



BTL

Electrotherapy & Ultrasound Devices
CANADA



ORTHO CANADA

BTL-4000 SMART BTL-4000 PREMIUM THE MOST ADVANCED TECHNOLOGY IN THE INDUSTRY

Based on over 20 years of experience in design and manufacture of products for physiotherapy, BTL has designed the brand new series of ultrasound, electrotherapy, laser and magnetotherapy modalities: the BTL-4000 Smart and Premium. During their development, all of the efforts focused on designing the most technologically advanced system for physiotherapy; the system that would be comfortable to use, easy to operate, while featuring the best parameters available today.

The brand new HandsFree Sono[®] ultrasound technology is the first of its kind and presents a technological breakthrough: this revolutionary advancement is made possible due to the proprietary Rotary Field Technology.

The electrotherapy module features the widest range of the most advanced waveforms available today. The laser therapy system offers the most effective treatment for pain management and other selected conditions, using the most advanced and the most powerful probes in the industry. The magnetotherapy unit includes up to four channels in one unit to maximize your therapy options.

CONTENT

Main features

Ultrasound therapy

- HandsFree Sono[®]
- Premium
- Smart

Electrotherapy

- Premium
- Smart

Combined units

- Electrotherapy, ultrasound

Vacuum unit and trolley

MAXIMUM FLEXIBILITY FOR ALL TREATMENT POSITIONS



FEATURES AND BENEFITS OF THE BTL HANDSFREE SONO®

- Saving operator's time and effort
- More efficient therapy & elimination of therapist's fault
- Maximum safety using the embedded Rotary Field Technology
- Equal ultrasound dosage over the entire treated area
- Alternating frequencies 1 and 3 MHz
- Two models of HandsFree Sono: 18 cm² with six crystals and 12 cm² with four crystals



ULTRASOUND

A BREAKTHROUGH IN THE ULTRASOUND THERAPY

This operator independent ultrasound system saves the operator's time, while making ultrasound treatment more effective than ever before. An easy operation, the most advanced parameters and a wide library of protocols make the BTL-4000 Smart and the BTL-4000 Premium the most advanced system in the industry.

Accessories for BTL-4000 SMART / PREMIUM



BTL-4000 PREMIUM

- HandsFree Sono® applicator*
- QUICK protocols
- Body Parts navigation
- Simultaneous treatment with 1 and 3 MHz
- Large 7" colour touch screen
- Preset protocols and therapeutic encyclopaedia
- Patient database
- Heated ultrasound heads
- Portable and battery-operated*

*optional

HANDSFREE SONO®

THE ONLY OPERATOR INDEPENDENT APPLICATOR WITH ROTARY FIELD

The BTL HandsFree Sono® brings the unique Rotary Field Technology. It is the first ultrasound applicator on the market which creates electronically precise rotating ultrasound field without necessity of a therapist activity. This outstanding technology enables very fast, effective and comfortable treatment and reduces operator fatigue.



Automatic application by the HandsFree Sono®

Hand operated application by a therapist

ROTARY FIELD TECHNOLOGY: THE PRINCIPLE

The ultrasound Rotary Field Technology is the latest innovation based on multiple crystal applicators. The ultrasound crystals are organized in the applicator as an array of ultrasound transmitters which are controlled by a real time processor unit. The real time processor unit activates the individual crystals according to preset parameters.

The Rotating Field is created by a sequential activating of crystals while the real time processor controls speed of rotation, output power and depth of ultrasound field penetration for each individual crystal. Such a precise control makes the ultrasound therapy effective and safe against any risks such as hotspots which are typical of some stationary ultrasound technologies.

