








2017

<p><b>Pfizer Manufacturing Deutschland GmbH</b></p> <p><b>Mooswaldallee 1</b></p> <p><b>79090 Freiburg</b></p>		<p><b>Softener, PW (l/h)</b> 1000  <b>Vessel (l)</b> 10000  <b>Loop (m)</b> 180            UV,            DTS-Heat Exchanger  <b>Pure Steam Generator (kg/h)</b> 350  <b>Pure Steam net (m)</b> 80</p>
<p><b>Merck Spittal   Österreich</b></p> 		<p><b>EH, PW (l/h)</b> 1000</p>
<p><b>Fresenius Kabi Deutschland GmbH</b></p> <p><b>Daimlerstrasse 22</b></p> <p><b>61352 Bad Homburg</b></p>		<p><b>PW (l/h)</b> 3000  <b>Vessel (l)</b> 30000  <b>Loop (m)</b> 240            UV,            DTS-Heat Exchanger</p>
<p><b>Alpinamed AG</b></p> <p><b>Alte Landstrasse 11</b></p> <p><b>9306 Freidorf, Schweiz</b></p>		<p><b>PW (l/h)</b> 500  <b>Vessel (l)</b> 8000  <b>Loop (m)</b> 120            UV,            DTS-Heat Exchanger</p>
<p><b>Smith &amp; Nephew</b></p> <p><b>4900 West Vickery Blvd.</b></p> <p><b>Fort Worth, TX 76107</b></p>		<p><b>Softener, HPW (l/h)</b> 2500</p>
<p><b>Octapharma Pharmazeutika Produktionsgesellsch aft m.b.H.</b></p> <p><b>Oberlaaer Straße 235</b></p> <p><b>1100 Wien, Österreich</b></p>		<p><b>Softener, HPW (l/h)</b> 300 l/h</p>
<p><b>Bayer AG</b></p> <p><b>Müllerstr. 178</b></p> <p><b>13353 Berlin</b></p>		<p><b>WFI Vessel (l)</b> 5000  <b>Loop skid</b></p>


<b>DSM Nutritional Products</b>  <b>Hauptstrasse 4</b>  <b>4334 Sisseln, Schweiz</b>		<b>HPW (l/h)</b>	<b>2500</b>
<b>Beiersdorf Poland</b>		<b>Softener, HPW (l/h)</b>	<b>12000</b>
<b>bardusch GmbH &amp; Co. KG</b>  <b>Pforzheimer Straße 48</b>  <b>76275 Ettlingen</b>  <b>Hessen, Germany</b>		<b>Softener, PW (l/h)</b> <b>Vessel (l)</b> <b>Loop (m)</b> UV, DTS-Heat Exchanger	<b>3000</b> <b>3000</b> <b>100</b>
		<b>Pure Steam Generator (kg/h)</b>	<b>1600</b>
<b>G. Pohl-Boskamp GmbH &amp; Co.KG</b>  <b>Kaddenbusch 4</b>  <b>25578 Dägeling</b>		<b>Vessel (l)</b> <b>Loop (m)</b> UV, DTS-Heat Exchanger	<b>3000</b> <b>200</b>
<b>Finzelberg GmbH &amp; Co. KG</b>  <b>Koblenzer Strasse 48-56</b>  <b>56626 Andernach</b>		<b>PW (l/h)</b> <b>Vessel (l)</b> Loop (m) UV, DTS-Heat Exchanger	<b>500 l/h</b> <b>8.000</b> <b>400</b>
<b>Maquet Cardiopulmonary Gmb</b>  <b>Neue Rottenburger Str. 37</b>  <b>72379 Hechingen</b>		<b>Loop Piping (m)</b>	<b>80</b>
<b>Dr. Wild &amp; Co. AG</b>  <b>Hofackerstrasse 8</b>  <b>4132 Muttenz, Schweiz</b>		<b>PW Vessel (l)</b>	<b>3000</b>

2016

<p><b>Merck Millipore SAS  </b>  <b>39 route Industrielle</b>  <b>de la Hardt   BP 116  </b>  <b>67124 Molsheim  </b>  <b>France</b></p> 		<p><b>PW (l/h)</b> <span style="float: right;"><b>1000-2000</b></span>  <b>Vessel (l)</b> <span style="float: right;"><b>8.000</b></span>                  Ozon                  Loop (m) <span style="float: right;">120</span></p>
<p><b>Merck</b>  <b>Spittal   Österreich</b></p> 		<p><b>PW (l/h)</b> <span style="float: right;"><b>500-1000</b></span>  <b>Vessel (l)</b> <span style="float: right;"><b>3.000</b></span>    <b>Loop (m)</b> <span style="float: right;"><b>300</b></span></p>
<p><b>Allergopharma GmbH</b>  <b>&amp; Co.KG</b>  <b>Hermann-Körner-Str.</b>  <b>52</b></p> <p><b>21465 Reinbek</b></p> 		<p><b>Softener</b>  <b>PW-System, performance controlled</b>  <b>(l/h)</b> <span style="float: right;"><b>2000</b></span>  <b>PW Vessel (l)</b> <span style="float: right;"><b>4000</b></span>                  Ozon  <b>WFI System, 5 effect (l/h)</b> <span style="float: right;"><b>800</b></span>  <b>WFI Vessel (l)</b> <span style="float: right;"><b>3000</b></span>  <b>Pure Steam Generator (kg/h)</b> <span style="float: right;"><b>440</b></span>  <b>Point of Use management</b></p>
<p><b>Grünenthal, Aachen</b>  <b>Chile</b></p> 		<p><b>PW- 85 °C RO-EDI (l/h)</b> <span style="float: right;"><b>500</b></span>  <b>Vessel (l)</b> <span style="float: right;"><b>500</b></span>                    Loop (m) <span style="float: right;">100</span>                  UV,                  DTS-Heat Exchanger</p>
<p><b>Siemens Healthcare</b>  <b>Diagnostics Products</b>  <b>GmbH</b></p> <p><b>Emil-von-Behring-Str.</b>  <b>76</b></p> <p><b>35041 Marburg</b>  <b>Marbach</b></p>		<p><b>Polisher-Unit</b>  <b>Loop skid with EDI</b></p>
<p><b>Gebro Pharma GmbH</b>  <b>A 6391 Fieberbrunn</b></p>	<p>Dr. Klingler</p>	<p><b>Twin-System WFI/PS</b> <span style="float: right;"><b>200/200</b></span>  <b>Vessel (l)</b> <span style="float: right;"><b>2800</b></span></p>

<p>Fieberbrunn</p> <p><a href="http://www.gebro.com">www.gebro.com</a></p>		
<p>Hessen, Germany</p>		<p>WFI (l/h) <span style="float: right;">1000</span></p> <p>Pure Steam Generator (kg/h) 600</p> <p>5 – effect</p> <p>WFI Vessel (l) <span style="float: right;">4.000</span></p>
<p>Syntacoll Donau Str. 7</p> <p>93342 Saal / Donau</p> <p style="font-size: 2em; font-weight: bold;">Syntacoll</p>		<p>PW (l/h) <span style="float: right;">2000</span></p> <p>PW Vessel (l) <span style="float: right;">15.000</span></p> <p>Loop (m) <span style="float: right;">300</span></p> <p>WFI (l/h) <span style="float: right;">800</span></p> <p>Pure Steam Generator kg/h 600</p> <p>WFI system with 5 effect</p> <p>WFI Vessel (l) <span style="float: right;">15.000</span></p> <p>Loop (m) <span style="float: right;">500</span></p> <p>2 x LetzTOC</p>
<p>Develco Pharma GmbH Grienmatt 27 DE-79650 Schopfheim</p> <p></p>		<p>PW System <span style="float: right;">400 l/h</span></p> <p>Vessel <span style="float: right;">3000 l</span></p> <p>Loop 250 m</p>
<p>Nipro PharmaPackaging Germany GmbH 97702 Münnerstadt</p> <p></p>		<p>WFI Loop</p> <p>TOC measurement and integration</p>
<p>Germany, North Rhine-Westphalia</p>		<p>Softener</p> <p>Pure Steam Generator kg/h 400</p> <p>Reconstruction Letzner RO system</p> <p>Loop PW m <span style="float: right;">300</span></p> <p>Loop WFI m <span style="float: right;">300</span></p> <p>Pure Steam distribution m <span style="float: right;">100</span></p>

2015

<p>Millipore SAS   39 route Industrielle de la Hardt   BP 116   67124 Molsheim   France</p> 		<p>PW 1100 l/h Vessel 10.000 l Ozon Loop 300 m Pure Steam Generator 400 kg</p>
<p>Caesar &amp; Loretz Caelo GmbH Herderstr. 31 D 40721 Hilden</p>		<p><b>HPW 500 l/h</b>  3000 l vessel 100 m Loop  DTS-WT Siemens WinCC</p>
<p>Serag Wiessner Zum Kugelfang 8-12  D 95119 Naila</p>		<p><b>WFI l/h 1000</b> <b>5 – effect Distillation</b></p>
<p>Serag Wiessner Zum Kugelfang 8-12  D 95119 Naila</p>		<p><b>WFI l/h 1000</b> <b>5 – Kolonnen Distillation</b></p>
<p>GERRESHEIMER pharmaSystems  Bünder Glas GmbH  Erich-Martens- Straße 26-32  32257 Bünde <a href="http://www.gerresheimer.com">www.gerresheimer.com</a></p>		<p><b>PW 4000 l/h</b>  85 °C RO-EDI 90 °C Softener 85 ° RO 85 °C EDI</p>
<p>Nipro PharmaPackaging Germany GmbH Otto-Liebmann-</p>		<p><b>WFI 2000 l/h</b> <b>6 – effect Distillation</b> <b>Anti-Rouging Concept</b></p>

<b>Strasse 2</b> <b>97702 Münnerstadt</b> <b>Deutschland</b> <b>T: +49(0)9733 8088416</b> <b>- F: +49 (0)9733</b> <b>808200</b>		<b>Loop</b> <b>200 m</b>  Siemens WinCC flexible <b>PW</b> <b>85 °C RO-EDI</b> <b>2500 l/h</b>  95 °C Softner 85 °C RO 85 °C EDI  TOC
<b>Pharma Stulln</b> <b>GmbH</b> <b>Werkstraße 3</b> <b>92551 Stulln</b>		<b>PW System</b> <b>500-1000 l/h</b> <b>PW Vessel</b> <b>6000 l</b> <b>Loop</b> <b>150 m</b> <b>WFI System</b> <b>1000 l</b> <b>WFI Vessel</b> <b>6000</b> <b>WFI Loop</b> <b>125 m</b> <b>Pure Steam</b> <b>200 kg</b> <b>Pure Steam Distribution</b> <b>80 m</b>
<b>Dr. Müller Pharma</b>  s.r.o., U Mostku 182, 503 41 Hradec Králové e-mail: <a href="mailto:info@muller-pharma.cz">info@muller-pharma.cz</a>		<b>PW 1000</b>  <b>85 °C RO-EDI</b> <b>1000l/h</b> <b>90 °C Softener</b> 85 °C RO 85 °C EDI 3000 l Vessel 300 m Loop  <b>TOC LetzTOC</b> UV DTS-WT Siemens WinCC Letzner-Kohlensäure-Patent
<b>WDT</b>  <b>Wirtschaftsgenossenschaft</b> <b>deutscher Tierärzte eG</b>  <b>Siemensstr. 14,</b> <b>30827 Garbsen</b>	<b>BRANDES</b> <b>CONSULTING</b> <b>GMP+Energie</b>  <b>Senatorbauerstrasse 19</b> <b>30625 Hannover</b>	<b>PW (l/h)</b> <b>2000</b> <b>WFI l/h</b> <b>800</b> <b>5 – effect Still</b> <b>PW vessel (l)</b> <b>4000</b> <b>WFI vessel (l)</b> <b>3000</b> <b>Pure steam (Kg/h)</b> <b>440</b> <b>LetzTOC</b>
<b>Rufin cosmetic GmbH</b> <b>Bayernstraße 7</b>	Seefried Verfahrenstechnik	<b>PW (l/h)</b> <b>1500</b> <b>Lopp (m)</b> <b>250</b>

