

## SYSTEM

### SYSTEM SPECIFICATIONS AND DIMENSIONS

	Width	Depth	Height	Weight (no battery)
Intelect® Mobile 2 Head Unit				
COMBO	34cm	35.5cm	15cm	3.1kg
UltraSound	34cm	35.5cm	15cm	2.8kg
STIM	25.5cm	35.5cm	15cm	2.9kg
Cart configurations				
Cart (Safe working load 6.5kg)	48cm (max)	52cm (max)	96cm	10.1kg
Cart with vacuum	48cm (max)	52cm (max)	96cm	11.5kg
Device on cart	-	-	111 cm	-

### POWER

Input	100 - 240 V AC, 1.0 to 0.42 A, 50/60 Hz
Electrical Class	CLASS II
Mode of Operation	Continuous

*Note: Mains isolation is achieved by use of the double pole switch located on the rear panel.*

Electrical Type (Degree of Protection)	
Ultrasound	.TYPE BF
Electrotherapy	.TYPE BF
Electrotherapy Vacuum	.TYPE BF
Ultrasound & Electrotherapy	.TYPE BF

### ELECTRO STIMULATION SPECIFICATIONS

Output specifications are described for each waveform from pages 24-26.

Unless otherwise specified, electrotherapy controls accuracy is:  $\pm 20\%$ .

Load impedance: 500-1000 Ohm

CC = constant current, effect of load impedance on voltage

CV = constant voltage, effect of load impedance on current

### VACUUM SPECIFICATIONS

<b>Power</b>	
Input	20-25 Vdc, maximum peak current 1 A
Electrical Type	TYPE BF

#### General characteristics

Vacuum Range	.0 to 600 mbar maximum +/- 5%
Vacuum Modes	Continuous or Pulsed Continuous. 10 setting over vacuum range, 60 mbar per setting, +10 mbar to 10 mbar per setting

#### Pulsed Mode

Maximum Vacuum settings 2 to 10, +10mbar to -10mbar per setting

Minimum Vacuum settings in 1 to 9, +10mbar to -10mbar per setting

Hold Time in minimum & maximum vacuum settings, 0-20 seconds, in 1 second steps, +/-0.5 seconds

## ULTRASOUND SPECIFICATIONS

Frequency	1 MHz; 3 MHz
Duty Cycles	10%, 20%, 50%, Continuous
Pulse Repetition Rate	16, 48, or 100 Hz
Pulse duration:	1 -31.25 ms Max (ON): 31.25 ms Min (OFF): 5ms

## OUTPUT POWER

US applicator Frequency	1cm <sup>2</sup>		2cm <sup>2</sup>		5cm <sup>2</sup>		10cm <sup>2</sup>	
	1MHz	3MHz	1MHz	3MHz	1MHz	3MHz	1MHz	3MHz
Effective Radiating Area ERA INTL (cm <sup>2</sup> )	1	0.9	1.5	1	2.5	2.7	6	6.8
Max Output power in Continuous mode	2W	1.8W	3W	2W	5W	5.4W	12W	6.8W
Max Output power in Pulsed mode	3W	2.7W (*)	4.5W	3W	7.5W	8.1W	18W	13.6W
Max Amplitude in Continuous mode	2W/cm <sup>2</sup>	2W/cm <sup>2</sup>	2W/cm <sup>2</sup>	2W/cm <sup>2</sup>	2W/cm <sup>2</sup>	2W/cm <sup>2</sup>	2W/cm <sup>2</sup>	1W/cm <sup>2</sup>
Max Amplitude in Pulsed mode	3W/cm <sup>2</sup>	3W/cm <sup>2</sup>	3W/cm <sup>2</sup>	3W/cm <sup>2</sup>	3W/cm <sup>2</sup>	3W/cm <sup>2</sup>	3W/cm <sup>2</sup>	2W/cm <sup>2</sup>

(\*) An error of + 0.25 W can be measured with 1cm<sup>2</sup> US applicator, pulse mode 100Hz at 10% or 20% Duty Cycle.

Unless otherwise specified, ultrasound controls accuracy is: ± 20 %.

Peak to Average Ratio: 1:1, at 50% Duty Cycle  
4:1, at 20% Duty Cycle  
9:1, at 10% Duty Cycle

Beam Nonuniformity Ratio < 5:1

Beam Type Collimating

Treatment Time 1 to 30 min