

2011 COMMERCIAL PRICING LIST

(Effective January 2011)

1. Waste Processing System (WPS™) LIST PRICE

a. Base WPS™ Systems – Base system includes standard control and piping manifolds, interconnecting hoses, and process vessels as noted:

i. **25 GPM Waste Processing System (WPS™):** \$ 270,000
Includes four (4) DTS Standard 15ft³ ASME Section VIII, Carbon Steel, Process Vessels

ii. **50 GPM Waste Processing System (WPS™):** \$ 483,000
Includes four (4) DTS Standard 30ft³ ASME Section VIII, Carbon Steel, Process Vessels

iii. **100 GPM Waste Processing System (WPS™):** \$ 650,000
Includes four (4) DTS Standard 50ft³ ASME Section VIII, Carbon Steel, Process Vessels

iv. **Custom Waste Processing System (WPS™):** Custom Quote
Custom Waste Processing Systems (WPS™) ranging in capacities from 5 gpm and larger are available. Custom quotes can be provided on request.

v. **Automated System:**..... Custom Quote
The base Waste Processing Systems (WPS™) is a manually operated system with minimal automation and indication. Custom system quotes having advanced automation and instrumentation packages can be provided on request.

vi. **Custom Integration into Processing Package:** Custom Quote
The Waste Processing Systems (WPS™) can be integrated with other DTS systems to provided expanded operating and processing capabilities. Custom system quotes having advanced integrated automation and instrumentation packages can be provided on request.

b. WPS™ Standard Vessels:

i. **2ft³ Process Vessel (IX):** \$ 1,300
ASME Section X, 150 psig/120°F, FRP, Process Vessel w/ Bottom Sluice Leg, ¾" NPS Connections

ii. **15ft³ Process Vessel (IX):** \$ 25,900

30ft³ Process Vessel (IX): \$ 35,000

50ft³ Process Vessel (IX): \$ 43,700

ASME Section VIII, 150 psig/150°F, Carbon Steel, Process Vessels w/ Corrosion Resistant Liner, Removable Core Assembly, Bottom Sluice Leg, 1½" NPS Connections

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b. <u>WPS™ Standard Vessels:</u> (continued)	<u>LIST PRICE</u>
iii. 15ft³ Pre-Conditioning Filter (PCF):	\$ 25,900
30ft³ Pre-Conditioning Filter (PCF):	\$ 38,000
50ft³ Pre-Conditioning Filter (PCF):	\$ 45,250
ASME Section VIII, 150 psig/150°F, Carbon Steel, Process Vessels w/ Corrosion Resistant Liner, Removable Core Assembly, Top & Bottom Sluice Leg, 1½" NPS Connections	
iv. Custom Size, Ratings, and Nozzle Arrangement:	\$ Custom Quote
Custom sizes, ratings, and nozzle arrangements of ASME Section VIII Process Vessels are available can be provided upon request	
v. Custom Materials:	\$ Custom Quote
Process Vessels and integral piping can be manufactured using a vast variety of materials as permitted by ASME Section II. Custom materials can be provided upon request	
c. <u>WPS™ System Components:</u> (Stainless Steel construction unless noted otherwise)	
i. Influent Manifolds (IM):	
1. 1-1/2" NPS (5 to 50 gpm)	\$ 3,870
2. 2" NPS (50 to 125 gpm).....	\$ 4,555
(ASME B31.1/B31.3)	
ii. Effluent Manifolds (CM):	
1. 1-1/2" NPS (5 to 50 gpm)	\$ 3,970
2. 2" NPS (50 to 125 gpm).....	\$ 4,645
(ASME B31.1/B31.3)	
iii. Control Manifolds (CM):	
1. 1-1/2" NPS (5 to 50 gpm)	\$ 2,865
2. 2" NPS (50 to 125 gpm).....	\$ 3,590
(ASME B31.1/B31.3)	
iv. Sample Sinks (SS):	
1. 8 Valve.....	\$ 8,650
2. 12 Valve.....	\$ 9,810
(ASME B31.1/B31.3)	
v. Sluice Manifold w/ Sight Glass (SM):	\$ 2,050
(ASME B31.1/B31.3)	

