

REFERENCE LIST

SEMICONDUCTOR
SOLAR
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MINING
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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 ³ /h 5 m ³ /h
Boehringer Ingelheim Koropi, Greece (currently in progress)	SANICIRCLE 5000 TS Extension of existing loop	5 m ³ /h
Datwyler Pharma Belgium NV Alken (currently in progress)	Multi-media filter, UV PHARMASOFT 900 ROCEDIS 4000 PW-TS	4 m ³ /h
TEVA via M+W PI Vilnius, Lithuania (currently in progress)	PHARMASOFT 300 TS ROCEDIS 1000 PW-TS	2 x 1 m ³ /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 ³ /h 9 m ³ /h 6 m ³ /h 20 m ³ /h 1.670 l/h 5 m ³ /h 10 m ³ /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 ³ /h 3m ³ /h 200kg/h 3m ³ /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 ³ /h 2 x 10m ³ /h 8 to 50m ³ /h 2 x 4m ³ /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 ³ /h 2 x 8m ³ /h 20m ³ /h 2 x 5.7m ³ /h 5m ³ /h
DSM Nutritional Products AG Sisseln, Switzerland	PHARMASOFT 300 TS ROCEDIS 4000 PW-TS	0.5 m ³ /h
Merckle Biotec GmbH Ulm, Germany	ECOSOFT 450 TS ROC-TSDIS 4000 PW	4 m ³ /h
Fresenius Jaguarina, Sao Paulo, Brazil	ULTRALIS 25000 PHARMASOFT 700 TS, ROCEDIS 6000 HPW-TS SANICIRCLE 15000	25 m ³ /h 6 m ³ /h 15 m ³ /h
Mann & Schroder GmbH Siegersbach, Germany	SANICIRCLE 5000	5 m ³ /h
Baxter Bioscience Mfg Sarl Neuchatel, Switzerland	ECOSOFT 1000 TS NOVALIS 15000 PW-TS	50 m ³ /h 15 m ³ /h

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






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



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Bayer Türk Kimya San. Ltd. Sti. Istanbul/Turkey	<p>Purified Water for production of pharmaceuticals:</p> <p>PRE-TREATMENT Multi Media Filter, Antiscalant- and Bisulfite-Dosing</p> <p>ROCEDIS PW-TS (hot-sanitisable double-pass reverse osmosis, membrane degasification, electro deionisation)</p> <p>Cold storage and distribution: SANICIRCLE with UV and periodical hot sanitisation</p> <p>Switchboard with MP377 and Software acc. to GAMP</p>	<p>3 m³/h</p> <p>2 x 5 m³/h</p>
Novartis Ürünleri Kurtköy/Pendik Istanbul/Turkey	<p>Pre-treatment for the Purified Water plant:</p> <p>Raw Water Ultrafiltration</p> <p>Extension of existing Purified Water Plant</p>	<p>3 m³/h</p> <p>1 m³/h</p>
bioMerieux bv Grenoble/France	<p>Highly Purified Water for production of pharmaceuticals:</p> <p>PRE-TREATMENT Activated Carbon Filter, PharmaSoft, NOVALIS</p> <p>ROCEDIS HPW-TS (hot-sanitisable reverse osmosis, membrane degasification, UV-oxidizing, electro deionisation, ultrafiltration)</p> <p>Cold storage and distribution: SANICIRCLE 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 m³/h</p> <p>8 m³/h</p>
Novartis Vaccines GmbH Marburg/Germany	<p>Purified Water for production of pharmaceuticals:</p> <p>ECOSOFT-TS-VA (hot-sanitisable softener), ROCEDIS PW-TS ECO (hot-sanitisable reverse osmosis, and electro deionisation) ECO-design with high water recovery</p> <p>Switchboard with MP377 and Software acc. to GAMP</p>	<p>2 x 8 m³/h</p>
Laboratorio Behrens, C.A. Caracas/Venezuela	<p>Pre-treatment for the Purified Water plant:</p> <p>Gravel filter, Backwash tanks, NOVALIS reverse osmosis plant</p> <p>Switchboard with TP170 and Software acc. to GAMP</p>	<p>10 m³/h</p>
Ildong Pharmaceutical Co.Ltd. Seoul/Republic of Korea	<p>Purified Water for production of pharmaceuticals:</p> <p>PHARMASOFT TS (hot-sanitisable softener), ROCEDIS PW-TS (hot-sanitisable 2-stage reverse osmosis, membrane degasification and electro deionisation)</p> <p>Switchboard with MP377 15" and Software acc. to GAMP</p>	<p>8 m³/h</p>
Novartis Pharma AG Basel/Switzerland	<p>Purified Water for production of pharmaceuticals:</p> <p>Softener, ROCEDIS PW-SS (reverse osmosis, electro deionisation)</p> <p>Cold storage and distribution: SANICIRCLE with Ozone-/UV-sanitisation</p> <p>Switchboard with MP277 8" and Software acc. to GAMP</p>	<p>2 m³/h</p> <p>15 m³/h</p>

