



Universal Analyzers offers a simple solution for most applications utilizing our 3000 Series Sample Conditioning Coolers on a U-Bracket. The 3000 Series Cooler uses Peltier Elements to Thermo Electrically reduce the dew point of a gas sample which rapidly condenses and removes the water, providing a dry sample for the gas analyzers.

The 3000 Series Sample Conditioning U-Bracket is 12”D by 31”H by 19”W and comes standard with the following: Sample Pump, Peristaltic Pump, Inline Filter with Water Carry Over Sensor, Pressure Gauge, Vacuum Gauge, Alarms, Calibration Gas Regulator, Solenoid Valves and Analyzer/Bypass/Calibration Gas Flow Meters.

COOLER CAPACITY DATA

	Ambient 77°F/25°C				Ambient 90°F/32°C				Ambient 105°F/41°C			
	Water Vapor				Water Vapor				Water Vapor			
	12%	15%	30%	50%	12%	15%	30%	50%	12%	15%	30%	50%
3040	5 l/m	4 l/m	2.8 l/m	1.4 l/m	5 l/m	4 l/m	2 l/m	1 l/m	2.8 l/m	2.4 l/m	1.2 l/m	0.6 l/m
3050	8 l/m	8 l/m	7 l/m	6 l/m	6 l/m	6 l/m	5.5 l/m	4.5 l/m	3 l/m	3 l/m	2.5 l/m	2 l/m
3080	10 l/m	8 l/m	4 l/m	2 l/m	8 l/m	7 l/m	3.5 l/m	1.8 l/m	4.6 l/m	4 l/m	2.2 l/m	1.1 l/m



3000 Series Sample Conditioning U-Bracket

Standard U-Bracket includes: Sample Pump, Peristaltic Pump, Vacuum & Pressure Gauges, Vacuum & Pressure Switches, Analyzer/Bypass/Calibration Gas Flow Meters, Zero & Span Calibration Gas Solenoids, Calibration Gas Regulator, Condensate Carry Over Sensor with Filter

Lead Time	Integration Options	
	SCU	Integrate 3000 cooler on a 19"W x 13U H x 12"Deep U-Bracket with accessories selected below
	Cooler (Part Number Configurator: SCP 3000)	
	Sample Conditioning Plate	
	3040	10" Active (1 Heat Exchanger)
	3050	10" Passive/Active (2 Heat Exchangers)
	3080	10" Active/Active Single Control (2 Heat Exchangers)
	Heat Exchangers Material (Price per Heat Exchanger)	
	SS	316 Stainless Steel:
	PV	Glass/Kynar:
	C	Hastelloy C276:
+1 wk	ST	Teflon coated 316 Stainless Steel:
	SW	316 Welded Stainless Steel: (High Pressure)
	SN	SilcoNert™ 2000 coated 316 Stainless Steel:
	KK	Kynar/ Kynar:
	Voltage & Area Location Classification	
	115	115 VAC 50/60 Hz; General Purpose (GP) Area
+1 wk	230	230 VAC 50/60 Hz; General Purpose (GP) Area
	Sample Pump with one pressure controller.	
	SP1	Single Head Pump
	SP2	Dual Head Pump
	Calibration Gas Solenoids (Standard panel includes two calibration gas solenoids)	
	Cal2	No Additional Calibration Gas Solenoids (Base Panel Includes 2)
	Cal3	1 Additional Calibration Gas Solenoid (3 Total)
	Cal4	2 Additional Calibration Gas Solenoid (4 Total)
	Cal5	3 Additional Calibration Gas Solenoid (5 Total)
	Cal6	4 Additional Calibration Gas Solenoid (6 Total)
	Analyzer Flow Meter Options	
	FM1	Meter
	FM2	Meter
	FM3	Meter
	FM4	Meter
	Peristaltic Tubing Options	
+1 wk	PP1	Phar-Med High Pressure Pump Tubing (\$69/head)
	PP2	Viton Pump Tubing (per head)
	PP3	Tygon Fuel Grade Tubing (per head)
	PP4	Norprene Food Grade Tubing (per head)
	N	No Options Included
	SCU-	3080
	-SS	-115
	-SP1	-Cal2
	-FM1	-N
	<--- Sample Part Number	

* Lead Times are not compounded. Lead time is Cooler + longest option.

TECHNICAL SPECIFICATIONS

Maximum Inlet Sample Temperature:	316SS Heat Exchanger: 700°F (370°C.)/Kynar-Glass Heat Exchanger: 280°F (138°C.)
Maximum Inlet Gas Dew Point:	194°F. (82°C)*
Maximum Inlet Water Concentration:	70%*
Maximum Ambient Temperature:	105°F (41°C)*
Maximum Cooling Power:	126 BTU'S/Hr. (120 kJ/Hr.) (Model 3040) 126 BTU'S/Hr. (120 kJ/Hr.) (Model 3050 2nd Stage) 252 BTU'S/Hr. (240 kJ/Hr.) (Model 3080)
Outlet Sample Dew Point:	39°F (4°C.)
Maximum Input Power:	700 WATTS**
Voltage:	95-125 VAC, 50/60 Hz or 190-250 VAC, 50/60 Hz
Electrical Classification:	NEMA 1 / General Purpose
Soluble Gas Removal Rates:	NO 0% LOSS NO2 <10% LOSS SO2 < 2% LOSS CO 0% LOSS CO2 < 2% LOSS

*At reduced flow rates, see capacity chart.

** Wattage dependant on selected cooler. Contact factory for selected cooler wattage

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