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c. <u>WPS™ System Components:</u> (continued)	<u>LIST PRICE</u>
vi. Utility Air / Water Manifolds (UM): (ASME B31.1/B31.3)	\$ 1,990
vii. Sluice Valves:	\$ 880 (ASME B31.1/B31.3)
viii. WPS™ Feed Pump w/ Controls & Manifolds (25 gpm):	\$ 7,510 (ASME B31.1/B31.3)
ix. WPS™ Feed Pump w/ Controls & Manifolds (50 gpm):	\$ 10,150 (ASME B31.1/B31.3)
x. WPS™ Feed Pump w/ Controls & Manifolds (100 gpm):	\$ 13,720 (ASME B31.1/B31.3)
xi. Chemical Injection Spool-Pieces:	\$ 3,725 (ASME B31.1/B31.3)
xii. Standard Chemical Injection Systems w/ Controls (0-10 gph): .	\$ 19,135 (ASME B31.1/B31.3)
xiii. Standard 6 X 30 Bag Filter Housings w/ Valves (0-25 gpm):	\$ 5,960
(Optional) 2" Lead Shield SS Clad:	\$13,095
(Optional) 2" Steel Shield:	\$5,775 (ASME B31.1/B31.3)
xiv. Standard 8 X 30 Bag Filter Housings w/ Valves (0-50 gpm):	\$ 8,505
(Optional) 2" Lead Shield SS Clad:	\$15,315
(Optional) 2" Steel Shield:	\$7,425 (ASME B31.1/B31.3)
xv. Standard 8 X 30 Bag Filter Housings w/ Valves (0-100 gpm):	\$ 15,950
(Optional) 2" Lead Shield SS Clad:	\$15,315
(Optional) 2" Steel Shield:	\$7,275 (ASME B31.1/B31.3)
xvi. Standard 6 X 30 Cartridge Filter Housings w/ Valves (0-50 gpm):	\$15,125
(Optional) 2" Lead Shield SS Clad:	\$ 15,415
(Optional) 2" Steel Shield:	\$7,275 (ASME B31.1/B31.3)
xvii. Custom Manifold and Component quotes are available upon request.	

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d. WPS™ Shielding Packages: LIST PRICE

- i. Custom shielding packages are available in a variety of materials including: SS Clad Lead, Steel, Concrete, Water, etc. Custom shielding arrangement quotes are available upon request.
- ii. Custom shielding R-Hut packages are also available upon request for special quotes.

e. WPS™ Consumables:

- i. **Activated Carbon Filtration Media:**
 - 1. DT-10F (Fine Mesh) \$ 150/cf
 - 2. DT-10M (Medium Mesh)..... \$ 150/cf
 - 3. DT-10C (Coarse Mesh) \$ 150/cf
 - 4. DT-90 (Cobalt Selective) \$ 1,075/cf
- ii. **DT-20 (Cation):**..... \$ 120/cf
- iii. **DT-60 (Anion):**..... \$ 190/cf
- iv. **DT-20/60 (Mixed Bed):** \$ 190/cf
- v. **DT-30 (Cesium Select):** \$ 2,000/cf
- vi. **DT-30A (Ammonia Selective):** \$ 1,000/cf
- vii. **DT-47 (Antimony Selective):**..... \$ 2,000/cf
- viii. **Bag Filters (8x30):**
 - 1. 1-Micron..... \$ 27/ea
 - 2. 5-Micron..... \$ 17/ea
 - 3. 10-Micron..... \$ 17/ea
 - 4. 25-Micron..... \$ 17/ea
- ix. **Cartridge Filters (6x30):**
 - 1. 0.1-Micron Absolute..... \$ 2,100/ea
 - 2. 0.2-Micron Absolute..... \$ 1,875/ea
 - 3. 0.3-Micron Nominal \$ 1,650/ea
 - 4. >1-Micron..... \$ 1,350/ea
- x. Other specialty media, including nuclear grade media, quotes are available upon request.