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

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Helvoet Pharma Belgium NV Alken/Belgium	<p>Purified Water for production of pharmaceuticals:</p> <p>Well water treatment with multimedia filter and UV</p> <p>PHARMASOFT (Softener) ROCEDIS PW-TS (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: SANICIRCLE with heat exchanger, Switchboard</p> <p>Loop</p> <p>Water for injection purposes (WFI): Multistage distillation</p> <p>Hot storage and distribution: SANICIRCLE with DTS-heater, Switchboard</p> <p>Loop</p>	<p>4 m³/h</p> <p>30 m³/h</p> <p>2 m³/h</p> <p>30 m³/h</p>
Aventis Pharma Mfg Pte Ltd Singapore	<p>Highly Purified Water for production of pharmaceuticals:</p> <p>ULTRAFILTRATION ECOSOFT-TS (hot-brine sanitisation), ROCEDIS HPW-TS (hot-sanitisable reverse osmosis, electro deionisation, ultrafiltration)</p> <p>Cold storage: TANK</p> <p>Switchboard with MP370 and Software acc. to GAMP</p>	<p>3 m³/h</p> <p>5 m³</p>
IMKA Sp. z o.o. Luban/Poland	<p>Ultrapure Water for the production of cosmetics:</p> <p>PHARMASOFT (softening), ROCEDIS PW-PP (reverse osmosis, electro deionisation)</p> <p>Cold storage and distribution: SANICIRCLE with Ozone-/UV-sanitisation</p> <p>Switchboard with TP277 and Software acc. to GAMP</p>	<p>2 m³/h</p> <p>20 m³/h</p>
MERCK KGaA Darmstadt/Germany	<p>Retrofitting of the existing semiconductor plant to a pharmaceutical plant.</p> <p>NOVALIS® SANICIRCLE®.5000 with sterile and ultrafiltration</p>	<p>5.5 m³/h</p> <p>5.0 m³/h</p>
Boehringer Ingelheim GmbH Biberach/Germany	<p>Purified Water for production of pharmaceuticals:</p> <p>ECOSOFT-TS (hot-brine sanitisation), ROCEDIS PW-TS (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation)</p> <p>Cold storage and distribution: SANICIRCLE with Ozone-/UV-sanitisation</p> <p>Switchboard with MP370 and Software acc. to GAMP</p>	<p>2 x 12.5 m³/h</p> <p>2 x 50 m³/h</p>
Ophtecs (Euro) Ltd. Limerick/Republic of Ireland	<p>PW & WFi systems for production of contact lens fluids:</p> <p>Purified Water system including heat exchanger, GAC filter, softeners, 1° & 2° RO, UV sterilisers, mixed bed & storage etc</p> <p>Pure steam generator system</p> <p>WFi system including mixed bed polishers, heat exchanger, Still & storage etc</p> <p>Product mixing & filling systems</p>	<p>3 m³/h TW</p> <p>160 kg/h</p> <p>0.5 m³/h</p>

