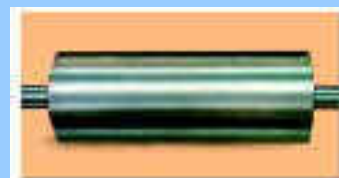




Heavily Soiled component
prior to ultrasonic bath



High-Speed photography
captures the ultrasonic
action



Cleaned part - ready for
immediate use

Sonicor's line of Ultrasonic products



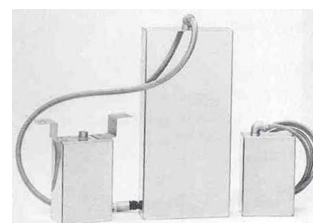
Sonicor Ultrasonic TableTop Cleaners
SC & DSC Series



Sonicor "Mobile" Console ultrasonic cleaners
MSC Series



Sonicor Tank System with Generator
(GS/TS Models)



Sonicor Immersibles Systems with Generator



Sonicor Ultrasonic
Vapor Degreaser



Sonicor Aqueous System
CPS Series



THE BEST IN CHEMICAL

Best Chemical Co.(S) Pte Ltd

60 Senoko Road, Singapore 758124

Tel: (65) 6 755 2400 (6 Lines)

Fax: (65) 6 752 8809/ 6 755 9643

Email: bestchem@pacific.net.sg

Website: <http://www.best-chemical.com>



“SC” MODELS



Designed to quickly and safely remove oil, tar, agar, food, rust, oxide, ink, blood, etc. from glassware, surgical and dental instruments, electronic components, precision parts and many other items hard to clean.

Standard Features:

- Compact One Piece Construction
- Stainless Steel Cleaning Chamber
- Simple To Operate
- Solid State Modules
- 11 Models to Choose From

Accessories:

Covers, baskets (drain slots), Insert Trays (Solid), and Beaker Racks are constructed of Stainless Steel.

*Available in DSC series too.

CONSTRUCTION :

- One piece compact assembly
- Stainless steel round cornered
- Outlet drain on SC-152 and larger units
- Upper cabinet – steel, painted.
- Lower cabinet – aluminum, painted.
- RFI filter to meet FCC standards.

TRANSDUCER :

- Lead-Zirconate – Titanate-aluminum assembly.
- SC-320, 420 and 421 models – Lead-Zirconate – Titanate, rugged composition.

CIRCUITRY :

- Solid-state modules – Field replaceable.

CONTROLS :

- Illuminated push button ON/OFF switch.
- Automatic tuning.
- SC-320 & 420 and 421 utilize toggle switch / pilot controls.

OPTIONS :

- Timer 0 – 30 minutes.
- Heat – Illuminated push button On/Off switch.
Thermostat pre-set at 140°F (60°C).
- For digital Timer and Heat refer to DSC literature.

INPUT :

- 220/240V, 50/60 Hz.
- Add “T”, or “H” when desired to model number.
- 25 Amps for 200/240V.
- Heater doubles amperage requirement.

SPECIFICATIONS & DIMENSIONS

MODELS	SC-52	SC-120	SC-121	SC-152	SC-220	SC-221	SC-320	SC-321	SC-420	SC-421
CLEANERS WITH TIMER	SC-52T	SC-120T	SC-121T	SC-152T	SC-220T	SC-221T	SC-320T	SC-321T	SC-420T	SC-421T
CLEANERS WITH HEAT	SC-52H	SC-120H	SC-121H	SC-152H	SC-220H	SC-221H	SC-320H	SC-321H	SC-420H	SC-421H
CLEANER WITH TIMER & HEAT	SC-52TH	SC-120TH	SC-121TH	SC-152TH	SC-220TH	SC-221TH	SC-320TH	SC-321TH	SC-420TH	SC-421TH
CAPACITY (GALLONS)	½	¾	1	1 ½	2 ½	2 ½	3 ½	3	5	7
OUTPUT POWER (WATTS)	50	100	100	150	200	200	300	300	450	450
TANK SIZE L X W X D (INCHES)	5.5 x 5 x 4	9 x 5 x 4	9 x 5 x 6	11.5 x 5.5 x 6	11.5 x 9.5 x 6	19.5 x 5 x 6	12.5 x 11.5 x 6	14.75 x 8.5 x 6	19.5 x 11 x 6	19.5 x 11 x 8
OVERALL SIZE L X W X H (INCHES)	7 x 6 x 8.5	10.5 x 6.5 x 8.5	10.5 x 6.5 x 11	12.5 x 7 x 11	12.5 x 10.5 x 11	21 x 7 x 11	14 x 12.5 x 15	16.5 x 10 x 15	21 x 13 x 15	21 x 13 x 17