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2. Candle Filter Systems (CFS™) LIST PRICE

a. Base CFS™ Systems – Base system includes a manually operated, standard piping and control system, feed pump and process Candle Filter vessels as noted:

- i. **25 GPM Candle Filter System (CFS™):** \$ 360,300
Includes one (1) DTS Standard ASME Section VIII, Stainless Steel, 30FMF-30-20MR Candle Filter
- ii. **50 GPM Candle Filter System (CFS™):** \$ 530,280
Includes two (2) DTS Standard ASME Section VIII, Stainless Steel, 30FMF-30-20MR Candle Filters
- iii. **100 GPM Candle Filter System (CFS™):** \$ 787,250
Includes four (4) DTS Standard ASME Section VIII, Stainless Steel, 30FMF-30-20MR Candle Filters
- iv. **Custom Candle Filter System (CFS™):** Custom Quote
Custom Candle Filter Systems (CFS™) ranging in capacities from 5 gpm and larger are available. Customs quotes can be provided on request.
- v. **Automated System:**..... Custom Quote
The base Candle Filter Systems (CFS™) is a manually operated system with minimal automation and indication. Custom system quotes having advanced automation and instrumentation packages can be provided on request.
- vi. **Custom Integration into Processing Package:** Custom Quote
The Candle Filter Systems (CFS™) can be integrated with other DTS systems to provided expanded operating and processing capabilities. Custom system quotes having advanced integrated automation and instrumentation packages can be provided on request.

b. CFS™ Candle Filter Units:

- i. **Standard 25 gpm Candle Filter Unit:** \$ 53,000
ASME Section VIII, 150 psig/150°F, FRP, Process Vessel w/ 50-Micron filtration rating, 1½” NPS Connections

c. CFS™ Consumables:

- i. A variety of pre-coats and special filter treatments are available and quoted independently based on processing requirements.

3. Tubular Ultra-Filter Systems (TUF™) LIST PRICE

a. **Base TUF™ Systems** – Base systems include a standard stainless steel piping package and a basic automated control system, w/ feed tank, feed and permeate pumps, and TUF™ Modules as noted:

i. **25 GPM Tubular Ultra-Filter System (TUF™):** \$ 675,000

Includes ten to fourteen (10 - 14) TUF™ UF Modules.
Membranes are specific to each process.

ii. **50 GPM Tubular Ultra-Filter System (TUF™):** \$ 974,000

Includes twenty to twenty-eight (20 to 28) TUF™ UF Modules. Membranes are specific to each process.

iii. **100 GPM Tubular Ultra-Filter System (TUF™):** \$ 1,886,000

Includes thirty-eight to forty-two (38 to 42) TUF™ UF Modules. Membranes are specific to each process.

iv. **Custom Tubular Ultra-Filter System (TUF™):** Custom Quote

Custom Tubular Ultra-Filter Systems (TUF™) ranging in capacities from 5 gpm and larger are available. Customs quotes can be provided on request.

v. **Ozone Pretreatment System (OS):** Custom Quote

The base Tubular Ultra-Filter System (TUF™) does not include an Ozone Treatment system for organic fouling control. Custom OS system quotes can be provided on request.

vi. **Clean-In-Place System (CIP):** Custom Quote

The base Tubular Ultra-Filter System (TUF™) does not include a Clean-In-Place (CIP) System for cleaning the TUF Membranes. Custom CIP system quotes can be provided on request.

vii. **Custom Integration into Processing Package:** Custom Quote

The Tubular Ultra-Filter System (TUF™) can be integrated with other DTS systems to provided expanded operating and processing capabilities. Custom system quotes having advanced integrated automation and instrumentation packages can be provided on request.