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Synthon, s.r.o. Blankso/Czech Republic	Ultrapure Water for the production of pharmaceuticals: PHARMASOFT (softening), ROCEDIS PW-TS (hot-sanitisable reverse osmosis, membrane degassing and electro deionisation) Cold storage and distribution: SANICIRCLE with UV and heat sanitisation Switchboard with TP277 and Software acc. to GAMP	0.2 m ³ /h 8 m ³ /h
Pfizer GmbH Arzneimittelwerk Gödecke Freiburg/Germany	Purified Water for laboratory and pharmaceuticals: PHARMASOFT ROCEDIS PW-SS (reverse osmosis, electro deionisation) Cold storage and distribution: SANICIRCLE with Ozone-/UV-sanitisation Loop Switchboard with MP370 and Software acc. to GAMP	0.5 m ³ /h 2 x 5 m ³ /h
Win Cosmetic GmbH & Co. KG Flörsheim-Dalsheim/Germany	NOVALIS .TS-PW.2000	2 m ³ /h
Widatra Bhakti Pasuruan/Republic of Indonesia	Purified Water for the production of pharmaceuticals: PHARMASOFT (softening), ROCEDIS PW-PP (reverse osmosis, electro deionisation) Switchboard with TP277 and Software acc. to GAMP	8 m ³ /h
Sandoz GmbH Schafftenau/Austria	Purified Water for the production of pharmaceuticals: ECOSOFT (softening), ROCEDIS PW-SS (reverse osmosis, membrane degassing, electro deionisation) Switchboard with TP277	8 m ³ /h
Haupt Pharma GmbH Wolfratshausen/Germany	Purified Water for the production of pharmaceuticals: Softener, ROCEDIS PW-SS (reverse osmosis, electro deionisation) Switchboard with TP170B	2 m ³ /h
F.Hoffmann-La Roche AG CH-Kaiseraugst	PHARMASOFT-E.LTS 700 ROCEDIS.TS-PW.10000 SANICIRCLE.50000	200 l/h 8 m ³ /h 95 kg/h
Jaber Ebne Hayyan Pharm. Co. Teheran/Iran	Purified Water for production of pharmaceuticals: NOVALIS PW Cold storage and distribution: SANICIRCLE with Ozone-/UV-sanitisation Loop Clean Steam: Pure Steam Generator Switchboard with TP170B and Software acc. to GAMP	0.2 m ³ /h 8 m ³ /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 	Purified Water for production of pharmaceuticals: ECOSOFT-TS (hot-brine sanitisation), ROCEDIS PW-TS (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation) Cold storage and distribution: SANICIRCLE with Ozone Switchboard with MP370 and Software acc. to GAMP	2 x 10 m ³ /h 50 m ³ /h
Baxter AG Vienna/Austria 	Purified Water for production of pharmaceuticals: ECOSOFT-TS (hot-brine sanitisation), ROCEDIS PW-TS (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation) Cold storage and distribution: SANICIRCLE with Ozone Loop Switchboard with MP370 and Software acc. to GAMP	2 x 8 m ³ /h 2 x 40 m ³ /h
Roche Diagnostics GmbH Penzberg/Germany 	Purified Water pyrogenfree for production of pharmaceuticals: Cold storage and distribution: SANICIRCLE with Ultrafiltration and hot-sanitisation Switchboard with visualisation via TP270 and Software acc. to GAMP	2.5 m ³ /h
Edwards Life sciences Singapore 	Purified Water for production of pharmaceuticals: ECOSOFT-TS (hot-brine sanitisation), ROCEDIS PW-TS (hot-sanitisable reverse osmosis, electro deionisation) Cold storage and distribution: SANICIRCLE with Ozone-/UV-sanitisation Loop Switchboard with MP270 and Software acc. to GAMP	1 m ³ /h 8 m ³ /h
bioMerieux bv The Netherlands 	Compounding and Chemical Supply System Highly Purified Water for production of pharmaceuticals: PRE-TREATMENT Activated Carbon Filter, PharmaSoft, NOVALIS ROCEDIS HPW-TS (hot-sanitisable reverse osmosis, membrane degassing, UV-oxidizing, electro deionisation, ultrafiltration) Cold storage and distribution: SANICIRCLE with Ozone-/UV-sanitisation Switchboard with visualisation via PC (WinCC) acc. to 21CFR Part11 and Software acc. to GAMP Loop	1 m ³ /h 2 m ³ /h

