

## REFERENCE LIST

SEMICONDUCTOR  
SOLAR  
PHARMA  
POWER GENERATION  
FOOD & BEVERAGE  
PULP AND PAPER  
CHEMICAL  
OIL AND GAS  
MINING  
AEROSPACE AND TRANSPORT





# Production of Ultrapure Water For Pharmaceutical and Cosmetic Purposes



Client	Plant Type	Capacity
Novartis Urunler Pendik, Turkey  (currently in progress)	Ultrafiltration Pharmasoft ROCEDIS 1000 PW-TS SANICIRCLE 5000	1 m <sup>3</sup> /h 5 m <sup>3</sup> /h
Boehringer Ingelheim Koropi, Greece  (currently in progress)	SANICIRCLE 5000 TS Extension of existing loop	5 m <sup>3</sup> /h
Datwyler Pharma Belgium NV Alken  (currently in progress)	Multi-media filter, UV PHARMASOFT 900 ROCEDIS 4000 PW-TS	4 m <sup>3</sup> /h
TEVA via M+W PI Vilnius, Lithuania  (currently in progress)	PHARMASOFT 300 TS ROCEDIS 1000 PW-TS	2 x 1 m <sup>3</sup> /h
MEDPRO Medikal Sanayi Istanbul, Turkey  (currently in progress)	ULTRALIS 12000 ACF, PHARMASOFT 700 TS ROCEDIS 6000 PW-TS SANICIRCLE 20000S DESTOMAT 850-T-6 SANICIRCLE 5000 TS SANICIRCLE 10000 TS VAPOMAT 850 T	12 m <sup>3</sup> /h 9 m <sup>3</sup> /h 6 m <sup>3</sup> /h 20 m <sup>3</sup> /h 1.670 l/h 5 m <sup>3</sup> /h 10 m <sup>3</sup> /h 830 kg/h
Pharmazashita via BG Engineering Moscow, Russia  (currently in progress)	PHARMASOFT 200, ROCEDIS 500 PW-PP SANICIRCLE 3000 TS VAPOMAT 250 incl. WFI SANICIRCLE 3000 TS	0.5 m <sup>3</sup> /h 3m <sup>3</sup> /h 200kg/h 3m <sup>3</sup> /h
UCB Farchim SA Bulle, Switzerland  (currently in progress)	ECOSOFT 700 TS ROCEDIS eco 10000 PW-TS SANICIRCLE PW1, PW2, WFI DESTOMAT 2200 T-8 VAPOMAT 1200 T	2 x 15m <sup>3</sup> /h 2 x 10m <sup>3</sup> /h 8 to 50m <sup>3</sup> /h 2 x 4m <sup>3</sup> /h 2 x 1.100kg/h
Baxter SA, Lessines, Belgium  (currently in progress)	ECOSOFT 900 TS-SS NOVALIS Ultraclean 8000 PW-TS SANICIRCLE 20000 DESTOMAT 2900 T-8 SANICIRCLE 5000 TS	25m <sup>3</sup> /h 2 x 8m <sup>3</sup> /h 20m <sup>3</sup> /h 2 x 5.7m <sup>3</sup> /h 5m <sup>3</sup> /h
DSM Nutritional Products AG Sisseln, Switzerland	PHARMASOFT 300 TS ROCEDIS 4000 PW-TS	0.5 m <sup>3</sup> /h
Merckle Biotec GmbH Ulm, Germany	ECOSOFT 450 TS ROC-TSDIS 4000 PW	4 m <sup>3</sup> /h
Fresenius Jaguarina, Sao Paolo, Brazil	ULTRALIS 25000 PHARMASOFT 700 TS, ROCEDIS 6000 HPW-TS SANICIRCLE 15000	25 m <sup>3</sup> /h 6 m <sup>3</sup> /h 15 m <sup>3</sup> /h
Mann & Schroder GmbH Siegersbach, Germany	SANICIRCLE 5000	5 m <sup>3</sup> /h
Baxter Bioscience Mfg Sarl Neuchatel, Switzerland	ECOSOFT 1000 TS NOVALIS 15000 PW-TS	50 m <sup>3</sup> /h 15 m <sup>3</sup> /h

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Roche Diagnostics AG Rotkreuz, Switzerland	PHARMASOFT 300-TS ROCEDIS 1500 HPW-TS	1.5 m <sup>3</sup> /h
Novartis WSJ340 Basel, Switzerland	PHARMASOFT 300 TS, ROCEDIS 1000 PW-TS SANICIRCLE 2000 TS DESTOMAT 250 T-4 SANICIRCLE 5000 TS VAPOMAT 850T	1 m <sup>3</sup> /h 2 m <sup>3</sup> /h 295 l/h 5 m <sup>3</sup> /h 560 kg/h
Dragenopharm Tittmoning, Germany	PHARMASOFT 300 TS, ROCEDIS 1000 PW-TS SANICIRCLE 5000 TS	1 m <sup>3</sup> /h 5 m <sup>3</sup> /h
Holopack Verpackungstechnik Sulzbach Laufen, Germany	COSOFT 450 TS, RO-MDG	4 m <sup>3</sup> /h
TTS Turktipsan SA Ankara, Turkey	MDG / EDI PW-TS DESTOMAT 850 T-5	2 m <sup>3</sup> /h 1.6 m <sup>3</sup> /h
Novartis CH-Klybeck/Switzerland	Generation of Purified Water Pyrogen free for Non-GMP applications: Sterile and UF filter (thermal sanitisable)	1.2 m <sup>3</sup> /h
Baxter AG, BG001 A-Wien/Austria	Extension of existing loop PHARMASOFT®-E.LTS.700, NOVALIS®.CS-PW	16 m <sup>3</sup> /h 2 x 4.5 m <sup>3</sup> /h
Baxter AG, Line 3 A-Wien/Austria	PHARMASOFT®-E.LTS.700, ROCEDIS®.TS-PW.8000	8 m <sup>3</sup> /h
Holopack Verpackungstechnik GmbH Abtsgmünd-Untergröningen Germany	<b>Highly Purified Water for production of pharmaceuticals:</b>  <b>ECOSOFT-TS</b> (hot-sanitisable softener), <b>ROCEDIS HPW-TS ECO</b> (hot-sanitisable reverse osmosis, membrane degasification and electro deionisation, ultrafiltration) <b>ECO-design</b> with high water recovery  Switchboard with MP377 15" and Software acc. to GAMP	7.5 m <sup>3</sup> /h
NextPharma PHARBIL Pharma GmbH Bielefeld/Germany	<b>Purified Water for production of pharmaceuticals:</b>  Softener, <b>ROCEDIS PW-PP</b> (reverse osmosis, membrane degasification, electro deionisation)  Extension of cold storage and distribution:  Switchboard with MP277 8" and Software acc. to GAMP	0.5 m <sup>3</sup> /h 5 m <sup>3</sup> /h
OOO Izvarino Pharma Moscow/Russia	<b>Purified Water for production of pharmaceuticals:</b>  <b>PRE-TREATMENT</b> Pump, Multi Media Filter, Bisulfite-Dosing  <b>80°C</b> Softener, <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, membrane degasification, electro deionisation)  Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation  Switchboard with MP377 and Software acc. to GAMP	1 m <sup>3</sup> /h 10 m <sup>3</sup> /h

