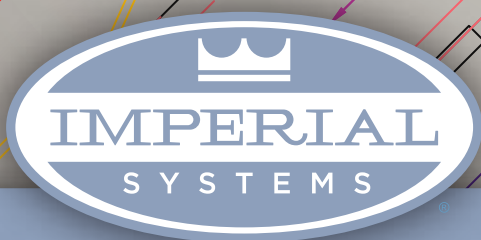


# DUST COLLECTION SYSTEM DESIGNS

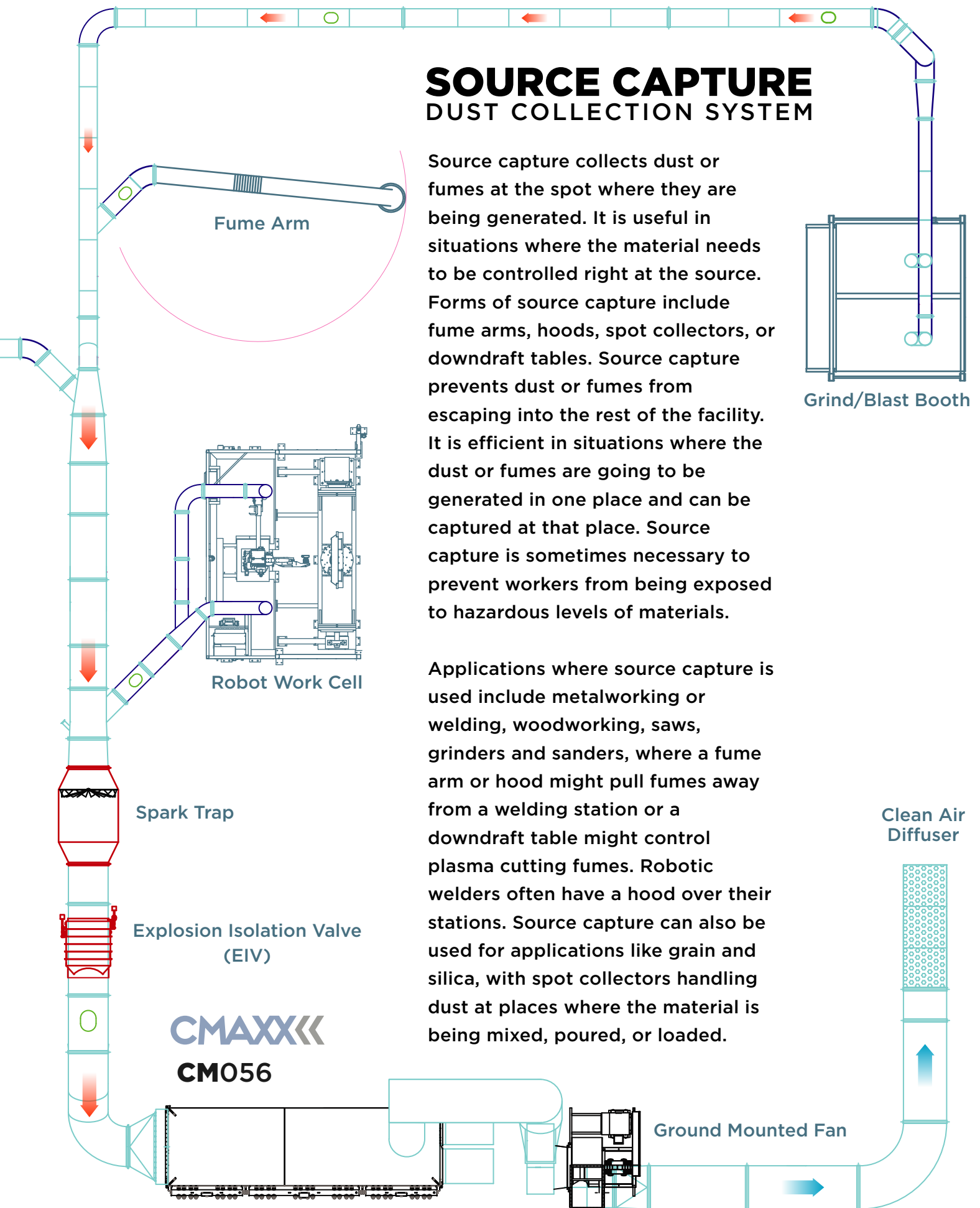


# SOURCE CAPTURE

## DUST COLLECTION SYSTEM

Source capture collects dust or fumes at the spot where they are being generated. It is useful in situations where the material needs to be controlled right at the source. Forms of source capture include fume arms, hoods, spot collectors, or downdraft tables. Source capture prevents dust or fumes from escaping into the rest of the facility. It is efficient in situations where the dust or fumes are going to be generated in one place and can be captured at that place. Source capture is sometimes necessary to prevent workers from being exposed to hazardous levels of materials.