<b>30855 Langenhagen</b> <b>Telefon: +49 511</b> <b>740090</b> <b>E-Mail: info@rufin.de</b>  <b>Geschäftsführer:</b> <b>Sven-O. Rumpfkeil, H.</b> <b>Rumpfkeil</b>	Herr Seefried		
<b>Novasep Deutschland</b> <b>Kalkstr. 218</b> <b>51377 Leverkusen</b>		<b>Rental System</b> <b>Loop</b>	<b>1000 l</b> <b>200 m</b>
<b>Konapharma</b> <b>KONA PHARMA AG</b> <b>Netzbodenstrasse</b> <b>23d</b> <b>CH 4133 Pratteln</b>		<b>Loop</b>	<b>200 m</b>
<b>Neuwied</b>		<b>PW Loop</b>	
<b>A Fieberbrunn</b>		<b>PW Loop</b>	
<b>Berlin</b>		<b>PW Loop</b>	
<b>Germany</b>		<b>RD System</b> <b>Loops</b>	

## 2014

<b>Beiersdorf</b> <b>Brazil</b>		<b>PW (l/h)</b> <b>UF for Pretreatment</b>	<b>4000(8000)</b>
<b>Switzerland</b>		<b>WFI l/h</b> <b>6 – effect Distillation</b> <b>Anti-Rouging Concept</b> <b>Pure Steam kg/h</b> <b>WFI Vessel</b>	<b>2000</b>  <b>1250</b> <b>20.000 l</b>
<b>Deutschland</b>		<b>PW (l/h)</b> <b>WFI l/h</b>	<b>2000</b> <b>800</b>

		<b>5 – effect still</b> <b>PW Vessel (l)</b> 4000 <b>WFI Vessel (l)</b> 3000 <b>Puresteam (Kg/h)</b> 440 <b>LetzTOC</b>
<b>Łódź</b>  <b>Poland</b>		<b>PW (l/h)</b> 4000 <b>WFI l/h</b> 3000 <b>6 – effect Distillation</b> <b>WFI Vessel (l)</b> 10.000 <b>Pure Steam (Kg/h)</b> 300 <b>Loop</b> 1000 m
<b>Netherlands</b>		<b>PW (l/h)</b> 4000 <b>WFI (l/h)</b> 1500 <b>6 – effect Distillation</b> <b>Anti-Rouging Concept</b> <b>Pure Steam kg/h</b> 750 <b>Loop</b> 1000 m
<b>Germany</b>		<b>PW l/h</b> 2500 <b>WFI 6 K</b> 1800 <b>Loop m</b> 100 <b>TOC 2 x LetzTOC</b>
<b>Germany</b>		<b>PW l/h</b> 1500 <b>Vessel l</b> 15.000 <b>Loop m</b> 1000 <b>TOC LetzTOC</b>
<b>Curacao</b>		<b>HPW l/h</b> 4000
<b>Switzerland</b>		<b>DIN 11864</b>  <b>WFI l/h</b> 2000 <b>6 – effect Distillation</b> <b>Anti-Rouging Concept</b> <b>Pure Steam kg/h</b> 1500 <b>WFI Vessel</b> 10.000
<b>Greece</b>		<b>PW (l/h)</b> 2000 <b>WFI (l/h)</b> 1000 <b>5 – Effect Destillation</b> <b>Anti-Rouging Concept</b> <b>Loop</b> 500 m <b>WFI Vessel</b> 3000 l <b>PW Vessel</b> 5000 l <b>LetzTOC</b>



2013

<p><b>GERRESHEIMER pharmaSystems</b></p> <p><b>Bünder Glas GmbH</b></p> <p><b>Erich-Martens- Straße 26-32</b></p> <p><b>32257 Bünde</b> <a href="http://www.gerresheimer.com">www.gerresheimer.com</a></p>	<p>Herr Posteher</p> <p>0049 5223164-214</p>	<p><b>PW</b> <span style="float: right;"><b>2 x 4000 l/h</b></span></p> <p><b>85 °C RO-EDI</b> 90 °C Softner 85 °C RO 85 °C EDI UV DTS-WT Siemens WinCC Letzner-Patent</p> <p><b>NaCl Brien Vessel</b> <span style="float: right;"><b>20.000 l</b></span></p> <p><b>WFI</b> <span style="float: right;"><b>2000 l/h</b></span> <b>6 – effect Distillation</b> <b>Anti-Rouging Concept</b></p> <p><b>WFI Vessel</b> <span style="float: right;"><b>10.000 l</b></span> <b>Loop</b> <span style="float: right;"><b>800 m</b></span></p>
<p><b>Germany Witten</b></p>		<p><b>HPW</b> <span style="float: right;"><b>3000 l/h</b></span> <b>Pure Steam</b> <span style="float: right;"><b>2000 kg/h</b></span> <b>Pure steam Pressure</b> <span style="float: right;"><b>8 bar</b></span> <b>Vessel</b> <span style="float: right;"><b>20.000 l</b></span> <b>Loop</b> <span style="float: right;"><b>800 m</b></span> UV DTS-WT Siemens WinCC Letzner-Kohlensäure-Patent</p>
<p><b>Germany Berlin</b></p>		<p><b>WFI</b> <span style="float: right;"><b>1000 l/h</b></span> <b>5 – Effect Distillation</b> <b>Anti-Rouging Concept</b></p> <p><b>WFI Vessel</b> <span style="float: right;"><b>2 x 7500 l</b></span> <b>Loop</b> <span style="float: right;"><b>700 m</b></span></p> <p><b>Siemens WinCC flexible</b></p>
<p><b>W.C. Hereaus GmbH &amp; Co. KG</b></p>		<p><b>HPW</b> <b>85 °C RO-EDI-RO</b> <span style="float: right;"><b>300 l/h</b></span></p>

63450 Hanau		85 °C Scale Inhibitor 85 °C RO 85 °C EDI 85 °C RO für HPW  Siemens WinCC flexible  Letzner-CO2 -Patent
<b>Germany</b>		<b>PW</b> <span style="float: right;"><b>1500 l/h</b></span>  <b>85 °C RO-EDI</b>  <b>85 °C RO</b> <b>85 °C EDI</b> <b>10.000 l Vessel</b>  <b>TOC LetzTOC</b> <b>UV</b> <b>DTS-WT</b> <b>Siemens WinCC</b>

2012

<p><b>Salus Natur- Arzneimittel GmbH &amp; Co KG</b></p>		<p><b>90 °C Softener 30 m<sup>3</sup> / h</b></p> <p>Single valve control with membrane valves Siemens WinCC Letzner-Patent</p>
<p><b>VERLA-PHARM Arzneimittel</b></p>		<p><b>PW- 85 °C RO-RO-EDI 500 I/h</b></p> <p>Scale inhibitor 85 °C RO 2 stages 85 °C EDI UV DTS-heat exchanger Siemens WinCC Letzner-Patent</p> <p><b>LetzTOC</b></p>
<p><b>VSY BIOTECHNOLOGY</b> VSY Biyoteknoloji ve Ilac San A.S Ataturk Mah. Sulun Cad. Kamilbey Sok. No: 4 Atasehir – Istanbul – Turkiye</p>	<p>Rabiye Schmitt 07121-69065-20</p> <p><b>Mrs. Rabiye Schmitt</b> <a href="mailto:info@vsybiotechnology.com">info@vsybiotechnology.com</a></p> <p>Tel: +90 216 455 96 96 Fax: +90 216 455 96 90</p>	<p><b>PW 1000</b></p> <p><b>85 °C RO-RO-EDI 1000 I/h</b></p> <p>Scale inhibitor 85 °C 2- stages RO 85 °C EDI UV DTS- Heat exchanger Siemens WinCC Letzner- Carbonic acid -Patent</p> <p>500 m loop PW 500 m loop WFI 200 m loop Pure steam</p> <p>Integration of multi-stage pressure-column distillation and Pure steam plant</p>
<p><b>Richter Pharma AG</b> <b>Feldgasse 19</b></p> <p><b>A 4600 Wels</b></p> <p><a href="http://www.richter-pharma.at">www.richter-pharma.at</a></p>	<p>Dr. Joachim Meyer Richter ph. Herstell- Leitung</p> <p>Tel.: +43 (0)7242/490-0 Fax: +43 (0)7242/490-17 Email: <a href="mailto:office@richter-pharma.at">office@richter-</a></p>	<p><b>PW 600</b></p> <p><b>Pure steam plant PS 500 kg/h</b> <b>85 °C RO-EDI 600 I/h</b></p> <p>90 °C Softener 85 °C RO 85 °C EDI 2000 l storage vessel</p>

<b>M+W Process Industrie GmbH Niederlassung Österreich Technologiestraße 5 1120 Wien</b>	<a href="http://pharma.at">pharma.at</a>  Markus Multhauf <a href="mailto:Markus.multhauf@mwgroup.net">Markus.multhauf@mwgroup.net</a>  0043 1 8037 228-72	200 m loop 100 m loop Pure steam  UV DTS- Heat exchanger Siemens WinCC Letzner- Carbonic acid -Patent  Integration of existing TOC GE Sievers
<b>Catalent</b>  Steinbeisstraße 2 73614 Schorndorf 04971 8170000  <a href="http://www.catalent.com">www.catalent.com</a>	Herr Dahlmann 04971 8170000	<b>PW 1000 l/h</b> <b>85 °C RO-EDI</b> 90 °C Softener 85 °C RO 85 °C EDI 5.000 l storage vessel 1000 m loop UV Ozone DTS- Heat exchanger Siemens WinCC Letzner- Carbonic acid -Patent  <b>LetzTOC</b>
<b>Hevert Arzneimittel GmbH &amp; Co. KG</b>  <b>In der Weiherwiese</b>  <b>55569 Nußbaum</b>  <a href="http://www.hevert.de">www.hevert.de</a>	06751 9100 <a href="mailto:info@hevert.de">info@hevert.de</a>  Mathias Hevert Vukan Divljan	<b>PW 500</b>  <b>85 °C RO-EDI 300 l/h</b>  85 °C RO 85 °C EDI 3000 l storage vessel 150 m loop  <b>TOC measurement with LetzTOC</b>  UV DTS- Heat exchanger Siemens WinCC Letzner- Carbonic acid -Patent
<b>LTS LOHMANN Therapie-Systeme AG</b> Lohmannstr. 2 56626 Andernach	<b>Telefon: +49 (0) 2632 99 - 0</b> <b>Telefax: +49 (0) 2632 99 - 22 00</b>	<b>PW 100</b>  <b>85 °C RO-EDI 100 l/h</b> 85 °C RO

**Reference Systems www**

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E-Mail: <a href="mailto:info@ltslohmann.de">info@ltslohmann.de</a> Internet: <a href="http://www.ltslohmann.de">www.ltslohmann.de</a>	E-Mail: <a href="mailto:info@ltslohmann.de">info@ltslohmann.de</a> Herr Marx Frau Charlotte Arent Dr. Bender	85 °C EDI 80 l storage vessel 150 m loop  <b>TOC measurement with LetzTOC</b> UV DTS- Heat exchanger Siemens WinCC Letzner- Carbonic acid -Patent
<b>Bayer Schering Weimar</b>	Herr Gunkel 036434331124	<b>Electrically heatable sampling</b>
<b>NN Berlin</b>	NN	<b>WFI storage and supply</b> <b>800 m loop</b> <b>200 m pure steam supply</b>
<b>W.C. Hereaus GmbH &amp; Co. KG</b>  63450 Hanau	Herr Kuhr 0049 6181 35 3872	<b>PW 500</b>  <b>85 °C RO-EDI</b> <b>500l/h</b> Scale inhibitor 85 °C RO

2011

<p><b>Bolder Arzneimittel GmbH &amp; CO. KG</b></p> <p><b>Rheinische Allee 11</b> <b>50858 Köln</b> <b>Köln</b></p> <p><a href="http://www.bolder.de">www.bolder.de</a></p>	<p>Herr Dr. Hermann-Josef Bolder Dr. Wolfgang Althoff Faruk Immer Andreas Dittrich</p> <p>02234 37952-0</p> <p><a href="mailto:info@bolder.de">info@bolder.de</a></p>	<p><b>PW- 85 °C RO-EDI</b> <b>500 l/h</b></p> <p>90 °C softener 85 °C RO 85 °C EDI 4000 l storage vessel 250 m loop UV, DTS- Heat exchanger Siemens WinCC Letzner- Carbonic acid -Patent</p>
<p><b>Gedeon Richter Budapest</b></p>	<p>Gyula Kolontari Lajos Kovacs Miklos Ress</p>	<p><b>WFI</b> <b>6000 l/h</b></p> <p>7 – Columns Distillation <b>Anti-Rouging Konzept</b> Visualisation Siemens WinCC flexible</p>
<p><b>Lonza Biologics Porrino La Relba 36410 Porrino (Ponteveda Espana)</b></p>	<p>Andres Gallardo Mosquera</p>	<p><b>CIP Plant 750 l</b></p> <p>According ASME BPE for Bioprocessing</p>
<p><b>Pharmpur</b></p> <p><b>D 86343 Königsbrunn</b> <a href="http://www.pharmpur.de">www.pharmpur.de</a></p>	<p>Dr. Dirk-Henning Menz Dr. Till Olwesch 082319577-0</p> <p><a href="mailto:info@pharmpur.de">info@pharmpur.de</a></p>	<p><b>PW- 85 °C RO-EDI</b> <b>500 l/h</b></p> <p>85 °C RO 85 °C EDI UV, DTS- Heat exchanger Letzner- Carbonic acid -Patent <b>Pure steam</b> <b>250 kg /h</b> (expandable up to 500 kg/h) <b>Anti-Rouging Concept</b> Visualisation Siemens WinCC flexible DTS- Heat exchanger <b>TOC and TIC measurement with LETZNER-NDIR-TOC</b></p>