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Widatra Bhakti Pasuruan/Indonesia	<b>Purified Water for the production of pharmaceuticals:</b> Revamping of existing <b>ROCEDIS PW-PP</b> (reverse osmosis, electro deionisation) with intermediate <b>membrane degasification</b> Switchboard with TP277 and Software acc. to GAMP	8 m <sup>3</sup> /h
Scil Proteins Production GmbH Halle / Saale/Germany	 <b>Highly Purified Water for production of pharmaceuticals:</b> <b>PHARMASOFT TS</b> (hot-sanitisable softener), <b>ROCEDIS HPW-TS</b> (hot-sanitisable reverse osmosis, electro deionisation, ultrafiltration) Cold storage and distribution (supply for pure steam generator) Switchboard with MP277 10" and Software acc. to GAMP	1.5 m <sup>3</sup> /h 2 m <sup>3</sup> /h
Vetter Pharma-Fertigung Ravensburg/Germany	 <b>Highly Purified Water for production of pharmaceuticals:</b> <b>ECOSOFT-TS</b> (cont. hot-brine sanitisation and disc. 80°C), <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, membrane degasification and electro deionisation) Switchboard with MP277 and Software acc. to GAMP <b>FDA + cGMP -compliant qualification documentation</b>	9 m <sup>3</sup> /h
Regena AG Tägerwilen/Switzerland	<b>Purified Water for production of pharmaceuticals:</b> Softener, <b>ROCEDIS PW-PP</b> (reverse osmosis, electro deionisation) Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation Switchboard with MP277 8" and Software acc. to GAMP	0.5 m <sup>3</sup> /h 5 m <sup>3</sup> /h
Aventis Pharma Mfg Pte Ltd Singapore	<b>Pre-treatment for PW plant:</b> <b>ULTRALIS</b> (Ultrafiltration for city water) Switchboard with MP277	8 m <sup>3</sup> /h
DSM Nutritional Products AG Sisseln/Switzerland	<b>Purified Water for production of pharmaceuticals:</b> <b>PHARMASOFT TS</b> (hot-sanitisable softener), <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, membrane degasification, electro deionisation) Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation Switchboard with MP377 and Software acc. to GAMP	10 m <sup>3</sup> /h 60 m <sup>3</sup> /h






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Bayer Türk Kimya San. Ltd. Sti. Istanbul/Turkey	<p><b>Purified Water for production of pharmaceuticals:</b></p> <p><b>PRE-TREATMENT</b> Multi Media Filter, Antiscalant- and Bisulfite-Dosing  <b>ROCEDIS PW-TS</b> (hot-sanitisable double-pass reverse osmosis, membrane degasification, electro deionisation)</p> <p>Cold storage and distribution:  <b>SANICIRCLE</b> with UV and periodical hot sanitisation</p> <p>Switchboard with MP377 and Software acc. to GAMP</p>	<p>3 m<sup>3</sup>/h</p> <p>2 x 5 m<sup>3</sup>/h</p>
Novartis Ürünleri Kurtköy/Pendik Istanbul/Turkey	<p><b>Pre-treatment for the Purified Water plant:</b></p> <p>Raw Water Ultrafiltration</p>	3 m <sup>3</sup> /h
	<p><b>Extension of existing Purified Water Plant</b></p>	1 m <sup>3</sup> /h
bioMerieux bv Grenoble/France	<p><b>Highly Purified Water for production of pharmaceuticals:</b></p> <p><b>PRE-TREATMENT</b> Activated Carbon Filter, PharmaSoft, NOVALIS  <b>ROCEDIS HPW-TS</b> (hot-sanitisable reverse osmosis, membrane degasification, UV-oxidizing, electro deionisation, ultrafiltration)</p> <p>Cold storage and distribution:  <b>SANICIRCLE</b> with Ozone-/UV-sanitisation</p> <p>Switchboard with visualisation with MP377 (WinCC flex) acc. to 21CFR Part11 and Software acc. to GAMP</p> <p>Loop with water management</p>	<p>1 m<sup>3</sup>/h</p> <p>8 m<sup>3</sup>/h</p>
Novartis Vaccines GmbH Marburg/Germany	<p><b>Purified Water for production of pharmaceuticals:</b></p> <p><b>ECOSOFT-TS-VA</b> (hot-sanitisable softener),  <b>ROCEDIS PW-TS ECO</b> (hot-sanitisable reverse osmosis, and electro deionisation)  <b>ECO-design</b> with high water recovery</p> <p>Switchboard with MP377 and Software acc. to GAMP</p>	2 x 8 m <sup>3</sup> /h
Laboratorio Behrens, C.A. Caracas/Venezuela	<p><b>Pre-treatment for the Purified Water plant:</b></p> <p>Gravel filter, Backwash tanks, <b>NOVALIS</b> reverse osmosis plant</p> <p>Switchboard with TP170 and Software acc. to GAMP</p>	10 m <sup>3</sup> /h
Ildong Pharmaceutical Co.Ltd. Seoul/Republic of Korea	<p><b>Purified Water for production of pharmaceuticals:</b></p> <p><b>PHARMASOFT TS</b> (hot-sanitisable softener),  <b>ROCEDIS PW-TS</b> (hot-sanitisable 2-stage reverse osmosis, membrane degasification and electro deionisation)</p> <p>Switchboard with MP377 15" and Software acc. to GAMP</p>	8 m <sup>3</sup> /h
Novartis Pharma AG Basel/Switzerland	<p><b>Purified Water for production of pharmaceuticals:</b></p> <p>Softener,  <b>ROCEDIS PW-SS</b> (reverse osmosis, electro deionisation)</p> <p>Cold storage and distribution:  <b>SANICIRCLE</b> with Ozone-/UV-sanitisation</p> <p>Switchboard with MP277 8" and Software acc. to GAMP</p>	<p>2 m<sup>3</sup>/h</p> <p>15 m<sup>3</sup>/h</p>



