

Welcome!



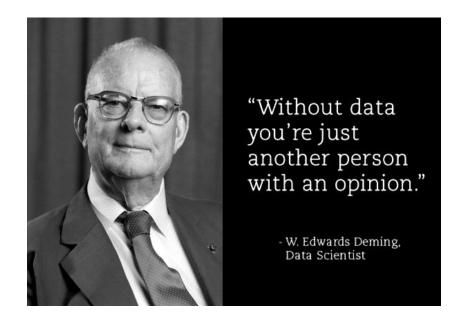


Etienne Blouin,
Director of Environmental
Health Systems



Introduction

THE "ART" **SMOKE EXTRACTION**





Smoke in the Workplace

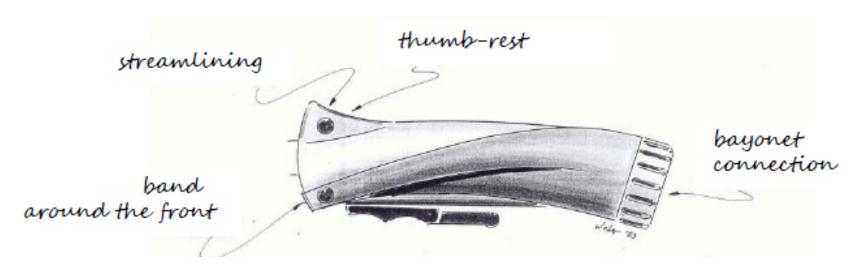
Short Term Effects	Long Term Effects		
Skins & Eye Irritation	Pulmonary Chronic Disease		
Asthma	Nervous System Damage		
Fume Fever	Kidney Damage		
Poisoning	Cancer		





Advanced Fume Workshop: Breaking Down Fume Torches Science & Evolution

• 1974: Abicor Binzel creates first generation of fume torches





Ergonomics & Performance





Sitting measuring position



Standing measuring position



Position of electrodes and



EMG-data



Types of Fume Torches



Advanced Fume Workshop: Breaking Down Fume Torches Welding Fume







Front End









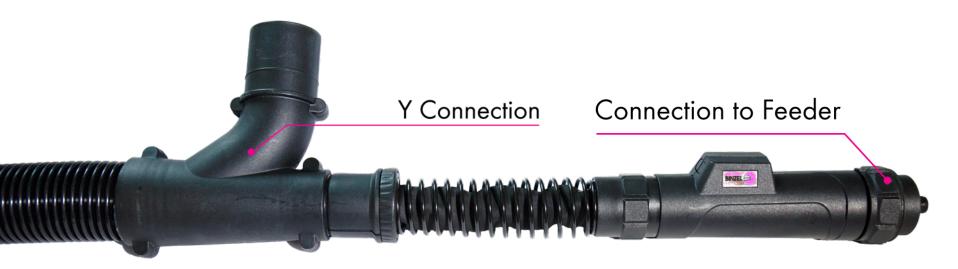
Middle Section



Protective cable covers/sleeves can prevent holes and premature wear to



Y-Connection for better flow through the torch





Torch Rating & Duty Cycle

	Air-Cooled		Water-Cooled	
Rating	CO_2	Mixed Gases	CO_2	Mixed Gases
	250A - 60% DC 300A - 60% DC	220A - 60% DC 270A - 60% DC	500A - 100% DC	450A - 100% DC

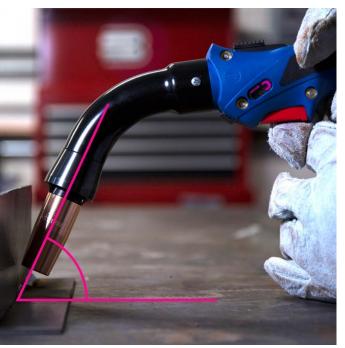
Further de-rated by 35% for pulsed arc



Positioning

 Welder position & torch angle play a key role in optimizing fume capture.

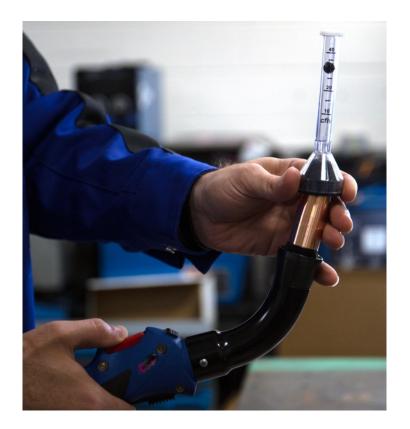






Advanced Fume Workshop: Breaking Down Fume Torches Shielding Gas

 Ensure you have proper shielding gas pressure





Vacuum

- HVAC-type system needed
- Required operating pressure is between 50 in/H₂O and 90 in/H₂O





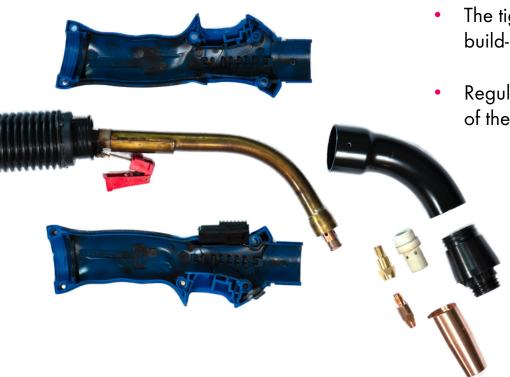
Proper training will ensure effective fume capture while welding







Maintenance



The tight spaces within the handle are prone to debris build-up

Regularly disassemble your fume torch to clean inside of the handle and clear out any debris.



- Spatter can build up on your nozzle and fume shroud.
- It is important to keep these orifices free of debris and spatter to ensure proper flow through the torch.
- Use of anti-spatter can help in most cases to prevent build up







Vacuum Maintenance

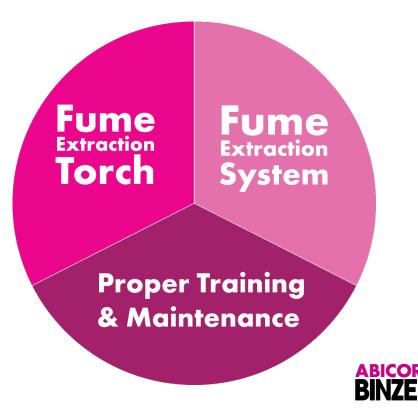
• Testing your vacuum pressure at different points in the system can help you narrow down possible issues.





More Than Just the Torch

 Your torch, vacuum system, and proper positioning all factor into the effectiveness of fume extraction in your operation.





Advanced Fume Workshop: Breaking Down Fume Torches What Changes?

What changes in your welding operation to accommodate fume extraction?





Contact UsWe'd Love to Hear From You



Etienne Blouin,Director of Environmental Health Systems



eblouin@abicorusa.com



514-654-3824



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Speak with District Sales

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