*Note : 1 inch = 2.54 cm

1 US Gal = 3.7854 Ltr



**“Large Size” SC-552 & SC-652
Ultrasonic cleaners***

CONSTRUCTION :

- One piece compact assembly
- Stainless steel tank.
- Outlet drain ½” NPT
- Cabinet/base steel – painted.
- R.F.I. filter to meet FCC standards.

TRANSDUCERS :

- High efficiency piezoelectric lead-zirconate composite.

CIRCUITRY :

- Solid-state modules
- Field replaceable.

CONTROLS :

- ON/OFF switch with indicator.

OPTIONS :

- Timer** - 0 – 30 minutes.
- Heat** - Illuminated push button On/Of switch.
Thermostat pre-set at 140°F (60°C).

*Available in DSC series too.



Covers, Basket (drain slots), constructed of stainless steel.
Input 200/240V, 50/60 Hz 1 ph, 4.5 Amp, heaters double amperage.

SPECIFICATIONS

ULTRASONIC CLEANER	SC-552	SC-652
CLEANERS WITH TIMER	SC-552T	SC-652T
CLEANERS WITH HEAT	SC-552H	SC-652H
CLEANER WITH TIMER & HEAT	SC-552TH	SC-652TH
CLEANER WITH DIGITAL TIMER & HEAT	DSC-552TH	DSC-652TH
CAPACITY (GALLONS)	8	10
OUTPUT POWER (WATTS)	600	600
TANK SIZE L X W X D (INCHES)	13.5 x 13.5 x 10	16 x 14 x 11
OVERALL SIZE L X W X H (INCHES)	15.5 x 16.5 x 19.5	18 x 17 x 20.5

“MOBILE” MSC SERIES CONSOLE ULTRASONIC CLEANERS

- Mobile convenience
- Steel painted cabinets
- Mounted on 3” casters
- O.D. 21” L/R x 13” F/B x 31” H
- Each tank with independent control(s) and drain(s)
- Other specifications same as SC220, 221, 420, 421
- “DMSC” models digital timer and digital temperature controller operation refer to “DSC” literature, covers, baskets, etc.
- See “SC” models for accessories, covers, baskets, etc.

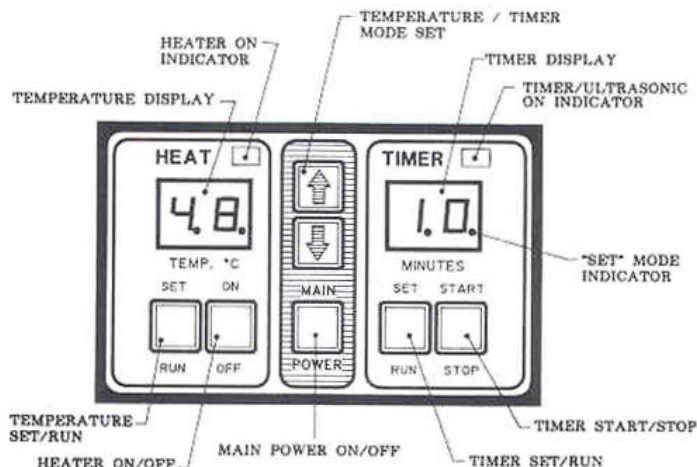
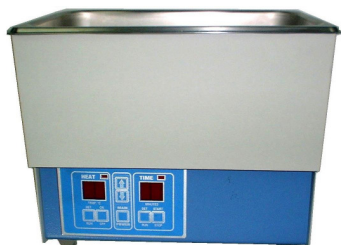