<b>PPP Pharmapolis Debrecen</b>		<b>WFI</b> <span style="float: right;"><b>1500 l/h</b></span> 6 – Columns Distillation Anti-Rouging Concept <b>Pure steam plant</b> <span style="float: right;"><b>1250 kg/h</b></span>  <b>PW</b> <span style="float: right;"><b>3500 l/h</b></span> 85 °C RO 85 °C EDI Visualisation Siemens WinCC flexible DTS- Heat exchanger  Letzner- Carbonic acid -Patent and <b>TOC and TIC measurement with LETZNER-NDIR-TOC</b>
<b>Fajro AUTOMATIKA es ORVOSI LEZER</b>  <b>1097Budapest</b>  <a href="http://www.fajro.hu">www.fajro.hu</a>	Eva Szabados  Csaba Kiss Managing Director	<b>PW System</b> <span style="float: right;"><b>1100 l/h</b></span> <b>WFI Plant</b> <span style="float: right;"><b>500 l/h</b></span> <b>Pure steam plant</b> <span style="float: right;"><b>100 kg/h</b></span>
<b>Sanofi Aventis</b>	Herr Weber	<b>Thermal degassing for 2000 kg/h Pure steam plant</b>
<b>Pohl Boskamp</b>  <b>Hohenlokstedt</b>  <a href="http://www.pohl-boskamp">www.pohl-boskamp</a>	Herr Müntz  0482659-0	<b>PW-</b> <b>85 °C RO-EDI</b> <span style="float: right;"><b>100 l/h</b></span> Scale inhibitor 85 °C RO 85 °C EDI 1000 l storage vessel 150 m loop UV, DTS- Heat exchanger Siemens WinCC Letzner-Carbonic acid -Patent and registration new Letzner-pharmaceutical water-patent  <b>TOC and TIC measurement with LETZNER-NDIR-TOC</b>

<b>APIPHARMA Zagreb</b>	Hr Lalic 0038516399000	<b>PW- 85 °C RO-EDI</b> <b>600 l/h</b> 85 °C Softener 85 °C RO 85 °C EDI 2000 l storage vessel 150 m loop UV, DTS- Heat exchanger Siemens WinCC Letzner- Carbonic acid -Patent
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2010

<p><b>Aug. Hedinger GmbH &amp; Co. KG</b>  <b>Heiligenwiesen 26</b>  <b>D-70327 Stuttgart</b></p> <p><a href="http://www.hedinger.de">www.hedinger.de</a></p>	<p>Dr. Milek          Dr. Rouven Josl</p> <p>Tel.: ++49 (0)711 402050          Fax: ++49 (0)711 4020535          Mail: <a href="mailto:rjosl@hedinger.de">rjosl@hedinger.de</a></p>	<p><b>HPW- 85 °C RO-EDI</b> <b>1000 l/h</b>          100 °C Softener          85 °C RO          85 °C EDI          4000 l storage vessel          100 m loop          UV,          DTS- Heat exchanger          Siemens WinCC          Letzner-Carbonic acid -Patent and registration new Letzner-pharmaceutical water –patent</p> <p><b>TOC and TIC measurement with LETZNER-NDIR-TOC</b></p>
<p><b>POLYMUN Scientific Immunbiologische Forschung GmbH</b>  <b>Prof. Dr. Hermann Katinger</b></p> <p><b>11900 Wien</b></p> <p><a href="http://www.polymun.at">www.polymun.at</a></p>	<p>Prof. Dr. Hermann Katinger</p> <p>0043 1 47654 6203</p> <p><a href="mailto:office@polymun.com">office@polymun.com</a></p>	<p><b>HPW- 85 °C RO-EDI</b> <b>600 l/h</b>          85 °C RO          85 °C EDI          UV,          DTS- Heat exchanger          Letzner- Carbonic acid -Patent  <b>Pure Steam</b> <b>250 kg /h</b>  <b>WFI</b> <b>50 l/h</b>  <b>Anti-Rouging Concept</b>          Visualisation          Siemens WinCC flexible          DTS-Heat exchanger  <b>TOC and TIC measurement with LETZNER-NDIR-TOC</b></p>
<p><b>Johnson &amp; Johnson MEDICAL GmbH</b></p> <p><b>Robert-Koch-Str. 1</b></p> <p><b>22851 Norderstedt</b></p> <p><a href="http://www.injgateway.com">www.injgateway.com</a></p>	<p>Suzanna Simic          040 5297 4926  <a href="mailto:ssimic@jfts.inj.com">ssimic@jfts.inj.com</a></p>	<p><b>PW- 85 °C RO-EDI</b> <b>100 l/h</b>          85 °C Scale inhibitor          85 °C RO          85 °C EDI          500 l storage vessel          5 m loop          UV,          Electric- Heat exchanger          Siemens WinCC          Letzner- Carbonic acid -Patent  <b>2 Pieces Pure steam plant</b> <b>50 kg/h</b></p>

<b>Grüntental, Aachen</b>	Herr Markus Müller 0241569 3762	<b>PW- 85 °C RO-EDI</b> <b>300 l/h</b> 85 °C Scale inhibitor 85 °C RO 85 °C EDI 2000 l storage vessel 100 m loop UV, DTS-WT Siemens WinCC Letzner- Carbonic acid -Patent
<b>ZENTIVA Sanofi Aventis Bucharest</b>	Cosmin Tiberin Curt 0040 21304 7504	<b>2 Pieces</b> <b>TOC and TIC measurement with LETZNER-NDIR-TOC</b>
<b>Grüntental, Aachen</b>	Herr Markus Müller 0241569 3762	<b>Pure steam plant 1200 kg/h</b> Heating with pressurised hot water
<b>Grüntental, Aachen</b>	Herr Markus Müller 0241569 3762	<b>HPW- 85 °C RO-EDI</b> <b>1600 l/h</b> Conversion of Letzner Plant to double capacity and HPW stage
<b>Grüntental, Aachen</b>	Herr Markus Müller 0241569 3762	<b>WFI System 4 columns</b> Conversion of Letzner Plant to heating with pressurised hot water
<b>Essex Animal Health Friesothe Division of Essex Pharma GmbH Sedelsberger Str. 2 26169 Friesoythe <a href="http://www.essex-friesoythe.de">www.essex-friesoythe.de</a></b>	Herr Niehaus	<b>TOC and TIC measurement with LETZNER-NDIR-TOC</b>
<b>Weber und Weber GmbH + Co. KG Biologische Arzneimittel Herrschinger Str. 33  82266 Inning / Ammersee  <a href="http://www.weber-weber.de">www.weber-weber.de</a></b>	Frau Möbus 08143 927-0 service@weber- weber.net	<b>PW- 85 °C RO-EDI</b> <b>100 l/h</b> 85 °C Scale inhibitor 85 °C RO 85 °C EDI 500 l storage vessel 20 m loop UV, DTS- Heat exchanger Siemens WinCC Letzner- Carbonic acid -Patent

<b>Bayer Schering Weimar</b>	Herr Gunkel 036434331124	<b>Electrically heatable sampling</b>
<b>Adler Pharma</b> Mag.Susana Niedan- Feichtinger <b>Brucker Bundesstr. 25 A</b> <b>5700 Zell am See</b>  <a href="http://www.schuessler-mineralstoffe.at">www.schuessler-mineralstoffe.at</a>		<b>PW- 85 °C RO-EDI</b> <b>100 l/h</b> 85 °C Scale inhibitor 85 °C RO 85 °C EDI 500 l storage vessel 20 m loop UV, DTS-WT Siemens WinCC Letzner- Carbonic acid -Patent
<b>Streuli Pharma AG</b> <b>CH Uznach</b> <b>Bahnhofstr. 7</b> <b>CH 8730 Uznach</b> <a href="http://www.streuli-pharma.ch">www.streuli-pharma.ch</a>	Wolfgang Rudloff	<b>HPW Loop</b>  <b>Pure steam plant</b> <b>800 kg/h</b> Anti-Rouging Concept Visualisation Siemens WinCC flexible
<b>Gebro Pharma GmbH</b> <b>A 6391 Fieberbrunn</b>  <b>Fieberbrunn</b>  <a href="http://www.gebro.com">www.gebro.com</a>	Dr. Klingler	<b>PW- 85 °C RO-EDI</b> <b>100 l/h</b> 85 °C Scale inhibitor 85 °C RO 85 °C EDI 500 l storage vessel loop Siemens WinCC Letzner- Carbonic acid -Patent
<b>Chroma Pharma GmbH</b> <b>Industriezeile 6</b> <b>2100 Leobendorf</b>  <a href="http://www.croma.at">www.croma.at</a>	Mag. Prinz	<b>PW-storage system and loop</b> 1500 l storage vessel 20 m loop UV, DTS- Heat exchanger Siemens WinCC
<b>Lohmann &amp; Rauscher GmbH + Co. KG.</b>  <b>Irlicher Str. 55</b>  <b>56567 Neuwied</b>  <a href="http://www.lohmann-rauscher.de">www.lohmann-rauscher.de</a>	Herr Marks	<b>PW supply</b>  20.000 l storage vessel DTS- Heat exchanger for cooling and heating  Letzner-UV with DVGW sensor 400 m loop Siemens WinCC flexible

<b>Veterinarski Zavod Subotica Serbien</b>  <a href="http://www.vetzavod.com">www.vetzavod.com</a>		<b>WFI</b> <span style="float: right;"><b>150 l/h</b></span> 3 – Columns Distillation <b>Anti-Rouging Concept</b> <b>Pure steam plant</b> integrated in distillation plant <span style="float: right;"><b>80 kg/h</b></span>  <b>WFI storage vessel 1500 l</b> Visualisation Siemens WinCC flexible DTS- Heat exchanger
<b>Bayer Schering Pharma AG</b> <b>S 155</b> <b>Berlin</b>	Dr. Müller	<b>Replacement Ionpure CDI system</b> <b>1000 l/h</b>  85 °C EDI

**2009**

<b>Baxter AG</b> <b>Uferstr. 15</b>  <b>A 2304 Orth/Donau</b>		<b>WFI</b> <span style="float: right;"><b>500 l/h</b></span> 4 – Columns Distillation  <b>Anti-Rouging Concept</b>  <b>Pure steam plant</b> integrated in distillation plant <span style="float: right;"><b>300 kg/h</b></span>  <b>PW</b> <span style="float: right;"><b>2500 l/h</b></span> <b>95 °C Softening plant</b> <span style="float: right;"><b>8000 l/h</b></span> 85 °C RO 85 °C EDI  <u>Sampling board with sterile tapping</u>  Visualisation Siemens WinCC flexible  DTS-Heat exchanger Letzner-UV with DVGW Sensor loop Letzner-Carbonic acid -patent and registration Letzner-water production level –patent
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<p><b>Aug. Hedinger GmbH &amp; Co. KG</b>  <b>Heiligenwiesen 26</b>  <b>D-70327 Stuttgart</b></p> <p><a href="http://www.hedinger.de">www.hedinger.de</a></p>		<p><b>HPW-</b>  <b>85 °C RO-EDI</b> <b>1000 l/h</b>          100 °C Softener          85 °C RO          85 °C EDI</p> <p>4000 l Storage vessel          100 m loop          UV,          DTS-Heat exchanger</p> <p>Siemens WinCC          Letzner-Carbonic acid -Patent and registration new Letzner-pharmaceutical water –patent</p> <p><b>TOC and TIC measurement with LETZNER-NDIR-TOC</b></p>
<p><b>B.Braun</b></p> <p><b>Saxonia Medical GmbH</b></p> <p><b>Radeberg</b></p>		<p><b>HPW</b>  <b>85 °C RO-EDI</b> <b>1200 l/h</b></p> <p>95 °C Softening plant          85 °C RO          85 °C EDI</p> <p>Sampling board          PW Storage vessel <b>2000 l</b>          loop <b>100 m</b>          DTS-Heat exchanger          Letzner-UV with DVGW Sensor loop</p>
<p><b>Syntacoll</b>  <b>Doanu Str. 7</b></p> <p><b>Saal/Donau</b></p>		<p><b>WFI</b> <b>800 l/h</b>  <b>Pure steam</b> <b>300 kg/h</b>  <b>5 – Columns Distillation</b>  <b>Anti-Rouging Concept</b>          Sampling board</p> <p><b>WFI Storage vessel</b> <b>15.000 l</b>  <b>loop</b> <b>300 m</b></p> <p><b>PW</b>  <b>85 °C RO-EDI</b> <b>2000 l/h</b>          95 °C Softening plant          85 °C RO</p>

