For Critical Applications

equitron®

AUTOCLAVE PRAANO Series

CE

www.medicainstrument.com

Integrated technologies to meet the most exacting sterilisation requirements

equitron® PRAANO *Series Autoclaves are ideal for Pharma, QC, QA, Micro, R&D Labs, Production, Bio Labs and Healthcare.*

With five decades of experience in steam pressure sterilisation, Medica's *EQUITRON PRAANO* Autoclave empowers you to take total control over your autoclaving process.

With built in monitoring and documenting features of pressure & multiple temperature sensors with control on all, PC connectivity and many more, the PRAANO is a work horse which will do a variety of sterilisation jobs with consistency and reliability.

At the heart of PRAANO is the touch screen graphical Programmable Logic Controller which delivers exceptional temperature management with progressive notifications.

- *Leakproof sealing with registered gasket design*
- *Over pressure safety*
- *Safe and sturdy chamber manufactured to ASME standards in SS 304*
- *Better penetration with SS wire mesh carriers*
- *Independent safety for over temperature*
- *Saves Power bills by 20~30%*
- *Dual scales of psi and kPA with temperature readout on pressure gauge*
- *Easy draining of chamber*
- *Abrasion resistance and durable finish by heat cured epoxy coating on stainless steel 304 exterior*
- *Convenient and fast single locking of lid*
- *Heater and pressure interlock for lid lock safety*
- *Effortless lifting of lid with assisted support*
- *Automatic water filling, purging and exhaust*
- *Touchscreen PLC for accurate temperature control (control on all temp channels), built in recipes, power failure restore and password protection upto 3 levels*
- *User settable alphanumeric batch number and operator name.*
- *Online documenting to DMP of 4 temperature sensors with F_0, plus one pressure channel along with status information. PC connectivity (offline)*
- *Service and calibration reminders*
- *Electrical on/off safety switch*
- *Easy manoeuvrability and placement*

SAFETY FOR

Over pressure

Over temperature

Electric overload

Lid locked under pressure

Process will not start if lid not locked fully

Audio and visual alarms for sensor open and over pressure

Chamber manufactured and tested as per ASME guidelines

OPTIONS

(to be confirmed at time of placing order)

#AB: Support Pressure for liquid sterilisation especially in sealed pouches

#PP: Free steaming for grade heating and deeper penetration of porous loads as well as reducing lag times of media in flasks

#DC: Drain (exhaust) cooling for protecting the drain utilities from the scorching steam exhaust

Specimen of the Documentation Cycle

MEDICA INSTRUMENT MANUFACTURING COMPANY

DATE :04-10-2012 CUSTOMER: THE BEST PHARMA COMPANY BATCH NO: 01
EQUIPMENT NO: 7441pr RECIPE: UNWRAPPED
SET TEMP: 121.0 DEG C HOLD TIME: 30 min
OPERATOR: ABC +VE Pulsing:00

Time	(A)DEG C	(B)DEG C	(C)DEG C	(D)DEG C	(P)mBar	(F_0)	STATUS
10:33:05	101.6	108.9	101.9	102.0	1153	0.00	HEATING
10:34:05	103.2	103.5	103.6	103.6	1259	0.00	HEATING
10:35:05	104.8	105.1	105.1	105.2	1153	0.00	HEATING
10:36:05	106.4	106.7	106.7	106.8	1107	0.00	HEATING
10:37:05	108.0	108.2	108.2	108.3	1425	0.00	HEATING
10:38:05	109.5	109.7	109.8	109.9	1535	0.00	HEATING
10:39:05	111.0	111.3	111.3	111.3	1601	0.00	HEATING
10:40:05	112.5	112.7	112.7	112.8	1744	0.00	HEATING
10:41:05	114.0	114.1	114.1	114.2	1841	0.00	HEATING
10:42:05	115.5	115.7	115.6	115.7	1849	0.00	HEATING
10:43:05	116.9	117.0	117.0	117.1	1951	0.00	HEATING
10:44:05	118.4	118.5	118.5	118.5	1985	0.00	HEATING
10:45:05	119.9	119.9	119.9	120.0	2040	0.00	HEATING
10:46:05	120.3	120.2	120.2	120.2	2138	0.00	HEATING
10:47:31	121.3	121.3	121.3	121.3	2185	0.00	STERILE
10:48:31	122.1	122.0	122.0	122.0	2203	1.26	STERILE
10:49:31	122.4	122.1	122.0	122.0	2262	2.50	STERILE
10:50:31	122.1	121.8	121.7	121.7	2198	3.70	STERILE
10:51:31	121.9	121.6	121.5	121.5	2184	4.93	STERILE
10:52:31	121.9	121.6	121.5	121.5	2163	6.20	STERILE
10:53:31	121.9	121.5	121.5	121.5	2112	7.44	STERILE
10:54:31	121.9	121.6	121.5	121.5	2156	8.55	STERILE
10:55:31	122.0	121.6	121.6	121.6	2148	9.87	STERILE
10:56:31	122.1	121.7	121.6	121.6	2154	11.12	STERILE
10:57:31	122.0	121.6	121.5	121.5	2168	12.39	STERILE
10:58:31	122.0	121.6	121.5	121.5	2172	13.65	STERILE
10:59:31	122.1	121.6	121.5	121.5	2156	14.65	STERILE
11:00:31	122.1	121.5	121.5	121.5	2197	15.30	STERILE
11:01:31	122.1	121.5	121.4	121.4	2133	16.05	STERILE
11:02:31	122.2	121.6	121.5	121.6	2168	17.09	STERILE
11:03:31	122.1	121.5	121.4	121.4	2173	18.55	STERILE
11:04:31	122.0	121.6	121.5	121.6	2190	19.78	STERILE
11:05:31	122.1	121.5	121.4	121.4	2140	21.04	STERILE
11:06:31	122.2	121.6	121.5	121.6	2149	22.25	STERILE
11:07:31	122.1	121.5	121.4	121.4	2178	23.60	STERILE
11:08:31	122.2	121.6	121.5	121.6	2166	24.65	STERILE
11:09:31	122.1	121.5	121.4	121.4	2139	25.85	STERILE
11:10:31	122.2	121.6	121.5	121.6	2142	27.03	STERILE
11:11:31	122.1	121.5	121.4	121.4	2144	28.05	STERILE
11:12:31	122.2	121.6	121.5	121.6	2197	29.46	STERILE
11:13:31	122.1	121.5	121.4	121.4	2169	30.66	STERILE
11:14:31	122.2	121.6	121.5	121.6	2142	31.55	STERILE
11:15:31	122.1	121.5	121.4	121.4	2138	32.02	STERILE
11:16:31	122.1	121.6	121.5	121.6	2132	33.12	STERILE
11:17:31	122.1	121.5	121.4	121.4	2160	34.70	STERILE
11:18:31	120.3	120.2	120.2	120.2	2060	34.70	EXHAUST
11:19:31	115.7	114.9	115.3	114.8	1670	34.70	EXHAUST
11:20:31	112.1	113.4	113.1	112.9	1590	34.70	EXHAUST
11:21:31	110.5	109.9	110.1	110.0	1480	34.70	EXHAUST
11:22:31	108.3	107.1	107.9	108.0	1414	34.70	EXHAUST
11:23:31	106.0	105.2	103.2	104.0	1260	34.70	EXHAUST

