



CLEMENS

**COMPACT AND
MOBILE CONSTRUCTION**

**SIMPLE
HANDLING**

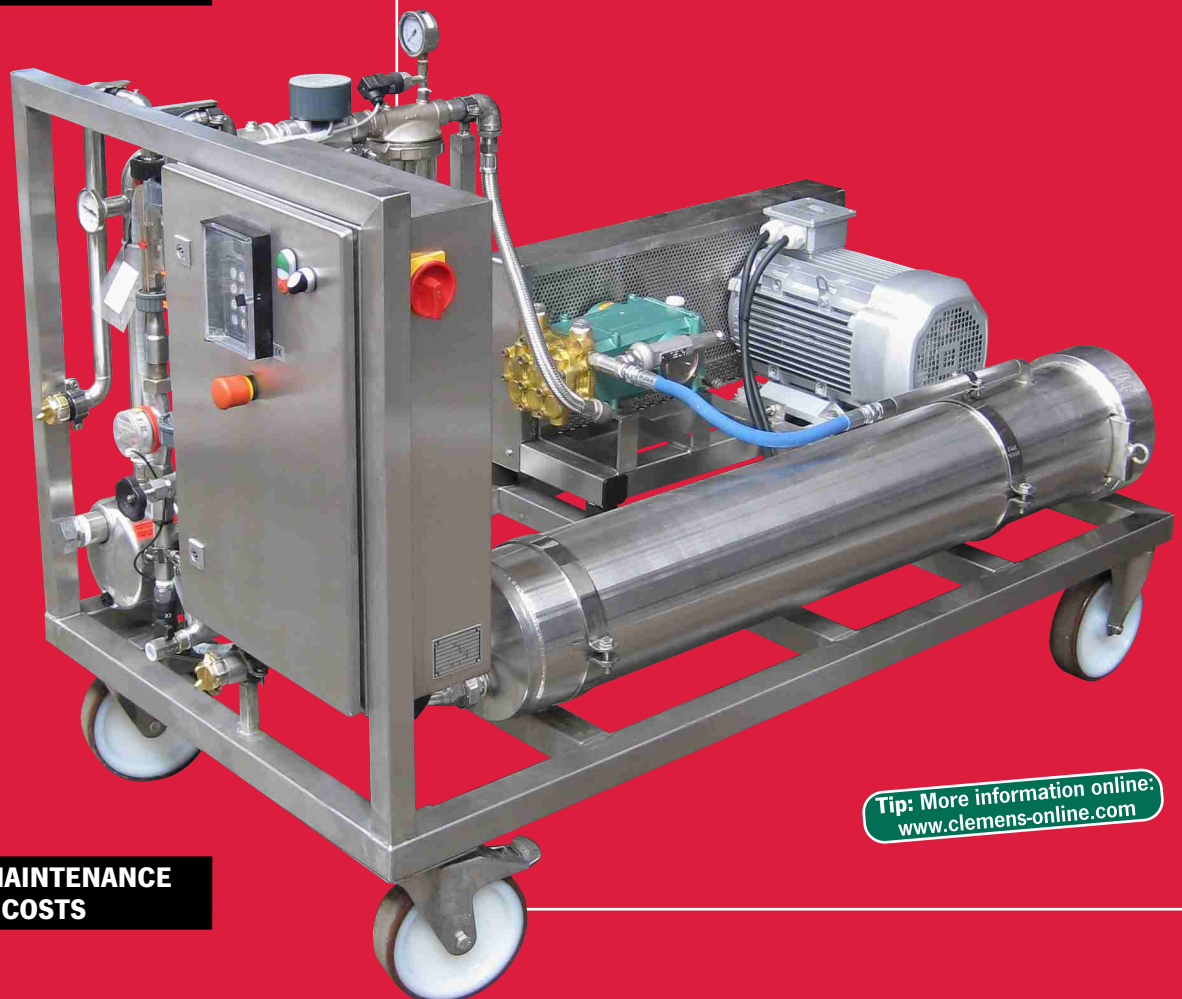
**REVERSIBLE
FLOW FILTER 300my**

**HIGH CONTINUOUS
PERFORMANCE**

**AUTOMATIC
CONTROL**

CONCENTRATED ON THE ESSENTIAL

**REVERSE OSMOSIS: TO CONCENTRATE THE
MUST WITHOUT LOSING ITS NATURAL
INGREDIENTS AND REPLACING TRADITIONAL
SWEETENING WITH SUGAR**



**LOW MAINTENANCE
COSTS**

Tip: More information online:
www.clemens-online.com

CLEMENS OSMOSIS EQUIPMENT

OSMOSIS EQUIPMENT: FOR HIGHEST OENOLOGICAL REQUIREMENTS



Technical data: Small devices		R02/4	R04/4
Length/Width/Height:	mm	1150/700/1550	1150/700/1550
Power:	A	16	32
Weight:	kg	200	300
Water extraction (at 15°C):	l/h	80-120	150-400

Technical data: Compact devices		R01/8	R02/8
Length/Width/Height:	mm	2500/970/1900	2500/970/1900
Power:	A	32	63
Weight:	kg	1050	1250
Water extraction (at 15°C):	l/h	300-500	600-1200

Reverse osmosis is a physical process by which part of the water is extracted from the grape must or wine. This is achieved with the help of a special osmosis membrane in which the water is extracted in its purest form (= permeate) under high pressure. Through this extraction of water the components such as sugar, acid and aromas are concentrated and thus intensified. The typical characteristics of vineyards and grape varieties remain fully preserved. The must is to be pre-treated by settling and possibly filtering to prevent turbid substances from penetrating and clogging up the membrane.

ADVANTAGES

- Compact and mobile construction
- High continuous performance with low operating costs
- Special high performance membrane, suitable for food, long-life and washable up to 80° C
- Use of energy-efficient and low-maintenance equipment components
- Low operating noise thanks to a reduced speed piston pump and rubber-bonded-to-metal mounted components
- Low operating temperature and slight product heating
- Very simple operation thanks to the input pre-selection of the volume of water to be extracted
- Automatic stop of the equipment when the amount of water selected is reached
- Electric metering of the volume of permeate
- Also suitable for small items thanks to the optimum vertical structure of the pressure pipes with optimum emptying of residues
- Effective pre-filtering system
- Efficient cleaning of the membrane in the equipment, no dead space
- Patented quick release fastener of the pressure pipes which can be opened without any tools within seconds, thus allowing the membrane elements to be fitted and removed quickly,
- Lack of water safety device and high pressure pump equipped with overpressure valve (90 bar)
- Bursting safety device for permeate and return line

SERVICE

- Intensive commissioning and training of the user on the site
- 24 hours-service /After-sales service in autumn
- Maintenance of the membrane, e.g. regeneration of the modules by special cleaning by us. In this connection all deposits are removed, thus increasing the life of the modules and guaranteeing their impeccable functioning. You can thus start up into a new season with completely reconditioned modules.
- Of course, you may also have your modules stored at our works under optimum storage conditions (frost-free) after regeneration until their next use.

MARGINAL LEGAL CONDITIONS CONCERNING THE APPLICATION

The operator alone shall be solely responsible for the compliance with the wine law and statutory regulations in force in the respective country regarding the use of the reverse osmosis equipment.



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Please visit our home page

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and inform yourselves about our comprehensive range for viticulture and row-vine cultivation.

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