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N.V. Organon The Netherlands	 <p>Purified Water for production of pharmaceuticals:</p> <p>ECOSOFT-TS (hot-brine sanitisation), ROCEDIS PW-TS (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation)</p> <p>Water for Injections (WFI): Multi-stage distillation</p> <p>Clean Steam: Pure Steam Generator</p> <p>Switchboard with MP370 and Software acc. to GAMP</p>	<p>8 m³/h</p> <p>2.5 m³/h</p> <p>2 x 900 kg/h</p>
Nesvizh Russia	<p>Purified Water for production of pharmaceuticals:</p> <p>Ultrafiltration, Softening, NOVALIS ULTRACLEAN (double-pass reverse osmosis)</p> <p>Switchboard with TP170B and Software acc. to GAMP</p>	<p>5 m³/h</p>
Petrovax Moscow/Russia	<p>Purified Water for production of pharmaceuticals:</p> <p>Raw water tank, Ultrafiltration, Softening, ROCEDIS PW-PP (reverse osmosis, membrane degassing, electro deionisation)</p> <p>Switchboard with TP170B and Software acc. to GAMP</p>	<p>2.2 m³/h</p>
L' Oréal Karlsruhe/Germany	<p>Ultrapure Water for the production of cosmetics:</p> <p>NOVALIS ULTRACLEAN (double pass RO with membrane degassing)</p> <p>Cold storage and distribution: SANICIRCLE with Ozone-/UV-sanitisation</p> <p>Hot storage and distribution: SANICIRCLE with hot sanitisation</p> <p>Switchboard with visualisation via Protool</p>	<p>10 m³/h</p> <p>45 m³/h</p> <p>30 m³/h</p>
Forma Vitrum St. Gallen/Switzerland	<p>Purified Water for pharmaceutical packaging:</p> <p>Softening, ROCEDIS PW-PP (Reverse Osmosis, Electrodeionisation)</p> <p>Switchboard with TP170B and Software acc. to GAMP</p>	<p>6 m³/h</p>
Nycomed Austria GmbH Linz/Austria	 <p>Highly Purified Water for production of pharmaceuticals:</p> <p>PHARMASOFT TS (hot sanitisable Softener), ROCEDIS HPW-TS (hot sanitisable reverse osmosis, membrane degassing, electro deionisation, ultrafiltration)</p> <p>Switchboard with TP170B and Software acc. to GAMP</p>	<p>2 x 4 m³/h</p>

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Anton Hübner Ehrenkirchen/Germany	Purified Water for production of pharmaceuticals: ECOSOFT-TS (hot-brine sanitisation), ROCEDIS PW-TS (hot-sanitisable reverse osmosis, electro deionisation) Cold storage and distribution: SANICIRCLE 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	Ultrapure Water for distillation: ECOSOFT-TS (hot-brine sanitisation) NOVALIS ULTRACLEAN-TS (hot-sanitisable, double-pass reverse osmosis) Switchboard with TP170B and Software acc. to GAMP FDA + cGMP -compliant qualification documentation	2 m³/h
CILAG AG Schaffhausen/Switzerland	Purified Water for production of pharmaceuticals: ECOSOFT-TS (hot-brine sanitisation), ROCEDIS PW-TS (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation) Switchboard with TP170B and Software acc. to GAMP	1 m³/h
DRK Blutspendedienst Sprunge/Germany	Purified Water for production of pharmaceuticals: Softening, ROCEDIS PW-SS (reverse osmosis, membrane degassing, electro deionisation) Switchboard with TP170B and Software acc. to GAMP	0.5 m³/h
CHIRON Vaccines Marburg/Germany	Purified Water for production of pharmaceuticals: ECOSOFT-TS-VA (hot-sanitisable softening), ROCEDIS PW-TS (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	Purified Water for production of pharmaceuticals: ECOSOFT-TS-VA (hot-sanitisable softening), ROCEDIS PW-TS (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation) Switchboard with TP170B and Software acc. to GAMP	6 m³/h
Becton Dickinson GmbH Heidelberg/Germany	Purified Water for production of pharmaceuticals: ECOSOFT-TS (hot-brine sanitisation), ROCEDIS PW-TS (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation) Switchboard with TP170B and Software acc. to GAMP	2 m³/h

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CILAG AG Schaffhausen/Switzerland	<p>Purified Water for production of pharmaceuticals:</p> <p>ECOSOFT-TS (hot-brine sanitisation), ROCEDIS PW-TS (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation, ultrafiltration)</p> <p>Cold storage and distribution: SANICIRCLE with Ozone-/UV-sanitisation and periodical hot-sanitisation</p> <p>Switchboard with visualisation via MP370 and Software acc. to GAMP</p>	<p>5 m³/h</p> <p>15 m³/h</p>
SOHA Tehran/Iran	<p>Purified Water for production of pharmaceuticals:</p> <p>Softening, ROCEDIS PW-TS (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation)</p> <p>Switchboard with TP170B and Software acc. to GAMP</p>	2 m ³ /h
Mann & Schröder GmbH Siegelsbach/Germany	<p>Ultrapure Water for the production of cosmetics:</p> <p>Softening, NOVALIS (reverse osmosis)</p> <p>Cold storage and distribution: SANICIRCLE with Ozone-/UV-sanitisation</p> <p>Switchboard with OP7</p>	<p>10 m³/h</p> <p>15 m³/h</p>
Merckle GmbH Blaubeuren/Germany	<p>Purified Water for production of pharmaceuticals:</p> <p>ECOSOFT-TS-VA (hot-sanitisable softening), ROCEDIS PW-TS (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation)</p> <p>Switchboard with TP170B and Software acc. to GAMP</p>	4 m ³ /h
InnoBio Kuala Lumpur/Malaysia	<p>Purified Water for production of pharmaceuticals:</p> <p>ECOSOFT-TS (hot-brine sanitisation) ROCEDIS PW-TS (hot-sanitisable reverse osmosis, electro deionisation)</p> <p>Switchboard with TP170B and Software acc. to GAMP</p>	1.5 m ³ /h
TheraSelect GmbH Marburg/Germany	<p>Purified Water for production of pharmaceuticals:</p> <p>Deionisation (strong acid cation exchanger, strong base anion exchanger)</p> <p>Switchboard with TP170B and Software acc. to GAMP</p> <p>FDA + cGMP -compliant qualification documentation</p>	10 m ³ /h
Roche Diagnostics GmbH Penzberg/Germany	<p>Purified Water pyrogenfree for production of pharmaceuticals:</p> <p>NOVALIS PW-TS (hot-sanitisable reverse osmosis)</p> <p>Cold storage and distribution: SANICIRCLE with Ozone-/UV-sanitisation</p> <p>Switchboard with visualisation via MP170 and Software acc. to GAMP</p> <p>Loop</p>	<p>2 m³/h</p> <p>8 m³/h</p>

