



YCP NG HI-Cubical - Pallet Yarn Conditioning Plant

Technical Specification :

YCP NG HI-Cubical - Pallet Yarn Conditioning Plant

| DESCRIPTION | | NG-HI-2 | NG-HI-3 | NG-HI-4 |
|------------------------------|---------|--------------------|--------------------|--------------------|
| Capacity / Batch - Kgs | Kgs | 1250 | 1800 | 2450 |
| Production / Day - Ton | Ton | 28.25 | 42.38 | 56.51 |
| No. of Pallets/ Batch | Nos | 2 Pallets | 3 Pallets | 3Pallets |
| Loading Type | | Auto | Auto | Auto |
| Heating Type | STD | Electric | Electric | Electric |
| | OPT *-1 | Steam | Steam | Steam |
| | OPT*-2 | Gas | Gas | Gas |
| Required Floor Space -mm | L | 26470 | 30520 | 34570 |
| | W | 6500 | 6500 | 6500 |
| | H | 4500 | 4500 | 4500 |
| Basic size of the Plant -mm | W | 3100 | 4300 | 5650 |
| | H | 2100 | 2100 | 2100 |
| | L | 3600 | 3600 | 3600 |
| Door Type | | Double/ sliding | Double/ sliding | Double/ sliding |
| Pendent- type | | 1000 | 1000 | 1000 |
| Vacuum Pump Motor | Kw | 11x2 15*x2 | 11x2 15*x2 | 11x2 15*x2 |
| Peak Load -- KW | Kw | 150 | 180 | 210 |
| Other Motors KW | Kw | 30 | 30 | 35 |
| Total Connected Load - KW | Kw | 180 | 210 | 245 |
| Pallet size - L x W x H - mm | mm | 1200 X 1200 X 2600 | 1200 X 1200 X 2600 | 1200 X 1200 X 2600 |
| Layer of the Pallet | nos | 13 | 13 | 13 |

*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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