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b. TUF™ Ultra- Filter Units:

i. TUF™ Housings:

- 1. Standard 10' \$ 2,436/ea
- 2. Standard 12' \$ 2,700/ea
- 3. High Pressure (Sch40) 10' \$ 3,610/ea
- 4. High Pressure (Sch40) 12' \$ 3,947/ea

ii. TUF™ U-Bends (1 per Housing): \$ 645/ea

iii. TUF™ High Pressure Clamps (2 per Housing): \$ 75/ea

iv. TUF™ Locking Pins (6 per Housing): \$ 5.50/ea

c. TUF™ Consumables:

i. TUF™ Membranes:

- 1. Low Density 10'(200 M.W.) \$ 1,450/ea
- 2. High Density 10'(200 M.W.)..... \$ 2,226/ea
- 3. Low Density 12' (200 M.W.) \$ 1,627/ea
- 4. High Density 12' (200 M.W.)..... \$ 2,670/ea
- 5. Low Density 10' (XP201 High Flow) \$ 1,620/ea
- 6. High Density 10' (XP201 High Flow) \$ 2,432/ea
- 7. Low Density 12' (XP201 High Flow) \$ 2,846/ea
- 8. High Density 12' (XP201 High Flow) \$ 2,818/ea

ii. TUF™ End Seals (2 per Housing): \$ 8.25/ea

iii. TUF™ Backing O-Rings (2 per Housing): \$ 2.50/ea

d. TUF™ Spare Parts:

- i. Spare Part packages for the TUF™ System is available at the discretion of the end user. Customized packages are available for quote upon request.

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4. Reverse Osmosis (RO) Systems

LIST PRICE

a. **Base RO Systems** – Base systems include a standard stainless steel piping package and a basic automated control system, w/ feed pump, and SRO Modules as noted:

- i. **25 GPM Radwaste RO System (RWRO):** \$ 450,000
Specialized Low Pressure (300 psig) RO System that uses a proprietary membrane package and is designed to operate in conjunction with the DTS TUF™ & WPS™ Systems.
- ii. **50 GPM Radwaste RO System (RWRO):** \$ 770,000
Specialized Low Pressure (300 psig) RO System that uses a proprietary membrane package and is designed to operate in conjunction with the DTS TUF™ & WPS™ Systems.
- iii. **100 GPM Radwaste RO System (RWRO):**..... \$ 1,492,000
Specialized Low Pressure (300 psig) RO System that uses a proprietary membrane package and is designed to operate in conjunction with the DTS TUF™ & WPS™ Systems.
- iv. **25 GPM Spiral Reverse Osmosis (SRO) System:** \$ 566,000
High Quality Commercial Medium Pressure (600 psig) RO System that typically includes three to five (3-5) SRO Modules (typically 8" x 3 Long) – Accepts commercial and/or proprietary membranes; each are selected specific to the individual process.
- v. **50 GPM Spiral Reverse Osmosis (SRO) System:** \$ 645,000
High Quality Commercial Medium Pressure (600 psig) RO System that typically includes five to ten (5-10) SRO Modules (typically 8" x 3 Long) – Accepts commercial and/or proprietary membranes; each are selected specific to the individual process.
- vi. **100 GPM Spiral Reverse Osmosis (SRO) System:** \$ 1,214,000
High Quality Commercial Medium Pressure (600 psig) RO System that typically includes ten to fifteen (10-15) SRO Modules (typically 8" x 3 Long) – Accepts commercial and/or proprietary membranes; each are selected specific to the individual process.
- vii. **25 GPM Seawater Reverse Osmosis (SWRO) System:** ... \$ 675,000
High Quality Commercial High Pressure RO System that typically includes three to five (3-5) 1000 psig SRO Modules (typically 8" x 3 Long) – Accepts commercial and/or proprietary membranes; each are selected specific to the individual process.

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a. Base RO Systems LIST PRICE

viii. Custom Reverse Osmosis (RO) Systems: Custom Quote

Custom Reverse Osmosis (RO) Systems including tubular models ranging in capacities from 5 gpm and larger are available. Custom quotes can be provided on request.

ix. Clean-In-Place System (CIP): Custom Quote

The base Reverse Osmosis (RO) System does not include a Clean-In-Place (CIP) System for cleaning the RO Membranes. Custom CIP system quotes can be provided on request.

x. Custom Integration into Processing Package: Custom Quote

The Reverse Osmosis (RO) System can be integrated with other DTS systems to provide expanded operating and processing capabilities. Custom system quotes having advanced integrated automation and instrumentation packages can be provided on request.

