



**BREATHE EASY...Solutions for Clean, Safe Air**

# MICRO AIR RP4 DUST COLLECTOR

## Specifications and Technical Data

### TYPICAL APPLICATIONS:

- WELD SMOKE AND FUMES
- GRINDING / POLISHING DUST
- POWDERS
- BLASTING OPERATION
- SMOKE & FUMES FROM LASER/PLASMA CUTTING



### STANDARD FEATURES:

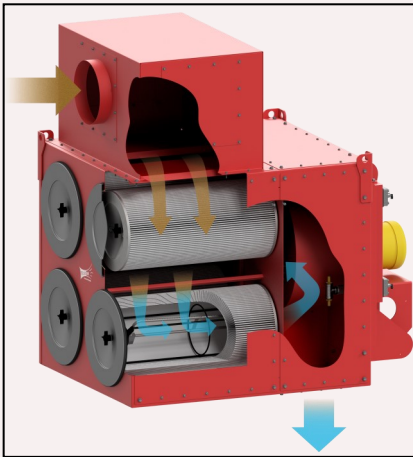
- REVOLUTIONARY ROTO-PULSE® FILTER CLEANING SYSTEMS
- LARGE CAPACITY DUST DRAWER OR HOPPER
- BUILT-IN PLUG FANS, 1000-5000 CFM
- MOTOR STARTER/OVERLOAD PROTECTION STANDARD
- AFTER PULSE CLEANING CYCLE STANDARD
- HEAVY DUTY CONSTRUCTION
- FULL RANGE OF OPTIONS

### OPTIONS:

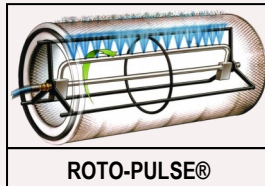
- HOPPER SETUP WITH LONG LEGS AND BARREL LID KIT.
- INLET PLENUM
- LOW PROFILE UNIT WITH DUST DRAWERS.
- SILENCER.
- HEPA AFTERFILTER.
- VARIETY OF CARTRIDGE FILTERS.
- 5HP, 7 1/2HP OR 10HP MOTORS.
- MAGNAHELIC OR PHOTOHELIC GAUGES.
- INTELLI-TOUCH ENERGY SAVING CONTROLS
- EXPLOSION VENTS, BACKBLAST DAMPERS, OSHA/NFPA COMBUSTIBLE DUST COMPLIANCE

### HOW IT WORKS:

Contaminated air is pulled into the inlet plenum at the top of the RP4 Cabinet, then travels down through the cartridge filter section, where the contaminant is filtered and dropped into the hopper or dust drawer. Breathe Easy, clean safe air is exhausted out the bottom of the unit. Cartridge cleaning is accomplished with Micro Air's proprietary Roto-Pulse® cleaning system, where air is pulsed



into a specially designed stainless steel, rotating tube, engineered with pre-drilled holes. As the air enters this tube, the force of the pulse causes the tube to rotate incrementally inside the cartridge. While rotating, air exits the pre-drilled holes, resulting