TECHNICAL SPECIFICATIONS OF THE BTL - 4000 ELECTROTHERAPY

MODEL	BTL-4625 SMART	BTL-4625 PREMIUM
Part number	P2625.402	P2625.701
Display	4.3"	7"
Knob		•
QUICK protocols		•
Body Part navigation		•
Patient database		•
Electrotherapy channels	2	2
Electrodiagnostics	•	•
Galvanic	•	•
Diadynamic currents	•	•
Träbert	•	•
Faradic	•	•
Neofaradic	•	•
Exponential pulses	•	•
Exponential pulses with rise	•	•
Rectangular pulses	•	•
Russian stimulation	•	•
Stimulation pulses	•	•
Trapezoid pulses	•	•
Triangular pulses	•	•
Combined pulses	•	•
TENS	•	•
NPHV	•	•
Sequences	•	•
2-pole interference	•	•
4-pole interference	•	•
Isoplanar and vector field	•	•
Interrupted pulses	•	•
Leduc current	•	•
H-wave	•	•
Microcurrent	•	•
Mid-frequency surges	•	•
Spastic stimulation - Hufschmidt	•	•
Spastic stimulation - Jantsch	•	•
HVT	•	•
IG pulses	•	•
Modulated pulsed current	•	•
VMS current	•	•
Kotz current	•	•
EPIR	•	•
Dimensions	380 × 190 × 260 mm	
Weight	Max. 3 kg	
Mains supply	100-240 V/AC, 50-60 Hz	
Standard accessories	2× electrode connection cable - light grey and dark grey, 4× flat rubber electrode 5×7 cm, sponge covers, set of fixation straps, adapter, manual	

ONE-TOUCH START WITH QUICK THERAPY PROTOCOLS



FULL RANGE OF APPLICATORS AND ACCESSORIES

- Time-saving HandsFree Sono® applicator
- Ergonomically designed, heated ultrasound heads
- Wide spectrum of laser probes and clusters for wide range of treatments
- Powerful magnetotherapy applicators
- New vacuum unit with adjustable vacuum intensity
- Well-designed durable trolley for everyday use

DATABASE

- Easy management of the patient database
- All patient relevant information can be stored in the device memory
- Easy recall of patients' records and related treatments

PORTABILITY

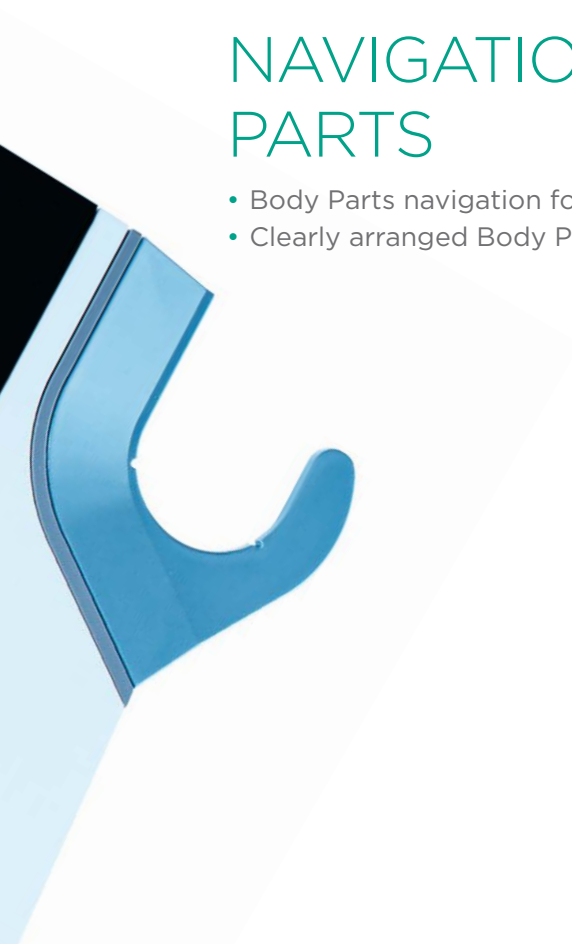
- Easy manipulation
- Lightweight battery-operated devices

THERAPEUTICAL PROTOCOLS

- Wide library of preset protocols for easy and effective application
- Classification of the protocols according to the biological effects
- Full-colour encyclopaedia with anatomical images
- Description of therapies and positioning of applicators for treatment protocols

NAVIGATION THROUGH BODY PARTS

- Body Parts navigation for fast access to localized protocols
- Clearly arranged Body Parts in ten groups



THE NEW BTL-4000 SERIES

This new and advanced series of physiotherapy products offers devices for ultrasound therapy, electrotherapy, laser therapy and magnetotherapy. The outstanding parameters and wide range of applicators, including the revolutionary HandsFree Sono® make this line an ideal choice for any professional practice.

The BTL-4000 Series is available in two models: the **BTL-4000 SMART** and the **BTL-4000 PREMIUM**.