b. RO Units:

i. RO Housings:

1. 300/600 psig – Standard, 304LSS, 8” x 3 Long, 180° Ports..... \$ 3,415/ea
2. 300/600 psig – Standard, 304LSS, 8” x 3 Long, 90° Ports..... \$ 3,745/ea
3. 300/600 psig – Custom, 304LSS, 4” x 3 Long, 180° Ports \$ 1,812/ea
4. 300/600 psig – Custom, 304LSS, 4” x 3 Long, 90° Ports \$ 2,100/ea
5. 1000 psig – Standard, FRP, 8” x 3 Long, 180° Ports \$ 4,312/ea
6. 1000 psig – Standard, FRP, 8” x 3 Long, 90° Ports \$ 4,455/ea
7. Other housing sizes and arrangements are available. Custom quotes are available upon request.

ii. RO Housing Closure Kits (300/600 psig) (1 per Housing): \$ 970/ea

iii. RO Housing Closure Kits (1000 psig) (1 per Housing): \$ 1290/ea

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- | <u>c. RO Unit Options:</u> | <u>LIST PRICE</u> |
|--|--------------------------|
| i. Pre-Filter 6 X 30 Cartridge Filter Housing (0-50 gpm): | \$15,125 |
| (Optional) 2" Lead Shield SS Clad: | \$15,315 |
| (Optional) 2" Steel Shield: | \$7,275 |
| (ASME B31.1/B31.3) | |
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 | |
| <u>d. RO Consumables:</u> | |
| i. RO Membranes: | |
| 1. Standard RWRO 8" Membranes | \$ 1,470/ea |
| 2. Standard RWRO 4" Membranes | \$ 1,035/ea |
| 3. Standard SRO 8" Membranes | \$ 1,716/ea |
| 4. Standard SRO 4" Membranes | \$ 1,390/ea |
| 5. Standard SWRO 8" Membranes..... | \$ 1,771/ea |
| 6. Standard SWRO 4" Membranes..... | \$ 1,550/ea |
| 7. Other specialized membranes are available. Custom quotes are available upon request | |
| ii. RO Misc.: | |
| 1. RWRO/SRO 8" Housing End Seals (2 per Housing): | \$ 26/ea |
| 2. RWRO/SRO 8" Membrane Interconnects (1 per Membrane):..... | \$ 32/ea |
| 3. RWRO/SRO 4" Housing End Seals (2 per Housing): | \$ 22/ea |
| 4. RWRO/SRO 4" Membrane Interconnects (1 per Membrane):..... | \$ 27/ea |
| 5. SWRO 8" Housing End Seals (2 per Housing): | \$ 26/ea |
| 6. SWRO 8" Membrane Interconnects (1 per Membrane):..... | \$ 34/ea |
| 7. SWRO 4" Housing End Seals (2 per Housing): | \$ 22/ea |
| 8. SWRO 4" Membrane Interconnects (1 per Membrane):..... | \$ 29/ea |
| iii. Cartridge Filters (6x30): | |
| 1. 0.1-Micron Absolute | \$ 2,100/ea |
| 2. 0.2-Micron Absolute | \$ 1,875/ea |
| 3. 0.3-Micron Nominal | \$ 1,650/ea |
| 4. >1-Micron..... | \$ 1,350/ea |
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| <u>e. RO Spare Parts:</u> | |
| i. Spare Part packages for the RO Systems are available at the discretion of the end user. Customized packages are available for quote upon request. | |

5. Zero Environmental Release Option (ZERO™) BUDGET PRICE

a. ZERO™ Systems are custom design systems aimed at eliminating customer radiological liquid releases. As such these systems are designed, engineered, and constructed to the specific needs of the customer. The ZERO™ System employs and integrates other DTS technologies and systems such as the TUF™, RO, WPS™, etc. to accomplish this goal. For estimating purposes DTS has provided the following budgetary estimates:

i. **25 GPM – ZERO™ System:**..... \$ 2.7 M – 3.6 M

This estimate only includes the Liquid Radwaste Processes Systems (LRS). Concentrate Treatment Systems (CTS) options are listed below.

