

t-graphic

engineering in solutions

FORM: RFPTG20_B

T-Graphic LLC

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Name of company or contact:

Phone:

Fax:

Email:

For assistance:

phone: 720.981.1622

email: sales@t-graphic.com

**Please fax all pages of completed form to:
720.981.8035
Attn: Sales department**

**T-Graphic LLC is a licensed Value Added Reseller of DFS' Technologies
and Intensified Industries Products**

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REQUEST FOR PROPOSAL

To assist us in the design and pricing of your request, we require the following answered as completely as possible.

General Information

Are you requesting:

Complete process Reactor Services (Engineering & Design) Other:

Process configuration section

Give a brief description of the process required:

What is the finished product:

Do you require rapid changeover of products on the same line? yes no

What is the production rate required? _____ /hr. , _____ /day

How many days per week in operation?

How many hours per day?

REACTOR related questions:

What fluid(s) will be used?

What is the range of pH required (-1 to 14)

What is the ORP range required (-900 to +1200)

What Conductivity (0 to 15%)

Instantaneous volume required: _____ gal/min. _____ l/min.

What will be the operational cycle time: _____ hours.

Will effluent be consumed by human or animals? yes no

Will you require doping with trace amounts of minerals, vitamins, natural flavors, and etc. if yes explain:

Machine configuration section

Which options would you like us to quote? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> FDA approved Materials | <input type="checkbox"/> Programmable Logic Controller (PLC) |
| <input type="checkbox"/> Digital readout | <input type="checkbox"/> Acid compounding system |
| <input type="checkbox"/> Remote diagnostics | <input type="checkbox"/> Integrated process connection |
| <input type="checkbox"/> Black and White LCD touch Screen* | <input type="checkbox"/> Color LCD touch screen* |
| <input type="checkbox"/> Factory Extended Services | |

*choose one of these only if you want a graphical interface for operation

Which sensors will you require? (check all that apply)

- | | |
|---|--|
| <input type="checkbox"/> pH [†] | <input type="checkbox"/> Temperature [†] |
| <input type="checkbox"/> Conductivity | <input type="checkbox"/> Oxidation/Reduction Potential |
| <input type="checkbox"/> Dissolved Oxygen | <input type="checkbox"/> Turbidity |
| <input type="checkbox"/> Tank level detector | <input type="checkbox"/> Suspended solids |
| <input type="checkbox"/> Chlorine | <input type="checkbox"/> Ozone |
| <input type="checkbox"/> Particle counting | <input type="checkbox"/> Flow rates |
| <input type="checkbox"/> Sensor on a chip (requires PLC option) | |

[†]Indicates standard equipment included with all models

Please describe your facilities: (check all that apply)

Power:

- | | | | |
|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> 110v~ | <input type="checkbox"/> 220v~ | <input type="checkbox"/> 230v 3ph | <input type="checkbox"/> 250v 3ph |
| <input type="checkbox"/> 380v 3ph | <input type="checkbox"/> 440v 3ph | <input type="checkbox"/> 480v 3ph | |

Water:

- | | | | | | |
|------------------------------|-----------------------------|----------------------------------|-------------------------------------|-------------------------------|---------------------------------|
| <input type="checkbox"/> Tap | <input type="checkbox"/> DI | <input type="checkbox"/> Treated | <input type="checkbox"/> Salt water | <input type="checkbox"/> R.O. | <input type="checkbox"/> Other: |
|------------------------------|-----------------------------|----------------------------------|-------------------------------------|-------------------------------|---------------------------------|

Building ambient temperature: _____°C or _____°F

Available space: _____ square feet.

Height of ceiling: _____ feet or _____ meters

Noise restrictions: _____ OSHA _____ EPA

Standard models available: M Series, F Series, D Series, TR_x™ Series

Services

T-Graphic LLC can provide you with extended industrial services. Should you have any interest in these services, please check the ones requested below.

- Are you interested in continuously driving key factors of the product to tolerance with an industrial computer called a PLC?
- Are you interested in active monitoring and alarming systems if the process is unable to operate in tolerance?
- Are you interested in an automated factory environment where a computer called a PLC would control all aspects of the processes?
- Are you interested in being able to control all the operations in the factory from one desktop computer program that takes 'point and click' commands.
- Are you interested in collecting data from the process in an FDA compliant database that is compatible with the Microsoft Office or Star Office environment?
- Are you interested in an online product testing system that will prevent inferior product from being passed to packaging?
- Are you interested in an arrangement where some machines can be taken offline for maintenance while other are still operating?
- Other (e.g. project management, Statistical data analysis, design and drafting)
Describe:

Extended options section

Our machines are built with process intensification methods. Below is a list of Process Intensification (PI) options that are available. For a complete understanding of their use in your application, please contact your sales rep. Check model for available options (check all that apply).

Process Intensification (PI):

Utility add-on functions:

- Heating
- Vacuum
- Chiller
- Gas Bleeding

Reactive Benchmarks:

- Plug flow (liquid recycle)
- Autoclave (saturated products)
- CSTR

Reactive PIs:

- Reactive Distillation
- Compact HX
- Spinning Flow injection
- Loop
- Oscillatory flow
- Lab on a chip (requires PLC option)

Purifications:

- Gas/Liquid Separation
- Crystallization
- Filtration (heavy metals, etc)
- Distillation
- Mineral Injection