EASY OPERATION

- Therapy can be started with a single touch
- Possibility to select up to eight QUICK protocols for each therapy
- Large colour touch screen provides clear visualization of all important information
- Touch screen available in two sizes: 7" for the **BTL-4000 PREMIUM** or 4.3" for the **BTL-4000 SMART**



ELECTROTHERAPY

THE MOST COMPREHENSIVE
RANGE OF THERAPY
OPTIONS





BTL-4000 SMART

- HandsFree Sono[®] applicator*
- Simultaneous treatment with 1 and 3 MHz
- 4.3" colour touch screen
- Preset protocols and therapeutic encyclopaedia
- Heated ultrasound heads
- Portable and battery-operated*

*optional

FEATURES & BENEFITS OF THE BTL-4000 ULTRASOUND

- Saving operator's time and effort with HandsFree Sono[®]
- Suitable for combined therapy (simultaneous ultrasound and electro therapy)
- Ergonomic heads with visual accessories identification / visual patient contact indicator
- Heated multi-frequency applicators: 1 and 3 MHz available
- Trolley*

*optional

TECHNICAL SPECIFICATIONS OF THE BTL-4000 ULTRASOUND

MODEL	BTL-4710 SMART	BTL-4710 PREMIUM
Part number	P2710.401	P2710.701
Display	4.3"	7"
Knob		•
QUICK protocols		•
Body Part navigation		•
Patient database		•
Number of independent channels	1	1
Number of heads simultaneously connected	2	2
Modular frequency	10-150 Hz	10-150 Hz
Duty factor	5-100 %	5-100 %
Max. intensity in continuous mode	2 W / cm ²	2 W / cm ²
Max. intensity in pulsed mode	3 W / cm ²	3 W / cm ²
Dimensions	380 × 190 × 260 mm	
Weight	Max. 3 kg	
Mains supply	100-240 V/AC, 50-60 Hz	
Standard accessories	Ultrasound head 5 cm ² , gel 300 ml, adapter, manual	

ELECTROTHERAPY

FULL RANGE OF WAVEFORMS FOR THE BEST THERAPEUTIC EFFECT

The BTL-4000 Smart and the BTL-4000 Premium feature two channel electrotherapy units with a wide selection of waveforms. The new BTL-4000 series offers a fast therapy option using the QUICK screen, an easy navigation according to the body parts treated, all of them being clearly visible on the device large colour touch screen.

Accessories for BTL-4000 SMART / PREMIUM



BTL-4000 PREMIUM

- QUICK protocols
- Body Parts navigation
- Large 7" colour touch screen
- Preset protocols and therapeutic encyclopaedia
- Patient database
- Portable and battery-operated*

*optional



BTL-4000 SMART

- 4.3" colour touch screen
- Preset protocols and therapeutic encyclopaedia
- Portable and battery-operated*

*optional

FEATURES & BENEFITS OF THE BTL-4000 ELECTROTHERAPY

- The largest range of waveforms available in the industry
- Protocols organized by the required therapy effect
- Programmable sequences
- High Voltage therapy
- Constant Current and Constant Voltage modes
- Suitable for combined therapy (simultaneous ultrasound and electro therapy)
- Trolley*
- Connection to the vacuum unit*

*optional

COMBINED UNITS

ELECTROTHERAPY

ULTRASOUND

BTL-4000 PREMIUM

- HandsFree Sono[®] applicator*
- QUICK protocols
- Body Parts navigation
- Large 7" colour touch screen
- Preset protocols and therapeutic encyclopaedia
- Patient database
- Portable and battery-operated*

BTL-4000 SMART

- HandsFree Sono[®] applicator*
- 4.3" colour touch screen
- Preset protocols and therapeutic encyclopaedia
- Portable and battery-operated*

FEATURES & BENEFITS OF THE BTL-4000 COMBINED UNITS

- Two independent electrotherapy channels
- Wide spectrum of waveforms
- Vacuum unit*

*optional



BTL 4825S Premium
w/ optional cart & vacuum

Accessories for BTL-4000 SMART / PREMIUM



MODEL	Electrotherapy	Ultrasound	Extended waveforms	Part number
BTL-4825S SMART	•	•	•	P2825.471
BTL-4825S PREMIUM	•	•	•	P2825.771

THE NEW VACUUM UNIT AND THE TROLLEY

Combine the new BTL-Vac II unit with the BTL-4000 Smart or BTL-4000 Premium to apply electrotherapy current by means of suction-cup electrodes.