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F.Hoffmann-La Roche AG Kaiseraugst/Switzerland	<b>Purified Water for production of pharmaceuticals:</b> <b>SANICIRCLE S</b> with ozone Switchboard with MP277 and Software acc. to GAMP	5 m <sup>3</sup> /h
Merck Serono S.A. Fenil-sur-Corsier/Switzerland	<b>Highly Purified Water for production of pharmaceuticals:</b> <b>PHARMASOFT TS</b> (hot-sanitisable softener), <b>ROCEDIS HPW-TS ECO</b> (hot-sanitisable reverse osmosis, membrane degasification and electro deionisation, ultrafiltration) <b>ECO-design</b> with high water recovery Switchboard with MP377 and Software acc. to GAMP	2 x 11.5 m <sup>3</sup> /h
Ronak Teheran/Iran	<b>Purified Water for production of pharmaceuticals:</b> Ultrafiltration, softener, <b>ROCEDIS PW-PP</b> (reverse osmosis, membrane degasification and electro deionisation) Switchboard with MP277 and Software acc. to GAMP	1.5 m <sup>3</sup> /h
Boehringer Ingelheim GmbH Biberach/Germany	<b>Purified Water for production of pharmaceuticals:</b> Softener, <b>ROCEDIS PW-PP ECO</b> (reverse osmosis, membrane degasification and electro deionisation) <b>ECO-design</b> with high water recovery Switchboard with MP277 and Software acc. to GAMP	3 m <sup>3</sup> /h
Fresenius Kabi Deutschland GmbH Friedberg/Germany	<b>Purified Water for production of pharmaceuticals:</b> <b>Membrane degasification</b> for CO <sub>2</sub> removal in an existing DI plant	25 m <sup>3</sup> /h
Vetter Pharma-Fertigung Ravensburg/Germany	<b>Purified Water for production of pharmaceuticals:</b> <b>ECOSOFT-TS</b> (hot-brine sanitisation), <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, membrane degasification and electro deionisation) Switchboard with MP277 and Software acc. to GAMP <b>FDA + cGMP -compliant qualification documentation</b>	2 x 10 m <sup>3</sup> /h

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Helvoet Pharma Belgium NV Alken/Belgium	<p><b>Purified Water for production of pharmaceuticals:</b></p> <p>Well water treatment with multimedia filter and UV</p> <p><b>PHARMASOFT</b> (Softener) <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, membrane degasification and electro deionisation)</p> <p>Switchboard with MP377 and Software acc. to GAMP</p> <p>Cold storage and distribution: <b>SANICIRCLE</b> with heat exchanger, Switchboard</p> <p>Loop</p> <p><b>Water for injection purposes (WFI):</b> Multistage distillation</p> <p>Hot storage and distribution: <b>SANICIRCLE</b> with DTS-heater, Switchboard</p> <p>Loop</p>	<p>4 m<sup>3</sup>/h</p> <p>30 m<sup>3</sup>/h</p> <p>2 m<sup>3</sup>/h</p> <p>30 m<sup>3</sup>/h</p>
Aventis Pharma Mfg Pte Ltd Singapore	<p><b>Highly Purified Water for production of pharmaceuticals:</b></p> <p><b>ULTRAFILTRATION</b> <b>ECOSOFT-TS</b> (hot-brine sanitisation), <b>ROCEDIS HPW-TS</b> (hot-sanitisable reverse osmosis, electro deionisation, ultrafiltration)</p> <p>Cold storage: <b>TANK</b></p> <p>Switchboard with MP370 and Software acc. to GAMP</p>	<p>3 m<sup>3</sup>/h</p> <p>5 m<sup>3</sup></p>
IMKA Sp. z o.o. Luban/Poland	<p><b>Ultrapure Water for the production of cosmetics:</b></p> <p><b>PHARMASOFT</b> (softening), <b>ROCEDIS PW-PP</b> (reverse osmosis, electro deionisation)</p> <p>Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation</p> <p>Switchboard with TP277 and Software acc. to GAMP</p>	<p>2 m<sup>3</sup>/h</p> <p>20 m<sup>3</sup>/h</p>
MERCK KGaA Darmstadt/Germany	<p>Retrofitting of the existing semiconductor plant to a pharmaceutical plant.</p> <p><b>NOVALIS®</b> <b>SANICIRCLE®.5000</b> with sterile and ultrafiltration</p>	<p>5.5 m<sup>3</sup>/h</p> <p>5.0 m<sup>3</sup>/h</p>
Boehringer Ingelheim GmbH Biberach/Germany	<p><b>Purified Water for production of pharmaceuticals:</b></p> <p><b>ECOSOFT-TS</b> (hot-brine sanitisation), <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation)</p> <p>Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation</p> <p>Switchboard with MP370 and Software acc. to GAMP</p>	<p>2 x 12.5 m<sup>3</sup>/h</p> <p>2 x 50 m<sup>3</sup>/h</p>
Ophtecs (Euro) Ltd. Limerick/Republic of Ireland	<p><b>PW &amp; WFi systems for production of contact lens fluids:</b></p> <p>Purified Water system including heat exchanger, GAC filter, softeners, 1<sup>e</sup> &amp; 2<sup>e</sup> RO, UV sterilisers, mixed bed &amp; storage etc</p> <p>Pure steam generator system</p> <p>WFi system including mixed bed polishers, heat exchanger, Still &amp; storage etc</p> <p><b>Product mixing &amp; filling systems</b></p>	<p>3 m<sup>3</sup>/h TW</p> <p>160 kg/h</p> <p>0.5 m<sup>3</sup>/h</p>

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Synthon, s.r.o. Blankso/Czech Republic	<b>Ultrapure Water for the production of pharmaceuticals:</b>  <b>PHARMASOFT</b> (softening), <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, membrane degassing and electro deionisation)  Cold storage and distribution: <b>SANICIRCLE</b> with UV and heat sanitisation  Switchboard with TP277 and Software acc. to GAMP	0.2 m <sup>3</sup> /h    8 m <sup>3</sup> /h
Pfizer GmbH Arzneimittelwerk Gödecke Freiburg/Germany	<b>Purified Water for laboratory and pharmaceuticals:</b>  <b>PHARMASOFT</b> <b>ROCEDIS PW-SS</b> (reverse osmosis, electro deionisation)  Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation  Loop  Switchboard with MP370 and Software acc. to GAMP	0.5 m <sup>3</sup> /h    2 x 5 m <sup>3</sup> /h
Win Cosmetic GmbH & Co. KG Flörsheim-Dalsheim/Germany	NOVALIS .TS-PW.2000	2 m <sup>3</sup> /h
Widatra Bhakti Pasuruan/Republic of Indonesia	<b>Purified Water for the production of pharmaceuticals:</b>  <b>PHARMASOFT</b> (softening), <b>ROCEDIS PW-PP</b> (reverse osmosis, electro deionisation)  Switchboard with TP277 and Software acc. to GAMP	8 m <sup>3</sup> /h
Sandoz GmbH Schafftenau/Austria	<b>Purified Water for the production of pharmaceuticals:</b>  <b>ECOSOFT</b> (softening), <b>ROCEDIS PW-SS</b> (reverse osmosis, membrane degassing, electro deionisation)  Switchboard with TP277	8 m <sup>3</sup> /h
Haupt Pharma GmbH Wolfratshausen/Germany	<b>Purified Water for the production of pharmaceuticals:</b>  Softener, <b>ROCEDIS PW-SS</b> (reverse osmosis, electro deionisation)  Switchboard with TP170B	2 m <sup>3</sup> /h
F.Hoffmann-La Roche AG CH-Kaiseraugst	PHARMASOFT-E.LTS 700 ROCEDIS.TS-PW.10000 SANICIRCLE.50000	200 l/h 8 m <sup>3</sup> /h 95 kg/h
Jaber Ebne Hayyan Pharm. Co. Teheran/Iran	<b>Purified Water for production of pharmaceuticals:</b>  <b>NOVALIS PW</b>  Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation  Loop  <b>Clean Steam:</b> Pure Steam Generator  Switchboard with TP170B and Software acc. to GAMP	0.2 m <sup>3</sup> /h    8 m <sup>3</sup> /h   95 kg/h
Mäurer + Wirtz GmbH & Co.KG Stolberg/Germany	NOVALIS.TS-PW.1000	750 l/h









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F.Hoffmann-La Roche AG Kaiseraugst/Switzerland 	<b>Purified Water for production of pharmaceuticals:</b>  <b>ECOSOFT-TS</b> (hot-brine sanitisation), <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation)  Cold storage and distribution: <b>SANICIRCLE</b> with Ozone  Switchboard with MP370 and Software acc. to GAMP	2 x 10 m <sup>3</sup> /h  50 m <sup>3</sup> /h
Baxter AG Vienna/Austria 	<b>Purified Water for production of pharmaceuticals:</b>  <b>ECOSOFT-TS</b> (hot-brine sanitisation), <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation)  Cold storage and distribution: <b>SANICIRCLE</b> with Ozone  Loop  Switchboard with MP370 and Software acc. to GAMP	2 x 8 m <sup>3</sup> /h  2 x 40 m <sup>3</sup> /h
Roche Diagnostics GmbH Penzberg/Germany 	<b>Purified Water pyrogenfree for production of pharmaceuticals:</b>  Cold storage and distribution: <b>SANICIRCLE</b> with Ultrafiltration and hot-sanitisation  Switchboard with visualisation via TP270 and Software acc. to GAMP	2.5 m <sup>3</sup> /h
Edwards Life sciences Singapore 	<b>Purified Water for production of pharmaceuticals:</b>  <b>ECOSOFT-TS</b> (hot-brine sanitisation), <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, electro deionisation)  Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation  Loop  Switchboard with MP270 and Software acc. to GAMP	1 m <sup>3</sup> /h  8 m <sup>3</sup> /h
bioMerieux bv The Netherlands 	<b>Compounding and Chemical Supply System</b>  <b>Highly Purified Water for production of pharmaceuticals:</b>  <b>PRE-TREATMENT</b> Activated Carbon Filter, PharmaSoft, NOVALIS <b>ROCEDIS HPW-TS</b> (hot-sanitisable reverse osmosis, membrane degassing, UV-oxidizing, electro deionisation, ultrafiltration)  Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation  Switchboard with visualisation via PC (WinCC) acc. to 21CFR Part11 and Software acc. to GAMP  Loop	1 m <sup>3</sup> /h  2 m <sup>3</sup> /h

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N.V. Organon The Netherlands	 <p><b>Purified Water for production of pharmaceuticals:</b></p> <p><b>ECOSOFT-TS</b> (hot-brine sanitisation),  <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis,  membrane degassing, electro deionisation)</p> <p><b>Water for Injections (WFI):</b>  Multi-stage distillation</p> <p><b>Clean Steam:</b>  Pure Steam Generator</p> <p>Switchboard with MP370 and Software acc. to GAMP</p>	<p>8 m<sup>3</sup>/h</p> <p>2.5 m<sup>3</sup>/h</p> <p>2 x 900 kg/h</p>
Nesvizh Russia	<p><b>Purified Water for production of pharmaceuticals:</b></p> <p>Ultrafiltration, Softening,  <b>NOVALIS ULTRACLEAN</b> (double-pass reverse osmosis)</p> <p>Switchboard with TP170B and Software acc. to GAMP</p>	<p>5 m<sup>3</sup>/h</p>
Petrovax Moscow/Russia	<p><b>Purified Water for production of pharmaceuticals:</b></p> <p>Raw water tank, Ultrafiltration, Softening,  <b>ROCEDIS PW-PP</b> (reverse osmosis, membrane degassing,  electro deionisation)</p> <p>Switchboard with TP170B and Software acc. to GAMP</p>	<p>2.2 m<sup>3</sup>/h</p>
L' Oréal Karlsruhe/Germany	<p><b>Ultrapure Water for the production of cosmetics:</b></p> <p><b>NOVALIS ULTRACLEAN</b> (double pass RO with membrane  degassing)</p> <p>Cold storage and distribution:  <b>SANICIRCLE</b> with Ozone-/UV-sanitisation</p> <p>Hot storage and distribution:  <b>SANICIRCLE</b> with hot sanitisation</p> <p>Switchboard with visualisation via Protool</p>	<p>10 m<sup>3</sup>/h</p> <p>45 m<sup>3</sup>/h</p> <p>30 m<sup>3</sup>/h</p>
Forma Vitrum St. Gallen/Switzerland	<p><b>Purified Water for pharmaceutical packaging:</b></p> <p>Softening, <b>ROCEDIS PW-PP</b> (Reverse Osmosis,  Electrodeionisation)</p> <p>Switchboard with TP170B and Software acc. to GAMP</p>	<p>6 m<sup>3</sup>/h</p>
Nycomed Austria GmbH Linz/Austria	 <p><b>Highly Purified Water for production of pharmaceuticals:</b></p> <p><b>PHARMASOFT TS</b> (hot sanitisable Softener),  <b>ROCEDIS HPW-TS</b> (hot sanitisable reverse osmosis,  membrane degassing, electro deionisation, ultrafiltration)</p> <p>Switchboard with TP170B and Software acc. to GAMP</p>	<p>2 x 4 m<sup>3</sup>/h</p>

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Anton Hübner Ehrenkirchen/Germany	<b>Purified Water for production of pharmaceuticals:</b> <b>ECOSOFT-TS</b> (hot-brine sanitisation), <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, electro deionisation) Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation Switchboard with visualisation via MP270 and Software acc. to GAMP Loop	4 m³/h 12 m³/h
Impfstoffwerk Dessau Tornau GmbH Rosslau/Germany	<b>Ultrapure Water for distillation:</b> <b>ECOSOFT-TS</b> (hot-brine sanitisation) <b>NOVALIS ULTRACLEAN-TS</b> (hot-sanitisable, double-pass reverse osmosis) Switchboard with TP170B and Software acc. to GAMP <b>FDA + cGMP -compliant qualification documentation</b>	2 m³/h
CILAG AG Schaffhausen/Switzerland	<b>Purified Water for production of pharmaceuticals:</b> <b>ECOSOFT-TS</b> (hot-brine sanitisation), <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation) Switchboard with TP170B and Software acc. to GAMP	1 m³/h
DRK Blutspendedienst Sprunge/Germany	<b>Purified Water for production of pharmaceuticals:</b> Softening, <b>ROCEDIS PW-SS</b> (reverse osmosis, membrane degassing, electro deionisation) Switchboard with TP170B and Software acc. to GAMP	0.5 m³/h
CHIRON Vaccines Marburg/Germany	<b>Purified Water for production of pharmaceuticals:</b> <b>ECOSOFT-TS-VA</b> (hot-sanitisable softening), <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, electro deionisation) Switchboard with IPC 77 and PCS 7 visualisation acc. 21CFR Part11 and Software acc. to GAMP	4 m³/h
Novartis AG Stein/Switzerland	<b>Purified Water for production of pharmaceuticals:</b> <b>ECOSOFT-TS-VA</b> (hot-sanitisable softening), <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation) Switchboard with TP170B and Software acc. to GAMP	6 m³/h
Becton Dickinson GmbH Heidelberg/Germany	<b>Purified Water for production of pharmaceuticals:</b> <b>ECOSOFT-TS</b> (hot-brine sanitisation), <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation) Switchboard with TP170B and Software acc. to GAMP	2 m³/h