SPECIFICATIONS

ULTRASONIC CLEANER	MSC-220/2	MSC-221/2	MSC-420	MSC-421
CLEANER(S) WITH TIMER (0 – 30 MIN)	MSC-220/2T	MSC-221/2T	MSC-420	MSC-421
CLEANER(S) WITH HEAT	MSC-220/2H	MSC-221/2H	MSC-420H	MSC-421H
CLEANER WITH TIMER & HEAT (0-30 MIN & HEAT)	MSC-220/2TH	MSC-221/2TH	MSC-420TH	MSC-421TH
CLEANER WITH DIGITAL TIMER & HEAT	DMSC-220/2TH	DMSC-221/2TH	DMSC-420TH	DMSC-421TH
TANK SIZE L/R x F/B x DEPTH (INCHES)	(2) 11.5” x 9.5” x 6”	(2) 19.5” x 5” x 6”	(1) 19.5” x 11” x 6”	(1) 19.5” x 11” x 8”
CAPACITY (GALLONS)	(2) 2.5	(2) 2.5	(1) 5	(1) 7



“DSC” MODELS



The Sonicor DSC series of ultrasonic cleaners is a line of freestanding units with self-contained ultrasonic generators. They are designed to quickly and safely remove oil, tar, agar, food, rust, oxide, ink, blood, etc. from glassware, surgical and dental instruments, electronic components, precision parts and many other items hard to clean. Heavy-duty construction including all metal cabinets and formed stainless steel tanks assures long, trouble free operation.

Features:

- Compact One Piece Construction
- Stainless Steel Cleaning Chamber
- Solid State Modules
- Automated control panel
- Corrosion resistant metal cabinet
- Digital temperature control
- Digital timer control
- Easy to operate

Accessories:

Covers, baskets (drain slots), Insert Trays (Solid), and Beaker Racks are constructed of Stainless Steel.

Only Sonicor's microprocessor Controls provides easy independent flexibility of operation, Continuous ability to monitor tank temperature and timer operation with simple selection and setability.

MAIN POWER – Turns controls on, allows operation of the Ultrasonic Timer and Heater.

TEMPERATURE - Provides Temperature adjustment for specific setting of temperature °C. (Ambient to 176°F or 80°C.)

TIMER SETTING – Provides Timer adjustment for specific setting of Timer minute(s). (0-99 minutes)

TEMPERATURE SET / RUN MODE – Allows for the independent mode setting of the Ultrasonic Timer for timed or continuous Ultrasonic operation.

TEMPERATURE DISPLAY – The temperature Display shows in degrees °C either the Set Temperature of current Tank Temperature.

Timer Display – The Timer Display shows in minutes either the Set Time or Running Time.

HEAT ON / OFF – Initiates operation of heater.

TIMER START / STOP – Initiates operation of timed or continuous ultrasonic cycle.

INDICATORS – Provide visual notification that Heater and Ultrasonic are operational.

General Precautions

1. NEVER operate the ultrasonic cleaner without at least 2 inches or half level of solution in it.
2. NEVER use any volatile or flammable solvents, as the use of ultrasonics tends to increase the evaporation rate and cause additional hazards.
3. NEVER use any chemical solution that will attack stainless steel.
4. NEVER immerse the ultrasonic cleaner in water. When you are finished using the tank, rinse it thoroughly and wipe dry.