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Opfermann Arzneimittel GmbH Wiehl/Germany	 <p>Purified Water for production of pharmaceuticals:</p> <p>Softening, ROCEDIS PW-TS (hot-sanitisable reverse osmosis, electro deionisation)</p> <p>Cold storage and distribution: SANICIRCLE with Ozone-/UV-sanitisation</p> <p>Switchboard with TP170B and Software acc. to GAMP</p> <p>FDA + cGMP -compliant qualification documentation</p>	<p>0.5 m³/h</p> <p>5 m³/h</p>
Siegfried Biologics Kleinmachnow/Germany	<p>Purified Water for production of pharmaceuticals:</p> <p>ECOSOFT-TS (hot-brine sanitisation), ROCEDIS PW-PP (reverse osmosis, membrane degassing, electro deionisation)</p> <p>Switchboard with TP170B and Software acc. to GAMP</p> <p>FDA + cGMP -compliant qualification documentation</p>	<p>1 m³/h</p>
Vetter Pharma-Fertigung Ravensburg/Germany	 <p>Highly Purified Water for production of pharmaceuticals:</p> <p>ECOSOFT-TS (hot-brine sanitisation), ROCEDIS HPW-TS (hot-sanitisable reverse osmosis, electro deionisation, ultrafiltration)</p> <p>Switchboard with TP170B and Software acc. to GAMP</p> <p>FDA + cGMP -compliant qualification documentation</p>	<p>9 m³/h</p>
Merckle GmbH Ulm/Germany	 <p>Purified Water for the production of pharmaceuticals:</p> <p>ECOSOFT-TS (hot-brine sanitisation), ROCEDIS PW-SS (reverse osmosis, membrane degassing, electro deionisation)</p> <p>Switchboard with TP170B and Software acc. to GAMP</p> <p>FDA + cGMP -compliant qualification documentation</p>	<p>2 m³/h</p>
Schering AG Berlin/Germany	<p>Purified Water for the production of pharmaceuticals:</p> <p>Cold storage and distribution: SANICIRCLE with Ozone-/UV-sanitisation</p> <p>Switchboard with visualisation via IPC</p> <p>FDA + cGMP -compliant qualification documentation</p>	<p>12 m³/h</p>
Laborchemie Apolda GmbH Apolda/Germany	 <p>Highly Purified Water for production of pharmaceuticals:</p> <p>Softening, ROCEDIS HPW-TS (hot-sanitisable reverse osmosis, membrane degassing, electro deionisation, ultrafiltration)</p> <p>Cold storage and distribution: SANICIRCLE with Ozone-/UV-sanitisation</p> <p>Switchboard with visualisation via MP370 RECON Remote supervision and Software acc. to GAMP</p> <p>FDA + cGMP -compliant qualification documentation</p>	<p>4 m³/h</p> <p>15 m³/h</p>

