Technology Leader in Single Use & Liquid Filling

US Manufacturer’s representative for Q-BIOME Single Use BioReactor
Manufacturer of i-FILL® precision single-use filling technology – unmatched repeatable accuracy & no spallation

Q-BIOME®
Single Use
Continuous Use
BioReactor

i-FILL®
ml to L
Large Volume Filling

i-FILL®
Micro
mcl to ml
Small Volume
Dispensing

intelliFILLER™
Liquid
Fill & Finish

i-FILL®
Single-Use
Fluid Path
1,10,100,1000ml

Custom
Single-Use Assemblies
Tubing Sets, Sample Bottles, Manifolds
Leveraging Business & Engineering Experience

With proven experience in the design and integration of precision liquid filling with single-use disposable fluid path, Intellitech’s products are satisfying customers through their ease of use and reliable performance for the biotech, pharmaceutical and specialty chemical industries.

The i-FILL® Micro outperforms a peristaltic pump for repeatable fill accuracy, single use easy-to-install tubing set and no spallation (particulate generation).

Intellitech chosen by Quorus in 2018 to be US representative for the Q-BIOME single-use bioreactor – a perfusion-based technology capable of continuous cultivation of microbial and mammalian adherent and non-adherent cell lines ideally suited for personalized medicine.

The company has a global install base of equipment in the US, Canada and Singapore.
# Innovative Liquid Fill / Finish and Single Use Consumables

## intelliFILLER®
**AFS Inline**

<table>
<thead>
<tr>
<th>Year</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2003</td>
<td>Semi-Automatic FILL/CAP</td>
</tr>
<tr>
<td>2006</td>
<td>Automatic FILL/PNP/CAP</td>
</tr>
<tr>
<td>2008</td>
<td>Data Logging FILL/FINISH</td>
</tr>
<tr>
<td>2009</td>
<td>Disposable Syringe FILL/CAP</td>
</tr>
<tr>
<td>2010</td>
<td>Micro Vial ROBOTIC UNCAP/FILL/CAP</td>
</tr>
<tr>
<td>2014 / 2015</td>
<td>Automatic FILL/PNP/CAP</td>
</tr>
<tr>
<td>2017</td>
<td>30 Head PHARMA FILLER</td>
</tr>
<tr>
<td>2018</td>
<td>Automatic UNCAP/FILL/CAP</td>
</tr>
</tbody>
</table>

## Fill/Finish Technology

<table>
<thead>
<tr>
<th>Year</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>1ml &amp; 10ml i-FILL MICRO KITS</td>
</tr>
<tr>
<td>2013</td>
<td>100ml i-FILL KITS</td>
</tr>
<tr>
<td>2017</td>
<td>1 Liter i-FILL KITS</td>
</tr>
<tr>
<td>2017</td>
<td>ISO 7 CLEAN ROOM ASSEMBLY</td>
</tr>
<tr>
<td>2017</td>
<td>Custom MANIFOLDS and TUBING SETS</td>
</tr>
<tr>
<td>2017</td>
<td>½” CHECK VALVE</td>
</tr>
<tr>
<td>2017</td>
<td>SAMPLING BOTTLES</td>
</tr>
</tbody>
</table>

## Consumables

<table>
<thead>
<tr>
<th>Year</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>i-FILL ml to L</td>
</tr>
<tr>
<td>2013</td>
<td>i-FILL Micro μl to mL</td>
</tr>
<tr>
<td>2017</td>
<td>i-FILL DUAL HEAD mL to Multi Liter</td>
</tr>
<tr>
<td>2017</td>
<td>Automated TRAY FILLING</td>
</tr>
<tr>
<td>2017</td>
<td>Next Generation i-FILL Micro</td>
</tr>
</tbody>
</table>

## i-FILL®
**Lab & Production Pump**

<table>
<thead>
<tr>
<th>Year</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>Control Systems</td>
</tr>
<tr>
<td>2006</td>
<td>TIP INSERT</td>
</tr>
<tr>
<td>2009</td>
<td>ROBOTIC PNP/CAP</td>
</tr>
<tr>
<td>2011</td>
<td>Dual Head STOPPER/CRIMP</td>
</tr>
<tr>
<td>2012</td>
<td>Vial CAP/CRIMP</td>
</tr>
<tr>
<td>2013</td>
<td>Tethered CONTROL</td>
</tr>
<tr>
<td>2014</td>
<td>Roll-Up ROBOTIC SCREW CAP</td>
</tr>
</tbody>
</table>

