

### APPLICATION

As a manufacturer of industrial equipment Pyradia is equipped with an EBF plasma table used on a daily basis. Plasma cutting is a process involving high pressured ionized gas to create a plasma jet therefore generating highly toxic and hazardous sparks, smoke and fumes.



### CHALLENGES :

- CAPTURE FUMES & SMOKE
- FIRE PREVENTION
- ASSURE A HEALTHY WORK ENVIRONMENT
- OPTIMIZE PRODUCTION TIME

### SOLUTION

Specialists will confirm that using just an exhaust blower alone is not a long term viable solution for a plasma table. That is simply exporting the problem from inside to outside and remains an unsafe set up.

The installation of an **outdoor cartridge dust collector** was necessary to **ensure safety and a healthy manufacturing environment** for Pyradia's employees. The Belfab division recommended the installation of an MPJC H8 Dust collector equipped with all necessary safety options (reverse for full systems specifications).

### INSTALLATION

CARTRIDGES DEMONSTRATING THE COLLECT OF MATERIAL GENERATED BY THE USE OF THE PLASMA TABLE - AFTER 2 MONTHS OF USE



INDOOR PLASMA MANUFACTURING AREA  
CONNECTED TO AN OUTDOOR H8 CARTRIDGE  
DUST COLLECTOR



# CARTRIDGE DUST COLLECTOR PLASMA CUTTING APPLICATION



## H8 CARTRIDGE DUST COLLECTOR SPECIFICATIONS

### FILTRATION UNIT

Model H8
16 fire retardant horizontal cartridges
Filtration ratio 1.36:1
3680 ft <sup>2</sup> filtration surface
Pulse jet cleaning technology
Automatic sequential controller
Photohelic gauge
55 gal drum on wheel for collecting dust

### BLOWER

Model standard blower #15
3500-5000CFM
Direct driven
TEFC 15HP inverter duty motor

### CONTROL PANEL

NEMA 4/12 enclosure
Magnetic starter & surcharge protection
Deviation damper control
Magnehelic gauge



BELFAB H8 CARTRIDGE DUST COLLECTOR

### OPTIONS & ACCESSORIES

Spark quencher
Silencer
Backdraft damper
Deviation damper
Fire damper