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


Client	Plant Type	Capacity
Hoffmann-La Roche AG Grenzach-Wyhlen/Germany	<p>Ultrapure Water for the production of pharmaceuticals:</p> <p>Cold storage and distribution: SANICIRCLE with UV-sanitisation</p> <p>Switchboard with OP7</p> <p>FDA + cGMP -compliant qualification documentation</p>	20 m ³ /h
L' Oréal Karlsruhe/Germany	<p>Ultrapure Water for the production of cosmetics:</p> <p>NOVALIS ULTRACLEAN (double-pass reverse osmosis with membrane degassing)</p>	4 m ³ /h
Baxter AG Wien by PHÖNIX Krems Austria/Germany	<p>Ultrapure Water for the production of vaccines:</p> <p>ECOSOFT-TS (hot-sanitisable softening) NaOH-dosing station, UV-disinfection, NOVALIS ULTRACLEAN-TS (hot-sanitisable, double-pass reverse osmosis)</p> <p>Switchboard with OP17 and Software acc. to GAMP</p> <p>FDA + cGMP -compliant qualification documentation</p>	15 m ³ /h 2 x 2.5 m ³ /h
Lonza Biotech s.r.o. Kourim, Czech Republic	<p>Ultrapure Water for the biotechnology:</p> <p>Dosing stations, NOVALIS-TS (hot-sanitisable reverse osmosis), sterile filter</p> <p>Switchboard with OP17</p>	4 m ³ /h
B.Braun, Melsungen through LSMW, Stuttgart Germany	<p>Ultrapure Water for the production of pharmaceuticals:</p> <p>Demineralsation (strong acid cation exchanger, strong basic anion exchanger), Neutralisation and chemical supply facilities</p> <p>Switchboard with visualisation via PC (WinCC) acc. to 21CFR Part11 and Software acc. to GAMP</p> <p>FDA + cGMP -compliant qualification documentation</p>	35 m ³ /h
Lonza Biotech s.r.o. Kourim, Czech Republic through Chemoprag s.r.o., Prague	<p>Ultrapure Water for the biotechnology:</p> <p>Multi-media filter, dosing stations, NOVALIS (reverse osmosis in ex-proof design)</p> <p>Switchboard with OP17</p>	50 m ³ /h 25 m ³ /h
BASF Korea via SKEC Korea	<p>Ultrapure Water for the production of pharmaceuticals:</p> <p>Softening, NOVALIS (reverse osmosis), cleaning plant</p> <p>Cold storage and distribution: SANICIRCLE with Ozone-/UV-sanitisation</p> <p>Switchboard with OP17 and Software acc. to GAMP</p> <p>FDA + cGMP -compliant qualification documentation</p>	12 m ³ /h 22 m ³ /h
Chiron Behring GmbH & Co. Marburg/Germany	<p>Purified Water for the production of vaccines:</p> <p>Softening, ROCEDIS PW-TS (reverse osmosis, electro deionisation)</p> <p>Reconditioning cold storage and distribution: SANICIRCLE with UV and periodical hot-sanitisation</p> <p>Switchboard with visualisation via PC (WinCC) acc. 21CFR Part11 and Software acc. to GAMP</p> <p>FDA + cGMP -compliant qualification documentation</p>	1.5 m ³ /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 ³ /h
Aventis Behring GmbH Marburg/Germany	Purified Water for the production of pharmaceuticals: Softening, ROCEDIS PW-SS (reverse osmosis, electro deionisation) Switchboard with TP170B FDA + cGMP -compliant qualification documentation	1.5 m ³ /h
Mappel Embalagens Ltda. São Paulo/Brazil through AXIMA Ltda. Brazil	Ultrapure Water for the production of pharmaceuticals: Softening, NaOH-dosing station, NOVALIS ULTRACLEAN (double-pass reverse osmosis)	0.2 m ³ /h
Sandoz GmbH Kundl/Austria	Purified Water for the production of pharmaceuticals: ECOSOFT (softening), ROCEDIS PW-SS (reverse osmosis, membrane degassing, electro deionisation) Switchboard with OP17 FDA + cGMP -compliant qualification documentation	2 x 8 m ³ /h
Sandoz GmbH Schafsteden/Austria	Purified Water for the production of pharmaceuticals: ECOSOFT (softening), ROCEDIS PW-SS (reverse osmosis, membrane degassing, electro deionisation) Switchboard with OP17 FDA + cGMP -compliant qualification documentation	8 m ³ /h
Berna Biotech AG Thörishaus Switzerland via Heinz Burkhalter AG SA Worblaufen/Switzerland	Purified Water for the production of pharmaceuticals: Softening, ROCEDIS PW-PP (reverse osmosis, membrane degassing, electro deionisation) Cold storage and distribution: SANICIRCLE with Ozone-/UV-sanitisation Product contacted piping in pharmaceutical standard compliant PVDF-HP Switchboard with OP17 and Software acc. to GAMP FDA + cGMP -compliant qualification documentation	2.8 m ³ /h 12.6 m ³ /h



