

### INTEGRATED HANDPIECE

#### TIP:

- Solid one-piece active tip design
- Proprietary active/return distance ratio
- Large uninhibited suction hole
- Atraumatic liquid crystal polymer cowling provides insulation

#### SHAFT:

• High dielectric strength insulation maintains electric activity at tip

#### CABLE:

- Integrated power connection with pliable kink-resistant material
- "Pin Exposed" plug design for ease and security of connection

#### **HANDLE:**

• Indentation indicates active tip orientation

#### INTEGRATED HANDPIECE QUICK REFERENCE GUIDE

225370	4mm	S <sup>90</sup> 90° Suction
227355	3.0mm ***	S <sup>50</sup> Knee Electrode 50° Suction
227312	3.5mm	Flexible Side Effect
227302	3.5mm	Angled Side Effect, 21°
227301	3.5mm	Side Effect
227305	3.5mm	90° Hook
227202	2.3mm	End Effect
227203	2.3mm	Wedge
227213	2.3mm	Wedge Short
227211	2.3mm	Side Effect Short
227252	2.3mm	Temperature Control End Effect

# DePuy Mitzk a Johnson-Johnson company

### GENERATOR ERROR & FAULT SYMBOLS

Most technical problems are indicated by either an ERROR or a FAULT symbol that appears in the Generator display window.

**An ERROR** symbol indicates an accessory malfunction or a Generator component failure that requires servicing of the equipment. These symbols include a code number to be used by DePuy Mitek technical service to diagnose why the system failed.

- An ERROR symbol is displayed as two alternating messages:
- ERROR XXX REF YYY INTERNAL FAILURE

WARNING: An error symbol indicates an equipment malfunction, which may be hazardous. Disconnect all accessories and switch the Generator off. Switch the Generator back on and if the self-test is completed satisfactorily as evidenced by the "CONNECT CABLE" symbol in the display, the failure occurred in the accessories, which should be discarded and replaced. If the self-test fails, then all functions will be inhibited and no attempt should be made to use the Generator. Contact DePuy Mitek customer service for assistance.

## **A FAULT** symbol indicates a transient non-hazardous event and can be corrected by resetting the system.

TROUBLESHOOTING GUIDE

- A FAULT symbol is displayed as two alternating messages:
- FAULT XXX REF YYY
- TEXTUAL MESSAGE where TEXTUAL MESSAGE relates to the type of fault

**NOTE**: Remember to take note of the fault code for reporting to customer service before completing the reset.

CLEANING NOTE: See User Manual for Generator and Footswitch cleaning instructions. All VAPR Electrodes are single-use only.

#### **FAULT** CORRECTIVE ACTION DESCRIPTION SYMBOL REF 100 10 Software failure When a Fault Appears on the Generator 100 Non volatile memory failure 1. Press mode button twice 100 14 Power generation fault on startup 300 10 Internal overheating (refer to troubleshooting guide in user manual) 300 12 Out of specification input voltage: low 300 13 out of specification input voltage: high 2. Depress both footswitches simultaneously 300 14 Accessory fault (refer to trouble shooting guide in user manual) (VAPR II only) and release both 300 16 Temperature control system problem footswitches once (VAPR II only) 300 20 Unsupported electrode (VAPR 3 only) 400 10 Footswitch blue pedal stuck 3. Press the 400 11 Footswitch yellow pedal stuck MENU/RESET button (VAPR 3 only) 400 12 Handswitch input fault if error appears on the 400 Menu/reset button stuck (VAPR 3 only) generator. 400 14 Electrode identification circuit fault a. Turn machine off and restart. b. Disconnect electrode 400 15 Front panel switch fault: yellow up button 400 Front panel switch fault: yellow down button and reconnect. 400 17 Front panel switch fault: blue up button If this does not resolve the 400 18 Front panel switch fault: blue down button problem, contact 400 19 Front panel switch fault: mode button **DePuy Mitek** 400 20 Intermittent activation switch customer service at 400 21 Accessory thermistor fault (open) 1-800-382-4682. 22 Accessory thermistor fault (short) 400 400 23 Accessory fault (invalid electrode configuration)

## SINGLE - USE BIPOLAR RADIOFREOUENCY ELECTRODES





KNEE

SHOULDER

S M A L L J O I N T S



## VAPR ELECTRODES\*



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Subacromial decompression Acromioplasty Bursectomy Synovectomy

Labral tear resection Thermal modification Scar tissue excision Chondroplasty

KNEE

ACL debridement Meniscal cystectomy Plica removal Lateral release Meniscectomy Thermal modification Chondroplasty Marking drill holes Synovectomy

SMALL JOINT Synovectomy

Cartilage debridement Thermal modification Fracture debridement

Resection of adhesions Chondroplasty Tendon debridement Scar tissue excision

\*\*\*2.18mm Most Distal Face, 3.28mm Bend Mid-point, 3.65mm Insulated Shaft.

## DePuy Mitak

Description	Electrode**	Size	Catalog No.	Mode	Default		Maximum		Suction	Jer		-tei-
			2-Piece or Integrated Handle		ABLATE/ CUT(w)	DES/ COAG(w)	ABLATE/ CUT(w)	DES/ COAG(w)		Shoulder	Knee	Small
Thermal Flexible Side Effect		3.5mm	225322 (2- Piece)	V1	5-V1	20	10	50			<b>√</b>	
Thermal Reverse Angled Side		3.5mm	225112 (2-Piece)	V1	5	20	10	50		<b>√</b>	1	
Thermal Angled End Effect		3.5mm	225104 (2-Piece)	V1	5-V1	20	10	50		<b>√</b>	<b>√</b>	
Thermal Flexible End Effect		3.5mm	225324 (2-Piece)	V1	<i>5</i> -V1	20	10	50		<b>√</b>	<b>√</b>	
Temperature Control <sup>1</sup>		2.3mm 2.3mm	<b>227252 (Integrated)</b> 225252 (2-Piece)	N/A	65	40	95	50		<b>√</b>	<b>√</b>	~
Side Effect		2.3mm	225201 (2-Piece)	V2	60	45	90	60				•
Side Effect Short			<b>227211 (Integrated)</b> 225211 (2- Piece)	V2	60	45	90	60				~
Wedge		2.3mm 2.3mm	<b>227203 (Integrated)</b> 225203 (2-Piece)	V2	60	45	90	60				•
Wedge Short			<b>227213 (Integrated)</b> 225213 (2-Piece)	V2	60	45	90	60				•
End Effect			<b>227202 (Integrated)</b> 225202 (2- Piece)	V2	90	60	130	90				<b>~</b>

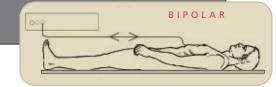
VAPR Suction Sheaths may be used with all non-suction electrodes.

Suction Sheath 2.3mm 225401 Suction Sheath 3.5mm 225402

## <sup>1</sup> Temperature display and control available only when used with the VAPR II and VAPR 3 electro-surgical generators.

limits potential damage to alternate grounding pad. The system itself i less complicated and easier to use





### KEY SYSTEM FEATURES

- Seamless fault safety System shuts down when electrode contacts metal. Avoid costly scope repair and sheath damage.
- Temperature Control available with "Thermal" and "Temperature Control" electrodes.



225021	VAPR Generator – VAF
225002	VAPR Handpiece
225023	VAPR Footswitch
225004	VAPR Sterilization Tray
225005	VAPR Power Cord

<sup>\*</sup> Please consult package insert for instructions for use. \*\*All VAPR Electrodes are indicated for use in the shoulder, knee, elbow, ankle, and wrist.