Rapid ablation for a clear field of vision - available with AMBIENT° technology
COBLATION™ technology

The term COBLATION means “controlled ablation.” To date, over 12 million procedures have been successfully performed utilizing COBLATION technology to ablate and coagulate tissue.

The COBLATION process involves the creation and application of an energy field called “glow discharge plasma.” This plasma ablates tissue through a chemical process as highly-energized particles in the plasma break down molecules in the tissue. COBLATION technology provides two distinct advantages to the surgeon:

- COBLATION technology operates at lower temperatures than other radio-frequency (RF)-based technologies.
- The 100µm – 200µm plasma field allows for precise removal of soft tissue with minimal damage to untargeted tissue.

COBLATION technology allows for the precise removal of soft tissue with minimal damage to untargeted tissue. The plasma is generated by a process that involves the application of an energy field to the tissue, which breaks down molecules and ablates the tissue.

QUANTUM° 2 system key features

Ambient technology
Ours is the only arthroscopic system that offers real-time temperature monitoring of the intra-articular fluid.

Controller output
Smith and Nephew Controllers use a unique RF output which allows them to deliver the correct amount of power to create plasma. Energy delivery is optimized to provide fast and effective plasma formation while minimizing the dissipation of thermal energy in the joint.

Unique waveform
Smith and Nephew Controllers use a unique waveform that delivers fast ablation speed. The waveform has a sharp leading edge that requires less time to generate plasma and therefore allows more time for active ablation.

Scope safety feature
Smith and Nephew Controllers include proprietary circuits that continuously monitor the energy and automatically suspend the output when there is a spike in current, such as when the Wands are in close proximity to or in contact with metal.
SUPER TURBOVAC® 90 COBLATION® Wands

The SUPER TURBOVAC 90 COBLATION Wand family provides bulk tissue debridement for subacromial decompression, ACL/PCL debridement, synovectomy and bursectomy procedures. The SUPER TURBOVAC 90 COBLATION Wand is available in three varieties.

<table>
<thead>
<tr>
<th>AMBIENT® SUPER TURBOVAC 90</th>
<th>ASHA4250-01</th>
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<tbody>
<tr>
<td>SUPER TURBOVAC 90 with integrated finger switches (IFS)</td>
<td>ASH4250-01</td>
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<tr>
<td>SUPER TURBOVAC 90</td>
<td>ASC4250-01</td>
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**Key features**

- Screen shape and profile provide maximum ablation speed for bulk tissue debridement in the shoulder and knee
- Multiple suction ports for clear field of vision

**32% greater electrode surface**

- Screen shape and profile provide maximum ablation speed for bulk tissue debridement in the shoulder and knee
- Multiple suction ports for clear field of vision

**Rapid ablation**

The SUPER TURBOVAC 90 has 32% greater electrode surface area than our WHIRLWIND. Large electrode permits leading edge ablation for more efficient soft tissue removal. The larger screen maximizes the size of the plasma layer resulting in volumetric removal of targeted tissue.

**Clear field of vision**

Powerful suction combined with rapid ablation draws wispy tissue to the active electrodes preventing clogging and improving visibility.

**Ambient technology**

The AMBIENT SUPER TURBOVAC 90 device provides accurate real time temperature monitoring of the intra-articular fluid.

The temperature of the fluid is continuously displayed on the LCD screen of the Controller. When the temperature within the joint space exceeds the user selected set point, visual and audible alarms will emit from the Controller, providing direct feedback to the surgeon.
Suggested indications

- Subacromial decompression
- ACL/PCL debridement
- Synovectomy
- Bursectomy

Technical specifications

<table>
<thead>
<tr>
<th>COBLATION® Wand</th>
<th>AMBIENT SUPER TURBOVAC 90 IFS</th>
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<tbody>
<tr>
<td>Controller</td>
<td>QUANTUM® 2 SYSTEM ONLY</td>
<td>QUANTUM AND QUANTUM 2 Systems</td>
<td>ATLAS® AND QUANTUM SYSTEMS</td>
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<td>Recommended COBLATION settings</td>
<td>7-9</td>
<td>7-9</td>
<td>7-9</td>
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<tr>
<td>Tip diameter</td>
<td>5.25mm</td>
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<tr>
<td>Shaft diameter</td>
<td>3.75mm</td>
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<td>Temperature accuracy</td>
<td>+/- 3° C</td>
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Please refer to the Instructions for Use (IFU) packaged with the product for a complete list of warnings, precautions and contraindications.

Ordering information

<table>
<thead>
<tr>
<th>AMBIENT SUPER MULTIVAC 50 Family</th>
<th>Reference #</th>
<th>Description</th>
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<tr>
<td>ASHA4250-01</td>
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Order Entry Fax: 1-888-994-2782

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