

MODEL ASU-4 AIR SAMPLING UNIT

MODEL ASU-4 AIR SAMPLING UNIT ASU-4 空气采样器

The Air Sampling Unit (ASU) is intended for simultaneous air sampling from 4 different locations. A portion of the sampled air is routed to a Tritium Monitor. Air can be sampled from a location up to 60m away. The ASU is a wall mount NEMA 12 enclosure. The enclosure has a hinged door that is furnished with a tempered glass window providing a view to the inside of the enclosure in order to visually check the air flow rate setting and signal lights. The enclosure is a double-hinged design, so that it can be opened for service.

空气采样装置用于同时从 4 个不同地点进行空气采样。一部分气样传送到氚监测器。采样距离可达 60 米远。ASU 为壁挂式 NEMA 12 罩。带折页门，门上配有钢化玻璃窗对罩内部提供了视图，以便使用视觉检查空气流量设定和信号灯。外壳是一个双铰链设计，使其可以打开进行服务维修。



Features include the following: 包括以下特点:

Components Installed in a Rugged, Wall Mount Industrial NEMA 12 Enclosure
组件安装在结实的壁装式工业用 NEMA12 机箱内

Auto and Local Control Modes
自动和本地控制模式

Programmable Logic Controllers
可编程逻辑控制器

Programmable Display with a Color LCD Screen
可编程显示带彩屏 LCD

Flow Meters and Filters
流量表和过滤器



1160 US ROUTE 50
MILFORD, OHIO 45150-9705
TELEPHONE (513) 248-2400
FACSIMILE (513) 248-2402
E-MAIL sales@overhoff.com
WEB www.OVERHOFF.com

TECHNICAL SPECIFICATIONS: 技术规格

Air Flow Rate 空气流量	3-25 LPM, Nominal Setting 10 LPM 3-25LPM, 正常设定 10LPM
Operational Temperature Range 操作温度范围	10° to 40°C
Operating Principle 操作原理:	Air sample is pulled by a pump from 4 different locations into a manifold and then sent out through the exhaust line, which is sampled by a tritium monitor. Each flow rate from 4 inlet lines is adjusted by air flow meter. There is a separate purge air inlet. 气样从 4 个不同点由气泵抽进歧管, 然后通过排放管线送至氚监测器, 四条输入管路流量均可通过流量计调节, 配有单独的净化气入口。
Air Mixing Manifold 空气混合歧管	Built from aluminum bar stock with 5 inlets and one outlet. Inlets are for 4 sample lines and one purge line. The outlet is connected to the pump inlet. 材料为铝, 5 个进气口, 一个出口, 进气口中 4 条为样品管线, 一条是净化管线, 出气管与泵入气口连接
Flow Meter 流量	Polycarbonate body flow meter, with stainless steel valve, adjustable range from 1 to 25 LPM. 聚碳酸酯材料流量表, 带不锈钢阀, 可调节范围 1-25LPM
Filters 滤网	Respirator cartridge type HEPA filter for all four sample inlets and one purge inlet. Connection fittings are 1/4" SS Swagelok fittings. 呼吸盒型 HEPA 滤网用于全部四条样品输入管路和一条净化管路, 连接件为 1/4" SS Swagelok
Enclosure 外箱	NEMA 12 rated, 24" [600mm] wide x 18.8" [478mm] high x 22.56" [573mm] deep NEMA 12 级 24"宽 x 18.8" 高 22.56"深
Differential Pressure Switch 压差开关	Diaphragm pressure switch used to detect low flow. Set point is ~ 5 LPM 膜片压力开关用于探测低流, 设定点~ 5 LPM
Programmable Logic Controller (PLC) 可编程逻辑控制器	Panasonic PLC with relay outputs, powered by a 24VDC power supply for. PLC also has RS232 serial data output for future expansion to include remote Capability. 松下 PLC 带继电器输出, 由一个 24VDC 电源供电, PLC 带有 RS232 串口数据输出用于将来远程功能扩容
Pump 泵	Thomas reciprocating piston pump, model 2688CE44, 470W, 115VAC, 60Hz Thomas 往复式活塞泵, 型号 2688CE44, 470W, 115VAC, 60Hz
Solenoid Valves 电磁阀	Brass body, nitrile rubber seals 铜体, 橡胶密封
Weight 重量	130lb (59kg) 130 磅



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