		85 °C EDI  Sampling board Process-Visualisation Siemens WinCC flexible  <b>PW Storage vessel</b> <b>15.000 l</b> <b>loop</b> <b>300 m</b>  DTS-Heat exchanger Letzner-UV with DVGW Sensor loop Letzner-Carbonic acid -Patent and registration new Letzner-pharmaceutical water –patent  <b>TOC and TIC measurement with</b> <b>LETZNER-NDIR-TOC</b>
<b>B.Braun Saxonia Medical GmbH</b>		<b>PW 2-stages RO- plant</b> <b>85 °C RO-RO</b> <b>50 l/h</b>  Scale inhibitor 85 °C RO  Sampling board PW storage vessel <b>400 l</b> loop <b>15 m</b> DTS-Heat exchanger Letzner-UV with DVGW Sensor
<b>Grünenthal Stolberg</b>		2 devices TOC and TIC measurement with <b>LETZNER-NDIR-TOC</b> Measurement of condensate of pure steam
<b>Bayer Schering Pharma AG S 155 Berlin</b>		<b>PW</b> <b>85 °C RO-EDI</b> <b>300 l/h</b>  95 °C Softening plant 85 °C RO 85 °C EDI  Sampling board PW Storage vessel <b>1500 l</b>

		loop 200 m  DTS-Heat exchanger Letzner-UV with DVGW Sensor loop  TOC Integration (existing device)
<b>W.C. Hereaus GmbH &amp; Co. KG</b>  63450 Hanau		<b>Storage vessel 5 000 l,</b> 250 m loop  Letzner - UV, Letzner - DTS-Heat exchanger
<b>Wacker Chemie AG Johannes-Hess- Straße 24</b>  <b>84489 Burghausen</b>		<b>HPW</b> <b>85 °C RO-EDI 1200 l/h</b>  95 °C Softening plant 85 °C RO 85 °C EDI <b>Pure steam 250 l/h</b> <b>Anti-Rouging Concept</b> Sampling board PW storage vessel loop 200 m Sampling board 6 000 l AP Storage vessel loop 400 m DTS-Heat exchanger Letzner-UV with DVGW Sensor loop  Letzner-Carbonic acid -Patent and registration new Letzner-pharmaceutical water –patent  <b>TOC and TIC measurement with LETZNER-NDIR-TOC</b>

<p><b>KONA PHARMA AG</b>  <b>Netzibodenstrasse</b>  <b>23d</b></p> <p><b>CH 4133 Pratteln</b></p>		<p><b>PW</b>  <b>85 °C RO-EDI</b> <b>300 l/h</b></p> <p>95 °C Softening plant        85 °C RO        85 °C EDI        Sampling board        PW Storage vessel        loop <b>300 m</b></p> <p>Sampling board</p> <p>3 000 l AP storage vessel</p> <p>DTS-Heat exchanger        Letzner-UV with DVGW Sensor        loop</p> <p><b>TOC and TIC measurement with        LETZNER-NDIR-TOC</b></p>
<p><b>Zada Pharmaceuticals</b>  <b>Lukavac, Bosnia</b></p>		<p><b>PW</b>  <b>85 °C RO-EDI</b> <b>600 l/h</b></p> <p>85 °C RO        85 °C EDI</p> <p>Sampling board</p> <p>1 800 l Storage vessel        DTS-Heat exchanger        Letzner-UV with DVGW Sensor        200 m loop</p> <p>Siemens WinCC flexible</p> <p>Letzner-Carbonic acid -Patent and        registration new Letzner-pharmaceutical        water –patent</p>
<p><b>Caesar &amp; Loretz</b>  <b>Caelo GmbH</b>        53227 Bonn-Beuel</p>		<p><b>PW-</b>  <b>85 °C RO-EDI</b> <b>1000 l/h</b></p> <p>85 °C Scale inhibitor        85 °C RO        85 °C EDI</p>



		3000 l Storage vessel 200 m loop UV, DTS-Heat exchanger Siemens WinCC Letzner-Carbonic acid -Patent and registration new Letzner-pharmaceutical water –patent  <b>TOC and TIC measurement with LETZNER-NDIR-TOC</b>
<b>Pharmalabor</b>		<b>PW- 85 °C RO-EDI 20 l/h</b>  85 °C Scale inhibitor 85 °C RO 85 °C EDI  100 l Storage vessel 50 m loop UV, DTS-Heat exchanger Letzner-Carbonic acid -Patent and registration new Letzner-pharmaceutical water –patent
<b>Mietsystem</b>		<b>PW- 85 °C RO-EDI 1000 l/h</b>  85 °C Scale inhibitor 85 °C RO 85 °C EDI  DTS- Heat exchanger Siemens WinCC Letzner-Carbonic acid -Patent and registration new Letzner-pharmaceutical water –patent

2008

<p><b>MG Sterile Products.AG</b></p> <p>Otto-Liebmann-Str. 2 97702 Műnnerstadt <a href="http://www.mq.-sterile-products.com">www.mq.-sterile-products.com</a></p>		<p><b>WFI</b> <b>2000 l/h</b> <b>6 – Columns Distillation</b> <b>Anti-Rouging Concept</b></p> <p>Sampling board <b>WFI Storage vessel</b> <b>8.000 l</b> <b>loop</b> <b>200 m</b></p> <p>Process-Visualisation Siemens WinCC flexible</p> <p><b>PW</b> <b>85 °C RO-EDI</b> <b>2500 l/h</b></p> <p>95 °C Softening unit 85 °C RO 85 °C EDI</p> <p>Sampling board</p> <p>5 000 l AP storage vessel</p> <p>DTS-Heat exchanger Letzner-UV with DVGW Sensor loop</p> <p>Letzner-Carbonic acid -Patent and registration new Letzner-pharmaceutical water –patent</p> <p>TOC measurement and integration</p>
<p><b>Rhein Biotech GmbH</b> <b>Dynavax Europe</b></p> <p>Eichsfelder Str. 11 40595 Düsseldorf <a href="http://www.rheinbiotech.com">www.rheinbiotech.com</a></p>		<p><b>CIP-SIP System</b></p> <p>1 000 l storage vessel DTS-heat exchanger loop connection Siemens WinCC flexible</p>

<b>GERRESHEIMER</b> <b>pharmaSystems</b> <b>Bünder Glas GmbH</b> <b>Erich-Martens-</b> <b>Straße 26-32</b> <b>32257 Bünde</b> <a href="http://www.gerresheimer.com">www.gerresheimer.com</a>		<b>3 x TOC device with Integration</b>
<b>Dr. Kade</b> <b>Pharmazeutische</b> <b>Fabrik GmbH</b> <b>Opelstr. 2</b>  <b>78467 Konstanz</b> <a href="http://www.kade.de">www.kade.de</a>		<b>PW</b> <b>85 °C RO-EDI</b> <span style="float: right;"><b>100 l/h</b></span>  85 °C scale inhibitor 85 °C RO 85 °C EDI  Sampling board  2 000 l storage vessel DTS-heat exchanger Letzner-UV with DVGW Sensor 200 m loop  Siemens WinCC flexible  Letzner-Carbonic acid -Patent and registration new Letzner-pharmaceutical water –patent  TOC measurement and integration
<b>Gebro Pharma GmbH</b>  <b>Bahnhofbichl 13</b>  <b>A 6391 Fieberbrunn</b> <a href="http://www.gebro.com">www.gebro.com</a>		<b>PW</b> <b>85 °C RO-EDI</b> <span style="float: right;"><b>1400 l/h</b></span>  95 °C Softening plant 85 °C RO 85 °C EDI Sampling board DTS-Heat exchanger Letzner-UV with DVGW Sensor Siemens WinCC flexible Letzner-Carbonic acid -Patent and registration new Letzner-pharmaceutical water –patent

<p><b>EGE VET HAYVANCILIK SAN. VE. TIC.LTD. STI</b></p> <p><b>Ankara Asfalti, Org. San. Bol. No:36 Ulucak / Kermalpasa / IZMIR / TURKEY</b></p> <p><b>Tel. +90.232.877 21 61 Fax +90.232.877 20 4</b></p> <p><a href="http://www.egevet.com.tr">www.egevet.com.tr</a></p>		<p><b>HPW 85 °C RO-EDI-UF                      400 l/h</b></p> <p>85 °C Scale inhibitor 85 °C RO 85 °C EDI 85 °C UF</p> <p>Sampling board Siemens WinCC flexible</p> <p>Letzner-Carbonic acid -Patent and registration new Letzner-pharmaceutical water –patent</p> <p>Storage vessel                              2500 l loop</p> <p><b>Pure steam                                      300 kg/h Anti-Rouging Concept</b></p> <p>Pure steam loop</p>
<p><b>Siegfried Pharma Development GmbH</b></p> <p><b>An der Kohlplatte 23</b></p> <p><b>89420 Höchsstadt/ Donau</b></p> <p><a href="http://www.siegfried.ch">www.siegfried.ch</a></p>		<p><b>90 °C Softening plant with UV Circulation</b></p>
<p><b>Südmö Industriestr. 7 73469 Riesbürg</b></p> <p><a href="http://www.südmö.de">www.südmö.de</a></p>		<p><b>Pre-qualified emergency system for PW 85 °C RO-EDI                              700 l/h</b></p> <p>85 °C Scale inhibitor 85 °C RO 85 °C EDI</p>

2007

<p><b>Alcon S.A.</b></p> <p><b>Av Georges Ferrenbach</b></p> <p><b>68 240 Kayzersberg Frankreich</b></p>		<p><b>HPW</b> <b>85 °C RO-EDI</b> <b>1000 l/h</b></p> <p>DTS- heat exchanger</p> <p>Letzner-UV with DVGW Sensor 30 m loop</p> <p>Store data at Industry PC Siemens WinCC flexible</p> <p>Letzner -Patent</p>
<p><b>Merck Serono</b> <b>Merck KGaA &amp;Co.</b> <b>Werk Spittal/Drau</b></p> <p><b>Hösselgasse 20</b> <b>A 9800 Spittal/Drau</b></p>		<p><b>PW</b> <b>85 °C RO-EDI</b> <b>500 l/h</b></p> <p>6 000 l tank (in situ assembling) DTS-heat exchanger Letzner-UV with DVGW Sensor</p> <p>Siemens WinCC flexible</p> <p>Letzner -Patent and registration of new Letzner-Pharmaceutical water- patent</p>
<p><b>GERRESHEIMER</b> <b>pharmaSystems</b></p> <p><b>Bünder Glas GmbH</b></p> <p><b>Erich-Martens- Straße 26-32</b></p> <p><b>32257 Bünde</b></p>		<p><b>WFI</b> <b>3500 l/h</b></p> <p><b>6 – columns distillation</b> <b>Anti-Rouging Concept</b></p> <p><b>WFI storage vessel</b> <b>10.000 l</b> <b>loop</b> <b>200 m</b></p> <p>Process –Visualisation DTS- heat exchanger</p> <p>Siemens WinCC flexible</p>

<b>EGIS PHARMACEUTICALS LTD Injections Plant</b>  <b>Bökenyöldi ut 118</b>  <b>H 1165 Budapest</b>		<b>PW supply</b> <b>PW storage vessel</b> <b>10.000 I</b> <b>loop</b> <b>700 m</b>  Process –Visualisation Siemens
<b>DYNAVAX EUROPE</b> <b>Eichsfelder Straße 11</b>  <b>40595 Düsseldorf</b>		<b>PW extension</b> <b>from 400 to 800 I/h</b> <b>PW storage vessel</b> <b>5.000 I</b> <b>loop</b> <b>100 m</b>
<b>Weleda AG</b>  <b>Möhlerstraße 3</b>  <b>73503</b> <b>Schwäbisch Gmünd</b>		<b>PW</b> <b>85 °C RO-EDI</b> <b>1500 I/h</b>  8 000 I tank (in situ assembling) DTS- heat exchanger Letzner-UV with DVGW Sensor loop connection Hygienic pumps  Siemens WinCC flexible  Letzner -Patent and registration of new Letzner-Pharmaceutical water- patent
<b>hameln pharmaceuticals gmbh</b>  <b>Langes Feld 13</b>  <b>31789 Hameln</b>		<b>HPW</b> <b>85 °C RO-EDI-UF</b> <b>5000 I/h</b>  Siemens WinCC flexible  Letzner -Patent and registration of new Letzner-Pharmaceutical water- patent  <u>5 Years Full-Service Contract</u>

