

Reverse Osmosis Systems, Siemens AG

① Ultra Clear™ Compact RO

2 pure water qualities produced directly from the drinking water supply. Reverse osmosis, deionization and 30 l storage tanks all comprised in one system. Perfect for the cost-conscious user, as well as for schools and teaching institutions. Suitable for applications in microbiology, general chemistry, for autoclaves, glassware washers, climate chambers, feed water for ultra-pure water systems, and generally laboratory tasks.

The Ultra Clear™ COMPACT series comprises a reverse osmosis unit, an optional full desalination module, a 30 l tank, and other accessories. At low acquisition costs, our Ultra Clear™ COMPACT systems are highly efficient to operate and have extremely reasonable follow-up costs. The Ultra Clear™ COMPACT is supplied fully equipped with the first set of cartridges. The small-footprint system can be used as a benchtop unit or mounted to the wall; it can be delivered with or without pumps according to the customer's requirements. With a desalination rate of < 0.1 µS/cm with a downstream full desalination module, the Ultra Clear™ COMPACT can be used for many analytical tasks in the laboratory. Depending on the stage of extension, the Ultra Clear™ COMPACT produces 3, 7, or 15 l pure water per hour. If required, the storage tank may be equipped with a CO₂ trap, a sterile ventilation, and a UV immersion radiator. Fast, inexpensive, and easy cartridge replacement thanks to the special design of the Ultra Clear™ COMPACT cartridges.

The advantages at a glance:

- 30 l tank comprised in the unit
- Small footprint
- Easy handling
- Digital control
- One full desalination module for all DI systems
- Plug-and-play
- Quality control of the permeate in all systems
- The RO membranes have a bacteria and particle retention rate of > 99 %
- Water quality < 0.1 µS/cm for all DI units

Technical Data:

Dimension with 30 l tank, HxWxD mm: 590 x 405 x 395
 Production rate at 15°C l/h: 3, 7 or 15
 Desalination rate %: > 96
 Conductivity µS/cm: – / < 0.1 (depending on version)

Feed water specification

Feed water pressure, bar: 0.1 – 5
 Input conductivity µS/cm: < 1400
 Blocking index SDI: < 3
 Free chlorine and Fe content mg/l: 0.1

Article	Order No.
Ultra Clear Compact™ RO 7 l/h, 30 l tank	10 89 03802
Ultra Clear Compact™ RO 15 l/h, 30 l tank	10 89 03803
Ultra Clear Compact™ RO DI 7 l/h, 30 l tank and DI	10 89 03812
Ultra Clear Compact™ RO DI 15 l/h, 30 l tank and DI	10 89 03813

Please note the feed water specification

② Ultra Clear™ RO

The Ultra Clear™ RO series produces water of excellent quality at a very low power consumption. Its economic efficiency is further enhanced by low energy membranes. The sturdy, high-quality materials ensure a long useful life of the Ultra Clear™ RO unit. The system uses state-of-the-art pump technology: Without the traditional electrical motor, the work almost silently with a magnetic drive (Ultra Clear™ RO 20 – 100). Thanks to the integrated automatic rinsing programs for the membranes and the concentrate recirculation, the units can be operated with untreated municipal water in most cases.

Reverse osmosis units can work 24 hours per day. A storage tank collects the pure water to meet temporarily higher demands. We offer 3 standard Ultra Clear™ RO storage tanks and various special sizes suitable for the Ultra Clear™ RO.

Larger systems, or a combination of the reverse osmosis system with electrodeionization (Ultra Clear™ RO EDI) and Analyzer Feed Units (Ultra Clear™ AFU or Ultra Clear™ AFU EDI) available on request.

Technical Data:

Ultra Clear™ RO... :	10	20	40	60	100
Pure water specification					
Production rate at 15°C l/h:	10	20	40	60	100
Mineral retention rate %:	>96	98–99	98–99	98–99	98–99
Bacteria retention rate %:	>99	>99	>99	>99	>99
Particle retention rate %:	>99	>99	>99	>99	>99
Feed water specification					
Feed water pressure bar:	0,1–5	2–6	2–6	2–6	2–6
Input conductivity max. µS/cm:	<2000	<2000	<2000	<2000	<2000
Blocking index SDI:	<3	<3	<3	<3	<3
Free chlorine and Fe content mg/l:	<0,5	<0,1	<0,1	<0,1	<0,1
Shipping weight kg:	26	31	32	33	35
Power consumption:	0.05	0.2	0.2	0.2	0.2
Electrical connection V/Hz:	110 – 230 / 50 – 60				
Dimensions, HxWxD mm:	530x340x320	530x340x420	1320x340x420		



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Article	Order No.
Ultra Clear™ RO 10	10 89 03000
Ultra Clear™ RO 20	10 89 03001
Ultra Clear™ RO 40	10 89 03002
Ultra Clear™ RO 60	10 89 03003
Ultra Clear™ RO 100	10 89 03005

Double systems for input conductivities up to 3500 µS/cm are available on request.

Consumables/Accessories for Ultra Clear™ Compact RO

Article	Order No.
Pre-filter and RO-Module 7 l/h	10 89 02111
Pre-filter and RO-Module 15 l/h	10 89 02112
DI module	10 89 02113
CO ₂ trap replacement cartridge	10 89 03502
Replacement UV lamp	10 89 09401
UV lamp	10 89 05941
Wall bracket	10 89 03316
CO ₂ trap with vent filter	10 89 05011

Consumables for Ultra Clear™ RO

Article	Order No.
Pretreatment module AMB	93 89 02057
RO module for Ultra Clear™ RO 10, 1×	10 89 02083
RO module for Ultra Clear™ RO 20 – 100	10 89 01019