BandScanner 2000 Ultrasonic “Sweep Frequency” Cleaning System

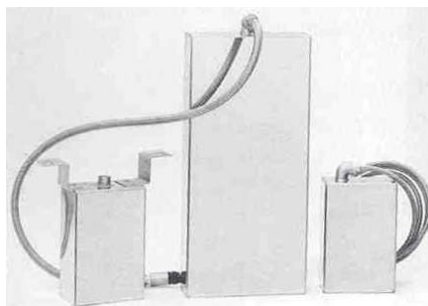
Introducing Sonicor’s next generation of Ultrasonic Generators. Generators that push the state of the art are used for even the smallest and simplest of cleaning systems. Features in the new generators are:

- **Electronic Power Control**
- **Adjustable De-Gas Feature**
- **Automatic Output Power Stabilization**
- **Available in 27, 40 and 68 KHz Models**
- **Electronically Controlled Frequency Sweep**
- **Electronically Controlled Automatic Frequency tracking**
- **High Speed, robust MOS FET power output devices in class “D” configuration**
- **Sweep frequency generator bandwidth 2KHz (+/-1KHz around the center frequency)**
- **Sophisticated high speed snubbing and protecting networks for trouble free operation**
- **LCD output power meter (RMS watts) with display of minimum and maximum output power**



Sonicor Tanks

Sonicor tanks feature lead-zirconate-titanate composite transducers; stainless, helic-arc welded fabrication with double wall construction; and inlet and outlet fittings. Options include built-in tank heater systems, extended lip for counter top mounting, water jackets for solvent use and recirculating filter systems.



Sonicor immersibles

Sonicor immersibles are used for introducing ultrasonic energy where the use of transducerized tanks is not practical. Immersibles are stainless steel enclosures containing lead-zirconate-titanate composite transducers and are powered by Sonicor “SG” Ultrasonic Generators.