Client	Plant Type	Capacity
CILAG AG Schaffhausen/Switzerland	<b>Purified Water for production of pharmaceuticals:</b> <b>ECOSOFT-TS</b> (hot-brine sanitisation), <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation, ultrafiltration)	5 m <sup>3</sup> /h
	Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation and periodical hot-sanitisation  Switchboard with visualisation via MP370 and Software acc. to GAMP	15 m <sup>3</sup> /h
SOHA Tehran/Iran	<b>Purified Water for production of pharmaceuticals:</b> Softening, <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation)	2 m <sup>3</sup> /h
	Switchboard with TP170B and Software acc. to GAMP <b>Ultrapure Water for the production of cosmetics:</b> Softening, <b>NOVALIS</b> (reverse osmosis)	10 m <sup>3</sup> /h
Mann & Schröder GmbH Siegelsbach/Germany	Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation	15 m <sup>3</sup> /h
	Switchboard with OP7 <b>Purified Water for production of pharmaceuticals:</b> <b>ECOSOFT-TS-VA</b> (hot-sanitisable softening), <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation)	4 m <sup>3</sup> /h
Merckle GmbH Blaubeuren/Germany	Switchboard with TP170B and Software acc. to GAMP <b>Purified Water for production of pharmaceuticals:</b> <b>ECOSOFT-TS</b> (hot-brine sanitisation) <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, electro deionisation)	1.5 m <sup>3</sup> /h
	Switchboard with TP170B and Software acc. to GAMP <b>Purified Water for production of pharmaceuticals:</b> <b>Deionisation</b> (strong acid cation exchanger, strong base anion exchanger)	10 m <sup>3</sup> /h
TheraSelect GmbH Marburg/Germany	Switchboard with TP170B and Software acc. to GAMP <b>FDA + cGMP -compliant qualification documentation</b>	
	<b>Purified Water pyrogenfree for production of            pharmaceuticals:</b> <b>NOVALIS PW-TS</b> (hot-sanitisable reverse osmosis)	2 m <sup>3</sup> /h
Roche Diagnostics GmbH Penzberg/Germany	Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation	8 m <sup>3</sup> /h
	Switchboard with visualisation via MP170 and Software acc. to GAMP  Loop	

Client	Plant Type	Capacity
Opfermann Arzneimittel GmbH Wiehl/Germany	 <p><b>Purified Water for production of pharmaceuticals:</b></p> <p>Softening, <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, electro deionisation)</p> <p>Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation</p> <p>Switchboard with TP170B and Software acc. to GAMP</p> <p><b>FDA + cGMP -compliant qualification documentation</b></p>	<p>0.5 m<sup>3</sup>/h</p> <p>5 m<sup>3</sup>/h</p>
Siegfried Biologics Kleinmachnow/Germany	<p><b>Purified Water for production of pharmaceuticals:</b></p> <p><b>ECOSOFT-TS</b> (hot-brine sanitisation), <b>ROCEDIS PW-PP</b> (reverse osmosis, membrane degassing, electro deionisation)</p> <p>Switchboard with TP170B and Software acc. to GAMP</p> <p><b>FDA + cGMP -compliant qualification documentation</b></p>	<p>1 m<sup>3</sup>/h</p>
Vetter Pharma-Fertigung Ravensburg/Germany	 <p><b>Highly Purified Water for production of pharmaceuticals:</b></p> <p><b>ECOSOFT-TS</b> (hot-brine sanitisation), <b>ROCEDIS HPW-TS</b> (hot-sanitisable reverse osmosis, electro deionisation, ultrafiltration)</p> <p>Switchboard with TP170B and Software acc. to GAMP</p> <p><b>FDA + cGMP -compliant qualification documentation</b></p>	<p>9 m<sup>3</sup>/h</p>
Merckle GmbH Ulm/Germany	 <p><b>Purified Water for the production of pharmaceuticals:</b></p> <p><b>ECOSOFT-TS</b> (hot-brine sanitisation), <b>ROCEDIS PW-SS</b> (reverse osmosis, membrane degassing, electro deionisation)</p> <p>Switchboard with TP170B and Software acc. to GAMP</p> <p><b>FDA + cGMP -compliant qualification documentation</b></p>	<p>2 m<sup>3</sup>/h</p>
Schering AG Berlin/Germany	<p><b>Purified Water for the production of pharmaceuticals:</b></p> <p>Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation</p> <p>Switchboard with visualisation via IPC</p> <p><b>FDA + cGMP -compliant qualification documentation</b></p>	<p>12 m<sup>3</sup>/h</p>
Laborchemie Apolda GmbH Apolda/Germany	 <p><b>Highly Purified Water for production of pharmaceuticals:</b></p> <p>Softening, <b>ROCEDIS HPW-TS</b> (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation, ultrafiltration)</p> <p>Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation</p> <p>Switchboard with visualisation via MP370 <b>RECON</b> Remote supervision and Software acc. to GAMP</p> <p><b>FDA + cGMP -compliant qualification documentation</b></p>	<p>4 m<sup>3</sup>/h</p> <p>15 m<sup>3</sup>/h</p>

