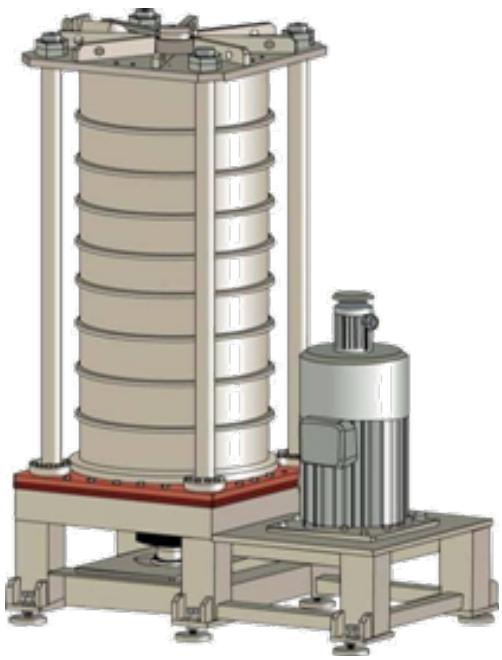
Specification

S Class

Designed in close cooperation with Samsung Fine Chemicals, the FMX-S class is our full-featured standard model, boasting premium specifications in construction materials, temperature tolerances, and chemical compatibility. The combination of its stainless-steel construction and high temperature and pressure ratings make the FMX-S Class ideal for the most demanding high-value applications, including chemical, petro-chemical, etc.

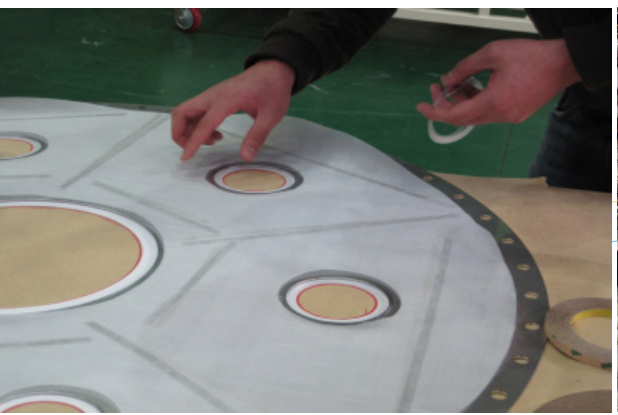
System

CLASS TYPE	STANDARD
Membrane Surface Area	1,021 ft2
Maximum Pressure	213 psi
Membrane Options	MF, UF, NF
Maximum Temperature	203 °F
Dimemsions(LxWxH)	7.2' x 4.6' x 12.1'
Weight	17,600 lbs
Motor	75 kW
Blade RPM	270
Power Requirement	380/460 v



Material

CHASSIS	SS 41 & SM45C
O-Rings	EPDM
Membrane Trays	STS 304
Vortex Generators	Noryl
Guide Rings	Noryl / STS304
Bottom Cover Plate	STS 304
Top Cover Plate	STS 304
Drive shaft	STS 304
Outer Shell	Coated SS41



Specification

E Class

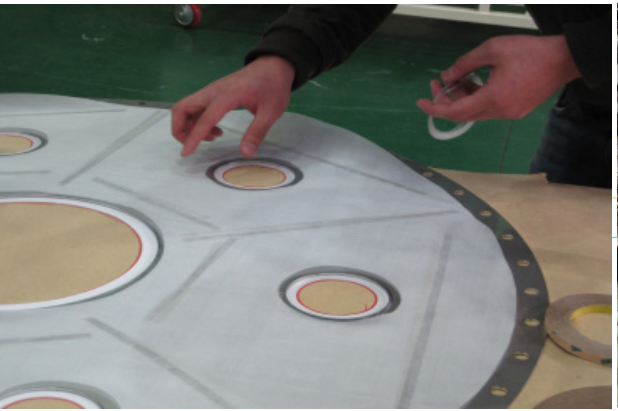
Specifically designed for lower temperature and pressure applications, the FMX-E class (Economic Model) provides a cost-effective option for alternative high-solid applications, including treatment of biogas plant digester effluent treatment, manufacturing processes in the food & beverage industry, etc. Use of fiberglass housing and basic mechanisms lowers equipment pricing up to 40% when compared to that of a standard FMX-S model at comparable capacity. However, because the reduction in cost comes at the expense of more comprehensive pressure and temperature ranges, the FMX-E Class is only suitable for MF and UF applications.

