



YARN CONDITIONING MACHINE

Procon

apm United Group uses the thermo dynamic working concept for conditioning of yarn with uncompromised quality and with technological excellence in both, performance and reliability. Procon process produces reliable and consistent results with excellent and measurable improvements in quality.

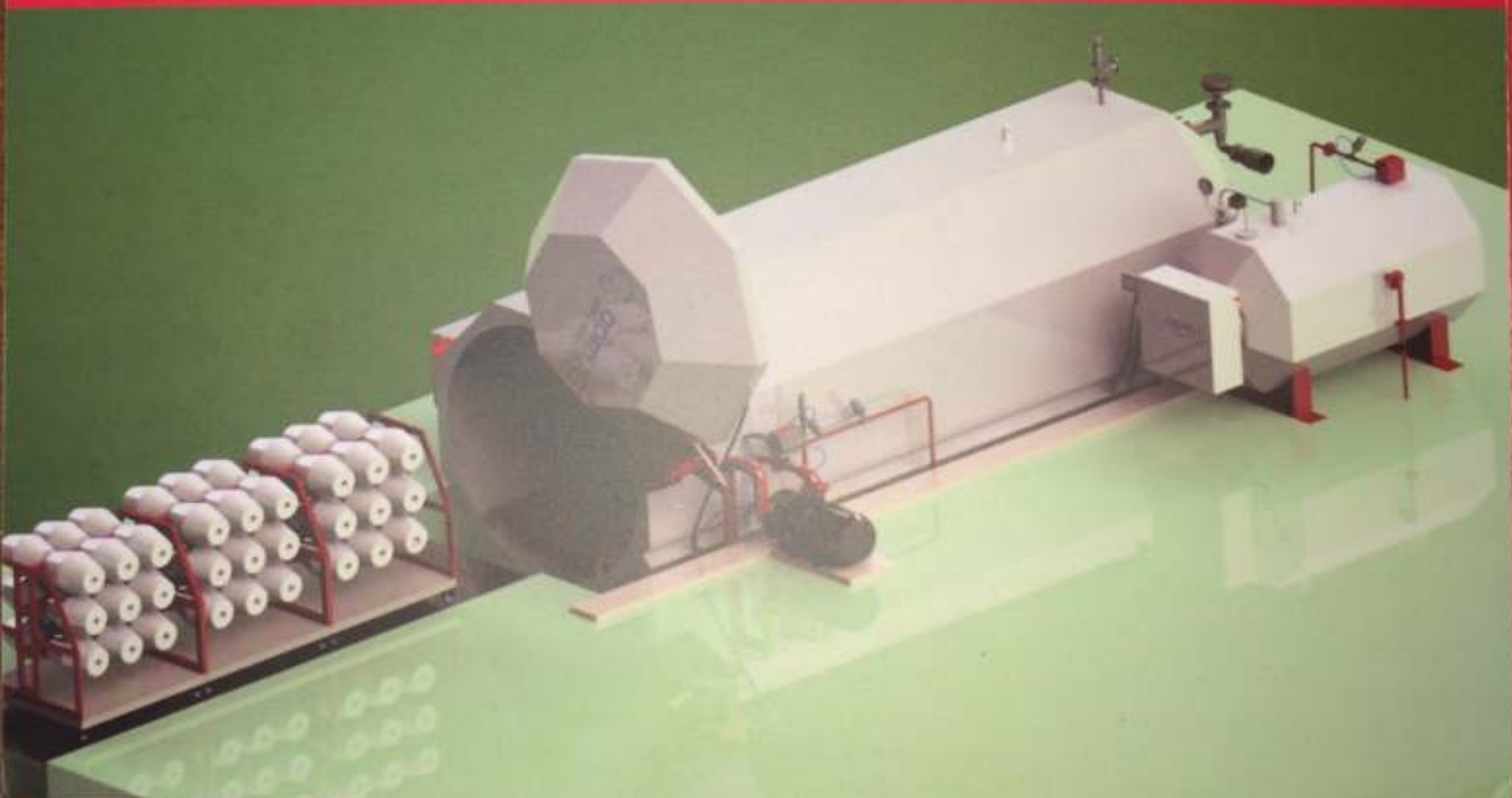
This system is comprised of advanced technology and world class quality materials. The latest technological advances to guarantee even treatment of the textile materials and to assure the correctness of the process with low amount of energy usage.

The aim of the Procon is provide an economical device for penetrating the necessary moisture in a short time, in order to achieve a lasting improvement in quality.