Client	Plant Type	Capacity
Intervet International GmbH Unterschleißheim b. München Germany	<p><b>Purified Water for the production of pharmaceuticals:</b></p> <p>Softening, <b>ROCEDIS PW-PP</b> (reverse osmosis, membrane degassing, electro deionisation)</p> <p>Switchboard with TP170B and Software acc. to GAMP</p>	3.5 m³/h
BASF Pharma Chemikalien GmbH & Co, KG Minden/Germany	 <p><b>Highly Purified Water for production of pharmaceuticals:</b></p> <p>Hot-sanitisable reverse osmosis, ultrafiltration</p> <p>Cold storage and distribution: <b>SANICIRCLE</b> with UV and periodical hot-sanitisation</p> <p>Switchboard with TP170B and Software acc. to GAMP</p> <p><b>FDA + cGMP -compliant qualification documentation</b></p>	<p>2 m³/h</p> <p>20 m³/h</p>
Fresenius Kabi Austria GmbH Graz/Austria	 <p><b>Purified Water for the production of pharmaceuticals:</b></p> <p><b>ECOSOFT-TS</b> (hot-brine sanitisation) <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation)</p> <p>Switchboard with visualisation via MP370 and Software acc. to GAMP</p> <p><b>FDA + cGMP -compliant qualification documentation</b></p>	12 m³/h
Cognis Deutschland GmbH & Co. KG Germany	<p><b>Purified Water for the dilution of Glycerole:</b></p> <p>UV-disinfection, softening <b>ROCEDIS PW-SS</b> (reverse osmosis, electro deionisation)</p> <p>Ring main</p> <p>Switchboard with visualisation via MP370 and Software acc. to GAMP</p> <p><b>FDA + cGMP -compliant qualification documentation</b></p>	0.5 m³/h
Laboratorio Behrens, C.A. Caracas Venezuela	<p><b>Purified Water for the production of pharmaceuticals:</b></p> <p>Raw water break tank, multi-media filter, softening, <b>ROCEDIS PW-SS</b> (reverse osmosis, electro deionisation)</p> <p>Switchboard with TP170B and Software acc. to GAMP</p> <p><b>FDA + cGMP -compliant qualification documentation</b></p>	5 m³/h
Novartis Sağlık, Gıda ve Tarım Kurtköy – Pendik İstanbul/Turkey	 <p><b>Purified Water for the production of pharmaceuticals:</b></p> <p>Filtration, softening, soft water tank, <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation)</p> <p>Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation, DTS-cooler</p> <p>Ring main</p> <p>Switchboard with visualisation via Panel-PC and Software acc. to GAMP</p> <p><b>FDA + cGMP -compliant qualification documentation</b></p>	<p>0.5 m³/h</p> <p>15 m³/h</p>

Client	Plant Type	Capacity
Hoffmann-La Roche AG Grenzach-Wyhlen/Germany	<b>Ultrapure Water for the production of pharmaceuticals:</b>  Cold storage and distribution: <b>SANICIRCLE</b> with UV-sanitisation  Switchboard with OP7  <b>FDA + cGMP -compliant qualification documentation</b>	20 m <sup>3</sup> /h
L' Oréal Karlsruhe/Germany	<b>Ultrapure Water for the production of cosmetics:</b>  <b>NOVALIS ULTRACLEAN</b> (double-pass reverse osmosis with membrane degassing)	4 m <sup>3</sup> /h
Baxter AG Wien by PHÖNIX Krems Austria/Germany	<b>Ultrapure Water for the production of vaccines:</b>  <b>ECOSOFT-TS</b> (hot-sanitisable softening) NaOH-dosing station, UV-disinfection, <b>NOVALIS ULTRACLEAN-TS</b> (hot-sanitisable, double-pass reverse osmosis)  Switchboard with OP17 and Software acc. to GAMP  <b>FDA + cGMP -compliant qualification documentation</b>	15 m <sup>3</sup> /h 2 x 2.5 m <sup>3</sup> /h
Lonza Biotech s.r.o. Kourim, Czech Republic	<b>Ultrapure Water for the biotechnology:</b>  Dosing stations, <b>NOVALIS-TS</b> (hot-sanitisable reverse osmosis), sterile filter  Switchboard with OP17	4 m <sup>3</sup> /h
B.Braun, Melsungen through LSMW, Stuttgart Germany	<b>Ultrapure Water for the production of pharmaceuticals:</b>  <b>Demineralsation</b> (strong acid cation exchanger, strong basic anion exchanger), Neutralisation and chemical supply facilities  Switchboard with visualisation via PC (WinCC) acc. to 21CFR Part11 and Software acc. to GAMP  <b>FDA + cGMP -compliant qualification documentation</b>	35 m <sup>3</sup> /h
Lonza Biotech s.r.o. Kourim, Czech Republic through Chemoprag s.r.o., Prague	<b>Ultrapure Water for the biotechnology:</b>  Multi-media filter, dosing stations, <b>NOVALIS</b> (reverse osmosis in ex-proof design)  Switchboard with OP17	50 m <sup>3</sup> /h 25 m <sup>3</sup> /h
BASF Korea via SKEC Korea	<b>Ultrapure Water for the production of pharmaceuticals:</b>  Softening, <b>NOVALIS</b> (reverse osmosis), cleaning plant  Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation  Switchboard with OP17 and Software acc. to GAMP  <b>FDA + cGMP -compliant qualification documentation</b>	12 m <sup>3</sup> /h 22 m <sup>3</sup> /h
Chiron Behring GmbH & Co. Marburg/Germany	<b>Purified Water for the production of vaccines:</b>  Softening, <b>ROCEDIS PW-TS</b> (reverse osmosis, electro deionisation)  Reconditioning cold storage and distribution: <b>SANICIRCLE</b> with UV and periodical hot-sanitisation  Switchboard with visualisation via PC (WinCC) acc. 21CFR Part11 and Software acc. to GAMP  <b>FDA + cGMP -compliant qualification documentation</b>	1.5 m <sup>3</sup> /h


Client	Plant Type	Capacity
Infraserv GmbH & Co. Höchst KG Frankfurt/Germany	Purified Water for the production of pharmaceuticals:  Ecosoft-ts (hot-sanitisable softening), NaOH-dosing station, Rocedis pw-ts (hot-sanitisable reverse osmosis, electro deionisation)  Switchboard with visualisation via PC (WinCC) acc. 21CFR Part11 and Software acc. to GAMP  FDA + cGMP -compliant qualification documentation	240 m <sup>3</sup> /h
Aventis Behring GmbH Marburg/Germany	<b>Purified Water for the production of pharmaceuticals:</b>  Softening, <b>ROCEDIS PW-SS</b> (reverse osmosis, electro deionisation)  Switchboard with TP170B  <b>FDA + cGMP -compliant qualification documentation</b>	1.5 m <sup>3</sup> /h
Mappel Embalagens Ltda. São Paulo/Brazil  through AXIMA Ltda. Brazil	<b>Ultrapure Water for the production of pharmaceuticals:</b>  Softening, NaOH-dosing station, <b>NOVALIS ULTRACLEAN</b> (double-pass reverse osmosis)	0.2 m <sup>3</sup> /h
Sandoz GmbH Kundl/Austria	<b>Purified Water for the production of pharmaceuticals:</b>  <b>ECOSOFT</b> (softening), <b>ROCEDIS PW-SS</b> (reverse osmosis, membrane degassing, electro deionisation)  Switchboard with OP17  <b>FDA + cGMP -compliant qualification documentation</b>	2 x 8 m <sup>3</sup> /h
Sandoz GmbH Schaftebau/Austria	<b>Purified Water for the production of pharmaceuticals:</b>  <b>ECOSOFT</b> (softening), <b>ROCEDIS PW-SS</b> (reverse osmosis, membrane degassing, electro deionisation)  Switchboard with OP17  <b>FDA + cGMP -compliant qualification documentation</b>	8 m <sup>3</sup> /h
Berna Biotech AG Thörishaus Switzerland via Heinz Burkhalter AG SA Worblaufen/Switzerland	<b>Purified Water for the production of pharmaceuticals:</b>  Softening, <b>ROCEDIS PW-PP</b> (reverse osmosis, membrane degassing, electro deionisation)  Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation  Product contacted piping in pharmaceutical standard compliant PVDF-HP  Switchboard with OP17 and Software acc. to GAMP  <b>FDA + cGMP -compliant qualification documentation</b>	2.8 m <sup>3</sup> /h  12.6 m <sup>3</sup> /h