<p><b>Serag Wiessner</b>  <b>Zum Kugelfang 8-12</b></p> <p><b>D 95119 Naila</b></p>		<p><b>PW</b>  <b>85 °C RO-RO</b> <span style="float: right;"><b>2500 l/h</b></span></p> <p>8000 l tank          Hygienic pumps          DTS- heat exchanger</p> <p>Letzner-UV with DVGW Sensor</p> <p>100 m loop</p> <p>Store data at Industry PC          Siemens WinCC flexible</p> <p>Letzner -Patent and registration of new          Letzner-Pharmaceutical water- patent</p>
<p><b>Siemens und Co</b>  <b>Emser Salz</b></p> <p><b>Arzbacherstr. 78</b></p> <p><b>56130 Bad Ems</b></p>		<p><b>PW</b>  <b>85 °C RO-EDI</b> <span style="float: right;"><b>200 l/h</b></span></p> <p>800 l tank (hot storage)          200 l tank (cool storage)</p> <p>DTS- heat exchanger</p> <p>Letzner-UV with DVGW Sensor</p> <p>300 m loop</p> <p>Store data at Industry PC          Siemens WinCC flexible</p> <p>Letzner-Patent</p>

<p><b>Lohmann und Rauscher</b></p> <p><b>Irlicher Str. 55</b></p> <p><b>56567 Neuwied</b></p>		<p><b>PW</b></p> <p><b>85 °C RO-EDI</b> <b>600 l/h</b></p> <p><b>85 °C Softening plant 5000 l/h</b></p> <p>5000 l tank DTS- heat exchanger</p> <p>Letzner-UV with DVGW Sensor</p> <p>400 m loop</p> <p>Store data at Industry PC Siemens WinCC flexible</p> <p>Letzner-Patent</p> <p><b>Pure steam</b> <b>500 kg/h</b></p> <p>Anti-Rouging concept</p> <p>Pure steam supply line</p>
<p><b>Phyton Biotech</b></p> <p><b>Alter Postweg 1</b></p> <p><b>D 22926 Ahrensburg</b></p>		<p><b>Pure steam</b> <b>500 kg/h</b></p> <p><b>Anti-Rouging Concept</b></p> <p>Store data at Industry PC Siemens WinCC flexible</p>
<p><b>Magistra C&amp;C</b></p> <p><b>900133 Constanta</b></p> <p><b>Romania</b></p>		<p><b>PW</b></p> <p><b>85 °C RO-EDI</b> <b>500 l/h</b></p> <p>2000 l tank</p> <p>DTS- heat exchanger Letzner-UV with DVGW Sensor</p> <p>400 m loop</p> <p>Store data at Industry PC Siemens WinCC flexible</p> <p>Letzner -Patent and water production stage</p>



<p><b>Dr. Wild &amp; Co. AG</b> <b>Pharma Produkte</b></p> <p><b>CH-4132 Muttenz</b></p>		<p><b>PW</b> <b>85 °C RO-EDI</b> <b>100 l/h</b></p> <p>1000 l tank</p> <p>DTS- heat exchanger Letzner-UV with DVGW Sensor 200 m loop</p> <p>Store data at Industry PC Siemens WinCC flexible</p> <p>Letzner -Patent</p> <p><b>Pure steam</b> <b>55 kg/h</b></p> <p>Pure steam supply line</p>
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2006

<p><b>Grünenthal</b></p> <p><b>Stolberg</b></p>		<p><b>Columns and evaporator for 2000 kg/h</b></p> <p><b>Pure Steam generator</b></p>
<p><b>Allergopharma Joachim Ganzer KG</b></p> <p><b>Reinbek</b></p>		<p><b>Pure Steam generator 20 kg/h</b></p> <p><b>Pure Steam supply line 30 m</b></p>
<p><b>Grünenthal AG,</b></p> <p><b>Aachen Eilendorf</b></p>		<p><b>PW- 85 °C RO-EDI 800 l/h</b></p> <p>DTS- Heat exchanger Letzner-UV with DVGW Sensor 300 m loop Hygienic pumps</p> <p>Siemens WinCC flexible Data storage Part 11</p>
<p><b>Südmo</b></p> <p><b>Riesbürg</b></p>		<p><b>4 Stages Distillation plant 750 l/h</b></p> <p><b>Simultaneous Pure Steam production 200 kg/h</b></p> <p>Data storage at Industry PC</p> <p>Siemens WinCC flexible</p>
<p><b>Astra Zeneca</b></p> <p><b>Plankstadt</b></p> <p><b>Otto Hahn Str.</b></p> <p><b>68723 Plankstadt</b></p>		<p><b>Pure Steam supply line</b></p>

<p><b>Astra Zeneca Plankstadt</b></p> <p><b>Otto Hahn Str.</b></p> <p><b>68723 Plankstadt</b></p>		<p><b>Pure Steam generator 500 kg/h</b></p> <p>Data storage at Industry PC</p> <p>Siemens WinCC flexible</p>
<p><b>Gebro Broschek</b></p> <p><b>Fieberbrunn</b></p>		<p><b>PW loop</b></p> <p><b>WFI loop</b></p> <p><b>RD supply line</b></p>
<p><b>PharCoNA GmbH</b></p> <p><b>Benz Str. 1</b></p> <p><b>48683 Ahaus</b></p>		<p><b>PW 85 °C RO-EDI 400- 800 l/h</b></p> <p>10.000 l tank</p> <p>DTS- heat exchanger Letzner-UV with DVGW Sensor</p> <p>300 m loop</p> <p>Data storage at Industry PC</p> <p>Siemens WinCC flexible</p> <p>Letzner -Patent</p>
<p><b>Pharma Naturheilmittel Ehrlich GmbH</b></p> <p><b>Bad Wurzach</b></p>		<p><b>PW 85 °C RO-EDI 100 l/h</b></p> <p>500 l tank</p> <p>DTS-heat exchanger</p> <p>Letzner-UV with DVGW Sensor 30 m loop Data storage at Industry PC</p> <p>Siemens WinCC flexible</p> <p>Letzner-Patent</p>

<p><b>Merckle Ratiopharm</b></p> <p><b>Blaubeuren Weiler</b></p>		<p><b>WFI supply system</b></p> <p><b>Station of pumps</b> <b>Heat exchanger</b> <b>loop construction</b></p>
<p><b>Gebro Broschek</b></p> <p><b>Fieberbrunn</b></p>		<p><b>Pure steam</b> <b>500 kg/h</b></p> <p><b>Anti-Rouging Concept</b></p> <p>Heating: electrical Data storage at Industry PC</p> <p>Siemens WinCC flexible</p>

2005

<p><b>GERRESHEIMER pharmaSystems</b></p> <p><b>Bünder Glas GmbH</b></p> <p><b>Erich-Martens- Straße 26-32</b></p> <p><b>32257 Bünde</b></p>		<p><b>HPW</b> <b>85 °C RO-EDI-RO</b> <b>2000 l/h</b></p> <p>DTS- Heat exchanger Letzner-UV with DVGW Sensor</p> <p>Siemens WinCC flexible</p> <p>Letzner -Patent</p> <p>Data recorder-Part 11</p>
<p><b>AstraZeneca GmbH</b></p> <p><b>Tinsdahler Weg 183</b></p> <p><b>22876 Wedel</b></p>		<p><b>PW</b> <b>85 °C RO-EDI</b> <b>500 l/h</b></p> <p>1 500 l tank DTS- heat exchanger Electrical heating rod Letzner-UV with DVGW Sensor 200 m loop Data storage at Industry PC and over the MPI gateway of AstraZeneca PC</p> <p>Siemens WinCC flexible</p> <p>Letzner -Patent and registration of new Letzner-Pharmaceutical water- patent</p>
<p><b>EGIS PHARMACEUTICALS LTD</b></p> <p><b>Injections Plant</b></p> <p><b>Bökenyöldi ut 118</b></p> <p><b>H 1165 Budapest</b></p>		<p><b>WFI</b> <b>Multi- effect still</b> <b>1500 l/h</b></p> <p><b>Pure Steam</b> <b>500 kg/h</b></p> <p><b>WFI storage vessel</b> <b>10.000 l</b></p> <p><b>loop</b> <b>700 m</b></p> <p>Tap connection cooler Process- Visualisation Siemens</p>
<p><b>ZLB Behring</b> <b>35002 Marburg</b></p>		<p><b>Report</b></p> <p><b>New patent registration</b> applied to Letzner System in H 68 with <b>16.000 l/h</b></p>

<p><b>hameln pharmaceuticals gmbh</b></p> <p><b>31789 Hameln</b></p>		<p><b>HPW 80 °C RO-EDI-UF 5000 l/h (extension 10.000 l/h)</b>          16 000 l tank,          85 °C Softener          Letzner-UV,          DTS-heat exchanger          Siemens WinnCC flexible  <u>Letzner-Patent</u></p>
<p><b>DR. KADR PHARMAZEUTISCHE FABRIK GMBH</b></p> <p><b>Opelstraße 2</b></p> <p><b>78467 Konstanz</b></p>		<p><b>PW 80 °C RO-EDI 100 l/h</b>          Scale inhibitor,  <u>no softener</u>  <u>Letzner-Patent</u>          800 l tank,          Purified water loop          Letzner-UV,          DTS-heat exchanger          Siemens Visualization          Data recorder-Part 11</p>
<p><b>Hexal AG</b></p> <p><b>Industriestr. 25 83607 Hozkirchen</b></p>		<p><b>Hot-water santizable softener 316 L</b>  <b>Pretreatment for septronline Christ Pharma &amp; Life Science</b></p>
<p><b>Fraunhofer- Gesellschaft München</b></p> <p><b>Institut für Molokularbiologie und Angewandte Oekologie (IME)</b></p> <p><b>Frockenbeckstra0e 6 52074 Aachen</b></p>		<p><b>PW- 80 °C RO-EDI 500 l/h</b>          Scale inhibitor,  <u>no softener</u>  <u>Letzner-Patent</u>          tank 5 000 l,          350 m loop          UV,          DTS-heat exchanger</p> <p><b>Multi effect Still 400 l/h</b>          tank 4 000 l 3,0 bar          300 m loop          DTS-heat exchanger</p> <p><b>Pure steam generation 330 kg/h</b>          150 m loop</p> <p><b>CIP System</b>          300 m loop          Visualization by          Siemens WinnCC flexible          Data recorder</p>

<p><b>MEDINSA</b>  <b>MEDICAMENTOS</b>  <b>INTERNACIONALES</b>  <b>S.A. Solana 26</b>  <b>E 28850 Torrejon de</b>  <b>Ardoz - Madrid</b></p> <p><b>Grupo Grünenthal</b>  <b>Espana</b></p> <p><b>EMMSA</b>  <b>Dr. Fleming 1</b>  <b>28036 Madrid</b></p>		<p><b>PW-</b>  <b>80 °C RO-EDI 1500 I/h</b>          Scale inhibitor,  <u>no softener</u>          tank 5 000 l,          UV,          DTS-heat exchanger          Visualization by          Siemens WinnCC flexible          Data recorder          Letzner-Patent</p>
<p><b>G.Pohl-Boskamp</b>  <b>GmbH &amp; Co.</b>  <b>Pharmazeutische</b>  <b>Fabrik seit 1835</b></p> <p>D 25551  <b>Hohenlockstedt</b></p>		<p><b>PW</b>  <b>80 °C RO-EDI 400 I/h</b>          Scale inhibitor,  <u>no softener</u>          3 000 l tank,</p> <p>DTS-heat exchanger  <u>Letzner-Patent</u>          150 m Purified water loop          Siemens WinnCC flexible</p>