ii. **50 GPM – ZERO™ System:**..... \$ 3.8 M – 4.3 M

This estimate only includes the Liquid Radwaste Processes Systems (LRS). Concentrate Treatment Systems (CTS) options are listed below.

iii. **100 GPM – ZERO™ System:**..... \$ 5.4 M – 6.0 M

This estimate only includes the Liquid Radwaste Processes Systems (LRS). Concentrate Treatment Systems (CTS) options are listed below.

iv. **Concentrate Treatment Systems:**

1. DrumDryer (DD™) System:..... appox. \$ 320,000/Unit

Each DrumDryer Unit is capable of processing 50 to 55 gallons per day. Typically 2 DD™ Units are required for every 25 gpm LRS unit. Additionally, a small SWRO Unit can provide additional concentrate processing capacity.

2. Concentrate Drying System (CDS):..... \$ 2.7M – 4.3 M

The Concentrate Drying System employs a Rotary Vacuum Dryer having an evaporation rate of 200 to 450 gallons per day. Using a CDS system in lieu of a DD™ System eliminates the needs for a SWRO Unit can normally provide adequate processing capacity for all ZERO™ options.

6. Ozone Generator Systems (Ozonator™) LIST PRICE

a. Base Ozonator™ Systems – Base units are typically used with the TUF™ Systems and are design for turn-key system integration.

i. **Ozonator™ System – 25 GPM TUF™ System:**..... \$ 79,500

This estimate only includes the Liquid Radwaste Processes Systems (LRS). Concentrate Treatment Systems (CTS) options are listed below.

ii. **Ozonator™ System – 50 GPM TUF™ System:**..... \$ 102,600

This estimate only includes the Liquid Radwaste Processes Systems (LRS). Concentrate Treatment Systems (CTS) options are listed below.

iii. **Ozonator™ System – 100 GPM TUF™ System:**..... \$ 124,000

This estimate only includes the Liquid Radwaste Processes Systems (LRS). Concentrate Treatment Systems (CTS) options are listed below.

iv. Custom Ozone Generating System (OS), including mixing and contact vessels (ASME Section VIII) ranging in capacities from 5 gpm and larger are available. Customs quotes can be provided on request.

b. Ozonator™ Unit Options:

i. **Ozone Destruct Module (ODM-10):** \$9,275

ODM-10 modules connect to the 25 gpm - TUF™ Feed Tank to eliminate Ozone Gas from the tanks off-gas stream.

ii. **Ozone Destruct Module (ODM-25):** \$12,130

ODM-25 modules connect to the 50 gpm - TUF™ Feed Tank to eliminate Ozone Gas from the tanks off-gas stream.

iii. **Ozone Destruct Module (ODM-50):** \$14,850

ODM-50 modules connect to the 100 gpm - TUF™ Feed Tank to eliminate Ozone Gas from the tanks off-gas stream.

c. Ozonator™ / ODM Consumables:

i. **ODM O3 Catalyst:** \$ 230/cf

d. Ozonator™ / ODM Spare Parts:

i. Spare Part packages for the Ozonator and ODM Systems are available at the discretion of the end user. Customized packages are available for quote upon request.



**Systems &
Services
For Waste
Mangement**

Diversified Technology Services, Inc.

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**7. Fill-Head, Dewatering, & High Velocity
Vacuuming (HVV) Systems** **LIST PRICE**

a. Base Fill-Head, Dewatering, & HVV Systems – Base units are typically design for turn-key installation.

