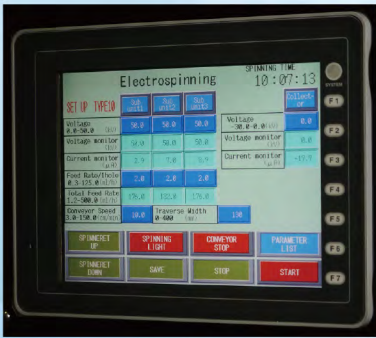
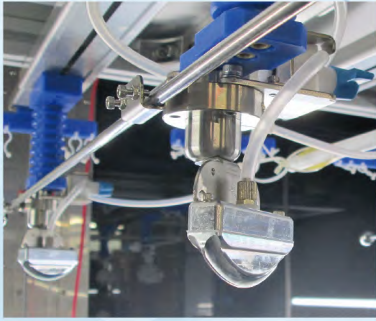


High-speed Spinning of Nonwovens of 1 meter wide. Electrospinning System of High Productivity and Operability.

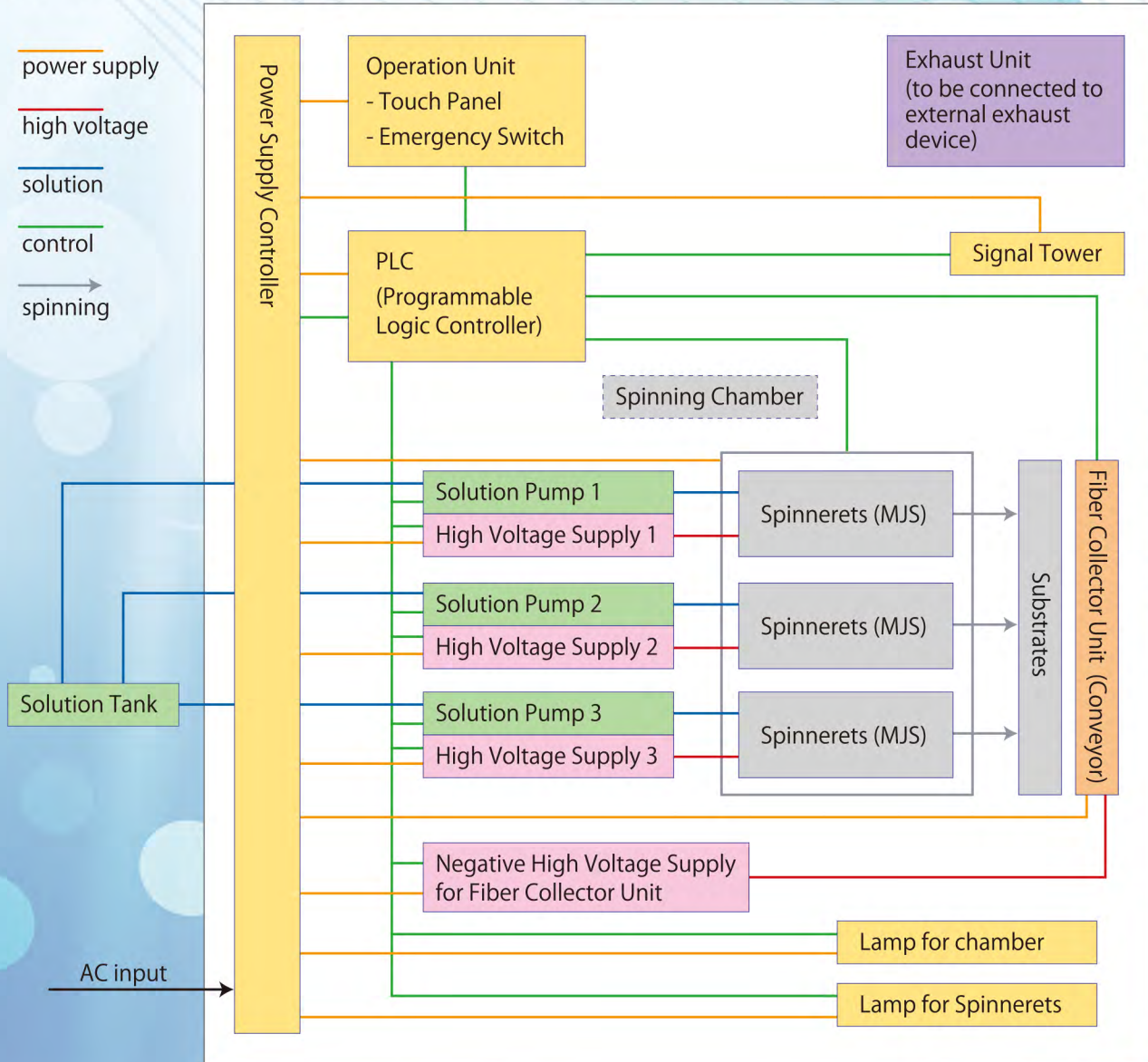


The model NF-1001 is an electrospinning system to spin nanofiber nonwovens to be used for pilot production. A variety of solutions can be efficiently spun into nonwoven rolls of 1 meter wide (effective width). The system is also equipped with several devices thinking about operator's safety.

- Spinning nonwovens of 100um thickness**
 The system can spin nonwoven membranes of 100um-thick (or more) by integrating +50kV and -30kV high voltage supplies and securing 300mm spinning distance.
- Multiple Jet Spinnerets (MJS) of original technology**
 The system integrates Multiple Jet Spinnerets (MJS) that MECC developed and realizes high productivity by changing number of pieces and models in accordance with solutions.
- Production of wide nonwoven rolls**
 A maximum of 21 pieces of MJS on 6 rows can be integrated to the system to spin nonwovens of 1.0m effective width at the speed of 1.5m/min.
- Easy connection with existing roll-to-roll unit**
 Existing roll-to-roll unit can be connected with the NF-1001 by inputting sync signals from the system.
- Thinking about operators' safety**
 The system is equipped with safety devices such as antistatic mechanism, strengthened glass, emergency switch and high voltage interlock.
- Quick and easy operation with a touch panel**