2004

<p><b>W.C. Hereaus GmbH &amp; Co. KG</b> 63450 Hanau</p>		<p><b>HPW</b> <b>80 °C RO-EDI-RO 200 l/h</b> 3 000 l tank, Letzner-UV, DTS-heat exchanger <u>Letzner-Patent</u> Purified water loop <b>Pure steam generator 50 kg/h</b></p>
<p><b>SOLVAY PHARMACEUTICALS</b>  30173 Hannover</p>		<p><b>40 l/h</b> <b>Laboratory Pharmaceutical Water systems</b> <b>80 °C RO-EDI</b> 500 l tank, Purified water loop Letzner-UV, DTS-heat exchanger Siemens Visualization <u>Letzner-Patent</u> Data recorder-Part 11</p>
<p><b>SOLVAY PHARMACEUTICALS</b>  30173 Hannover</p>		<p><b>25 l/h</b> <b>Laboratory Pharmaceutical Water systems</b> <b>80 °C RO-EDI</b> 400 l tank, Purified water loop Letzner-UV, DTS-heat exchanger Siemens Visualization <u>Letzner-Patent</u> Data recorder-Part 11</p>
<p><b>Grünenthal AG,</b> Stolberg</p>		<p><b>PW-RO-EDI 800 l/h</b> Scale inhibitor, <u>no softener</u> tank 6 000 l, UV, DTS-heat exchanger Siemens WinnCC flexible Letzner-Patent Visualization</p>



<b>CEVA – PHYLAXIA VETERINARY BIOLOGICALS CO.LTD</b>  1107 Budapest		<b>Pure steam generator 500 kg/h HPW Distribution UF System</b> 1 000 l tank, Letzner-UV, DTS-heat exchanger 120 m Highly Purified water loop
<b>ASM</b> Möhlin (Rheinfelden)		<b>80 °C PW-RO-EDI 1500/2000 l/h</b> softener 12 000 l tank, 3 x Letzner-UV, DTS-heat exchanger <u>Letzner-Patent</u> Purified water loop, Siemens WinnCC flexible Data recorder-Part 11
<b>Caesar &amp; Loretz Caelo GmbH</b> 53227 Bonn-Beul		Extension for Purified water loop <b>electrical heat able</b> <b>Point of use</b>
<b>FIMA</b> 74423 Obersontheim		<b>2 x Water-Sterile system for API</b>  <b>Project India</b>
<b>FIMA</b> 74423 Obersontheim		<b>1 x Water-Sterile system for API</b>  <b>Project Ireland</b>
<b>Sanum Kehlbeck</b> Hoya/Weser		<b>80 °C RO-EDI 200 l/h</b> 2 000 l tank, Letzner-UV, DTS-heat exchanger <u>Letzner-Patent</u> Purified water loop

<b>Dragenopharm</b> Apotheker Püschl GmbH & Co. KG Göllstraße 1  84529 Tittmoning		<b>80 °C PW-RO-EDI 400 l/h</b> Scale inhibitor, <u>no softener</u> 3000 l tank, Letzner-UV, DTS-heat exchanger <u>Letzner-Patent</u> Purified water loop,
<b>Rhein Biotech AG</b> Düsseldorf		<b>Still 80 l/h</b> <b>Pure Steam Generator 80 kg/h</b> <b>WFI tank 3,0 bar 1000 l</b> <b>WFI Distribution loop 120 m</b> 3 DTS Heat exchangers Visualization
<b>Altana Pharma</b> Brazil		<b>DTS-heat exchanger</b>
<b>Rhein Biotech AG</b> Berna, Bern  Düsseldorf		<b>DQ for new WFI/PS Storage and distribution system</b>
<b>Bayer</b> , Colombia		<b>Letzner-UV for feedwater and PW</b>
<b>Pulmotech</b> Höchststadt		<b>Consulting</b>
<b>ESC Engineering</b> Poland Lithauen		<b>DTS-heat exchanger</b>
<b>Wülfig Pharma</b> GmbH Bethelner Landstr. 1  31028 Gronau/Leine		<b>Letzner UV mit DVGW Sensor</b> 3000 l/h Replacement for UF System

2003

<p><b>Mundipharma GmbH</b> Mundipharma Straße 2 65549 Limburg (Lahn)</p>		<p><b>80 °C PW-RO-EDI 1200 I/h</b> Hot-water santizable softener,316 L Monitoring box 3 x Letzner-UV, DVGW Sensor Letzner-CO<sub>2</sub> Patent TOC – Sievers Visualization, Integration of existing tank and loop DQ / IQ / OQ</p>
<p><b>WALA Heilmittel GmbH</b> 73085 Bad Boll</p>		<p><b>WFI Storage and distribution system</b> 150 m WFI loop DTS Heat exchangers 1800 l vessel TOC – Sievers Visualization</p>
<p><b>Serumwerk Bernburg</b> Bernburg</p>		<p><b>HPW</b> <b>8000 I/h - 2 stage RO extension for 12.000 I/h.</b> <b>Variable production down to 5000 I/h</b> Scale inhibitor, <u>no softener</u> CIP integrated Letzner-CO<sub>2</sub> Patent TOC – Sievers Visualization, DTS-heat exchanger</p>
<p><b>Schering Plough</b> Essex Animal Health Friesoythe</p>		<p><b>80 °C PW-RO-EDI 3300 I/h,</b> Scale inhibitor Letzner-UV DVGW Sensor <u>Letzner-Patent</u> DTS-heat exchanger PW loop Visualization, DQ / IQ / OQ</p>
<p><b>Pharma Wernigerode,</b> 38841 Wernigerode</p>		<p><b>Pure Steam generator 150 kg/h</b> Mobile Visualization, DQ / IQ / OQ</p>

<b>Bode Chemie,</b> Hamburg		<b>PW-RO-EDI 3000 I/h</b> Extension for 5.000 I/h. Scale inhibitor, <u>no softener</u> 20 000 I tank, Letzner-UV, DVGW Sensor DTS-heat exchanger Visualization <u>Letzner-Patent</u> Purified water loop, DQ / IQ / OQ
<b>AWD Dresden</b> Dresden		<b>80 °C PW-RO-EDI 2000 I/h</b> Scale inhibitor, <u>no softener</u> 2 x tank, 2 x Letzner-UV, 2 x DTS-heat exchanger <u>Letzner-Patent</u> Purified water loop, Visualization, DQ / IQ / OQ
<b>Bayer, Guatemala</b>		<b>80 °C PW-RO-EDI 150 I/h</b> Scale inhibitor, <u>no softener</u> tank, Letzner-UV, DTS-heat exchanger <u>Letzner-Patent</u> DQ / IQ / OQ
<b>Riemser Arzneimittel          AG</b> Insel Riems		<b>PW-RO-EDI 500 I/h</b> <b>Multi effect still</b> <b>Pure Steam generator</b> Scale inhibitor, <u>no softener</u> PW and WFI loop Pure steam distribution PW tank and WFI tank Letzner-UV, DTS-heat exchanger Visualization, <u>Letzner-Patent</u> DQ / IQ / OQ

<b>Pulmotech</b> Höchststadt		<b>PW-RO-EDI 250 I/h</b> Scale inhibitor, <u>no softener</u> Letzner-UV, DTS-heat exchanger
<b>Grünenthal</b> , Aachen		<b>DTS Heat exchanger</b>
<b>TEW Dessau</b> Tornau		<b>Pure Steam Sampling system</b>
<b>Gebro</b> , A Fieberbrunn		<b>Purified water loop</b>
Azupharma/Novatis Gerlingen		<b>Rental System</b> <b>RO/EDI 500I/h</b> <u>no softener</u> <u>Letzner-Patent</u>
<b>Skin &amp; Health</b> Billerbeck		<b>Letzner-UV</b> , DVGW Sensor
<b>Schneider Weisse</b> Kelheim		<b>1 x 100.000 I/h Letzner UV</b>  <b>1 x 30.000 I/h Letzner-UV</b>  <b>1 x 10.000 I/h Letzner-UV</b>  <u>Letzner-Patent for UV</u>
<b>Wako</b> , Neuss		<b>Requalification Letzner PW System</b> <u>Letzner-Patent</u>

**2002**

<p><b>Grünenthal AG,</b> Mitlödi, Switzerland</p>		<p><b>PW-RO-EDI 250 I/h</b> Scale inhibitor, <u>no softener</u> tank 1.500 I, tank 6 000 I UV, DTS-heat exchanger Letzner-Patent 2 x Purified water loop Visualization, DQ / IQ / OQ</p>
<p><b>Dyckerhoff GmbH,</b> Köln</p>		<p><b>Single-effect-still 60I/h,</b> <b>HSS-RO 100I/h,</b> <b>Pure steam generator 80 kg/h</b> WFI loop, tank, DQ, IQ, OQ</p>
<p><b>Aventis Pharma</b> <b>H 600</b> Deutschland GmbH, Frankfurt</p>		<p><b>Pure steam generator 2000 kg/h</b></p>
<p><b>Chiron Behring</b> GmbH, Marburg</p>		<p><b>RO- EDI 6000 I/h</b> <b>Multi-effect-still 1.200 I/h</b> Hot-water sanitisable softener Visualization, <u>Letzner-Patent</u></p>
<p><b>BBraun Melsungen</b> AG, Berlin</p>		<p><b>Multi-effect-still 1.000 I/h</b> TOC Visualization, DQ, IQ, OQ</p>
<p><b>IDT GmbH,</b> Dessau</p>		<p><b>80 °C PW-RO-RO 2300 I/h</b> <b>Multi-effect-still 1.000 I/h</b> <b>Pure steam generator 2000 kg/h</b> Hot-water sanitisable softener, PW and WFI loop, PW tank WFI tank, softener DTS-heat exchanger Visualization, <u>Letzner-Patent</u> DQ, IQ, OQ</p>

<b>Pflüger</b> Arzneimittel GmbH Rheda Wiedenbrück		<b>80 °C PW-RO-EDI 100 I/h</b> no Softener UV, DTS-heat exchanger Letzner-Patent tank Purified water loop, Visualization, DQ / IQ / OQ
<b>Aventis</b> Pharma Deutschland GmbH, H600 Frankfurt		<b>Electrical Heater,</b> 1000I/h Electro polished
<b>Croma</b> A-Leobendorf		<b>PW-RO-EDI 100 I/h</b> Scale inhibitor, <u>no softener</u> tank, UV, WFI Tank Letzner-Patent Purified water loop, DQ / IQ / OQ
<b>Kramer und Best</b>		<b>DTS-heat exchanger</b>
<b>Heel</b> , Belgien, Gent		<b>Letzner-UV,</b> <b>DTS-heat exchanger,</b> <b>PW-loop</b>
<b>Bayer S.A.</b> Cali, Columbia		<b>PW-RO-EDI 600 I/h</b> 80 °C Pre-treatment Scale inhibitor, <u>no softener</u> RO-System heat sanitization <u>Letzner-Patent,</u> tank 2.500 I, heat-exchanger, UV Visualization, DQ / IQ / OQ
<b>Drossa</b> Pharm AG CH-4144 Arlesheim		<b>PW-RO-EDI 400 I/h</b> <u>Letzner-Patent</u> <u>no softener</u>

<b>Caesar &amp; Loretz Caelo</b> GmbH 53227 Bonn-Beul		<b>80 °C PW-RO-RO 500 I/h</b> Scale inhibitor <u>Letzner-Patent</u> tank, distribution loop, UV Visualization, DQ / IQ / OQ
<b>Alpha Bioverfahrens</b> GmbH D-14943 Luckenwalde		<b>PW-RO 120 I/h,</b> <b>single effect still (50 I/h WFI)</b> <b>pure steam generator,</b> storage tanks <u>Letzner-Patent</u> <u>no softener</u>
<b>Schering AG</b> D-13342 Berlin		<b>RO-EDI 1000 I/h</b> <b>80 °C softener</b> UV PW-loop-system-control <u>Letzner-Patent</u>
<b>Chemedica SA</b> CH – Vouvry		<b>PW-RO 300 I/h,</b> <b>pure steam generator 200 kg/h,</b> DTS-heat exchanger
<b>Phyton GmbH</b>		<b>DTS-heat exchanger</b>
<b>Gebro Pharma GmbH</b> A – Fieberbrunn		<b>DTS-heat exchanger</b>
<b>Bünder Glas GmbH</b> D – Bünde		<b>HPW</b> <b>80 °C RO-EDI-RO 1400 I/h</b> Softener in 316 L, RO-System heat sanitization Tank HPW loop Visualization, DQ / IQ / OQ
<b>Grünenthal</b> (Tecnandina) Quito, Ecuador		<b>80 °C PW-RO-EDI 1500 I/h</b> Pre-treatment, Scale inhibitor, <u>no softener</u> RO-System heat sanitization <u>Letzner-Patent,</u>