- i. **Standard DTS Fill-Head System:** \$ 80,000
Standard DTS Fill-Head with Control Panel.
- ii. **Standard DTS Manual Dewatering System:** \$ 81,500
Standard DTS Manual Dewatering System provided for gross dewatering purposes only.
- iii. **Standard DTS Automated Dewatering & HVV System:**... \$ 126,500
Standard DTS automated Dewatering and HVV System provided for dewatering to applicable shipping limits.
- iv. Custom Fill-Heads, Dewatering, and Vacuum System are available in a variety of sizes and options. Customs quotes can be provided on request.

b. Fill-Head, Dewatering, & HVV System Unit Options:

- i. **In-line Isolok Sampler w/ Spool-piece & Transition Fittings:** \$ 16,000
Isolok Sampler Remote Operating Module (ROM):..... \$ 1,100
- ii. **Additional Fill-Heads:**..... \$62,900
- iii. **Additional Dewatering Pumps:** \$4,675
Standard pump is Aluminum with EPR Elastomer.
- iv. **Stainless Steel Dewatering Pumps:**..... \$7,240
Pump is 316SS with EPR Elastomer.

c. Fill-Head, Dewatering, & HVV System Spare Parts:

- i. Spare Part packages for the Fill-Head, Dewatering, and HVV Systems are available at the discretion of the end user. Customized packages are available for quote upon request.



**Systems &
Services
For Waste
Management**

Diversified Technology Services, Inc.

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8. Polymer Stabilization & Solidification

a. **Polymer Solidifications** – Polymer Solidifications are quoted only on an individual basis due to the complexity of the process.

b. **List of Polymer Solidification Agents / Systems Offered:**

- i. Vinyl Ester Resin In Situ (VERI™) – NRC Approved
- ii. Vinyl Ester Styrene (VES) – NRC Approved
- iii. Advanced Polymer Solidification (APS)
- iv. Acrylic Polymer
- v. Mix Tanks and Distribution Systems



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9. DrumDryer (DD™) Systems

LIST PRICE

- a. Base DrumDryer (DD™) Systems** – Base units are typically design for turn-key installation.
- i. **Standard DTS Single Head DD™ System:** \$ 320,000
Standard DTS Single Drum-Head DD™ System with Control Panel. Capacity is approximately 2 to 2.5 gph.
 - ii. **Standard DTS Dual Head DD™ System:** \$ 465,000
Standard DTS Dual Drum-Head DD™ System with Control Panel. Capacity is approximately 4 to 5 gph.
 - iii. **Standard DTS Quad Head DD™ System:** \$ 786,000
Standard DTS Quad Drum-Head DD™ System with Control Panel. Capacity is approximately 8 to 10 gph.
 - iv. **Custom DD™ Systems:** Custom Quote
Custom DrumDryer™ Systems are available in a variety of voltages, sizes and options. Customs quotes can be provided on request.
 - v. **Custom Integration into Processing Package:** Custom Quote
DrumDryer™ Systems can be integrated with other DTS systems (such as: ZERO™ Systems) to provided expanded operating and processing capabilities. Custom system quotes having advanced integrated automation and instrumentation packages can be provided on request.
- b. DrumDryer (DD™) System Options:**
- i. **Water Cooled Condenser:** \$18,500
Standard Condenser is Air-Cooled.
 - ii. **DrumDryer Feed Tanks:** \$Custom Quote
Tanks are normally 316/316LSS or Polypropylene and are equipped with all required level controls.
- c. DrumDryer (DD™) System Spare Parts:**
- i. Spare Part packages for the DrumDryer™ (DD™) System are available at the discretion of the end user. Customized packages are available for quote upon request.

10. Boric Acid Recovery Systems (BARS)

LIST PRICE

a. **Base BARS Systems** – Base systems include a standard stainless steel piping package and a basic automated control system, w/ feed pump, and RO Modules as noted:

i. **30 GPM - Boric Acid Recovery System (BARS):** \$ 461,000

Specialized RO System that uses a proprietary membrane package to remove silica from reactor make-up water.

ii. **50 GPM - Boric Acid Recovery System (BARS):** \$ 735,750

Specialized RO System that uses a proprietary membrane package to remove silica from plant reactor make-up water.

iii. **Custom - Boric Acid Recovery System (BARS):** Custom Quote

Custom Boric Acid Recovery Systems (BARS) ranging in capacities from 5 gpm and larger are available. Custom quotes can be provided on request.

iv. **Custom Integration into Processing Package:** Custom Quote

Boric Acid Recovery Systems (BARS) can be integrated with other DTS systems to provide expanded operating and processing capabilities. Custom system quotes having advanced integrated automation and instrumentation packages can be provided on request.

