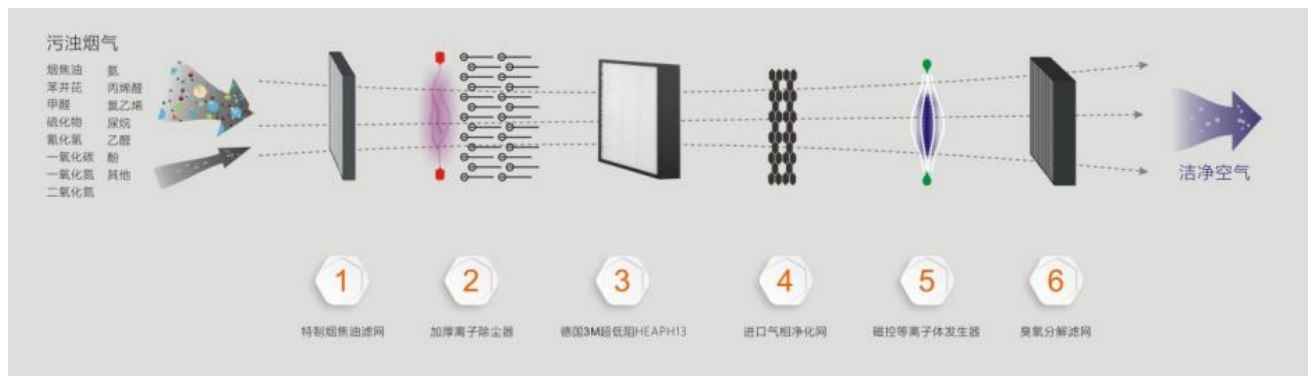# Indoor Tobacco Control Tower

Patent-pending design of purification machine specific to handle both solid and gas state tobacco contaminants

Cigarette and cigar smells have long been a persisting challenge in indoor air quality management. Not just because the great number of chemicals generated in every puff of smoke from burnt nicotine-rich leaves, but also the contaminants can spread into every thin crack of ceiling, walls, furnitures and decorations, in form of both fine particulate and gaseous states.

Conventional air purification methods in smoking lounge are typically using HEPA and activated carbon filters. They work, but with a short life time because both types of filter will be saturated within months, yielding drastically decrease in filtration efficiency, let along the non-recoverable filters to become solid waste.

AHC-100T Indoor Tobacco Control Tower use patent-pending purification methods to reduce and to decompose tobacco contaminants efficiently. Both plasma and electrostatic precipitator (ESP) levels are adopted, inserted with a layer of gaseous adsorbent which work much more powerfully than conventional activated carbon granular. The plasma has a product life over 2 years and the ESP is washable unlimited times.

污浊烟气

烟焦油	氨
苯井芘	丙烯醛
甲醛	氯乙烯
硫化物	尿烷
氰化氢	乙醛
一氧化碳	酚
一氧化氮	其他
二氧化氮	

洁净空气

1	2	3	4	5	6
特制烟焦油滤网	加厚离子除尘器	德国3M超低阻HEAPH13	进口气相净化网	磁控等离子体发生器	臭氧分解滤网

❶ 双色电源指示 待机/运行	❷ 10速旋钮无极调节 感应震动反馈	❸ 10速指示灯 高端简洁	❹ 进风口一体化铝 型材缝条结构 超厚度4mm设计	❺ 把手	❻ 高品质碳钢 酸洗3层喷油 烤漆工艺
❼ 双层密封设计 密封+静音	❽ 清晰指引设计	❾ 出风口	❿ 出风口	⓫ 高端电源接口	⓬ 出风口
⓭ 出风口	⓮ 日本全进口高品质 LAMP品牌可刹车 铝万向轮	⓯ 臭氧分解滤网	⓰ 检修门断电保护	⓱ 磁控靶向等离子体	⓲ EC电机
⓳ 进口气相净化网	㉑ 进口3M超低 阻HEAPH13	㉒ 加厚离子除尘器	㉒ 制烟焦油滤网	㉓ 倾倒断电保护	

颗粒物去除率 （PM2.5/烟雾） 99.9%	甲醛去除率 96.6%	TVOC去除率 93.8%	杀菌率 （自然菌落） 98.6%

6层净化技术，采用先进的净化技术

特制烟焦油滤网

净化层为可更换部件，金属框架结构，内部为20mm加厚阻燃型纳米纤维材料，有效分离烟焦油成分

加厚离子除尘器

净化层为可反复清洗部件，采用航空铝材的加厚离子集尘模块，厚度180mm，核心净化模块的迎风面2.5米风速，高效净化颗粒物，可去除微尘最小直径仅0.3微米-10微米的大小颗粒物，杀灭细菌等，高压静电双压电离技术，高压8000V，低压4000V，高积尘量，使用寿命长。

进口3M超低阻HEAPH13

净化层加厚物理阻拦层，材质采用进口3M PP材料，M18级别，厚度100mm

进口气相净化网

净化层高效去除低浓度有害气体的吸附氧化滤材，采用高碘值椰壳活性炭加高锰酸钾渍活性氧化铝配方料，吸附氧化释放的原理，饱和寿命12个月。

EC电机

EC塑封电机，无极调速，节能环保

磁控靶向等离子体

净化层磁控等离子体发生装置，低臭氧量，并可控释放量，可根据实际现场的污染浓度来自动调节等离子体的浓度，实现数字可视化无极调节控制，可根据不同污染物浓度按风量大小来调整净化输出等离子体能量，等离子体发生管管体模块双玻管结构，外部无需卡箍连接地线，高压接触点需采用软连接，管体实现方便快速拆卸保佑清洁。功能可有效去除TVOC，高浓度的有害气体类物质，除味，除臭，杀菌等功能

臭氧分解滤网

净化层微量臭氧去除氧化网，厚度20mm。让环境更安全

Indoor Tobacco Control Tower (AHC-100T)

- Air handling rate: 1,000 CMH
- Electric power: 220V AC, 28-200W
- Optimized serving floor area: < 500 square feet
- Noise level: 28-52 dBA
- Size: 520 x 330 x 1200 mm
- 10-step EC motor