FEATURES & BENEFITS OF THE VACUUM UNIT

- Vacuum unit integrated with trolley
- Two independent outputs
- Continuous and pulsed mode
- Seven levels of vacuum intensity
- Four pulsed modes and one continuous mode

TECHNICAL SPECIFICATIONS OF THE TROLLEY

PART NUMBER	P2000.001
Dimension	960 × 620 × 570 mm
Weight	11,9 kg
Number of drawers	6



TECHNICAL SPECIFICATIONS OF THE VACUUM UNIT

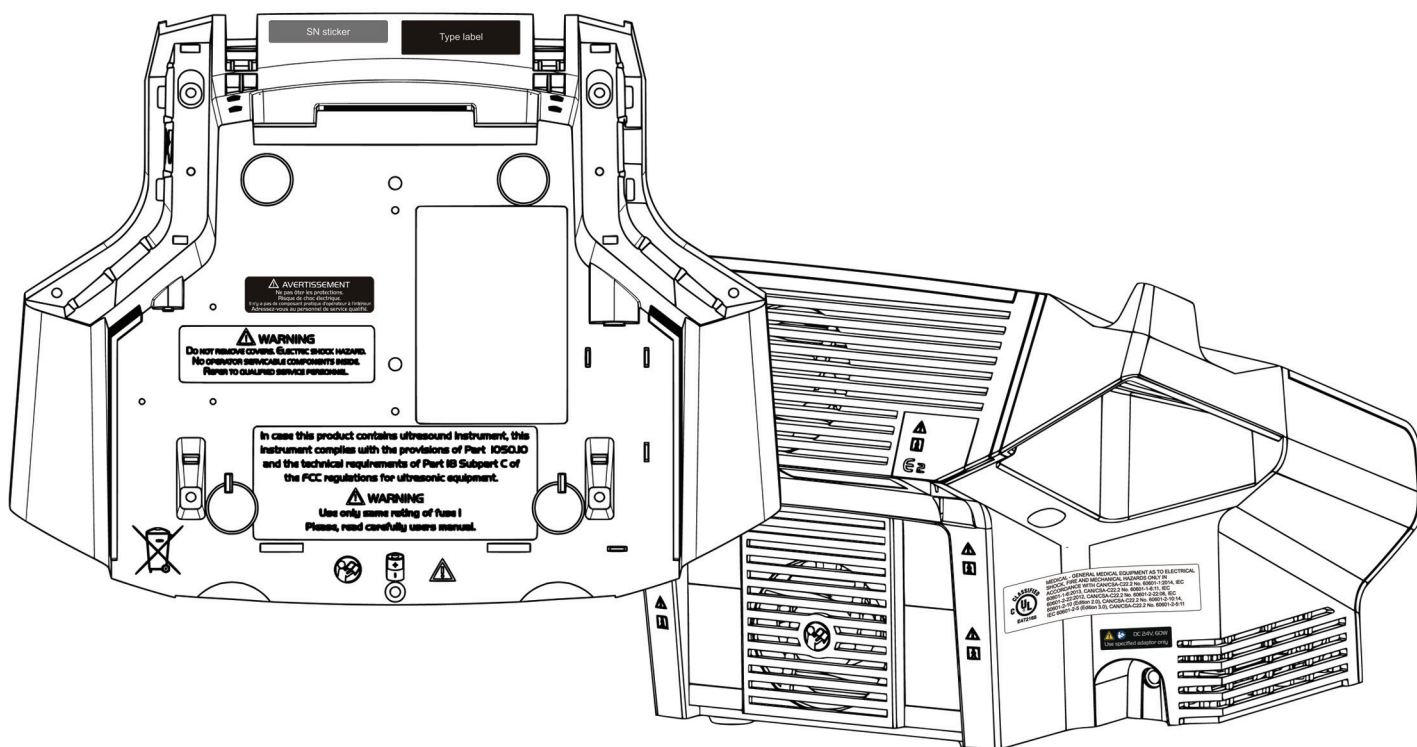
PART NUMBER	PVAC.200
Number of outputs	2
Mode	Continuous and pulsed
Pulse frequency	5, 10, 15, 20 pulses / minute
Vacuum intensity	7
Dimensions	250 × 130 × 209 mm
Weight	1,9 kg
Mains supply	100-240 V/AC, 50-60 Hz
Standard accessories	4× interface cable for electrotherapy, 2× electrode connection cable, sponges, 2× vacuum electrode connection cable, 4× vacuum electrode 60 mm, adapter