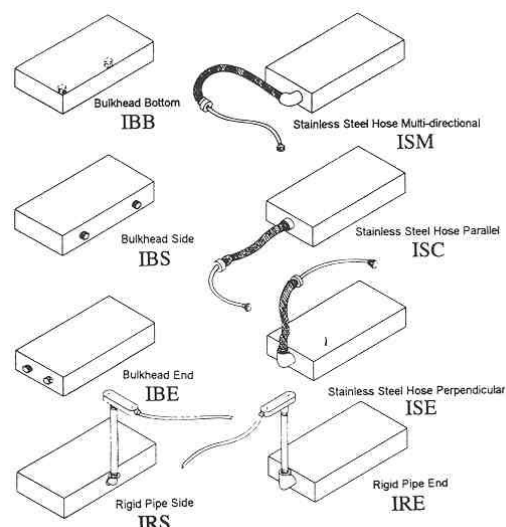


Sonicor Tank System with Generator (GS/TSMODELS) specifications

BandScanner™ Sweep Frequency Ultrasonic Generator/Tank and Immersible									
BandScanner™	40 KHz	TANK SIZE		TANK MODEL				IMMERSIBLE	
POWER	MODEL	LxWxD	CAPACITY	TANK	TANK	TANK	TANK	RADIATING	MODEL
		INCHES	GALLONS	HEATED	UNHEATED	COVER	BASKET	SURFACE	
225 Watts	SG-2242	9x7x6	1.5	T-2245HC2	T-2245	C-205	B-205	12" x 3"	I(**) - 224H
		11x5x6	1.5	T-2246HC2	T-2246	C-206	B-206		
		11x5x9	2.5	T-2248HC2	T-2248	C-208	B-208		
300 Watts	SG-3042	10x8x10	3.5	T-3049HC2	T-3049	C-309	B-309	9" x 6" or 18" x 3"	I(**) - 304H
		11x9x6	2.5	T-3046HC2	T-3046	C-306	B-306		
		12x10x10	5	T-3045HC2	T-3045	C-305	B-305		
		19x5x6	2.5	T-3048HC2	T-3048	C-308	B-308		
600 Watts	SG-6042	12x10x10	5	T-6044HC2	T-6044	C-305	B-305	18" x 6" or 12" x 9"	I(**) - 604H
		12x10x25	13	T-6048HC2	T-6048	C-305	B-608		
		14x10x9	5	T-6046HC2	T-6046	C-406	B-406		
		14x10x12	7	T-6047HC2	T-6047	C-607	B-607		
		16x12x12	10	T-6045HC2	T-6045	C-605	B-605		
900 Watts	SG-9042	12x10x10	5	T-9044HC2	T-9044	C-305	B-305	18" x 9" or 18" x 12"	I(**) - 904H
		16x12x12	10	T-9045HC2	T-9045	C-605	B-605		
		20x12x12	12	T-9046HC2	T-9046	C-906	B-906		
		20x12x16	16	T-9048HC2	T-9048	C-906	B-908		
		20x16x12	16	T-9047HC2	T-9047	C-907	B-907		
		20x16x16	22	T-9049HC2	T-9049	C-907	B-1205		
1200 Watts	SG-12042	16x12x12	10	T-12049HC2	T-12049	C-605	B-605	18" x 12"	I(**) - 1204H
		20x12x12	12	T-12048HC2	T-12048	C-906	B-906		
		20x12x16	16	T-12044HC2	T-12044	C-906	B-908		
		20x16x12	17	T-12046HC2	T-12046	C-907	B-907		
		20x16x16	22	T-12045HC2	T-12045	C-907	B-1205		
		24x12x12	15	T-12043HC2	T-12043	C-1203	B-1203		
		24x18x18	33	T-12047HC2	T-12047	C-1207	B-1207		
1500 Watts	SG-15042	20x16x16	22	T-15045HC2	T-15045	C-907	B-1205	All systems are available in customs configuration to meet your specific needs. Specifications subject to changes.	
		24x18x18	33	T-15047HC2	T-15047	C-1207	B-1207		
1800 Watts	SG-18042	24x18x18	33	T-18046HC2	T-18046	C-1207	B-1207		
		24x18x24	45	T-18047HC2	T-18047	C-1207	B-1207		

HOW TO ORDER

To complete the immersible Model Number, insert (**)SM, SE, SC(stainless hose connection), (**)BB, BE, BS (bulkhead mounting) or (**)RE, RC (rigid stainless steel pipe connection). Systems utilizing more than one immersible may be installed with large "SG" Generators supplying the power requirements of the immersibles. NOTE: IBB, IBE and IBS immersibles require "JB" junction box(es).





REFRIGERATED ULTRASONIC VAPOR DEGREASERS

Sonicor Ultrasonic Vapor Degreasers are fully integrated, two stage systems with complete cleaning capabilities. They are compact and portable, enabling use in many work areas.

The units have stainless steel cleaning chambers with built-in refrigeration requiring only an AC connection and are housed in a stainless console cabinet equipped with casters for easy mobility. Each has two chambers; one for vapor generation and removal of gross contamination, and an ultrasonic chamber for precision cleaning. The full vapor zone allows for vapor rinsing over both chambers. The degreasers remove particles, grease, oil, wax and other soluble contamination from electronic components and metal and plastic parts prior to assembly or further processing. Sonicor models CUDR-15, 30 and 50 can be used with a wide range of fluorinated and chlorinated solvents. An optional desiccant dryer on the CUDR-30 and 50 makes possible the use of Freon TMS, and TE. Further options on the CUDR-30 and 50 provide for a manual spray of pure solvent and filtering of the solvent in the ultrasonic immersion chamber.

