ISCLEANAIR
BREATHE YOUR LIFE

AIR POLLUTION ABATEMENT

TABLE OF APA SYSTEMS (1/2)

INDUSTRIALIZED APA SYSTEMS	 LARGE	 SLIM	 VENT	 TOTEM	 PANEL
Features, details and applications	Manufacturing / production and working sites Industrial areas indoor and outdoor	Manufacturing / production and working sites Industrial areas indoor and outdoor	Exhausts emissions from industrial plants Chimney	Outdoors, confined or partially confined urban spaces and commercial areas Applications on workplaces	Outdoors, confined or partially confined urban spaces and commercial areas Applications on workplaces and industrial areas
Operates at surface level and ideally distributed	Indoor - Outdoor	Indoor - Outdoor	Outdoor	Indoor - Outdoor	Indoor - Outdoor
Nominal flow rate [Nm^3/h]	2350	1500	Customized	2600 / 3000	2600 / 3000
Absorbed power [W]	540	465	Customized	1060 + 500	1060
Noise Level [dBA/1 m]	55	50	Customized	about 40/50	about 40/50
Manual Input (water)	Yes	Yes	Yes	Yes	Yes
Automatic Input (water)	Yes	Yes	Yes	Yes	Yes
Manual output (dirty water)	Yes	Yes	Yes	Yes	Yes
Automatic output (dirty water)	Yes	Yes	Yes	Yes	Yes
Max daily duty cycle [hrs]	24	24	24	24	24
W [mm]	1130	810	Customized	1400	1287
H [mm]	2640	2649	Customized	2360	2438
D [mm]	1500	1180	Customized	634	381
Weight, empty [kg]	90	60	Customized	515	340
Standard operative range [m]	25	25	N.A.	25	25
Absorbed Power	Monitored	Monitored	Monitored	Monitored	Monitored
Liquid level	Monitored	Monitored	Monitored	Monitored	Monitored
Air flow	Monitored	Monitored	Monitored	Monitored	Monitored
Pressure (P)	Monitored	Monitored	Monitored	Monitored	Monitored
Air Temperature (T)	Monitored	Monitored	Monitored	Monitored	Monitored
Relative Humidity (RH)	Monitored	Monitored	Monitored	Monitored	Monitored
NO_x	Monitored	Monitored	Monitored	Monitored	Monitored
PM10	Add-on	Add-on	Add-on	Add-on	Add-on
VOC (benzene, LPG, methane, acetylene, etc.)	Add-on	Add-on	Add-on	Add-on	Add-on
SO_x	Add-on	Add-on	Add-on	Add-on	Add-on
CO	Add-on	Add-on	Add-on	Add-on	Add-on
O_3	Add-on	Add-on	Add-on	Add-on	Add-on

Is CLEAN AIR Italia S.r.l.
Capitale Sociale i.v. € 800.000,00
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www.iscleanair.com

BAT BEST AVAILABLE TECHNOLOGY EU IPCC 2008 /1/CE

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TABLE OF APA SYSTEMS (2/2)

INDUSTRIALIZED APA SYSTEMS	 LARGE	 SLIM	 VENT	 TOTEM	 PANEL
Features, details and applications	Manufacturing / production and working sites Industrial areas indoor and outdoor	Manufacturing / production and working sites Industrial areas indoor and outdoor	Exhausts emissions from industrial plants Chimney	Outdoors, confined or partially confined urban spaces and commercial areas Applications on workplaces	Outdoors, confined or partially confined urban spaces and commercial areas Applications on workplaces and industrial areas
Real Time monitoring	Yes	Yes	Yes	Yes	Yes
Connectivity	3G/4G/LAN	3G/4G/LAN	3G/4G/LAN	3G/4G/LAN	3G/4G/LAN
Cloud dashboard	Yes	Yes	Yes	Yes	Yes
Remote device management	Yes	Yes	Yes	Yes	Yes
WiFi hotspot	Add-on	N.A.	N.A.	Add-on	Add-on
Audio/video monitoring	Add-on	Add-on	n.a.	Add-on	Add-on
NFC ID for technical staff	Add-on	Add-on	Add-on	Add-on	Add-on
Touch-screen multimedia display ["]	N.A.	N.A.	N.A.	55	N.A.
Backlit information panel	N.A.	N.A.	N.A.	N.A.	yes
Energy consumption (per volume of air treated) [Wh/Nm^3]	0,23	0,31	N.A.	0,40	0,40
Compliance as per DM 2006/42/CE – Direttiva Macchine	Yes	Yes	Yes	Yes	Yes
CE marked	Yes	Yes	n.a.	Yes	Yes
BAT – Best available technology as per IPPC Directive 2008/1/CE	Yes	Yes	Yes	Yes	Yes

Each APA system can be endowed with a core subsystems APA IESS (*Intelligent Environment Sensor System*) that include the sensors for monitoring and controls the internal components, the sensors for the environmental conditions, the actuators and the local logics for monitoring and control also the hardware components and the functionalities.
Each APA system can be equipped with a SIM card with Machine-2-Machine (M2M) functionalities, enabling the transmission of the collected data at the local central hub and, successively, to the control platform hosted in the cloud server.
The performances and the functionalities of each APA system have to be monitored and each APA system can be managed remotely, as well as analyzed and measured, and all the operations can be controlled in real-time.
Each APA system can be activated and deactivated independently, according to need, thanks to the pollution sensors placed on each platform.

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