

ACQUITY 30cm Single Zone Column Manager

The Waters® ACQUITY® 30cm Single Zone Column Manager (CM-30S) was designed to enable greater flexibility for the ACQUITY UPC²™ and ACQUITY APC™ Systems. It delivers simplicity of installation to the ACQUITY UPC² System, allowing for ease of column removal and replacement. The column manager increases productivity with its capacity to hold up to eight columns ranging in length from 50.0 mm to 300.0 mm (including guard column), with internal diameters ranging from 2.1 mm to 8.0 mm. The ability to screen column chemistries, modifier strength, back-pressure settings, and flow rate, leading to a rapid analysis, allows for time-efficient scale-up to preparative chromatography. Adding the ACQUITY CM-30S to the ACQUITY APC System enables support for traditional GPC columns. The module supports one or two banks of up to four GPC columns of up to 300.0 mm in length. Integrated passive pre-heating ensures stable column temperature across the entire column bank.

OPERATING SPECIFICATIONS

Analytical columns	I.D.: 2.1 mm to 8.0 mm Length: 30.0 mm to 300.0 mm
Guard columns	I.D.: 2.1 mm to 8.0 mm Length: 50.0 mm maximum
Column capacity	ACQUITY UPC ² System: - Maximum of eight selectable columns when bypass and waste lines are omitted - Maximum of six selectable columns with bypass and waste lines in use ACQUITY APC System: - One or two column banks of up to four columns per bank
Settable temperature range	20.0 to 90.0 °C, in increments of 0.1 °C
Controllable temperature range	(Ambient + 5 °C) to 90 °C
Time to temperature	12 min max. Test conditions: - No column installed, no flow, measurement taken with internal temperature sensor; oven shall be in thermal equilibrium at set point temperature for 1 hour before starting test - Door is opened for 30 s - Test conducted at 60 °C column compartment set point temperature; external ambient temperature is 25 °C
Temperature accuracy	+/- 0.5 °C
Temperature stability	+/- 0.5 °C
Temperature precision	+/- 0.1 °C
Solvent conditioning	Passive pre-heating
Column selection	Automated and Standard (ACQUITY APC System uses valves in ACQUITY Single Zone Column Manager)

[INSTRUMENT SPECIFICATIONS]

Wetted materials	316 stainless steel, PEEK, DLC
Unattended operation	Leak sensors, full diagnostic software captured through console software

INSTRUMENT CONTROL

Standard ethernet	One (1) RJ45 connector located on rear of module
RS-232	One (1) 9-pin subminiature D connector (socket type) located on rear of module
External control	Empower 2 FR5 or later and Empower 3
Connections INSIGHT®	Provides real-time monitoring and automatic notification of instrument performance and diagnostic information allowing for faster problem resolution

ENVIRONMENTAL SPECIFICATIONS

Audible noise (per module)	<58 dB(A) at 1 m standing in front of the unit; unit in idle mode, valves not operating
Temperature	4 to 40 °C
Humidity	20% to 80% non-condensing

ELECTRICAL SPECIFICATIONS

Power requirements	100 to 240 VAC
Line frequency	50 to 60 Hz
Power consumption	600 VA (nominal)

PHYSICAL SPECIFICATIONS

Height	71.9 cm (28.3 inches)
Width	23.5 cm (9.3 inches)
Depth	61.3 cm (24.1 inches)
Weight	43.1 kg (95 lbs)

Waters

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