ROTO-PULSE®

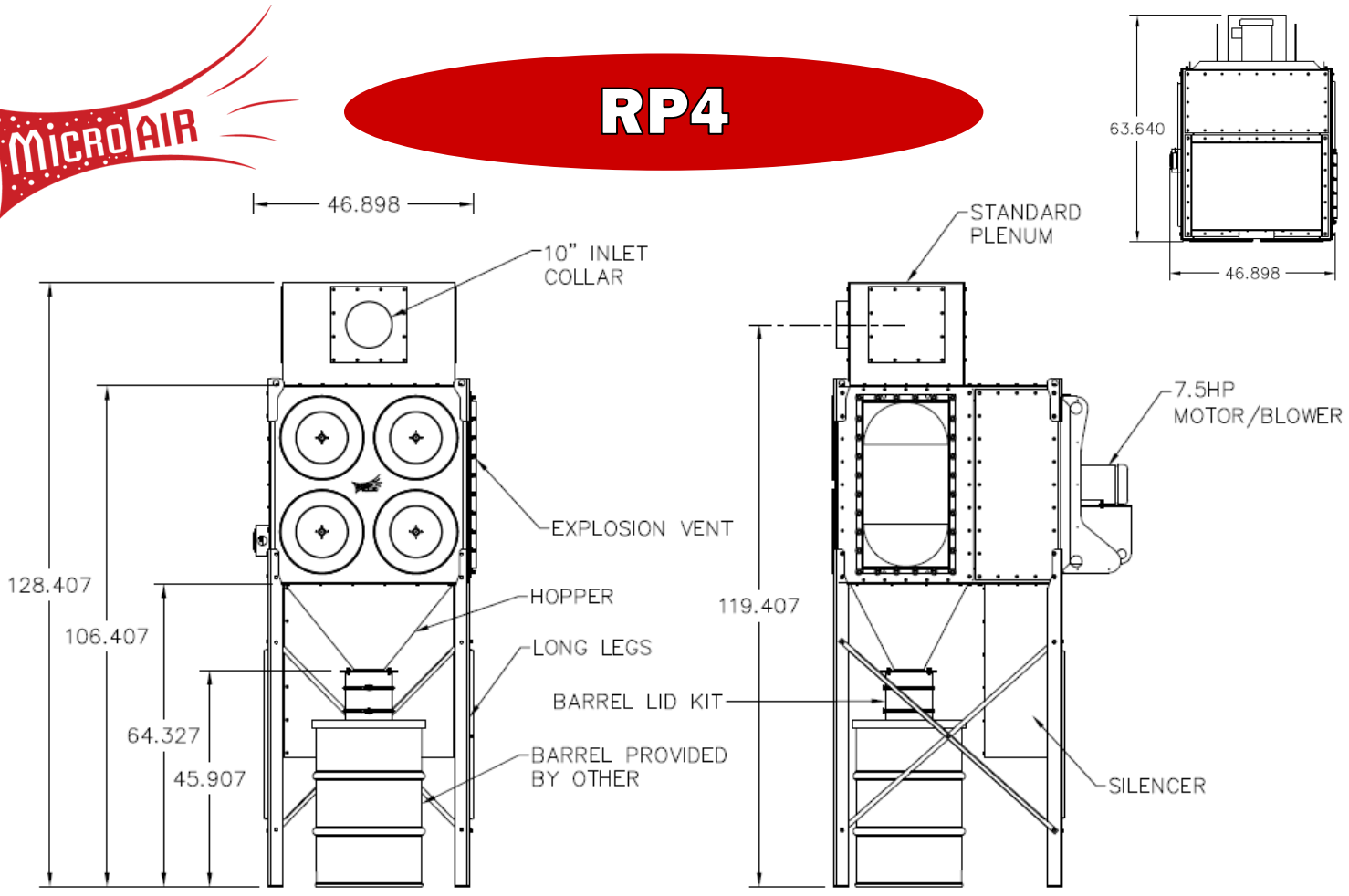


### RP4 Ducted to Hoods Over Mixing Processes

in air dispersement over the entire surface of the cartridge, providing for an improved cartridge cleaning cycle, compared to competitive backflush cleaning systems.



# RP4



**RP4 EQUIPPED WITH LONG LEGS/HOPPER—XP VENT—INLET PLENUM W/10" COLLAR—SILENCER—BARREL LID**

## RP4 SPECIFICATIONS:

**OVERALL DIMENSIONS:**

129" H X 42" W X 64" D WITH LONG LEGS/HOPPER & INLET PLENUM  
 81" H X 42" W X 64" D WITH SHORT LEGS/DUST TRAY & INLET PLENUM

**WEIGHT:**

\*1,315 LBS ACTUAL WEIGHT  
 \*1,500 LBS SHIPPING WEIGHT  
 \*WEIGHT VARIES DEPENDING ON OPTIONS SELECTED

**CABINET:**

HEAVY DUTY 14 GAUGE GALVANEAL STEEL WITH EXTERIOR SURFACES GROUND SMOOTH

**FINISH:**

INDUSTRIAL GRADE CRIMSON RED, TEXTURED BAKED ENAMEL PAINT IN SIDE AND OUT. OPTIONAL EPOXY COAT INSIDE & OUT AVAILABLE

**FILTER ACCESS:**

EASY FRONT ACCESS THROUGH FILTER CAPS

**MOTOR**

SINGLE SPEED, 5 HP, 3 PHASE, 208+230/460V, 60 HZ, PREMIUM EFFICIENCY, TEFC MOTOR. OPTIONAL 7.5 HP, 10 HP AVAILABLE

**BLOWER:**

DIRECT DRIVE, HIGH STATIC, BACKWARD INCLINED PLUG FAN

**AIR VOLUME:**

1,000—5,000 CFM PER MODULE—CONSULT FAN CURVES FOR SPECIFICS

**FILTER CHANGE INDICATOR:**

MAGNEHELIC GAUGE OR PHOTOHELIC GAUGE

**FILTRATION:**

FOUR EA. HIGH EFFICIENCY, 80/20 BLEND, FIRE-RETARDANT CARTRIDGE FILTERS, 250 SF MEDIA PER FILTER, 1,000 SF TOTAL MEDIA  
 \*MULTIPLE CARTRIDGE MEDIA OPTIONS AVAILABLE

**CONTROLS:**

FULL ELECTRICAL CONTROLS STANDARD

**INLET / EXHAUST:**

OPTIONAL INLET PLENUM WITH THREE EA. 14" X 14" OPENINGS  
 EXHAUST - OUT BOTTOM OF UNIT

**MAX CURRENT**

5 HP, 230/460V—12.8 / 6.4 AMP  
 7.5 HP, 230/460V—19.0 / 9.5 AMP  
 10 HP, 230/460V—24.6 / 12.3 AMP

**NOISE LEVELS:**

DEPENDENT UPON OPTIONS SELECTED—CONSULT FACTORY

**WIND LOAD RATING:**

100 MPH

**CABINET PRESSURE RATING:**

+/- 20 INCHES WC

**COLLECTION OPTIONS:**

HOPPER WITH 10" DIA COLLAR OR DUST TRAY

**COMPRESSED AIR:**

REQUIRES 80—90 PSI CLEAN, DRY AIR & MINIMUM 3/4" AIR LINE

**CARTRIDGE CLEANING SYSTEM:**

ROTO-PULSE® INCREMENTAL ROTATING TUBE WITH PRE-DRILLED HOLES. AS AIR IS PULSED INTO THE TUBE, IT ROTATES AND AIR EXITS THE PRE-DRILLED HOLES, PROVIDING A HIGHLY EFFICIENT AND TOTAL CLEANING OF THE CARTRIDGE FILTER

**OFF-LINE CARTRIDGE CLEANING:**

STANDARD EQUIPMENT DESIGNED TO CLEAN FILTERS AFTER UNIT IS TURNED OFF FOR OPTIMAL OFF-LINE CARTRIDGE CLEANING. TIMER CAN BE ADJUSTED BETWEEN 0 AND 17 MINUTES

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE