



**YCP NG Cubical - Yarn Conditioning Plant**

# Technical Specification :

## SIEGER Yarn Conditioning Plant - NG - Cubical

DESCRIPTION		NG 1000	NG 1250	NG-1500	NG-2000
Capacity / Batch	Kgs	1000	1250	1500	2000
Production / Day	Ton	up to 23.00	up to 28.80	up to 34.50	up to 46.00
No. of Trolleys / Batch	mm	4	5	6	8
Loading Type		Auto	Auto	Auto	Auto
Heating Type	Std	Electric	Electric	Electric	Electric
	Opt *-1	Steam	Steam	Steam	Steam
	Opt*-2	Gas	Gas	Gas	Gas
Required Floor Space	L	12,860	14,700	16,450	19,650
	W	6,400	6,400	6,400	6,400
	H	2,300	2,300	2,300	2,300
Basic size of the Plant	L	4,200	5,100	6,100	7,500
	W	2,300	2,300	2,300	2,300
	H	2,800	2,800	2,800	2,800
Size of the Foundation	L	6,850	7,650	8,450	10,050
	W	6,400	6,400	6,400	6,400
M/c Pit-Below the ground level	H1	400	400	400	400
Auto loading pit-Below the ground level	H2	340	340	340	340
Sliding Door	mm	2500	2500	2500	2500
Pendent Type	mm	1000	1000	1000	1000
Vacuum Pump Motor	Kw	11 / 15*	11 / 15*	11 / 15*	11x2 / 15*x2
Peak Load	Kw	120	150	180	210
Other Motors	Kw	14	14	14	25
Total Connected Load	Kw	134	164	194	235
No of Layers / pallet	Nos	8	8	8	8
No of Pallet	Nos	2	3	4	5
Pallet size - L x W x H - mm	mm	1200 X 1200 X 1300	1200 X 1200 X 1300	1200 X 1200 X 1300	1200 X 1200 X 1300

\*Production / Day - Depends on capacity / batch & process parameters. \*Capacity depends on standard package diameter 210mm, standard package weight 1.890 kgs.

\*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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