▶ Wash-out function for gentle recovery of aggregates, also suitable for mastic asphalts and polymer-modified bitumen
- ▶ Heated washout system made of aluminium with high heat capacity
- ▶ Complete solvent impregnation of the sample
- ▶ Easy removal of the centrifugal sleeve with the aid of the extraction device
- ▶ Vacuum drying of the minerals after washing out
- ▶ Centrifuge with optimised spindle speed, installed in stiffened frame
- ▶ Newly designed more effective aluminium recovery unit
- ▶ Electronic control with programme parameter query before start-up
- ▶ Individual change of the programme during the course possible
- ▶ Microprocessor-controlled error monitoring at all relevant intervention points
- ▶ Concentration of the solution-binder mixture to less than 500 ml possible after each extraction
- ▶ Removal of the bitumen pre-sample by means of a ball valve as well as direct filling from the recovery unit to remove the entire quantity of bitumen
- ▶ Can be used for various non-flammable solvents

## Advantages:

- ▶ No exposure of personnel to vapours
- ▶ No clogging of sieves, gentle and fast wash-out, suitable for split mastic samples, no stress on the rock, minimised abrasion of the rock.
- ▶ High heat energy to increase drying capacity, faster drying, no post-drying necessary
- ▶ Use of the maximum solvent capacity, reduction of solvent consumption
- ▶ Simple, safe and fast handling
- ▶ Faster and thus more effective washout
- ▶ Fast and effective drying method
- ▶ Less drive power, quiet and smooth running for less wear and tear
- ▶ More effective heating capacity, recovery time within the washout times
- ▶ Flexibly adjustable, adapted to a wide range of asphalt mixtures
- ▶ Optimised safety shutdowns, e.g. against overheating or solvent overflow
- ▶ Maximum possible constriction function of the solution-binder mixture
- ▶ Use of various non-flammable solvents