Optional accessories

Part number PVAC.201	BTL-Vac II with Plastic trolley for BTL-4000 Smart/Premium, BTL-5000 Series	Part number PVAC.202	Vacuum electrode connection cable for BTL-Vac II, for channel 1, light grey
Part number PVAC.001	Vacuum unit VAC I (old generation)	Part number PVAC.203	Vacuum electrode connection cable for BTL-Vac II, for channel 2, dark grey
Part number P2000.002	Holder for gel	Part number PVAC.206	Adapter for BTL-Vac II
Part number P2000.007	Ultrasound/Laser applicator holder	Part number PVAC.204	Cable for interconnection of BTL-4000 Smart/Premium electrotherapy units to BTL-Vac II, 2 pcs.
Part number P2000.008	HandsFree Sono holder	Part number PVAC.205	Cable for interconnection of BTL-5000 electrotherapy units to BTL-Vac II, 2 pcs.
Part number PVAC.053	Vacuum electrode 30 mm	Part number L449.013	Holder for laser cluster and laser probe with adapter for plastic trolley
Part number P012.006	Vacuum electrode 60 mm		
Part number P012.005	Vacuum electrode 90 mm		
Part number PVAC.052	Sponge for vacuum electrode 30 mm		
Part number P012.008	Sponge for vacuum electrode 60 mm		
Part number P012.007	Sponge for vacuum electrode 90 mm		

Note: The new BTL VAC II unit can only be used in a combination with the trolley P2000.001

Electrical Safety Labeling of BTL Equipment



CLASSIFIED
UL
E472168

MEDICAL - GENERAL MEDICAL EQUIPMENT AS TO ELECTRICAL SHOCK, FIRE AND MECHANICAL HAZARDS ONLY IN ACCORDANCE WITH CAN/CSA-C22.2 No. 60601-1:2014, IEC 60601-1-6:2013, CAN/CSA-C22.2 No. 60601-1-6:11, IEC 60601-2-22:2012, CAN/CSA-C22.2 No. 60601-2-22:08, IEC 60601-2-10 (Edition 2.0), CAN/CSA-C22.2 No. 60601-2-10:14, IEC 60601-2-5 (Edition 3.0), CAN/CSA-C22.2 No. 60601-2-5:11

Health Canada MDALL Licences

BTL-VAC VACUUM UNITS.....	80114
BTL-SERIES COMBINATION THERAPY UNITS.....	80320
BTL-4000 (Combination Therapy)	94106
BTL-4625 SMART & PREMIUM (Electrotherapy)	94142
BTL-4710 SMART & PREMIUM (Ultrasound Therapy)	94143
BTL-VAC II.....	94145
ULTRASOUND HEAD (5cm ² & 1cm ²).....	94527
HANDSFREE SONO	94535

Clinic Set-Up Expertise

OrthoCanada can help with comprehensive clinic planning and set-ups. Since 1989, our knowledge and assistance have helped over 500 Canadian start-ups. We provide peer-to-peer (physio-to-physio) advice, offer research subsidies and can help create everything from today's state-of-the-art clinics, to facilities with smaller budgets.



Our team of physio professionals provides comprehensive assistance with everything you need to get started. We provide equipment recommendations, advice on whether to buy or lease, as well as complete details on installation.'

Tammy Boucher, BScPT
Vice-President, Capital Equipment Sales
tammy.boucher@orthocanada.com
1-800-561-0310 ext 1700

Biomedical Services

OrthoCanada prides itself on excellent after sales services. Our team ensures that all our customers are well taken care of and that the best possible service is offered at all times.

OrthoCanada's Biomedical Services department is certified to repair, test and calibrate all BTL physiotherapy and electrotherapy devices. OrthoCanada will support your practice to ensure your clinic does not lose a step in the event of technical issues. All repairs are handled with care and in a timely manner to ensure minimal disruption in your clinic.



A graduate in Electrical Engineer from Carleton University in Ottawa, I am also a certified technician for electrotherapy and medical device manufacturers.

"One of my greatest passion is to help healthcare practitioners choose equipment that best meets their needs and is tailored to their professional practice."

Razi Khaddage, B.Eng Electrical Engineering
Biomedical Services Manager
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OrthoCanada strives to make ordering our products a positive, satisfying experience. Whether you're located in Little Shuswap or Happy Valley Goose Bay, our goal is to provide the best possible delivery service to our professional customers at an affordable price. We understand that getting your order to you promptly is our priority.



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