



**YCP NG UF (Pitless) - Yarn Conditioning Plant**

# Technical Specification :

## SIEGER Yarn Conditioning Plant - NG UF (Pitless)

DESCRIPTION		NG-UF -600	NG-UF -800	NG-UF -1200	NG-UF -1600
Capacity / Batch	Kgs	600	800	1200	1600
Production / Day	Ton	up to 13.80	up to 18.40	up to 27.60	up to 36.80
No. of Trolleys / Batch	mm	2	3	4	6
Loading Type		Manual	Manual	Manual	Manual
Heating Type	Std	Electric	Electric	Electric	Electric
	Opt *-1	Steam	Steam	Steam	Steam
	Opt*-2	Gas	Gas	Gas	Gas
Required Floor Space	L	10,100	10,100	11,000	11,000
	W	6,000	6,000	7,800	7,800
	H	2,330	2,330	2,500	2,500
Basic size of the Plant	L	4,100	5,100	4550*	4800*
	W	1,600	1,600	2,500	2,500
	H	2,400	2,400	2,600	2,600
Size of the Foundation	L	6,100	6,100	5,000	5,500
	W	4,000	4,000	5,000	5,500
M/c Pit-Below the ground level	H1	NA	NA	NA	NA
Sliding Door	mm	2500	2500	4600	4600
Pendent Type	mm	1000	1000	1000	1000
Vacuum Pump Motor*	Kw	11 / 15*	11 / 15*	11 / 15*	11 / 15*
Peak Load	Kw	90	120	150	180
Other Motors	Kw	14	14	14	14
Total Connected Load	Kw	104	134	164	194
Plant wight in Ton	Tons	4.0	4.5	5.0	6.0

\*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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