Applications where source capture is used include metalworking or welding, woodworking, saws, grinders and sanders, where a fume arm or hood might pull fumes away from a welding station or a downdraft table might control plasma cutting fumes. Robotic welders often have a hood over their stations. Source capture can also be used for applications like grain and silica, with spot collectors handling dust at places where the material is being mixed, poured, or loaded.

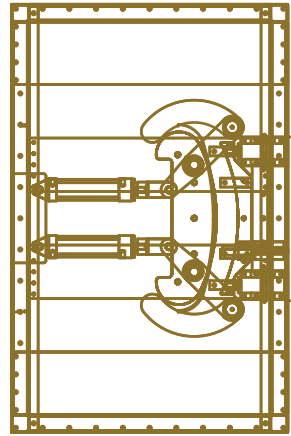




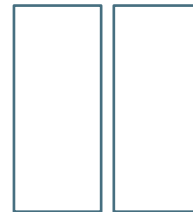
# AMBIENT AIR DUST COLLECTION SYSTEM

One of the biggest advantages with an ambient system that recirculates the air back into the facility is energy cost savings. When heated or air-conditioned air is vented outside, the energy used is lost. Many businesses find that a fume collection system can pay for itself within two years with money saved in energy costs. Returning filtered air into the building also prevents the development of negative air pressure inside.

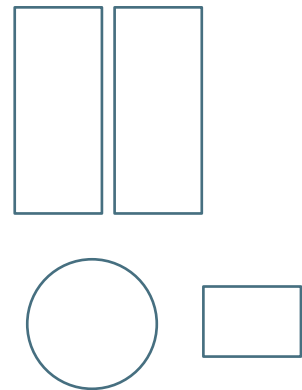
An ambient system constantly changes the air inside the facility. Overall levels of fumes are lower, regardless of where you're working. The ambient system does not require any effort or inconvenience from the welders; it works all the time without anyone doing anything.



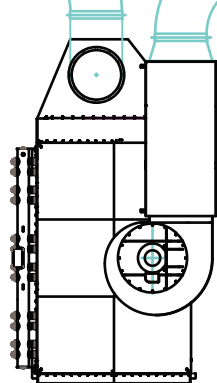
Press



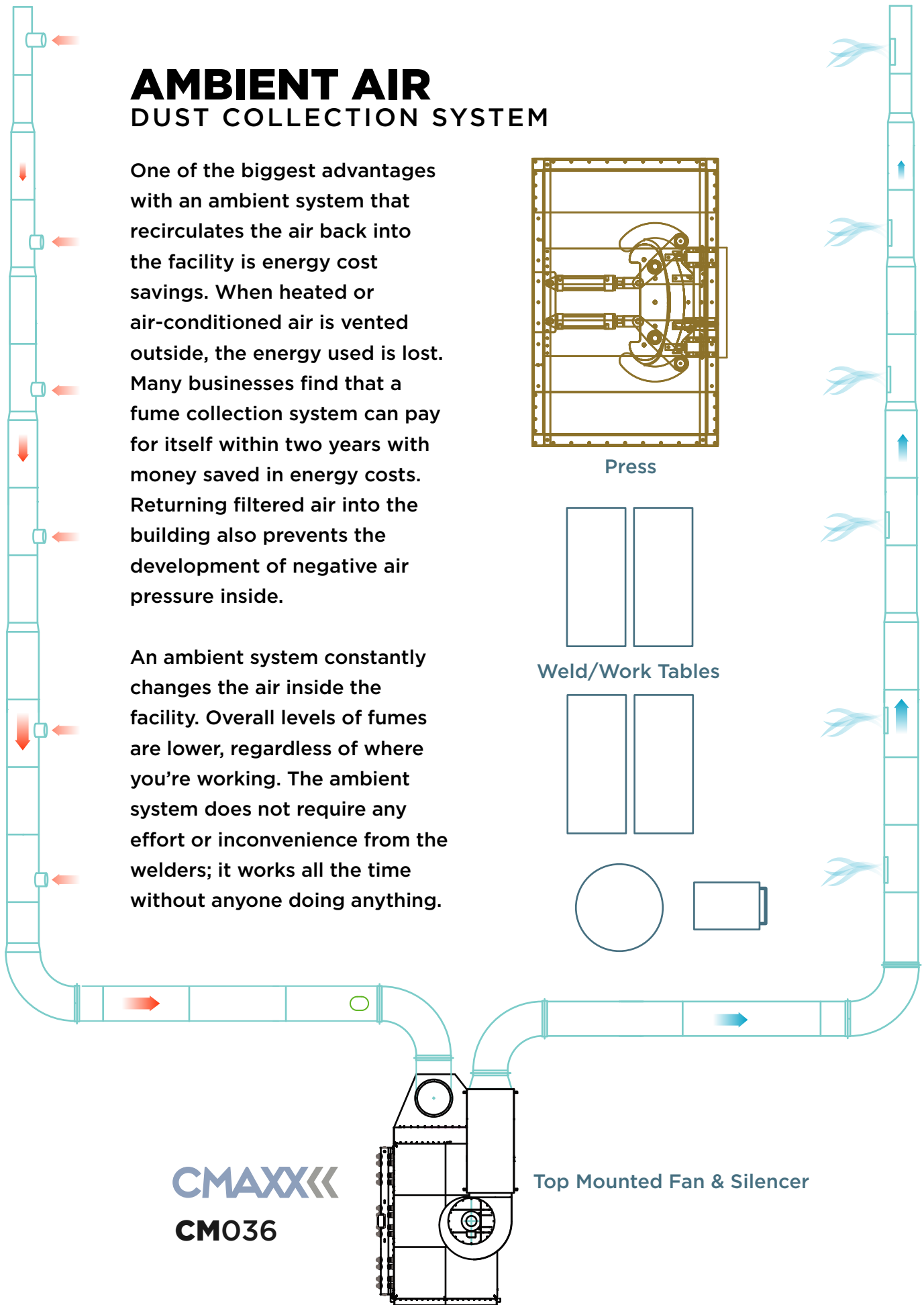
Weld/Work Tables

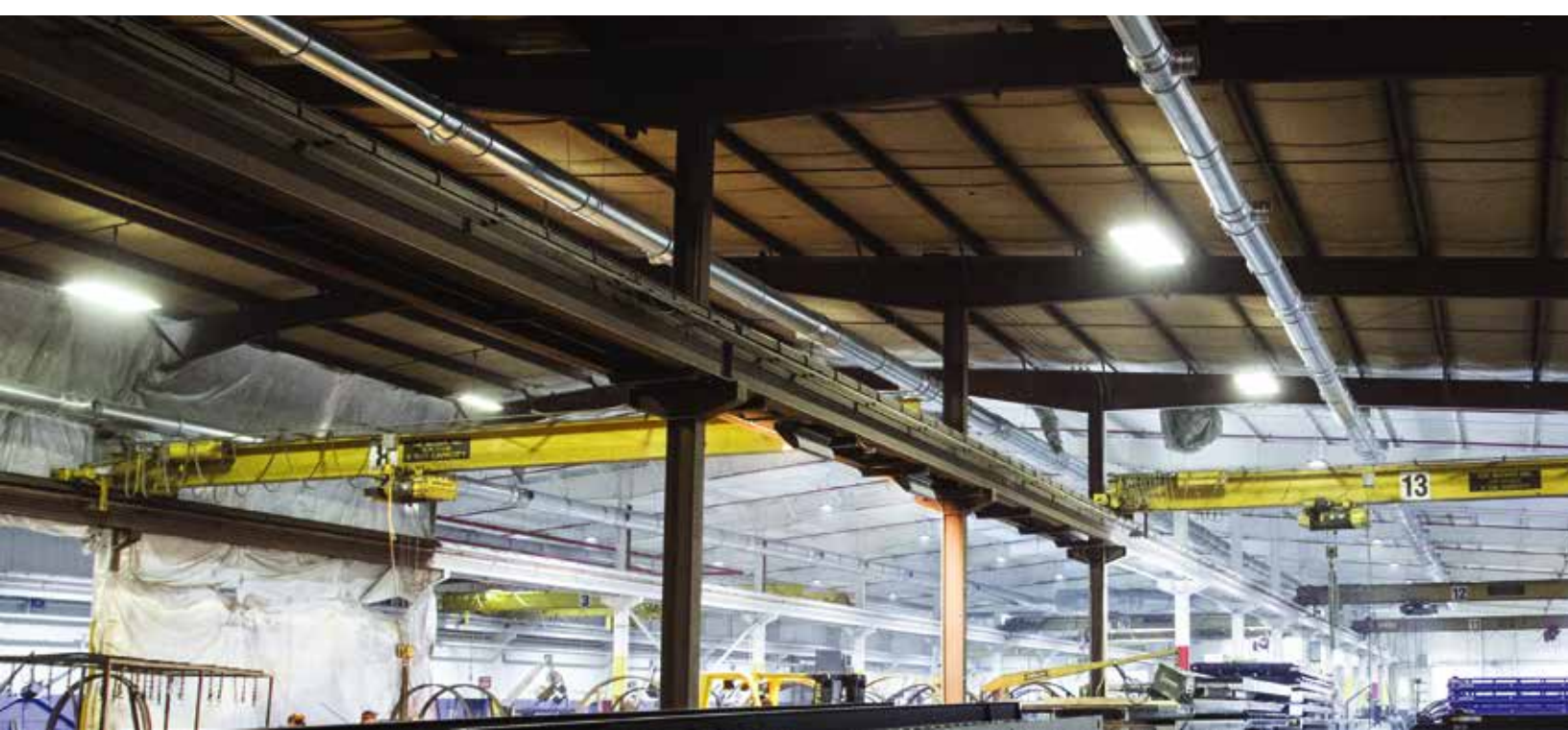


**CMAXX**  
**CM036**



Top Mounted Fan & Silencer



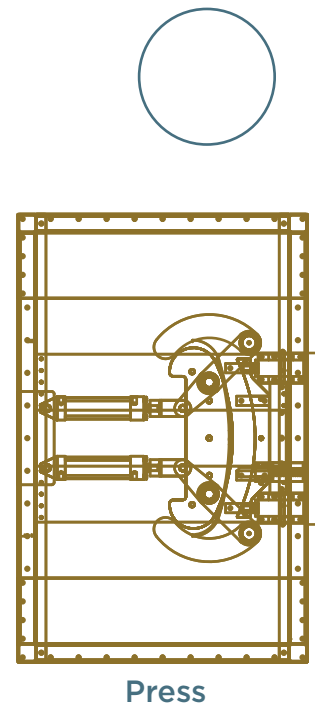
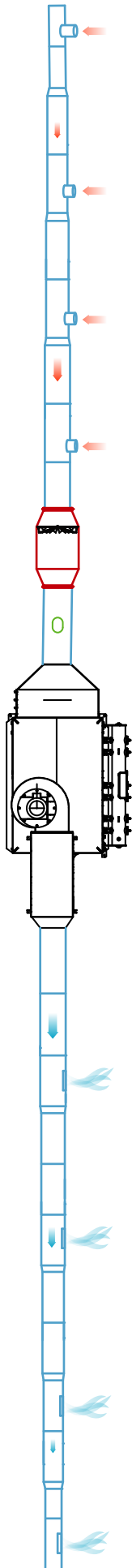


# PUSH - PULL MODULAR SYSTEM

## DUST COLLECTION SYSTEM

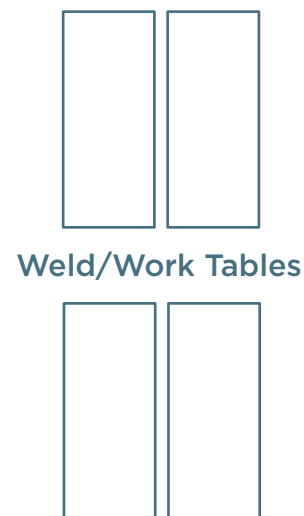
The CMAXX is a modular dust and fume collector that can be sized for any application. What you may not know is that the CMAXX is also a modular ambient system. With two CMAXX collectors, one pulling air from inside the facility and the other pushing air in as a “push-pull” system, continuous ambient airflow is achieved. What happens, though, if you have multiple areas where you need dust and fume collection, or if you add onto your facility or equipment? With other types of systems, you would need to get rid of your current collector and buy a bigger one to handle increased airflow, then run lengths of ductwork to cover the whole space. With a modular CMAXX system, it’s easy to add another set of “push-pull” CMAXX collectors to create more ambient dust and fume collection. Since the system is modular, your original CMAXX system can stay in place while new units are added on to meet your changing needs.

Any company can have changes in their facility, whether it’s moving things around the shop, expanding, or increased dust or fume production. Instead of buying a whole new dust and fume collector or installing a lot of new ductwork to handle your changing needs, consider the option of the CMAXX modular system: always ready for you to add on or adapt to your changing needs.



Press

CMAXX  
CM006



Spark Trap

Weld/Work Tables



# PROFESSIONAL SYSTEMS INSTALLATION

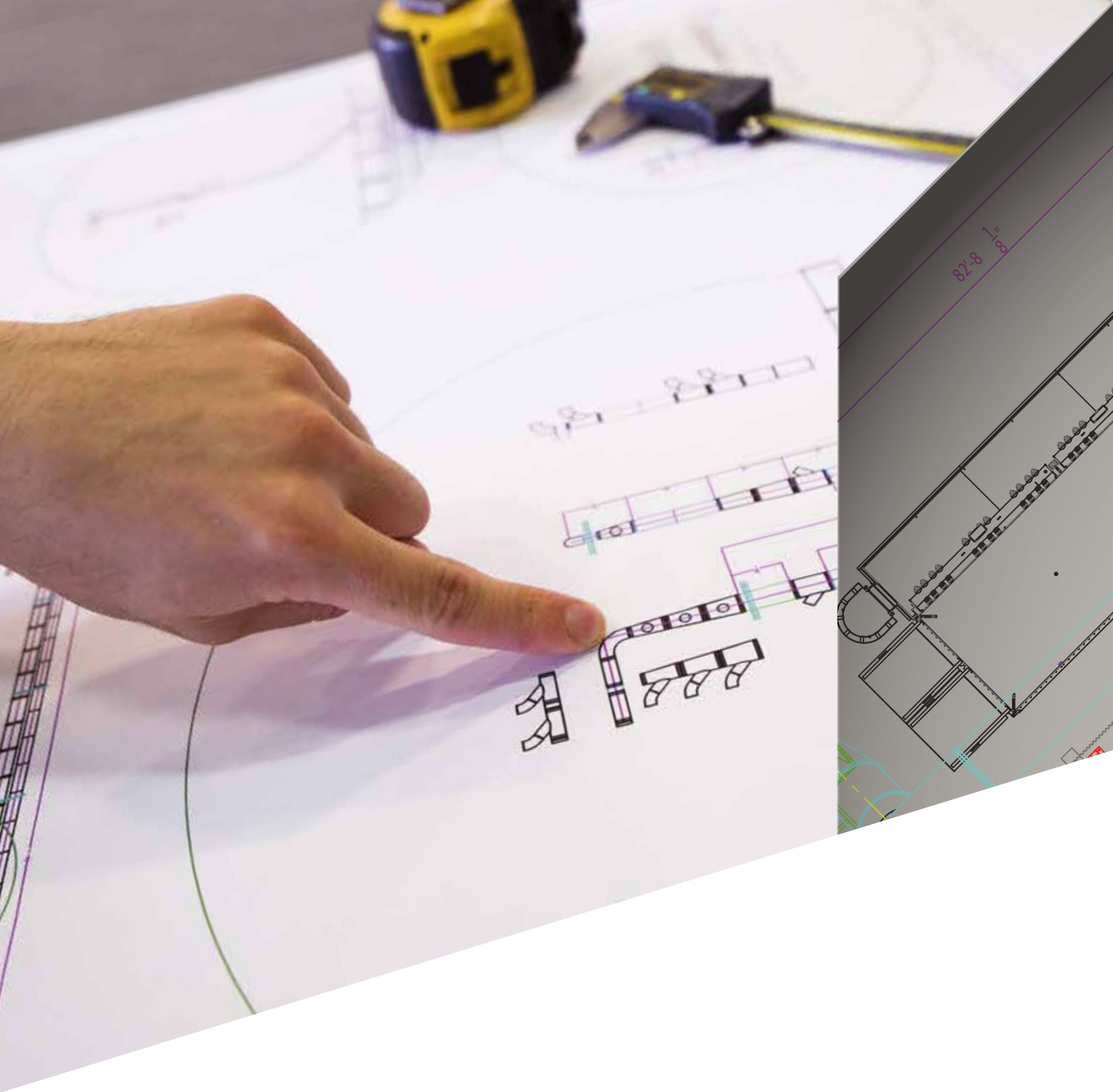
At Imperial Systems we not only create the most heavy duty and best dust collectors in the industry, but we also design, build and install your specific complete system.

Our team will work from the ground up with your company to design and build the best solution for you. It starts at the design process with our in house engineers to design the system according to your specifications. Once the drawing have been approved we will begin building your custom dust collector, adapters and accessories in house to the highest specs in the industry.

Our installation crew is experienced with all types of dust collectors in every industry. Imperial Systems has worked on dust collection applications from weld fume to grain storage.

Our team is able to fabricate and improvise on site to make sure everything fits and works correctly for your needs.





**IMPERIAL SYSTEMS INC.**

**7320 West Market St.  
Mercer, PA 16137**

**800.918.3013**

**[isystemsweb.com](http://isystemsweb.com)**