Client	Plant Type	Capacity
CAF-DCF Red Cross Belgium Nederoverheembeek Belgium	<b>Purified Water for blood fractionation:</b>  <b>ECOSOFT</b> (Softening), <b>ROCEDIS PW-PVC</b> (NaOH-dosing station, reverse osmosis, electro deionisation)  Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation, DTS-cooler  Ring main, Switchboard	10 m <sup>3</sup> /h  35 m <sup>3</sup> /h
<b>FDA + cGMP -compliant qualification documentation</b>		
GlaxoSmithKline Singapore  via Jacobs Engineering Singapore	<b>Purified Water for the production of pharmaceuticals:</b>  Heat exchanger, multi-media filter, UV-disinfection, Softening, <b>ROCEDIS PW-SS</b> (reverse osmosis, electro deionisation)  Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation, DTS-cooler  Ring main, Switchboard	1.2 m <sup>3</sup> /h  30 m <sup>3</sup> /h
<b>FDA + cGMP -compliant qualification documentation</b>		
Aventis Pharma Galenik Frankfurt/Germany	<b>Ultrapure Water for the production of pharmaceuticals:</b>  TOC-meter for continuously monitoring the quality of the Purified Water	
<b>FDA + cGMP -compliant qualification documentation</b>		
Vetter Pharma-Fertigung Langenargen/Germany	<b>Ultrapure Water for the production of pharmaceuticals:</b>  <b>ECOSOFT</b> (softening), NaOH-dosing station as a pre- treatment of an already existing reverse osmosis/ electro deionisation	15 m <sup>3</sup> /h
BASF AG Ludwigshafen/Germany	<b>Ultrapure Water for the production of pharmaceuticals:</b>  Strong acid cation exchanger  Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV sanitisation (explosion-proof design)	2 m <sup>3</sup> /h  10 m <sup>3</sup> /h
<b>FDA + cGMP -compliant qualification documentation</b>		
Merckle GmbH Ulm/Germany	<b>Purified Water for the production of pharmaceuticals:</b>  <b>ECOSOFT</b> (softening with internal piping in stainless steel), <b>ROCEDIS PW-SS</b> (reverse osmosis, membrane degassing, electro deionisation)  Switchboard with OP17	2 x 3 m <sup>3</sup> /h
<b>FDA + cGMP -compliant qualification documentation</b>		
Boehringer Ingelheim Ellas Athens/Greece	<b>Purified Water for the production of pharmaceuticals:</b>  Multi-media filter, softening, <b>ROCEDIS PW-SS</b> (reverse osmosis, electro deionisation)  Cold storage and distribution: <b>SANICIRCLE</b> with UV and periodical hot-sanitisation  Ring main, Switchboard	0.5 m <sup>3</sup> /h  8 m <sup>3</sup> /h
<b>FDA + cGMP -compliant qualification documentation</b>		

Client	Plant Type	Capacity
Infraserv GmbH & Co Höchst KG Frankfurt/Germany	<b>Ultrapure Water for the production of pharmaceuticals:</b>  Design of a central water treatment system for the industrial park of Höchst (Aventis)	300 m <sup>3</sup> /h
Beiersdorf Lechia Posen/Poland	<b>Ultrapure Water for the production of cosmetics:</b>  Softening, <b>NOVALIS ULTRACLEAN</b> (double-pass reverse osmosis, membrane degassing)  Cold storage and distribution for 3 ring mains: <b>SANICIRCLE</b> with UV and periodical hot-sanitisation  Ring main, Switchboard	4 m <sup>3</sup> /h  27 m <sup>3</sup> /h
National University of Singapore Bioprocessing Technology Centre Singapore	<b>Ultrapure water and steam for biotechnology-research:</b>  <b>Purified water (PW):</b> Raw water break tank with Ozone-/UV-sanitisation, multi-media filter, softening, <b>ROCEDIS PW-SS</b> (reverse osmosis, electro deionisation),  Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation, Switchboard  Ring main, Switchboard  <b>Water for injection purposes (WFI):</b> Multistage distillation  Hot storage and distribution: <b>SANICIRCLE</b> with DTS-heater, Switchboard  Ring main, Switchboard  <b>Pure steam:</b> Ultrapure steam generation and distribution, Switchboard  <b>FDA + cGMP -compliant qualification documentation</b>	0.6 m <sup>3</sup> /h  3.8 m <sup>3</sup> /h  0.6 m <sup>3</sup> /h  3.8 m <sup>3</sup> /h  300 kg/h
Bayer AG Leverkusen MKS-Works Cologne/Germany	<b>Purified Water for the production of pharmaceuticals:</b>  <b>ECOSOFT</b> (softening), <b>ROCEDIS PW-SS</b> (reverse osmosis, membrane degassing, electro deionisation)  <b>FDA + cGMP -compliant qualification documentation</b>	4.0 m <sup>3</sup> /h
AVON Cosmetics GmbH Neufahrn-Freising Germany	<b>Ultrapure Water for the production of cosmetics:</b>  Increase in the performance of softening, <b>NOVALIS</b> (reverse osmosis), UV-disinfection	1.5 m <sup>3</sup> /h
MTN Medizintechnik Neubrandenburg GmbH & Co. KG Neubrandenburg/Germany	<b>Ultrapure water for production of dialysis concentrates:</b>  Raw water break station, softening, <b>NOVALIS ULTRACLEAN</b> (double-pass reverse osmosis, WCF-increase with reverse osmosis NOVALIS SB Plus)  Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation	2 x 4 m <sup>3</sup> /h

