



**YCP - Yarn Conditioning Plant**

# Technical Specification : (Standard Equipment)

## SIEGER Yarn Conditioning Plant - Cylindrical

DESCRIPTION		YCP-200	YCP-350	YCP-600	YCP-1000	YCP-1250	YCP-1500	YCP-2000
Capacity / Batch *	Kgs	200	350	600	1000	1250	1500	2000
Production / Day *	Ton	up to 4.6	up to 8.1	up to 13.8	up to 23.0	up to 28.8	up to 34.5	up to 46
Diameter	mm	1400	1400	1800	2000	2000	2000	2000
No. of Trolleys / Batch	nos	1	3	3	4	5	6	8
Loading Type		Manual	Auto	Auto	Auto	Auto	Auto	Auto
Heating Type	Std	Electric	Electric	Electric	Electric	Electric	Electric	Electric
	Opt*-1	Steam	Steam	Steam	Steam	Steam	Steam	Steam
	Opt*-2	Gas	Gas	Gas	Gas	Gas	Gas	Gas
Required Floor Space in mm	L	6,000	11,000	11,500	13,000	14,350	16,100	19,000
	W	3,800	4,400	5,200	5,300	5,300	5,300	5,300
	H	2,500	2,500	3,300	3,300	3,300	3,300	3,300
Size of the Foundation in mm	L	4,100	5,660	6,000	6,950	7,500	8,500	9,800
	W	2,400	2,400	3,100	3,300	3,300	3,300	3,300
M/c Pit - Below the ground level	H1	300	465	575	600	600	600	600
Auto loading pit-Below the ground level	H2	NA	365	340	340	340	340	340
Scissor Type - Working space	mm	1000	1000	1000	1000	1000	1000	1000
Pendent Type - Working Space	mm	NA	1000	1000	1000	1000	1000	1000
Vacuum Pump Motor for water tub	Kw	5.5 7.5*	5.5 7.5*	5.5 7.5*	11 15*	11 15*	11 15*	11x2 15x2*
Peak Load	Kw	36	60	90	120	150	180	210
Other Motors	Kw	7	8	8	14	14	14	26
Total Connected Load	Kw	43	68	98	134	164	194	236
Plant wight in TON	Tons	2.0	3.0	3.5	3.5	4.0	5.0	5.5

\*Production / Day - Depends on capacity / batch & process parameters.

\*Capacity depends on standard package diameter 210mm, standard package weight 1.890 kgs.

\*High temperature special module in available for **Twist Setting**.

\*Technical details given are subject to change without prior notice.

### Advantages

- Optimum moisture gain.
- Additional weight realisation upto 1.7%
- Fly & fluff liberation reduced upto 60%
- Higher elongation and work capacity for yarn
- Improved weaving and knitting performance
- Reduced snarling.

### Features

- Higher vacuum
- Power failure bypass programme
- Higher resolution sensors
- Flexible software
- Wide range of materials

### Variety of Yarns

Cotton waxed / unwaxed, Polyester Cotton, Polyester Viscose, 100% Viscose, Polyester wool / worsted, Dyed yarn, Melange yarn, Lycra blends, High twisted yarn and Industrial yarn.

### Principle of Conditioning

In Sieger YCP, conditioning is carried out by cold saturated Steam generated inside the plant. Steam is generated in accordance with the vapour pressure curve of steam, to maintain homogeneity.

### Effect

Homogeneous penetration of moisture is ensured by several stages of evacuation and impregnation with saturated steam. Precision sensors with perfect reproduction system ensures consistent performance within and between batches for years of operation.

### Parameters involved

Material	Temp. °C	Soak Time	Total Time
Cotton Waxed	55 - 60	25 - 30	55 min
Cotton Unwaxed	60 - 80	20 - 25	60 min
P/C, P/V	80 - 90	30 - 40	60 min
Viscose	60 - 65	25 - 30	55 min
Wool	70 - 80	20 - 25	60 min

Process fine tuning is done at site depending on the yarn to obtain maximum results. Constant research has enabled us to perfect the art of conditioning.



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