Client	Plant Type	Capacity
CAF-DCF Red Cross Belgium Nederoverheembeek Belgium	<p>Purified Water for blood fractionation:</p> <p>ECOSOFT (Softening), ROCEDIS PW-PVC (NaOH-dosing station, reverse osmosis, electro deionisation)</p> <p>Cold storage and distribution: SANICIRCLE with Ozone-/UV-sanitisation, DTS-cooler</p> <p>Ring main, Switchboard</p> <p>FDA + cGMP -compliant qualification documentation</p>	<p>10 m³/h</p> <p>35 m³/h</p>
GlaxoSmithKline Singapore via Jacobs Engineering Singapore	<p>Purified Water for the production of pharmaceuticals:</p> <p>Heat exchanger, multi-media filter, UV-disinfection, Softening, ROCEDIS PW-SS (reverse osmosis, electro deionisation)</p> <p>Cold storage and distribution: SANICIRCLE with Ozone-/UV-sanitisation, DTS-cooler</p> <p>Ring main, Switchboard</p> <p>FDA + cGMP -compliant qualification documentation</p>	<p>1.2 m³/h</p> <p>30 m³/h</p>
Aventis Pharma Galenik Frankfurt/Germany	<p>Ultrapure Water for the production of pharmaceuticals:</p> <p>TOC-meter for continuously monitoring the quality of the Purified Water</p> <p>FDA + cGMP -compliant qualification documentation</p>	
Vetter Pharma-Fertigung Langenargen/Germany	<p>Ultrapure Water for the production of pharmaceuticals:</p> <p>ECOSOFT (softening), NaOH-dosing station as a pre- treatment of an already existing reverse osmosis/ electro deionisation</p>	<p>15 m³/h</p>
BASF AG Ludwigshafen/Germany	<p>Ultrapure Water for the production of pharmaceuticals:</p> <p>Strong acid cation exchanger</p> <p>Cold storage and distribution: SANICIRCLE with Ozone-/UV sanitisation (explosion-proof design)</p> <p>FDA + cGMP -compliant qualification documentation</p>	<p>2 m³/h</p> <p>10 m³/h</p>
Merckle GmbH Ulm/Germany	<p>Purified Water for the production of pharmaceuticals:</p> <p>ECOSOFT (softening with internal piping in stainless steel), ROCEDIS PW-SS (reverse osmosis, membrane degassing, electro deionisation)</p> <p>Switchboard with OP17</p> <p>FDA + cGMP -compliant qualification documentation</p>	<p>2 x 3 m³/h</p>
Boehringer Ingelheim Ellas Athens/Greece	<p>Purified Water for the production of pharmaceuticals:</p> <p>Multi-media filter, softening, ROCEDIS PW-SS (reverse osmosis, electro deionisation)</p> <p>Cold storage and distribution: SANICIRCLE with UV and periodical hot-sanitisation</p> <p>Ring main, Switchboard</p> <p>FDA + cGMP -compliant qualification documentation</p>	<p>0.5 m³/h</p> <p>8 m³/h</p>