<b>Grünenthal GmbH</b> D – Aachen		<b>Pure-steam generator</b> <b>2.000 kg/h</b>
Grünenthal GmbH D – Aachen		<b>Multi-effect-still 1000l/h</b> WFI Tank
<b>WDT</b> Berenbosten		<b>PW-RO-EDI 500 l/h</b> <b>Pure Steam generator</b> Scale inhibitor, <u>no softener</u> PW and WFI loop Pure steam distribution PW tank UV, DTS-heat exchanger Visualization, <u>Letzner-Patent</u> DQ / IQ / OQ

2001

<p><b>Advance Biofactures of Curaçao</b> Niederländische Antillen</p>		<p><b>PW-RO-EDI 400 I/h</b> <b>Pure steam generator 100 kg/h,</b> (RO-System heat sanitation) Scale inhibitor, <u>no softener</u> Letzner Patent tank 600 I, DTS-heat exchanger, visualisation <u>Letzner-Patent,</u> hot loop</p>
<p><b>Sartorius AG</b> Göttingen</p>		<p><b>RO 4000 I/h</b> Scale inhibitor, <u>no softener</u> Letzner Patent tank 6000 I, DTS-heat exchanger, loop visualisation <u>Letzner-Patent,</u></p>
<p><b>Wacker Chemie</b> Nünchritz</p>		<p><b>RO 1000 I/h</b> Letzner Patent tank 6000 I, DTS-heat exchanger, ozone loop , visualisation <u>Letzner-Patent,</u></p>
<p><b>Pfizer AG</b> Freiburg</p>		<p><b>PW RO-RO 4000 I/h</b> softener Letzner Patent visualisation <u>Letzner-Patent,</u></p>
<p><b>Vetter Pharma</b> Ravensburg und Lagenargen</p>		<p><b>2 x multi-effect stills</b> <b>2.000 I/h</b></p>
<p><b>Tropon</b> Köln</p>		<p><b>TOC measurement device</b></p>
<p><b>Vetter Pharma</b> Ravensburg</p>		<p><b>2 x USP-PW-RO-EDI 10.000 I/h</b> <b>Softener</b></p>

<b>Vetter Pharma</b> Langenargen		<b>USP-PW-RO-EDI 10.000 l/h</b> <b>softener</b>
<b>Vanguard GmbH</b> D-Berlin		<b>PW-RO-EDI 500 l/h</b> tank 1.500 l, UV, ozone, DTS-heat exchanger whole plant on portable frame <u>Letzner-Patent</u> <b>Single effect still (50 l/h) and</b> <b>pure steam generator (50 kg/h),</b> tank 1.000 l, UV, ozone, DTS-heat-exchanger Visualization, <u>Letzner-Patent</u> DQ / IQ / OQ
<b>Gebro Pharma GmbH</b> A-Fieberbrunn		<b>PW-RO-EDI 500 l/h</b> <b>heat sanitization for RO+EDI</b> No softener Letzner patent tank 3.500 l, DTS-heat exchanger
<b>Serumwerk Bernburg</b> Bernburg		<b>Mobile Pure steam generator</b> <b>30 kg/h</b>
<b>Merck</b> D-Darmstadt		<b>Single effect still (100 l/h WFI)</b> <b>and pure steam generator</b> <b>(150 kg/h)</b>
<b>Dyckerhoff GmbH &amp;</b> Co KG D-Köln		<b>Single effect still (40 l/h WFI)</b> <b>and pure steam generator</b> <b>(80 kg/h)</b>
<b>Diamant Quelle</b> Klee&Jungbluth D-Thalfang		<b>Removal of iron-manganese</b> <b>2x 25m³/h</b>  (Degasser and Filter with LETZFILT and LETZFILT PLUS)
<b>Diamant Quelle</b> Klee&Jungbluth D-Schwollen		<b>Plant for removal of iron-</b> <b>manganese</b> <b>20 m³/h</b>  (Degasser and Filter with LETZFILT and LETZFILT PLUS)

<b>Herbstreith &amp; Fox</b> Pektin Fabrik Werder D-Werder		<b>Plant for removal of iron-manganese</b> <p style="text-align: right;"><b>80 m<sup>3</sup>/h</b></p> (Filter with LETZFILT)
<b>Gaffel Brauerei Becker &amp; Co.</b> D-Köln		Effect increase of UO-Plant (Output Permeate 14,5m <sup>3</sup> /h) from 72% to 90% including antiscalant dosing. New plant's piping in stainless steel.
<b>Privatbrauerei Reissdorf</b> D-Köln		<b>Plant for removal of iron-manganese</b> <p style="text-align: right;"><b>105 m<sup>3</sup>/h</b></p> (Filter with LETZFILT)  <b>RO</b> <span style="float: right;"><b>35 m<sup>3</sup>/h</b></span> Hardness stabilisation (Output 89%)
<b>Gaffel Brauerei Becker &amp; Co.</b> D-Köln		<b>Plant for removal of iron-manganese</b> <p style="text-align: right;"><b>105 m<sup>3</sup>/h</b></p> (Filter with LETZFILT)  <b>2 x UO each 35 m<sup>3</sup>/h(Power 89%) Antiscalant</b>
<b>Eckes-Granini</b> D-Fallingbostel		<b>Expansion of the plant for removal of iron-manganese to</b> <p style="text-align: right;"><b>50 m<sup>3</sup>/h</b></p> (Filter with LETZFILT)
<b>Axel Springer Verlag</b> D-Darmstadt		<b>Expansion of the existing water treatment plant RO 400 l/h</b>
<b>Selters Mineralquelle</b>		<b>System for removal of iron-manganese</b> <b>Water softening</b> <b>Production of mineral water</b> <b>Capacity</b> <span style="float: right;"><b>30 m<sup>3</sup>/h</b></span>  (Filter with LETZFILT)

2000

<b>Rhein Biotech GmbH</b> D-Düsseldorf		<b>PW-RO-EDI 250 I/h</b> tank 1.500 I, UV, DTS-heat exchanger whole plant on portable frame <u>Letzner-Patent</u> <b>Pure steam generator (80 kg/h)</b> Purified water loop 150m, pure steam distribution 80m, DQ / IQ / OQ
<b>Medice GmbH</b> D-58634 Iserlohn		<b>Single effect still (200 I/h WFI) or pure steam generator (200 kg/h),</b> tank, distribution loop
<b>Pharma Wernigerode GmbH</b> D-38855 Wernigerode		<b>PW-RO-RO 1000 I/h</b> (RO-System heat sanitization) dosing system for PW
<b>Suvelak Skin and Health</b> Billerbeck		<b>PW-RO-RO 4000 I/h</b> <b>Pure steam 500 kg/h</b> Scale inhibitor, <u>no softener</u> PW and Pure steam distribution PW tank UV, DTS-heat exchanger Visualization, Letzner-Patent DQ / IQ / OQ
<b>Schering Plough</b> Essex Animal Health D-Burgwedel		<b>EP-PW-RO-RO 150 I/h</b> HHS-80°C-system visualization <u>Letzner-Patent</u> DQ / IQ / OQ
<b>Panacea Biotech Ltd.</b> New Delhi, India		<b>80 °C PW-RO-EDI 3000 I/h</b> (RO-System heat sanitization) <u>Letzner-Patent</u> <u>no softener</u>
ROM, Freiburg <b>Goedecke</b> Park Davis D-Freiburg		Components for PW loop tank, pumps
<b>HMR</b> D-Marburg		Consulting for PW and WFI production and distribution building H 12 / H 10

<b>Plasma Select GmbH</b> Teterow D-Teterow		<b>HPW</b> <b>RO-RO</b> <b>4.500 I/h</b> <b>HHS-80 °C-system</b> no softener CO <sub>2</sub> stripping device visualization <u>Letzner-Patent</u> PW-tank, WFI-tank, WFI loop <b>Still 625 I/h</b> <b>Pure steam 1.000 kg/h</b> DQ / IQ / OQ
<b>Behringwerke,</b> InfraSerV D-Marburg		Consulting for WFI production and distribution Building H 69
<b>Chiron Behring</b> D-Marburg		Consulting, optimising of RO-System Building H 28
<b>Boehringer Ingelheim</b> D-Biberach		DTS–heat exchanger
<b>Heumann Pharma GmbH</b> D-Nürnberg		<b>USP-PW-RO-RO</b> <b>1.000 I/h</b> HHS-80°C- systemloop, CO <sub>2</sub> stripping device TOC visualization no softener <u>Letzner-Patent</u>
<b>MDS Nordion S.A.</b> Fleurus, Belgium		<b>USP-PW-RO-RO 300 I/h</b> no softener PW-tank, PW-loop USP-WFI, <b>multi effect still</b> WFI-tank, WFI-loop DTS-heat exchanger, visualization, DQ / IQ / OQ
<b>Esparma GmbH</b> Pharmazeutische Fabrik D-Magdeburg		<b>Ph. Eur. PW-RO 300 I/h</b> no softener Letzner Patent PW-tank hot, PW-tank heat exchanger DQ / IQ / OQ

1999

<p><b>Aventis Behring</b> Marburg H68</p>		<p><b>HPW RO-RO 12.000 I/h HHS-80 °C-system</b> no softener, Scale inhibitor visualization <u>Letzner-Patent</u> PW-tank, loop</p>
<p><b>Sixtus-Werke</b> Fritz Becker GmbH Co. KG D-Hausham</p>		<p><b>PW-RO 200 I/h</b> tank, loop CO2 stripping device visualization Letzner-Patent</p>
<p><b>Insulin Plant</b> Cuba</p>		<p><b>Consulting for PW System</b></p>
<p><b>Steierl-Pharma GmbH</b> D-Herrsching</p>		<p><b>USP-PW-RO-RO 150 I/h</b> HHS-80°C-system no softener tank, loop CO2 stripping device visualization Letzner-Patent</p>
<p><b>Gedeon Richter</b> Pharmaceutical Production Budapest, Hungary</p>		<p><b>USP-WFI, multi effect still pure steam generator</b> WFI-tank, WFI- loop pure steam distribution mass flow controller, 3 preparation vessels DTS-heat exchanger, visualization DQ / IQ / OQ / SOPs</p>
<p><b>Gedeon Richter</b> New R+D facility Budapest, Hungary</p>		<p><b>USP-WFI, multi effect still pure steam generator</b> WFI-tank, WFI-loop pure steam distribution DTS-heat exchanger, visualization DQ / IQ / OQ / SOPs</p>

<b>Hoechst Marion Roussel S.A.</b> Sant Feliu de Llobregat Barcelona, Spain		<b>HPW</b> <b>1.000 I/h 80 °C</b> nanofiltration and RO HHS-80°C-system CO2 stripping device visualization Letzner-Patent
<b>Serumwerk Bernburg</b> AG D-Bernburg		<b>PW - RO 12.000 I/h</b> no softener CO2 stripping device visualization Letzner-Patent
<b>alphamed Pharbil</b> Arzneimittel GmbH D-Bielefeld		<b>USP-PW-RO-RO 1.000 I/h</b> CO2 stripping device visualization Letzner-Patent



1998

<b>Ortho Diagnostic System Inc.</b> Johnson+Johnson, Raritan NJ, USA		<b>Mixing vessel with cooling system</b>
<b>Centeon Pharma GmbH</b> D-Marburg		<b>Redesign of USF -RO for WFI</b>
<b>Boehringer Ingelheim</b> D-Biberach		<b>DTS-heat exchanger</b>
<b>Linde KCA</b> Dresden Ladyshin UK-Ukraine		<b>USP-PW-RO-RO 2.500 l/h</b> <b>4 effect still 800 l/h</b> <b>pure steam generator 750 kg/h</b> 10000 l PW- and WFI-tank DTS-heat exchanger DQ / IQ / OQ CO <sub>2</sub> stripping device visualization <u>Letzner-Patent</u>
<b>Dr. Mann Pharma</b> Chem. -pharm. Fabrik D-Berlin		<b>2 x DTS-heat exchanger for WFI</b>
<b>Vetter Injekt System</b> D-Langenargen		<b>Pure steam generator 600 kg/h</b>
<b>Pfizer Animal Health S.A.</b> Rixenart, Belgium		<b>Pure steam generator 400 kg/h</b> <b>still 400 l/h WFI-tank 1.500 l</b> loop
<b>Phyton</b> Gesellschaft für Biotechnr mbH D-Ahrensburg		<b>HPW</b> <b>HHS-80°C-system</b> <b>PW/WFI-system</b> <b>RO 1.000/4.000 l/h</b> <b>no softener</b> heat sanitation of RO tank 20.000 l loop 400 m, UV DTS-heat exchanger visualization <u>Letzner-Patent</u>
<b>Behringwerke,</b> InfraSerV D-Marburg		Consulting redesign of WFI distribution

