

# TOUCH 5

**COMBI** - Electro Surgical Generator



## FEATURES & SPECIFICATIONS

- Advance multiple microcontroller based generator for Open and Laparoscopic Surgeries.
- 5-inch LCD touch screen display with intuitive interface, and additional feather touch buttons.
- Intuitive user interface facilitates easy program and mode selection with seamless operation.
- It Features 2 Monopolar and 1 Bipolar Sockets, for handswitch / footpedal without change over.
- It is compatible with all universal laparoscopic / Open monopolar and bipolar instruments
- It supports ALAN's special Capacitive Patient Plate / Return Electrodes for maximum safety.
- PPCM feature monitors patient's contact quality and provides real-time graphical representation
- "Self-Test" diagnoses the entire unit at every start up for its healthiness & operational integrity
- Automatically stops the power output with audio-visual indication during any problem.
- It is compatible with ALAN's Wired and Wireless Footswitch, ensuring convenient operation.
- Isolated monopolar and bipolar outputs, eliminating the need for switch over.
- HF power output can be adjusted using touch screen and handswitch pencil from sterile field.
- Simultaneous monopolar coagulation for 2 surgeons via handswitch & footswitch pairing.
- Tissue monitoring technology measure tissue impedance & dynamically varies the HF output.
- Auto mode in Monopolar & Bipolar ensures optimum power, without tissue charring.
- System restores previous activated power settings when encountered power interruptions.
- HF current leakage monitoring & controlling system supervises and controls it less than 10 uA.
- 99 + 1 user programmable memory for surgeons to store & recall surgery preferences and details.
- Upgradeable and compatible to Argon Plasma Coagulation & Smoke Evacuator Systems.
- Current meter display for easy understanding of flow of current in Bipolar modes.

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### Monopolar Cut Modes:

Pure	: 400 W @ 350 Ohms	CF 1.5
Lapcut	: 300 W @ 350 Ohms	CF 1.5
Blend	: 250 W @ 350 Ohms (10 Levels)	CF Variable
EndoCut	: 250 W @ 300 Ohms (10 Levels)	CF Variable

### Monopolar Coagulation Modes:

Lo Spray	: 120 W @ 500 Ohms	CF 9.0
Fulgurate	: 150 W @ 500 Ohms	CF Variable
Lo-Desi	: 200 W @ 500 Ohms	CF Variable
Soft	: 300 W @ 150 Ohms	CF 1.5

### Bipolar Cut Modes:

LowCut	: 120 W @ 100 Ohms	CF 1.5
HighCut	: 120 W @ 100 Ohms	CF 1.5

### Bipolar Coagulation Modes:

Cut	: 120 W @ 100 Ohms	CF 1.5
Macro	: 120 W @ 100 Ohms	CF 1.5
Micro	: 100 W @ 100 Ohms	CF 1.5
Auto Start	: 100 W @ 100 Ohms	CF Variable

### Input Supply

Input	: 230 VAC $\pm$ 20%, 50Hz
Power Consumption	: 750VA Max
Input Fuse	: 5A T
Output Control	: Colour TFT Display with Touch Screen and Push buttons in all Modes
Max Output	: Max. Power Output: 400 Watts

### Safety Standards

Basic Construction	: As per IEC 60601-1, IEC 60601-1-2 and IEC 60601-2-2
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### Classifications

Protection Class	: I
Mdd. Class	: II b
Pollution degree Class	: II
Overvoltage category	: II
Class	
Unit Type	: CF
All Outputs	: Floating Output (All output ports are CF Type)
Electrical Potential	: Connecting Pin and Indicated by Symbol
Balancing	
PER	: 98
Dimension	: 320mm (W) x 160mm (H) x 360mm (D)
Weight	: Maximum 7.0 Kg

### Operating Parameters

Ambient temperature range	: +10° C to +40° C
Relative humidity	: 30% to 75% non-condensing
Atmospheric pressure	: 700 millibars to 1060 millibars

### Transport and Storage

Ambient temperature range	: -30° C to +65° C
Relative humidity	: 0% to 90% non-condensing
Atmospheric pressure	: 500 millibars to 1060 millibars

## ALAN ELECTRONIC SYSTEMS PVT. LTD.

### Factory & Head Office:

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