

SynchroSonic® U/50

Ultrasound

AMREX®



Dependable, Affordable Ultrasound

The widely used therapeutic modality of ultrasonic diathermy is provided by the SynchroSonic U/50 and the U/20 Portable Ultrasound.

SynchroSonic U/50

The versatile SynchroSonic U/50 provides therapeutic ultrasound which may be applied separately or which may be combined with electrical stimulation simultaneously through the ultrasound transducer using an external electrical stimulator.

The cable fault alarm system is an added feature of the U/50. This system will detect improper transducer cable connection and/or transducer cable damage. If such detection is made, an audible signal will alert the practitioner.

U/20 Portable Ultrasound

The U/20 Portable Ultrasound provides therapeutic ultrasound in an economical package.

Soundhead Features and Options

All Amrex ultrasound transducers are lightweight, ergonomically designed and sealed for underwater therapy.

Amrex offers two soundhead faceplate sizes: the standard 2.25" diameter faceplate or the optional, small 1.5" diameter faceplate. The QuickConnect™ Transducer Cable System is optional with the standard soundhead. It is provided with the small soundhead or the dual standard/small soundhead on all Amrex ultrasound equipment.

SynchroSonic® U/50 and U/20 Portable Ultrasound Specifications



U/20 Portable Ultrasound with optional wall mount bracket

Features

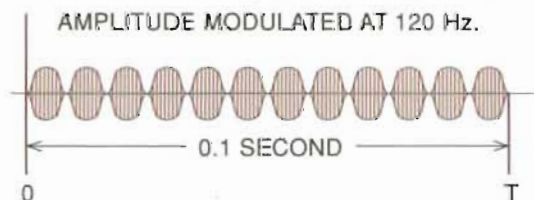
- Lightweight standard transducer
- Optional QuickConnect™ transducer
- Optional small transducer with QuickConnect cable
- Cable fault alarm system - U/50
- Transducer protection switch - U/50
- Adjustable interrupted output mode - U/50
- 0 to 20 watt output - U/50
- 0 to 12 watt output - U/20
- 30 minute timer
- Combination therapy capability - U/50
- Two Year Warranty - Generator - Parts and Labor
- One Year Warranty - Transducer - Parts and Labor
- UL Listed
- CSA Approved

Input Power Requirements

Line Voltage	120 Vac, 60 Hz (Special voltage available on request)
Current	1.0 A
Line Leakage	< 50 µA

Ultrasonic Generator

(Complies with FDA Regulation 21 CFR 1050.10 and FCC Regulations)	
Frequency	1.0 MHz ± 5%
Waveform	amplitude modulated at 120 Hz ± 1%



Pulse Duration	8 ms ± 1%
Output Mode U/50	adjustable interrupted & non-interrupted
Output Mode U/20	non-interrupted
Output Power U/50	0 to 20 W total ± 20%
	0 to 5 W/cm ² ± 20%
Output Power U/20	0 to 12 W total ± 20%
	0 to 3 W/cm ² ± 20%
Temporal Peak/Temporal Average Intensity	2.8:1 ± 20%
Treatment Timer	adjustable 0 to 30 minutes

Applicator (Transducer)

Crystal Material	barium-titanate
Applicator Beam Type	collimating
Frequency	1.0 MHz ± 5%
ERA (Effective Radiating Area)	4 cm ² ± 20%
BNR (Beam Nonuniformity Ratio)	5.5:1 maximum
Small Faceplate Size	1.5" diameter
Standard Faceplate Size	2.25" diameter

Instrument U/50 and U/20

Overall Dimensions	11½" W x 11" D x 7" H
Weight (including transducer)	12 lbs.
Shipping Weight	17 lbs.

Ordering Information U/50

Standard Soundhead	32-U/50
Standard QuickConnect Soundhead	32-U/50-D
Small QuickConnect Soundhead	32-U/50-SM
Standard/Small QuickConnect Soundhead	32-U/50-D2

Ordering Information U/20

Standard Soundhead	32-U/20
Standard QuickConnect Soundhead	32-U/20-D
Small QuickConnect Soundhead	32-U/20-SM
Standard/Small QuickConnect Soundhead	32-U/20-D2

Wall Mount Bracket U/50, U/20	9-WB
Soft Carrying Case U/50, U/20	4-SCC

AMREX[®]
electrotherapy equipment
a division of Amrex-Zetron, Inc.

Caution: Federal law (USA) restricts this device to sale by or on the order of a licensed practitioner