## i-CAP®
**Closure Systems**

<table>
<thead>
<tr>
<th>Year</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>SCREW/TORQUE</td>
</tr>
<tr>
<td>2008</td>
<td>TIP INSERT</td>
</tr>
<tr>
<td>2009</td>
<td>ROBOTIC PNP/CAP</td>
</tr>
<tr>
<td>2011</td>
<td>Dual Head STOPPER/CRIMP</td>
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<td>2014</td>
<td>Roll-Up ROBOTIC SCREW CAP</td>
</tr>
</tbody>
</table>

## Precision Dispensing

- 2002
- 2006
- 2009
- 2011
- 2017
- 2018

## Closure/Sealing

- 2004
- 2008
- 2009
- 2011
- 2012
- 2013
- 2014
i-FILL® Micro Precision Liquid Fill (mCL to mL)

Outperforms for accuracy and cell transfer

Low to no shear product transfer vs. peristaltic

Disposable fluid path
- Easy to set up
- Simple to operate
- Self priming

Major Features:
- Fluid path kits eliminate cross contamination
- Digitally controlled, servo motor driven
- Controlled dispense for delicate products
- Bench top, semi or fully automatic
Q-BIOME BioProcessing Platform

• Microbial and Mammalian Cell Culture capability in a single flexible bioprocessing unit
• Optimized for continuous culture, designed for adherent cell lines and secreted product libraries
• Multi-platform flexibility to also allow for submerged culture of non-adherent cell lines using Cellon 20L single use CSTR
• Interchangeable single-use bioreactors
• Compact Design / Small Footprint
• Temperature controlled growth chamber supports psychrophilic to mammalian cell culture applications (15-40°C)
• Suited for low-volume, high-value secreted products:
  • Reagents & diagnostics
  • Therapeutics, biologics & vaccines
  • Specialty enzymes
Certified, Controlled Environment Cleanroom Facility - ISO 7 Certified, Classification ISO 14644 - 1:2015, compliant for airflow volume, velocity, characterization and room pressurization. Tested per IEST - RP - CC006.3 Specifications.

Trained Personnel for Clean Room - gowning, entry/exit, line prep/clearance, manufacturing operating procedures, self-inspection, non-conforming identification, disposition and product handling.


Proven Process - Design, Documentation, Controlled Manufacturing Operating Procedures, Assembly Work Instructions, Material Certificate of Compliance, Product Record Retention

ISO 9001 Quality Management System and Qualified Supplier to Top Pharmaceutical Manufacturers

Stocked Components - Include – Largest US Supplier of Oetiker Med/Pharma - Grade Clamps; also in stock Check Valves, Connectors, Gaskets, Seals and Tubing.

Sterilization Services Available – Additional product features available to comply w/GMP and sterility assurance to meet product requirements.

Validation Services Available – Support for seal integrity, sterility assurance and shelf life studies.
Intellitech QMS

ISO 9001
- QMS Scope covers Design, Manufacture, Assemble, Package and Label Single-Use Assemblies
- System integrated with Intellitech’s ERP System

Change Management
- QMS Design Control
- QMS Document Control
- Supplier Change management control

Supplier Qualification

Equipment Qualification

Process Validation
Office/Warehouse Industrial Bldg.
Total Facility Area ~15,500 sqft
Fully climate controlled
Clean Production Area 4,130 ft² w/TerraUniversal softside cleanrooms
1. Gowning Area 6 x 8
2. Assembly/Pkg 12 x 16
3. UltraSonic Welding 8 x 8
4. Filling 8 x 16
Whse/Ship/Rcvng 2,100 ft²
Machining/Whse 5,010 ft²
Office/Conf. Area 3,400 ft²
Two Loading Docks
Two On-Grade Dock doors
Card-Key Access Controlled
Security Cameras

Located off I-275;
30 min. to Tampa International Airport (TPA)
15 min. to St. Petersburg Clearwater Regional Airport (PIE)