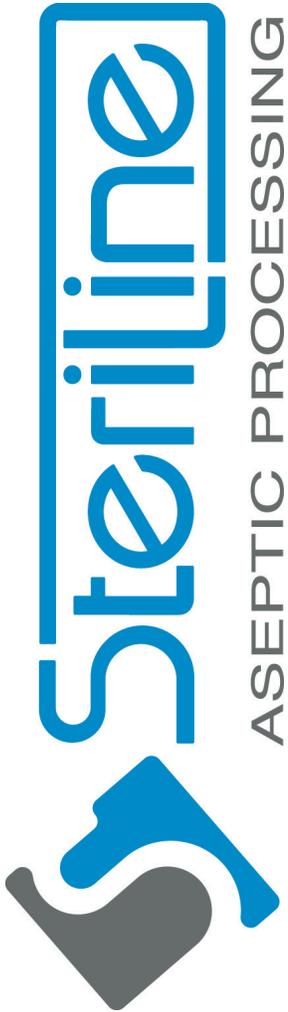


COMPLETE COMPACT FILLING LINE [VIALS, CARTRIDGES, SYRINGES OR AMPOULES]



STERILINE'S COMPLETE COMPACT FILLING LINE

A complete compact system for processing vials, cartridges, syringes or ampoules. The system includes a Rotary Washer, Depyrogenation Tunnel, Filler/Stoppering/Capper System and Isolator or RABS. Our Complete Compact Filling line features the smallest foot print in the world, suitable for clinical manufacturing, laboratory and R and D applications. With a small foot print (less than 15 feet long), the only thing big about this system is the energy saving features it offers. Several models and options are available for a customized solution to your specific application.

Steriline's RA Series Rotary Washers utilize typical European style gripper mechanisms to handle the glassware, ensuring thorough and consistent washing. The washer is equipped with needles which are lifted to penetrate the glassware and then spray the appropriate washing and drying fluids. After washing, the glassware is up-righted and directly discharged onto the Depyrogenation Tunnel.



ST COMPACT FILLER 8 17



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COMPLETE COMPACT FILLING LINE [CARTRIDGE, AMPOULE OR SYRINGE]

The vials pass through the inlet chamber then enter the hot chamber where the depyrogenation process takes place. The glassware then enters the cooling chamber to cool down to a suitable temperature before discharge onto the rotary in-feed table of the filler. The filler can be equipped for any type of pump with several purging options. The filler and capper are separated to ensure process control over the separate functions. After filling, the vials can be immediately capped or removed for Lyophilization. Many options are available, including the ability to capper vials after lyophilization, 21 CFR Part 11 compliance, sterilizable cooling zone, various enclosure types over the filler, etc. An exterior vial washer is also available

to ensure the safety of your workers in downstream packaging areas. The depyrogenation tunnel has the added advantage of the air being recycled in each of the three chambers due to the absence of intake and exhaust ducts in the hot zone. The pressure differential between the cooling chamber and the inlet chamber allows for approximately 100 air changes per hour in each chamber. The highly accurate automatic control of air speed in the chambers and of the pressure control inside the tunnel has always been one of the greatest advantages of Steriline's depyrogenation tunnels. Combine the compact line with other processing options and modular cleanrooms.

THE COMPLETE COMPACT FILLING LINE TECHNICAL DATA

VIAL SIZE [mm]	DIAMETER [mm]	HEIGHT [mm]	RA-V4, ST00, VFCM50 OUTPUT	RA-V4, ST0, VFCM100 OUTPUT
2R	16	35	50	100
4R	16	45	40	100
6R	22	40	30	65
8R	22	45	30	65
10R	24	45	22	55
15R	24	60	20	40
20R	30	55	17	35
25R	30	65	15	35
30R	30	75	12	35
5H	20.8	41.3	20	65
10H	25.4	53.5	10	35
20H	32	58	8	21
30H	36	62.8	6	16
50H	42.5	73	4	10
100H	51.6	94.5	2	6

The indicated performance data shown in the table above is the maximum system performance, actual output depends on: product properties and containers.



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