

## The Vinegar Plant with the very latest Technology

Germany is the place where you can find the most modern vinegar plant of the world. The plant excels by ecological and economical processes and equipment for the production of highest strength vinegar.

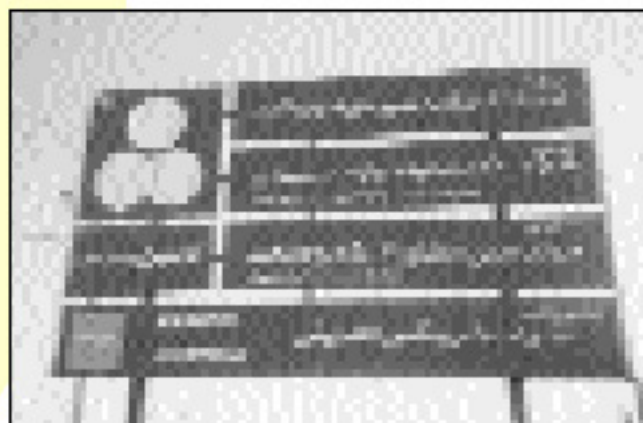
Exhaust gas condensers, cooled by cold water, take care that 50-60 % of the volatile substances contained in the fermenting liquid (especially acetic acid, alcohol, esters) are recycled back into the Acetator. The thus partially purified exhaust gas then flows into a gas scrubber with an optimized volume, which washes away the remaining organic substances with such reduced water quantities that the washing water can also be conducted back into the Acetator. If you hold your nose to the end of the exhaust gas pipe, you will no longer notice the typical smell of vinegar. Corrosion to buildings is thus avoided, the relevant environmental provisions are complied with, and the odourless vinegar plant produces a maximum yield.

The described plant operates a dual stage process for the production of highest strength alcohol vinegar. In practice, vinegar of more than 20 % acidity is routinely produced, while at the same time storage and transportation costs are considerably reduced. The raw vinegar thus produced undergoes automatic crossflow microfiltration and yields a bacteria-free product. There is no need to dispose of polluting filtration aids.

Should you wish to know more details on Frings technologies and equipment for the production of vinegar, send an e-mail or telefax to us or to one of our subsidiaries. We will react immediately.

## Second Yeast Plant for the Iran

In past July, the last truck was loaded with equipment for the second yeast plant which Frings Austria has sold to an investment company in the Iran. Three Frings Austria employees convinced themselves personally of the progress of the work on site at Dezful in the province of Khuzistan. The ground is prepared for a successful start-up of the plant in the second half of the year 2000.



## MESSO ACQUIRES CRYSTALLIZATION DIVISION OF BALCKE-DÜRR

To strengthen its market position and to round off the offered technologies, our subsidiary Messo Chemie-technik GmbH, Duisburg, acquired a division of the Balcke-Dürr GmbH, Ratingen, with two subsidiaries, which design, supply and start-up plants for crystallization and evaporation. Our colleagues at Messo seem to have a special liking of the new subsidiaries, because they are located in Paris and in Milan... We sincerely welcome the newcomers to the Frings Group of Companies!



... Your Partner