 The system employs a touch panel to enter and memorize spinning conditions for convenient operations.

【NF-1001 System Diagram】

Rack (Chassis)



Specifications (typical)

Dimensions	2900W x 2412L x 2330H (mm)	Installation of MJS	A total of 21 pieces on 6 rows can be installed.
Positive high voltage supply 1, 2, 3	0.5 to 50.0kV, 200μA	Traversing function	Top/bottom: 100 to 400mm Left/right: 0±200mm Speed: 18,000mm/min
Negative high voltage supply for collector	-0.5 to -30.0kV, 1000μA	Collector unit (conveyor)	Safety operation with substrates tension at 11kgf or less per substrates of 1250mm wide.
Power input	85 to 125VAC, 50/60Hz	Lamp	Available for chamber and spinnerets
Touch panel	To enter and memorize spinning conditions, and to operate the NF-1001	Safety features	<ul style="list-style-type: none"> • High voltage interlock • Emergency switch • Signal tower • Strengthened glass • Antistatic potential of chassis at 2000V or less • No use of inert gas when volatilizing solutions in spinning
Feed rate of solution pump 1, 2, 3	50 to 500ml/h		
Viscosity of solutions	200 to 5000mPa*s		
Capacity of solutions tank	310W x 380D x 570H (mm)		
Spinnerets (MJS)	Application of high voltage up to 50kV. Operation with aqueous solutions and organic solvents.		

※Specifications, performance or design may change without prior notice due to environments, solutions or spinning conditions.

MCE MECC CO., LTD.

196-1 Fukudo, Ogori-shi
Fukuoka 838-0137 JAPAN
Phone: +81-942-41-2200
Fax: +81-942-41-2205

E-mail: askmecc@mecc.co.jp

www.mecc-jp.com/nano