<p><b>InfaServ</b> D-Marburg</p>		<p>Maintenance contract for US-filter RO</p>
<p><b>Chiron Behring</b> D-Marburg</p>		<p>Redesign, optimizing of RO</p>
<p><b>Cegelec</b>, Lyon France</p>		<p>pure steam generator 100 kg/h</p>
<p><b>Phyton</b> Gesellschaft für Biotechnik mbH D-Ahrensburg</p>		<p>PW-tank 20.000 l</p>
<p><b>Cegelec</b>, Lyon France</p>		<p><b>Pure steam generator</b> <b>150 kg/h</b></p>

1997

<p><b>Lichtwer Pharma GmbH</b> D-Berlin</p>		<p><b>USP-PW-RO-RO 1.000 l/h</b> no softener tank 5000 l, loop, DTS-heat exchanger CO<sub>2</sub> stripping device visualization <u>Letzner-Patent</u></p>
<p><b>Linde</b> Lwow (Lizenz Behring) UK-Ukraine</p>		<p><b>USP 23 RO-RO 900 l/h</b> <b>3 effect still 300 l/h</b> <b>pure steam generator 100 kg/h</b> PW/WFI-tank, PW/WFI loop visualization, ozone, UV DQ / IQ / OQ / PQ / SOPs CO<sub>2</sub> stripping device validation <u>Letzner-Patent</u></p>
<p><b>Pasteur Mérieux</b> Sérums et vaccins Marcy l'étoile, France</p>		<p><b>CIP/SIP system</b></p>
<p><b>Behringwerke</b> D-Marburg</p>		<p>DTS-heat exchanger</p>
<p><b>Pasteur Mérieux</b> Sérums et vaccins Marcy l'étoile, France</p>		<p><b>Pure steam generator 1.000 kg/h</b> heated by superheated water</p>
<p><b>Beiersdorf-Lilly GmbH</b> D-Hamburg</p>		<p><b>USP-PW-RO-RO 150 l/h</b> no softener visualization <u>Letzner-Patent</u></p>
<p><b>Pharma Dessau GmbH</b> D-Dessau</p>		<p><b>USP-PW-RO-RO 1.700 l/h</b> <b>4 effect still 600 l/h</b> <b>pure steam generator</b> no softener CO<sub>2</sub> stripping device visualization <u>Letzner-Patent</u></p>

<p><b>R.P. Scherer GmbH</b> D-Stehla</p>		<p><b>USP-PW 300 l/h</b> no softener tank, loop, DTS-heat exchanger mass flow controller visualization <u>Letzner-Patent</u></p>
<p><b>Beiersdorf Lechia</b> S.A. Fabryka Kosmetykow Poznan, Poland</p>		<p><b>USP-PW-RO 1.500 l/h</b> no softener tank, DTS-heat exchanger mass flow controller visualization <u>Letzner-Patent</u></p>
<p><b>Schering Plough</b> Dardilly, France</p>		<p>Pasteurization</p>

1996

<p><b>Linde</b> Vitamins, Uman UK-Ukraine</p>		<p><b>USP 23 RO-RO 1.100 l/h</b> no softener loop 150 m, tank, <u>Letzner-Patent</u></p>
<p><b>Linde</b> Insulin Kiewer Fleischkombinat (Lizenz Hoechst) UK-Ukraine</p>		<p><b>USP 23 WFI by RO-RO 4.000 l/h</b> <b>4 effect still 250 l/h</b> <b>pure steam 500 kg/h,</b> no softener tanks CO<sub>2</sub> stripping device visualization, loop 700 m DTS-heat exchanger ozone, UV, TOC-DOC DQ / IQ / OQ / PQ / SOPs <u>Letzner-Patent</u></p>
<p><b>Better Pharma</b> Thailand</p>		<p><b>PW-RO-RO 600 l/h</b> (no softener)</p>
<p><b>Gödecke Parke Davis</b> AG D-Freiburg</p>		<p><b>2 x loop 200 m</b></p>
<p><b>Boehringer</b> <b>Mannheim,</b> Penzberg</p>		<p><b>DTS-heat exchanger for product</b></p>
<p><b>Steigerwald</b> Arzneimittel GmbH D-Darmstadt</p>		<p><b>USP-PW RO-RO 1.500 l/h</b> <b>still 100 l/h,</b> <b>pure steam 100 kg/h</b> no softener tanks, loop 700 m, UV DTS-heat exchanger CO<sub>2</sub> stripping device visualization, <u>Letzner-Patent</u></p>
<p><b>Boehringer Ingelheim</b> KG D-Biberach</p>		<p><b>DTS-heat exchanger for product</b></p>

<b>Schering AG</b> D-Berlin		<b>2.500 m loop,</b> <b>PW,</b> <b>WFI,</b> <b>steam,</b> <b>gas</b> <b>DTS-heat exchanger</b> <b>pure steam generator 400 kg/h</b> PW/WFI-tanks visualization
<b>Schering-Plough,</b> Lyon France		<b>WFI-loop</b> <b>DTS-heat exchanger</b>
<b>Pasteur Mérieux</b> Sérums et vaccins Marcy l'étoile, France		<b>HPW</b> <b>ceramic UF-WFI 3.000 l/h</b> <b>pure steam generator 500 kg/h</b> <b>2.000 m loop for PW,</b> WFI, economizer
<b>Haupt Pharma GmbH</b> D-Wolfrathshausen		<b>4 effect still 500 l/h</b> DTS-heat exchanger visualization
OEM D-Köln		<b>Pre-filtration and</b> <b>pre-treatment for</b> <b>RO 200 m<sup>3</sup>/h</b> <u>Letzner-Patent</u>

1995

<b>Bristol-Myers Squibb</b> GmbH D-Regensburg		<b>USP 23 system</b> RO-RO 4.500 l/h, <b>500 m loop tank,</b> <b>ozone,</b> <b>UV</b> CO <sub>2</sub> stripping device visualization
<b>Helixor Heilmittel</b> GmbH & Co. KG D-Rosenfeld		<b>PW-RO-RO, PW tank, still,</b> <b>WFI-tank,</b> <b>pure steam,</b> <b>loop 200 m,</b> SIP <u>Letzner-Patent</u>
<b>Schneider Weisse</b> D-Kelheim		<b>Redesign</b> <b>RO 35.000 l/h 82 % recovery</b> <b>(no softener)</b>
<b>Boehringer Mannheim</b> GmbH D-Penzberg		<b>Multi-effect still 300 l/h</b> <b>pure steam 300 kg/h</b> <b>2.000 l WFI-tank,</b> <b>loop 700 m</b> 10 x POU-DTS-heat exchanger
Biologische Heilmittel <b>Heel</b> GmbH D-Baden-Baden		<b>HPW</b> <b>USP 23 – WFI by RO-RO 1.100 l/h</b> <b>USP 23 still 150 l/h</b> loop 300 m, PW/WFI-tank POU-DTS-heat exchanger CO <sub>2</sub> stripping device visualization <u>Letzner-Patent</u>
<b>Jelfa SA, Jelenia Gora</b> Poland		<b>pure steam generator 750 kg/h</b> visualization
<b>Schering-Plough,</b> Dardilly France		<b>USP 23 RO-RO 900 l/h</b> loop 700 m, ozone, UV DTS-heat exchanger CO <sub>2</sub> stripping device visualization <u>Letzner-Patent</u>

<p><b>aniMedica West</b> Chemische Produkte GmbH D-Münster</p>		<p><b>USP 23 RO-RO 700 I/h</b> <b>4 effect still 500 I/h</b> <b>pure steam 300 kg/h</b> process steam 500 kg/h PW/WFI-tank, loop 600 m CO<sub>2</sub> stripping device visualization <u>Letzner-Patent</u></p>
<p><b>Ferane, Moskau</b> Russia</p>		<p><b>USP 23 RO-RO 2.000 I/h</b> <b>5 effect still 2.000 I/h</b> <b>pure steam 300 kg/h</b> PW/WFI-tank CO<sub>2</sub> stripping device visualization DTS-heat exchanger, (no softener)</p>



**1994**

<b>Helixor</b> Heilmittel GmbH & Co. KG D-Rosenfeld		Distribution loop
<b>WAKO</b> Chemicals GmbH D-Neuss		<b>EDI</b> <b>PW-RO 1.200 l/h</b> 5.000 l tank, 500 m loop
Schneider Weisse D-Kelheim		<b>Sterile filtration 3 x 50 m<sup>3</sup>/h</b>
Diguna, Bagathi Nairobi, Africa		<b>RO</b> (no softener)
<b>Steigerwald</b> Arzneimittel GmbH D-Darmstadt		WFI-DTS-heat exchanger
Chemica Chemische Produkte D-Sarstedt		<b>RO 3.500 l/h</b> (no softener)
<b>Dr. Babor</b> GmbH & Co. D-Aachen		<b>PW-RO-RO 1000l/h</b> No softener Letzner-Patent hot-tank, cold-tank hot-loop, cold-loop CO <sub>2</sub> stripping device
<b>Agraria</b> Pharma GmbH D-Dresden		<b>PW-RO-RO</b> No softener tank, loop DTS-heat exchanger CO <sub>2</sub> stripping device Letzner-Patent
<b>Meca</b> GmbH & Co. KG Tierarzneimittelwerk D-Goch		<b>PW-RO-RO,</b> No softener PW tank, <b>still,</b> WFI-tank pure steam, loop CO <sub>2</sub> stripping device
<b>Kliniken St. Antonius</b> GmbH D-Wuppertal		<b>PW-RO, loop</b> (no softener)

<p><b>Krankenhaus D-Braunschweig</b></p>		<p><b>PW-RO-RO 1.000 l/h</b> No softener 6.000 l tank and loop CO2 stripping device visualization Letzner-Patent</p>
<p><b>Krankenhaus D-Dresden</b></p>		<p><b>PW-RO-RO</b>, tank Letzner-Patent</p>
<p><b>Impfstoffwerk Dessau-Tornau GmbH D-Tornau</b></p>		<p><b>PW-RO-RO 500 l/h</b>, cold-PW tank still, WFI-tank, 6.000 l hot-PW tank pure steam, loop 700 m CO2 stripping device visualization Letzner Patent</p>

**1991-1993**

<b>Asta Medica</b> D-Dresden		<b>PW-RO-RO 500 I/H</b> and distribution 500 m 1.000 I/h Letzner Patent
<b>WDT eG</b> D-Hannover		<b>PW-RO 500 I/h</b> and distribution
<b>Krankenhaus</b> <b>Winsen</b> an der Luhe		<b>Single effect Still</b> Single stage RO 12 I/h
<b>Serumwerk Bernburg</b> AG D-Bernburg		Mixing vessels 1.500 I Mixing vessel 10.000 I PW-RO 6.000 I/h PW-RO rental-system 3.000 I/h loop 500 m, 10.000 I + 20.000 I tanks
<b>Mediagnost</b> D-Tübingen		PW-RO and distribution (no softener)
<b>Mediagnost</b> D-Tübingen		PW-RO and distribution
<b>Dr. August Wolff</b> D-Bielefeld		Ozonization
<b>Jenapharm</b> D-Erfurt		PW-RO-RO and distribution 200 I/h
<b>Asta Medica</b> D-Radebeuel		<b>PW-RO-RO 1000 I/h</b> and distribution 300 m 1.200 I/h
<b>SmithKline Beecham /</b> <b>SSW</b> D-Dresden		<b>PW-RO-RO</b> <b>1.000 I/h</b>

<b>Verla Pharm</b> D-Tutzing		<b>PW-RO-RO 400 I/h</b> Softener ozone UV
<b>Leyh Pharma GmbH</b> D-Trusetal		<b>PW-RO</b> and distribution no softener
<b>Landeskrankenhaus Bad Ischl</b> A-Bad Ischl		<b>PW-RO 300 I/h</b> no softener
OEM D-Köln		<b>RO 7.000 I/h</b> <b>no softener</b>
OEM D-München		<b>RO 1.000 I/h</b> <b>no softener</b>
<b>Dr Schumacher GmbH</b> D-Melsungen		<b>PW-RO 1.000 I/h</b>
Eckes-Granini GmbH & Co. KG D-Krefeld		Sterile vent 2 x 80 m <sup>3</sup> /h
<b>CPM Contract Pharma</b> GmbH & Co. KGD- Feldkirchen		<b>PW-RO-RO 400 I/h</b> softener and distribution ozone, UV 6.000 I tank