

Thermo Scientific Barnstead Mega-Pure Glass Stills

Barnstead Mega-Pure Glass Stills effectively remove inorganic solids, organics with boiling points higher than water, bacteria, and pyrogens. The stills are constructed of non-leaching components to ensure high purity water.



Product Features

- Contact with only glass, quartz and Teflon® components ensures ultimate purity and eliminates cross-contamination
- Choice of five production capacities
- Units are easily wall- or bench-mounted
- Vertical condenser design provides maximum purity
- High temperature cut-off shuts down the still if the temperature is too high, preventing heating element burnout
- Quick release cover provides easy cleaning access
- Connection to Automatic Collection System (ACS) assures a 24-hour automatic system
- Includes feed water solenoid valve for automatic operation
- Produces water with a resistivity of 1-10 MΩ·cm, depending on feed water purity

MP-1

- Compact, easy-to-use 1 L/hr glass still available with or without a storage bottle

MP-3A, MP-6A and MP-11A

- Ideal for larger volume demands with storage and options

MP-12A

- Built-in deionizer for pretreated feed to boiler. Distillate cooler allows product water to be used as it is produced, cooling it from 85-55°C for ease of handling. No need to wait for cooling

ROUTINE LABORATORY WORK

- Rinsing lab glassware
- Supplying autoclaves and ultrapure water systems
- Preparing and diluting buffers, reagents, and media

Quick Look Comparison

	MP-1	MP-3A	MP-6A	MP-11A	MP-12A
System features	Compact, easy-to-use	Stills for larger volume demands			Deionizer and distillate cooler
Product water capacity, L/hr	1	3	6	13	12
Cooling water capacity, L/hr	11.3	30.3	53	130	130
Number of heaters	1	1	2	4	4
Resistivity at 25°C, MΩ·cm	1-10	1-10	1-10	1-10	1-10

glass stills ideal for biological applications

Product Accessories

Automatic Collection System (ACS)

- All glass system designed to collect water from the Mega-Pure Glass Stills and control their operation
- Generous 45 L capacity
- Easy wall- or bench-mount
- Preset to shut off the power to the heaters and the water supply to the still after the bottle has collected approximately 45 L
- The system will automatically restart the still and refill the collection system when the purified water supply has been depleted to approximately 38 L

Pretreatment for hard water

- Allows for pretreating feed water to Mega-Pure Glass Stills
- Mega-Pure single or dual cartridge deionizer reduces scale build up and increases distillate purity
- Greater flexibility in meeting varying feed water qualities
- Temperature-compensated purity meter measures water quality and indicates when cartridges are exhausted
- Built-in drain valve for simple cartridge changes
- Large cartridge capacity for extended cartridge use
- Unit can be wall- or bench-mounted



Plastic Bottle (413964)



Glass Bottle (410535)



Automatic Collection System



Mega-Pure Deionizer D2

Thermo Scientific Barnstead Mega-Pure Glass Stills (continued)

Specifications and Ordering Information

Product Specifications				
Inlet water temperature°C (°F)	Vent temperature°C (°F)	Auto drain	Inlet pressure (psig)	Auto start/stop controls
4-37 (39.2-98.6)	85-96.7 (185-206)	No	20-100	Yes

System Options							
	Volume output (L/hr)*	Overall dimensions W x H x D in (mm)	Electrical (50/60 Hz)			Model number	
			Volts	Amps	Phase	Unit	6 L bottle included
MP-1**	1.4	18 x 34 x 9.75 (45.7 x 86.4 x 24.8)	120	9	1	A440266	A440267
			240	4.5	1	A7981	A7982
MP-3A**	3.4	23 x 45 x 12 (58.4 x 114.3 x 30.5)	240	11	1	A440367	–
			208	13	1	A440696	–
MP-6A**	6	23 x 45 x 12 (58.4 x 114.3 x 30.5)	240	21	1	A440518	–
			208	25	1	A440697	–
MP-11A**	13	29.2 x 53 x 14.4 (74.2 x 134.6 x 36.6)	240	42	1	A440118	–
			208	49	1	A440117	–
MP-12A Built-in deionizer (holds two cartridges) and distillate cooler	12	29.2 x 53 x 14.4 (74.2 x 134.6 x 36.6)	240	42	1	A442011	–
			208	49	1	A442012	–

Required Accessories		Model Number
Dual solenoid Required if using pretreated boiler feed water and untreated cooling water	MP-1 (240V), MP-3, MP-6A and MP-11A	440236
	MP-1 (120V)	RY798X2A
Deionization cartridges Required for MP-12A. See Optional Accessories		
Storage solutions See Storage Options		

Optional Accessories		Model Number
Single cartridge deionizer (D1) Single cartridge deionizer removes inorganic contaminants. Order one deionization cartridge to complete your system. Dimensions: W x H x D – 10.5 x 25.5 x 7.5 in (26.7 x 64.8 x 19 cm)		D440046
Dual cartridge deionizer (D2) Provides increased capacity with chlorine and organic removal. Order two deionization cartridges to complete your system. Dimensions: W x H x D – 16.75 x 25.5 x 7.5 in (42.6 x 64.8 x 19 cm)		D440066
Deionizer accessories	Still adapter kit Required to connect the Deionization System to any Mega-Pure Glass Still	440376
	Solenoid valve accessory kit For use with the D1 or D2 when used as stand alone units	440375
Deionization cartridges	High purity cartridge Used in the MP-12A, D1 and D2 unit for high purity	D400377
	High capacity cartridge Used in MP-12A, D1 and D2. Removes ionized solids for extended capacity	D400499
	Organic removal cartridge Used in D2 for organic and chlorine removal	D440265

*Volume Output for 208V units can be reduced up to 25% less than specified.



Storage Options		Model Number
Storage bottles For manual operation	Plastic bottle, 6 L capacity For use with MP-1 and MP-3A stills	413964
	Glass bottle, 9 L capacity For use with MP-1 and MP-3A stills	410535
	Glass bottle, 13 L capacity For use with any Mega-Pure Glass Still	413934
	Glass bottle, 45 L capacity For use with any Mega-Pure Glass Still	410164
Automatic collection system (ACS) For use with any Mega-Pure Glass Still. Collects up to 45 L of water and controls the still. Dimensions: W x H x D 16.25 x 38 x 16.25 in (41.3 x 96.5 x 41.3 cm)	Automatic collection system (ACS) unit	B440704
	Flexible tubing adapter kit Needed when the supplied glass tubing is either too long or too short to reach still. Flexible tubing is not included. 0.5 inch Teflon tubing able to handle 80-90°C water is recommended	440138
	ACS wall mounting bracket	400634
	Adapter for ACS washer hook-up for glassware washers	440241