Our ideas with innovation and reliability have been our strength and the commitment to deliver the best product to our customers by distinct advantage in reducing the different type of yarn faults.

The following effects would be envisaged by Procon

- » Twist setting – Preventing snarling.
- » Better dye affinity – Eliminating static electricity.
- » Influencing the cloth handle – Preventing crease-proneness.
- » High bulking – Humidifying.
- » Dye fixing – De-creaking



apmUG *Procon* system is absolutely suitable for Cotton, Cotton Mercerized, Wool, Silk, Polyester, Viscose-Rayon, Blends like PV/PC in Cop, Cone and hank form can be treated for conditioning. It helps the yarn to attain the standard moisture regain value of the fibre and improves the physical properties of the yarn.

Our standard machines also suitable for all low temperature treatment applications up to 95°C, available with latest features.



Procon equipped with international safety features in order to release the excess pressure, thermostat protection etc. Single stage vacuum pump and the water level sensor interfaced with controller for automatic feeding of inlet water in order to avoid the separate water pump.

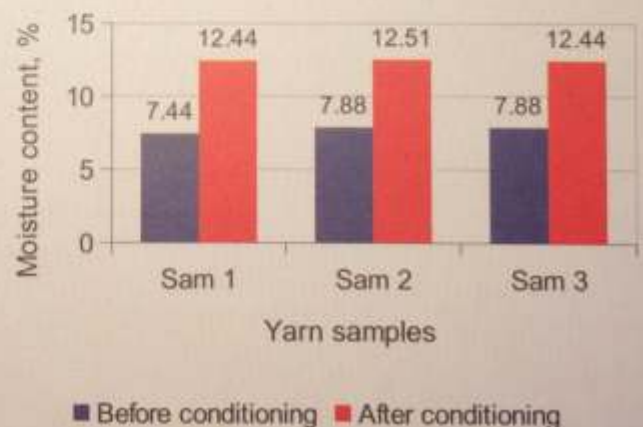
Vessels are constructed with high quality corrosion resistant materials and insulated for lower energy consumption.

User friendly automatic platform drive system for loading and unloading of the materials. Vessels are made as per the international quality standards with three stages inspection process.

Well proven suck back system in order to increase the efficiency and quality.

FEATURES:

- ▶▶ Logic controller for power failure safety
- ▶▶ Vacuum upto 95% ensures maximum moisture gain
- ▶▶ In-built and separate steam chambers are available.
- ▶▶ Maximum heat setting upto 120°C
- ▶▶ Lesser maintenance cost
- ▶▶ Lower power consumption



BENEFITS :

- > Upto 20% greater efficiency in knitting
- > Increase in single yarn strength and elongation
- > Less fly. It helps if the yarn is running on a closer running gauge machines
- > Increased take up of size, enhanced level of efficiency in weaving
- > Uniform moisture and friction valves
- > Free from electrostatic
- > Regular stitch formation
- > Fewer needle breaks
- > Better hairiness
- > Optimum moisture gain

Technical Specification

DESCRIPTION	PROCON 2100	PROCON 1800	PROCON 1500	PROCON 1200	PROCON 1000	PROCON 600	PROCON 350
Vessel length, mm	7150	6350	5550	4750	4000	3150	2400
Vessel Diameter, mm	2000	2000	2000	2000	2000	1800	1800
Energy Form	Electrical /Steam / Dual						
Control Panel operation	PLC with touch screen						
Heater Capacity, KW	180	144	144	126	108	72	48
Vacuum Pump, KW	15	15	11	11	7.5	7.5	5.5
Total load, KW	197	161	157	139	110	72	52
Material loading	Fully Automatic						
Operating Pressure Range, bar	+1 to -1						
Operating Temperature Range, °C	Upto 120						
Water requirement for Steam (Per Batch)	47 Litres	40 Litres	33 Litres	25 Litres	20 Litres	15 Litres	12 Litres
Power consumption (kWh/Batch)	30 - 35	27 - 30	23 - 26	19 - 22	15 - 18	9 - 11	7 - 9
Production per Day, MT **	44-48 MT	38-42 MT	32-36 MT	26-30 MT	20-24 MT	12-16 MT	6-10 MT
Capacity per Batch, kG *	Upto 2100	Upto 1800	Upto 1500	Upto 1200	Upto 900	Upto 600	Upto 350

* - ** Depends upon the cone diameter/cycle/wt. Process temperature/ holding time

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