



Rapid ablation for a clear field of vision -  
available with AMBIENT<sup>◊</sup> technology

 **smith&nephew**  
**SUPER**  
**TURBOVAC<sup>◊</sup> 90**  
COBLATION<sup>◊</sup> Wand Family

# COBLATION<sup>◇</sup> 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.



Plasma field formation



COBLATION plasma technology on soft tissue

## QUANTUM<sup>◇</sup> 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.



COBLATOR II Controller

# SUPER TURBOVAC<sup>◇</sup> 90 COBLATION<sup>◇</sup> Wands

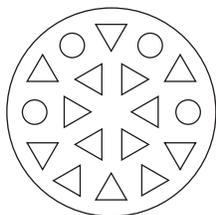
The SUPER TURBOVAC 90 COBLATION Wand family provides bulk tissue debridement for subacromial decompression, ACL/PCL debridement, synovectomy and bursectomy procedures. The SUPER TURBOVAC 90 COBLATION Wand is available in three varieties.

AMBIENT <sup>◇</sup> SUPER TURBOVAC 90	ASHA4250-01
SUPER TURBOVAC 90 with integrated finger switches (IFS)	ASH4250-01
SUPER TURBOVAC 90	ASC4250-01

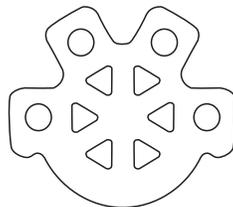
## Key features

- 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



SUPER TURBOVAC 90 screen



WHIRLWIND<sup>◇</sup> screen

## 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

COBLATION® Wand	AMBIENT SUPER TURBOVAC 90 IFS	SUPER TURBOVAC 90 IFS	SUPER TURBOVAC 90
Controller	QUANTUM® 2 SYSTEM ONLY	QUANTUM AND QUANTUM 2 Systems	ATLAS® AND QUANTUM SYSTEMS
Recommended COBLATION settings	7-9	7-9	7-9
Tip diameter	5.25mm	5.25mm	5.25mm
Shaft diameter	3.75mm	3.75mm	3.75mm
Temperature accuracy	+/- 3° C	n/a	n/a

Please refer to the Instructions for Use (IFU) packaged with the product for a complete list of warnings, precautions and contraindications.

## Ordering information

### AMBIENT SUPER MULTIVAC 50 Family

Reference #	Description
ASHA4250-01	AMBIENT SUPER TURBOVAC 90 IFS
ASH4250-01	SUPER TURBOVAC 90 IFS
ASC4250-01	SUPER TURBOVAC 90

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