END OF CYCLE

UTILITIES REQUIRED

Electric Supply: 230VAC, 50Hz, single phase

Distilled / demineralised water line: with line pressure between 0.5 to 2.0 bar

Exhaust / drain line: capable of handling steam temperatures up to 135 deg C (if drain cooling not opted for) and slopes downwards into the drain

Well ventilated room: with space of at least two feet on right side and one foot on back side

DOCUMENTING FEATURES

Real time printing of four temperature sensors along with F_0 summation, plus pressure channel

Printing in smart tabular format with date, time, batch number, operator name and status

Prints online to external DMP (part of standard supply)

PC connectivity (offline)

Enables authentic documenting of every autoclave cycle

Technical Data

Model	Unit	#7440PR	#7441PR	#7451PR	#74403PR
Capacity	L	75	113	180	75
Working Chamber Dimensions	mm	Ø 400 x 600	Ø 450 x 710	Ø 550 x 760	Ø 400 x 600
Loading Type	-	Top			
Carrier Dimensions	mm (nos)	Ø 350 x 550 (1) with separator	Ø 400 x 330 (2)	Ø 500 x 350 (2)	Ø 350 x 550 (1) with separator
Dressing Drum (Optional)	mm (inch) part code	Ø 380 x 300 (15x12") #S0082-25 (2 reqd)	Ø 380 x 300 (15x12") #S0082-25 (2 reqd)	NA	Ø 380 x 300 (15x12") #S0082-25 (2 reqd)
Heater power	kW	3.0	3.5	5.0	3.0
Temperature Range upto	ºC	122.0	122.0	122.0	135.0
Operating Presure	Psi / kPA	15 / 103.4	15 / 103.4	15 / 103.4	30 / 206.8
Duty Cycle	-	Four cycles in eight hour shift with a 30 minute cooling period			
Erlenmeyer Flasks capacity 250 ml	nos	9 x 2	14 x 2	22 x 2	8 x 2
Erlenmeyer Flasks capacity 500 ml	nos	7 x 2	9 x 2	14 x 2	5 x 2
Erlenmeyer Flasks capacity 1000 ml	nos	4 x 2	5 x 2	9 x 2	3 x 2
Duran Bottles capacity 250 ml	nos	16 x 2	21 x 2	34 x 2	11 x 2
Duran Bottles capacity 500 ml	nos	9 x 2	14 x 2	22 x 2	8 x 2
Duran Bottles capacity 1000 ml	nos	7 x 2	9 x 2	14 x 2	5 x 2
Outer Dimensions (WxDxH + lid open)	mm	690 x 680 x 1040 + 440	740 x 730 x 1120 + 480	840 x 830 x 1170 + 580	690 x 680 x 1040 + 440
Packing Dimensions (WxDxH)	mm	970 x 720 x 1290	1020 x 770 x 1350	1150 x 890 x 1420	970 x 720 x 1290
Gross Weight	kg	97	121	150	97
Options (to be ordered along with PRAANO order)					
#DC	-	Drain (exhaust) cooling			
#PP	-	Positive pulsing			
#AB	-	Air Ballast through micron filter (post sterilisation)			

All electrical appliances work on 230V AC, 50Hz, single phase. Other Voltages available on request.
Due to continuous improvement in design, the product supplied may have modified features.

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SWISS CERTIFICATION SCES 047 ISO 13485

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