REFRIGERATION UNIT

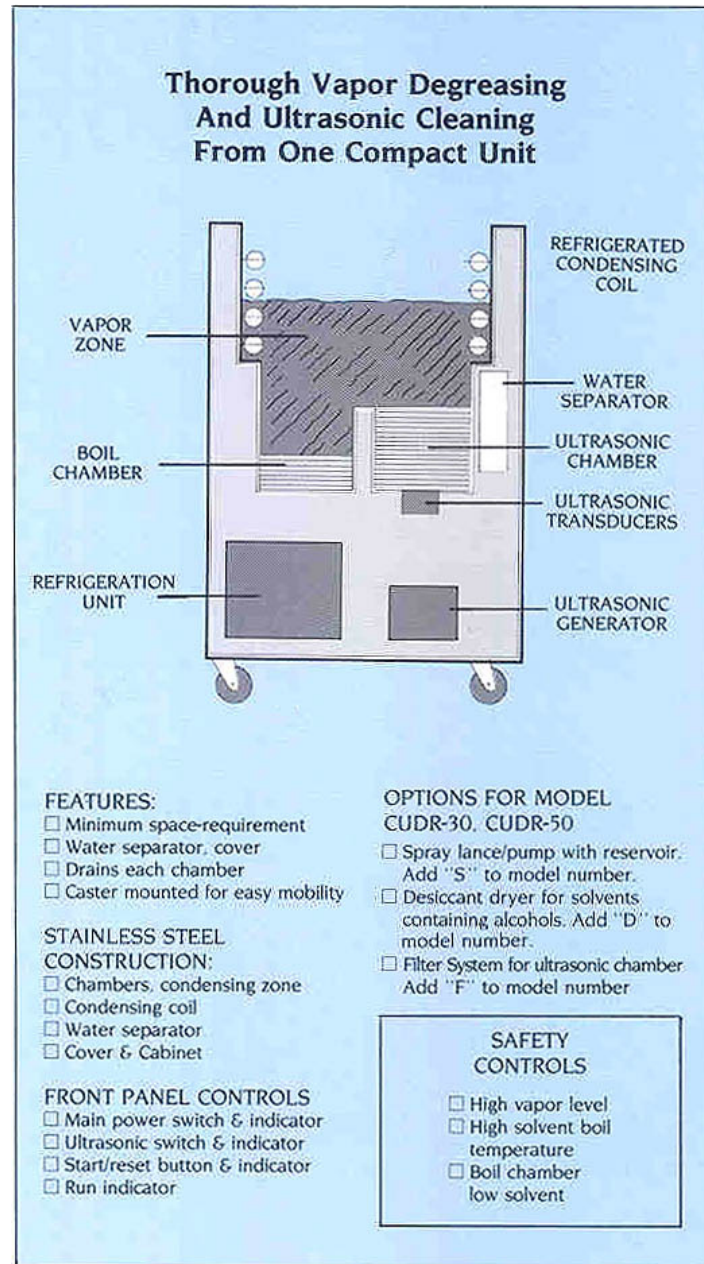
The UDR-15, 30 and 50 utilize direct expansion refrigeration systems. This eliminates the need for a costly cooling water supply and troublesome discharge facility.

ALTERNATE OPTION NO ULTRASONIC

CUDR style units are produced with immersion dip chamber with no ultrasonics : Models CLDR-15, 30 and 50. The equipment is also available with cooling of the vapor by tap water instead of the built-in refrigeration system, Models CUDW-15, 30 and 50 and Models CLDW-15, 30 and 50.

SOLVENT DISTILLATION

Contaminated solvent disposal problems are virtually eliminated by the ability of these units to continuously reclaim their own degreasing solvent.



SPECIFICATIONS:

	CUDR-15	CUDR-30	CUDR-50
DIMENSIONS (INCHES)	DIMENSIONS (LEFT TO RIGHT, FRONT TO BACK, TOP TO BOTTOM)		
OVERALL	22 x 21 x 39	26 x 22 x 46	30 x 23 x 49.5
ULTRASONIC CHAMBER	6.5 x 10 x 5	8 x 11 x 7.5	10 x 12 x 10
BOIL CHAMBER	6.5 x 10 x 5	8 x 11 x 6	10 x 12 x 8
VAPOR ZONE	14 x 10 x 7	17 x 11 x 9	21 x 12 x 10
TOTAL SLOVENT CAPACITY	3 GALLONS	5 GALLONS	9 GALLONS
DISTILLATION RATE (NO LOAD)*	1.25 GAL/HOUR	3.5 GAL/HOUR	7 GAL/HOUR
REFRIGERATION UNIT	1/5 H.P.	½ H.P.	¾ H.P.
POWER REQUIRED	115V, 60 Hz, 1 PH, 12 A	230V, 50/60 Hz, 1 PH, 10 A	230V, 50/60 Hz, 1 PH, 10 A
SHIPPING WEIGHT	215 LBS.	280 LBS.	380 LBS.
ACCESSORY BASKET	MODEL BD-15	MODEL BD-30	MODEL BD-50

* BASED ON FREON TF GENESOLV D

** Specifications on larger models like CUDR-70, 90, 120 available upon request.



Aqueous System “CPS” Series

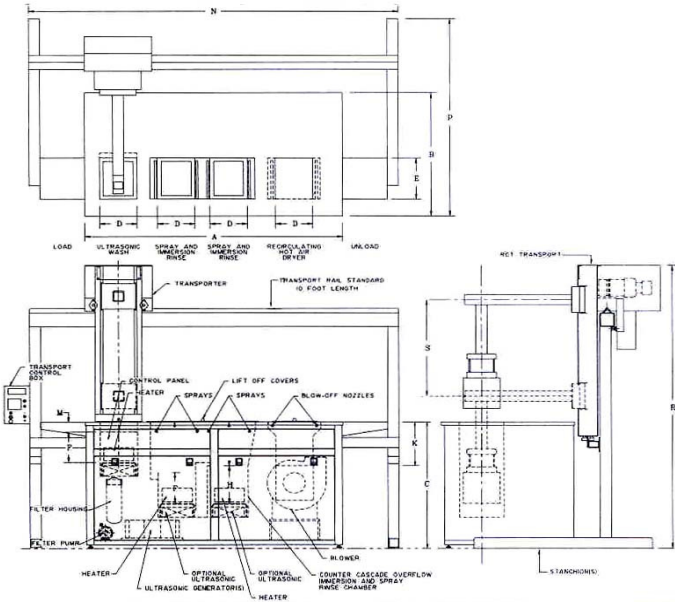
Sonicor “CPS” series consoles offer a complete parts cleaning process line, housed in a rugged, all stainless cabinet/countertop assembly. Standard consoles are available in either three stage CPS3, (ultrasonic clean/rinse/dry), or four stage CPS4, (ultrasonic clean/rinse/rinse/dry) models. All CPS series consoles are equipped with the following standard features:

- Sonicor “*BandScanner*” sweep frequency ultrasonics
- Spray-over immersion on rinse tanks
- Two stage counterflowing rinse (CPS4 only)
- Auto-reset cycle timers on ultrasonics & dryer
- Stainless drip diverters between process tanks
- Single point electrical supply connection
- Low level protection for all heaters & ultrasonics
- Stainless, front access fill & drain valves
- All Stainless cabinet, countertop, tanks & supply plumbing
- Adjustable overflow on rinse tanks
- Filter system on stage 1 ultrasonic cleaning tank
- Digital temperature controls on all process tanks
- Stainless lift-off cover on dryer
- Single point drain plumbing connection
- CPVC drain plumbing

CPS series consoles are available in four tank size configurations. See Sonicor product specification for detailed information about dimensions, capacities and detailed specifications for each model.



CPS4-1620 with RCT-50 automation process control system



Automatic Transport System

The Computer Programmable Robotic Transporter not only provides unattended transfer of parts through a multi stage process, but also operates and monitors the various functions of cleaning, rinsing and drying operations including Auto-Cover. The contaminated parts are processed through a progression of increasingly clean, ultrasonic baths, and rinses to a hot air dryer, from which they emerge clean, dry and residue free.



THE BEST IN CHEMICAL

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