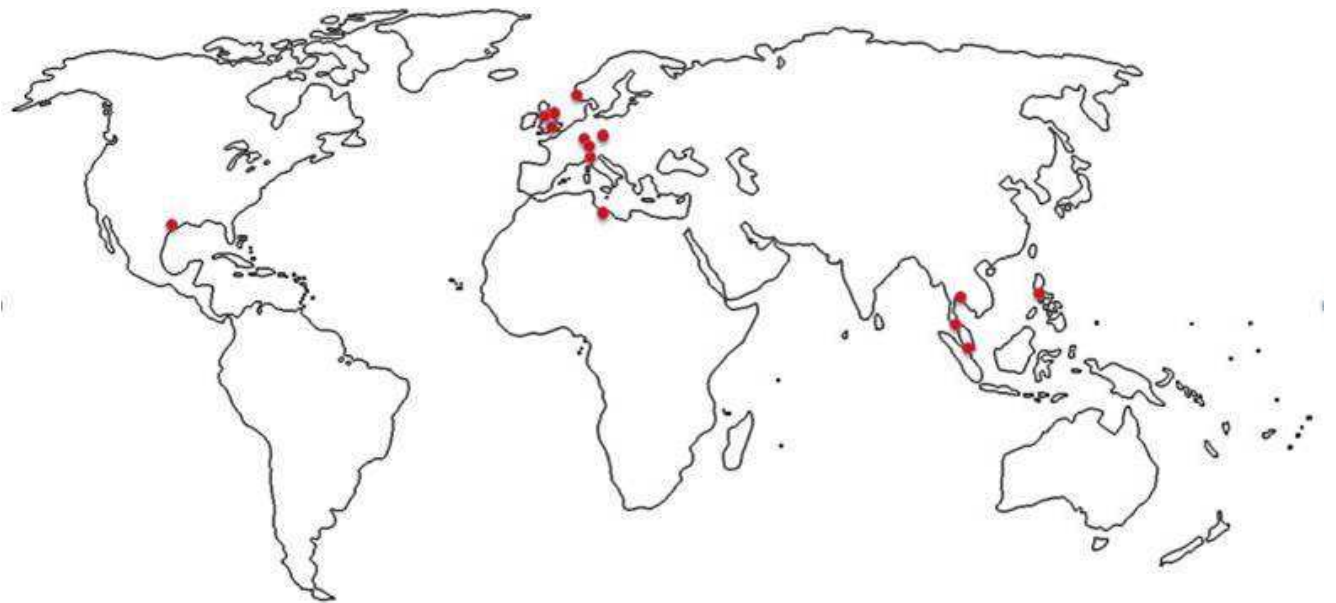
Client	Plant Type	Capacity
Infraserv GmbH & Co Höchst KG Frankfurt/Germany	Ultrapure Water for the production of pharmaceuticals: Design of a central water treatment system for the industrial park of Höchst (Aventis)	300 m ³ /h
Beiersdorf Lechia Posen/Poland	Ultrapure Water for the production of cosmetics: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

Client	Plant Type	Capacity
SmithKline Beecham Singapore via Kvaerner Singapore	 <p>Purified Water for the production of pharmaceuticals:</p> <p>Multi-media filtration, softening, ROCEDIS PW-TS (hot-sanitisable reverse osmosis, electro deionisation)</p> <p>Cold storage and distribution: SANICIRCLE with UV and periodical hot-sanitisation</p> <p>Ring main, Switchboard</p> <p>FDA + cGMP -compliant qualification documentation</p>	<p>3.5 m³/h</p> <p>25 m³/h</p>
HR Florasynth Grasse/France	<p>Ultrapure Water for the production of cosmetics:</p> <p>Softening, NOVALIS (reverse osmosis)</p> <p>Cold storage and distribution: SANICIRCLE with UV-sanitisation</p>	<p>0.7 m³/h</p> <p>4 m³/h</p>
L' Oréal Karlsruhe/Germany	<p>Ultrapure Water for the production of cosmetics:</p> <p>ECOSOFT (softening) NOVALIS ULTRACLEAN (double-pass reverse osmosis, membrane degassing)</p> <p>Cold storage and distribution: SANICIRCLE with Ozone-/UV-sanitisation</p> <p>Hot storage and distribution: SANICIRCLE with DTS-heater</p> <p>Ring main, Switchboard</p>	<p>30 m³/h</p> <p>4 m³/h</p> <p>60 m³/h</p> <p>60 m³/h</p>
B.F. Goodrich Diamalt GmbH Raubling/Germany	<p>Purified Water for the production of pharmaceuticals:</p> <p>Softening, ROCEDIS PW-SS (reverse osmosis, membrane degassing, electro deionisation)</p> <p>Switchboard</p> <p>FDA + cGMP -compliant qualification documentation</p>	<p>1.5 m³/h</p>
Ossacur Oberstenfeld via Vetter Injekt / Ravensburg Germany	<p>Ultrapure Water for the production of pharmaceuticals:</p> <p>NOVALIS ULTRACLEAN (double-pass reverse osmosis, membrane degassing)</p>	<p>3.4 m³/h</p>
Artemis Pharma Cologne/Germany	<p>Ultrapure Water for the production of pharmaceuticals:</p> <p>Softening, NOVALIS (reverse osmosis)</p>	<p>0.25 m³/h</p>
Aventis Pharma Galenik Frankfurt/Germany	<p>Purified Water for the production of pharmaceuticals:</p> <p>Softening, ROCEDIS PW-SS (reverse osmosis, membrane degassing, electro deionisation)</p> <p>Cold storage and distribution: SANICIRCLE with Ozone-/UV-sanitisation</p> <p>Ring main, Switchboard</p> <p>FDA + cGMP -compliant qualification documentation</p>	<p>0.5 m³/h</p> <p>13 m³/h</p>

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

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

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