Client	Plant Type	Capacity
SmithKline Beecham Singapore  via Kvaerner Singapore	 <p><b>Purified Water for the production of pharmaceuticals:</b></p> <p>Multi-media filtration, softening, <b>ROCEDIS PW-TS</b> (hot-sanitisable reverse osmosis, electro deionisation)</p> <p>Cold storage and distribution: <b>SANICIRCLE</b> with UV and periodical hot-sanitisation</p> <p>Ring main, Switchboard</p> <p><b>FDA + cGMP -compliant qualification documentation</b></p>	<p>3.5 m<sup>3</sup>/h</p> <p>25 m<sup>3</sup>/h</p>
HR Florasynth Grasse/France	<p><b>Ultrapure Water for the production of cosmetics:</b></p> <p>Softening, <b>NOVALIS</b> (reverse osmosis)</p> <p>Cold storage and distribution: <b>SANICIRCLE</b> with UV-sanitisation</p>	<p>0.7 m<sup>3</sup>/h</p> <p>4 m<sup>3</sup>/h</p>
L' Oréal Karlsruhe/Germany	<p><b>Ultrapure Water for the production of cosmetics:</b></p> <p><b>ECOSOFT</b> (softening) <b>NOVALIS ULTRACLEAN</b> (double-pass reverse osmosis, membrane degassing)</p> <p>Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation</p> <p>Hot storage and distribution: <b>SANICIRCLE</b> with DTS-heater</p> <p>Ring main, Switchboard</p>	<p>30 m<sup>3</sup>/h</p> <p>4 m<sup>3</sup>/h</p> <p>60 m<sup>3</sup>/h</p> <p>60 m<sup>3</sup>/h</p>
B.F. Goodrich Diamalt GmbH Raubling/Germany	<p><b>Purified Water for the production of pharmaceuticals:</b></p> <p>Softening, <b>ROCEDIS PW-SS</b> (reverse osmosis, membrane degassing, electro deionisation)</p> <p>Switchboard</p> <p><b>FDA + cGMP -compliant qualification documentation</b></p>	<p>1.5 m<sup>3</sup>/h</p>
Ossacur Oberstenfeld  via Vetter Injekt / Ravensburg Germany	<p><b>Ultrapure Water for the production of pharmaceuticals:</b></p> <p><b>NOVALIS ULTRACLEAN</b> (double-pass reverse osmosis, membrane degassing)</p>	<p>3.4 m<sup>3</sup>/h</p>
Artemis Pharma Cologne/Germany	<p><b>Ultrapure Water for the production of pharmaceuticals:</b></p> <p>Softening, <b>NOVALIS</b> (reverse osmosis)</p>	<p>0.25 m<sup>3</sup>/h</p>
Aventis Pharma Galenik Frankfurt/Germany	<p><b>Purified Water for the production of pharmaceuticals:</b></p> <p>Softening, <b>ROCEDIS PW-SS</b> (reverse osmosis, membrane degassing, electro deionisation)</p> <p>Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation</p> <p>Ring main, Switchboard</p> <p><b>FDA + cGMP -compliant qualification documentation</b></p>	<p>0.5 m<sup>3</sup>/h</p> <p>13 m<sup>3</sup>/h</p>

Client	Plant Type	Capacity
Pharmacia Deutschland GmbH Freiburg/Germany	<b>Purified Water for the production of pharmaceuticals:</b>	
	Softening, <b>ROCEDIS PW-SS</b> (reverse osmosis, membrane degassing, electro deionisation),	1 m <sup>3</sup> /h
	Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation	15 m <sup>3</sup> /h
	Ring main, Switchboard	
	Neutralisation- und decontaminationsystem	
	<b>FDA + cGMP -compliant qualification documentation</b>	
BASF AG Ludwigshafen/Germany	<b>Ultrapure Water for the production of pharmaceuticals:</b>	
	Strong acid cation exchanger	20 m <sup>3</sup> /h
	Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation	
	Ring main, Switchboard	
	<b>FDA + cGMP -compliant qualification documentation</b>	
Novartis Stein/Switzerland	<b>Ultrapure Water for the production of pharmaceuticals:</b>	
	Reconstruction of an already existing reverse osmosis plant	2 x 15 m <sup>3</sup> /h
Boehringer GmbH Ingelheim/Germany	<b>Ultrapure Water for the power generation and the production of pharmaceuticals:</b>	
	Scavenger filter, dosing station, UV-disinfection, <b>NOVALIS ULTRACLEAN</b> (double-pass reverse osmosis)	130 m <sup>3</sup> /h 25 - 100 m <sup>3</sup> /h
	<b>FDA + cGMP -compliant qualification documentation</b>	
	<b>Purified Water for the production of pharmaceuticals:</b>	
F. Hoffmann La Roche Basel/Switzerland	UV-disinfection, dosing station, <b>NOVALIS ULTRACLEAN-TS</b> (hot-sanitisable, double-pass reverse osmosis)	4 x 50 m <sup>3</sup> /h
	<b>FDA + cGMP -compliant qualification documentation</b>	
	Mixed bed exchanger for boiler feed water treatment	2 x 100 m <sup>3</sup> /h
	Mixed bed exchanger for condensate treatment	2 x 80 m <sup>3</sup> /h
Ciba Vision Munich/Germany	<b>Purified Water for the production of pharmaceuticals:</b>	
	Softening, <b>NOVALIS ULTRACLEAN</b> (double-pass reverse osmosis)	2 m <sup>3</sup> /h
Swiss Pharma Cairo, Egypt Subsidiary of Ciba Geigy S.A. Switzerland	<b>Purified Water for the production of pharmaceuticals:</b>	
	SERVO-Flockopak, multi-media filter, softening, <b>NOVALIS ULTRACLEAN</b> (double-pass reverse osmosis)	4 m <sup>3</sup> /h
	Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation	
Human Institute for Sero-bacteriology Vác Hungary  via Wedeco/Herford	<b>Ultrapure Water for the production of pharmaceuticals:</b>	
	<b>Demineralisation</b> (strong acid cation exchanger, strong basic anion exchanger), buffering exchanger	20 m <sup>3</sup> /h

Client	Plant Type	Capacity
Sandoz Pharmaceuticals GmbH Gerlingen/Germany	<b>Purified Water for the production of pharmaceuticals:</b> Softening, <b>NOVALIS ULTRACLEAN</b> (double-pass reverse osmosis)  Cold storage and distribution: <b>SANICIRCLE</b> with UV-sanitisation	0.3 m <sup>3</sup> /h
Novartis Stein Switzerland	<b>Purified Water for the production of pharmaceuticals:</b> UV-disinfection, decarbonisation, stripper, <b>NOVALIS ULTRACLEAN</b> (double-pass reverse osmosis)  Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation	2 x 15 m <sup>3</sup> /h
Novartis Basel Switzerland	<b>Purified Water for the production of pharmaceuticals:</b> Dosing, <b>NOVALIS ULTRACLEAN</b> (double-pass reverse osmosis)  Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation  SERVO-PC-Tronic Monitoringsystem	2 – 18 m <sup>3</sup> /h
Ciba Vision Munich Germany	<b>Purified Water for the production of pharmaceuticals:</b> Softening, <b>NOVALIS ULTRACLEAN</b> (double-pass reverse osmosis)  Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation	2 m <sup>3</sup> /h
Sandoz GmbH Kundl Austria	<b>Purified Water for the production of pharmaceuticals:</b> Pre-heating, ozonisation, UV-disinfection, stripper <b>NOVALIS ULTRACLEAN</b> (double-pass reverse osmosis)  Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation  Monitoring system	10/15 m <sup>3</sup> /h
Aventis Scoppito (L Aquila) Italy	<b>Ultrapure Water for the production of pharmaceuticals:</b> <b>Demineralisation</b> (strong acid cation exchanger, strong basic anion exchanger)	4 m <sup>3</sup> /h
Novartis Huningue France	<b>Purified Water for the pharmaceutical industry:</b> Ozonisation, dosing, UV-disinfection, stripper <b>NOVALIS ULTRACLEAN</b> (double-pass reverse osmosis)  Cold storage and distribution: <b>SANICIRCLE</b> with Ozone-/UV-sanitisation	1.6 m <sup>3</sup> /h

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