b. BARS Units:

i. BARS Housings:

1. Standard, 304LSS, 8" x 3 Long, 180° Ports \$ 3,415/ea

2. Standard, 304LSS, 8" x 3 Long, 90° Ports \$ 3,745/ea

3. Custom, 304LSS, 4" x 3 Long, 180° Ports..... \$ 1,812/ea

4. Custom, 304LSS, 4" x 3 Long, 90° Ports..... \$ 2,100/ea

5. Other housing sizes and arrangements are available. Custom quotes are available upon request.

ii. **BARS Housing Closure Kits (1 per Housing):** \$ 970/ea

c. BARS Unit Options:

i. **Pre-Filter 6 X 30 Cartridge Filter Housing (0-50 gpm):**..... \$15,125

(Optional) 2" Lead Shield SS Clad: \$15,315

(Optional) 2" Steel Shield: \$7,275

(ASME B31.1/B31.3)

c. <u>RO Unit Options:</u> (Continued)	<u>LIST PRICE</u>
i. Standard Storage Sealand (20 ft):	\$17,000
(Optional) Heat Pump & A/C Unit:.....	\$9,400
ii. Boric Acid Replenishment System (BART):	\$45,690
Heated Mix Tank and Pump for replenishing the small amount Boric Acid removed during the BARS process.	
d. <u>BARS Consumables:</u>	
i. BARS Membranes:	
1. Standard BARS 8" Membranes	\$ 1,716/ea
2. Standard BARS 4" Membranes	\$ 1,390/ea
ii. RO Misc.:	
1. BARS 8" Housing End Seals (2 per Housing):	\$ 26/ea
2. BARS 8" Membrane Interconnects (1 per Membrane):	\$ 32/ea
3. BARS 4" Housing End Seals (2 per Housing):	\$ 22/ea
4. BARS 4" Membrane Interconnects (1 per Membrane):	\$ 27/ea
iii. Cartridge Filters (6x30):	
1. 0.1-Micron Absolute.....	\$ 2,100/ea
2. 0.2-Micron Absolute.....	\$ 1,875/ea
3. 0.3-Micron Nominal	\$ 1,650/ea
4. >1-Micron.....	\$ 1,350/ea
e. <u>BARS Spare Parts:</u>	
i. Spare Part packages for the Boric Acid Recovery System (BARS) are available at the discretion of the end user. Customized packages are available for quote upon request.	

11. Underwater Filter (UF) / Underwater Demineralizers (UD) LIST PRICE

a. **Base UF & UD Units** – Units are quoted on an individual basis due to variations in set-up.

b. **List of Standard Units / Systems Offered:**

i. **Underwater Filter Models:**

Units are typically supplied with pump, filter, motor controls, flow indicator, and other processing accessories.

1. **Underwater Filter / Vacuum Model UFV-100 (100gpm).**
2. **Underwater Filter / Vacuum & Strainer Model UFVS-100 (100gpm).**
3. **Underwater Filter / Vacuum Model UFV-260 (260 gpm).**
4. **Underwater Filter / Vacuum & Strainer Model UFV-2S-260 (260 gpm).**
5. **Underwater Filter UF-260 (260 gpm).**
6. **Underwater Filter / Vacuum Model UFV-600 (600 gpm).**
7. **Underwater Filter / Vacuum Model UFV-1000 (1000 gpm).**
8. Custom Underwater Filter (UF) units are available upon request.

ii. **Underwater Demineralizers Models:**

Units are typically supplied with pump, filter, motor controls, flow indicator, and other processing accessories.

1. **Underwater Demineralizer Model UD-30 (40gpm/10cf).**
2. **Underwater Demineralizer Model UD-36 (75gpm/30cf).**
3. **Underwater Demineralizer Model UD-48 (200gpm/40cf).**
4. **Underwater Demineralizer / Filter Model UFSD-49 (200gpm/40cf).**
5. Custom Underwater Demineralizers, including ASME Section VIII models, are available upon request.