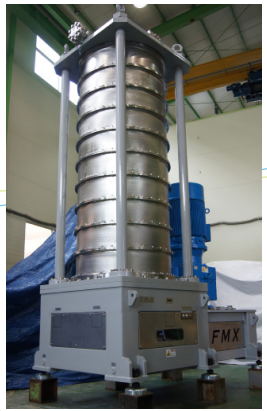
System

CLASS TYPE	ECONOMIC
Membrane Surface Area	431 ft2
Maximum Pressure	71 psi
Membrane Options	MF, UF
Maximum Temperature	158 °F
Dimemsions(LxWxH)	5.3' x 4.3' x 7.5'
Weight	5,510 lbs
Motor	30 kW
Blade RPM	270
Power Requirement	380/460 v

Material

CHASSIS	SS41 & SM45C
O-Rings	EPDM
Membrane Trays	Noryl
Vortex Generators	Noryl
Guide Rings	Noryl
Bottom Cover Plate	PE
Top Cover Plate	PE
Drive shaft	STS 304
Outer Shell	FRP





Specification

P Class

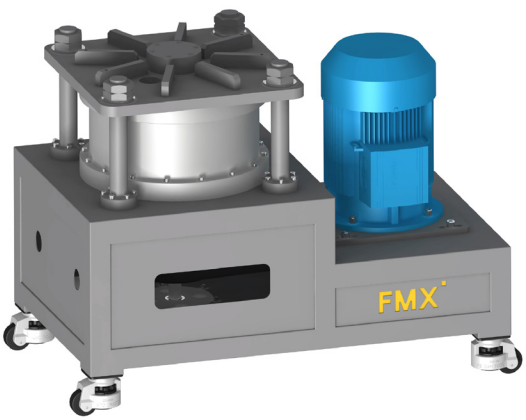
The FMX-P Class is a pilot-scale membrane filtration system whose size and capacity provide a more accurate design basis without sacrificing benefits of the smaller FMX-B class. Not only does the FMX-P class offer more than 80 times the membrane surface area of the B-class but it also contains a membrane module assembly very similar to those employed in full-scale FMX industrial units. Because its fluid mechanics and process designs are intended to simulate full-scale operation, the FMX-P class is extremely useful for estimating the performance factors of large-scale operations.

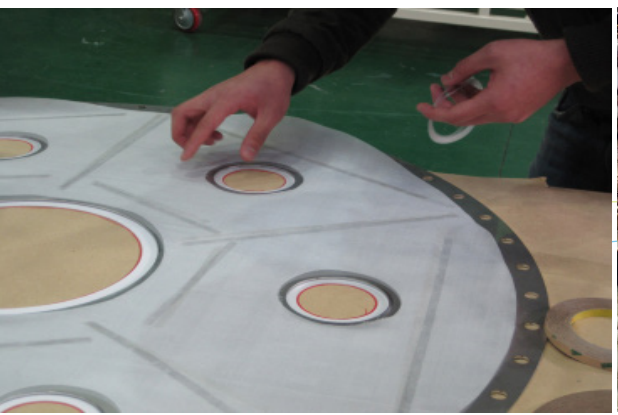
System

CLASS TYPE	PILOT
Membrane Surface Area	0.94 / 16 / 34 ft2
Maximum Pressure	435 psi
Membrane Options	MF, UF, NF
Maximum Temperature	203 °F
Dimemsions(LxWxH)	4' x 1.3' x (2'/3'/3.5)
Weight	1,235 / 1,680 / 1,800 lbs
Motor	7.5 kW
Blade RPM	290 ~ 350
Power Requirement	220/380 v

Material

CHASSIS	STS 304
O-Rings	EPDM
Membrane Trays	STS 304
Vortex Generators	Plastic
Guide Rings	Plastic / STS 304
Bottom Cover Plate	-
Top Cover Plate	-
Drive shaft	-
Outer Shell	-





Specification

B Class

The FMX-B Class is a bench-top model comprised of a single membrane module constructed from one membrane sheet under a vortex-generating blade. The small scale of the FMX-B class facilitates efficient membrane selection and analysis of budgetary design factors. Also Ideal for R&D, this model is highly effective for testing the feasibility of membrane separation for unconventional applications.

System

CLASS TYPE	BENCH SCALE
Membrane Surface Area	0.16 ft2
Maximum Pressure	213 psi
Membrane Options	MF, UF, NF
Maximum Temperature	158 °F
Dimemsions(LxWxH)	1' x 1.3' x 1'
Weight	189 lbs
Motor	0.2 kW
Blade RPM	800
Power Requirement	220 v (2P)

Material

CHASSIS	STS 304
O-Rings	EPDM
Membrane Trays	-
Vortex Generators	STS 304
Guide Rings	-
Bottom Cover Plate	-
Top Cover Plate	-
Drive shaft	-
Outer Shell	-