

MICRO AIR FRP6 DUST COLLECTOR

Specifications and Technical Data



TYPICAL APPLICATIONS:

- WELD SMOKE AND FUMES
- GRINDING / POLISHING / BUFFING DUST
- COMPOSITES DUSTS
- ABRASIVE BLAST DUSTS
- SMOKE/ FUMES FROM LASER/PLASMA CUTTING
- PHARMACEUTICAL / FOOD PROCESSES

STANDARD FEATURES:

- REVOLUTIONARY ROTO-PULSE® FILTER CLEANING SYSTEMS
- TRUE LEDGE-LESS CONSTRUCTION FOR OSHA/NFPA COMPLIANCE
- IMPROVED AIR DELIVERY SYSTEM—RATED FOR 5 MILLION CYCLES WITH NO REQUIRED MAINTENANCE
- LARGE CAPACITY DUST DRAWER OR HOPPER
- HINGED DOOR FILTER ACCESS
- FULL ELECTRICAL CONTROL PACKAGE—STD.
- STURDY SUPPORT SYSTEM—DOESN'T REQUIRE CROSS-BRACING IN SIESMIC ZONES 1, 2, & 3, OR IN WIND LOAD RATING ≤115 MPH
- HEAVY DUTY 12 GA. CONSTRUCTION
- RATED FOR INDOOR AND/OR OUTDOOR INSTALLATION
- INDOOR / OURDOOR RATED WITH NEW ROBUST VALVE SYSTEM RATED TO (-40°) - DOES NOT REQUIRE HEATERS IN COLD CLIMATES

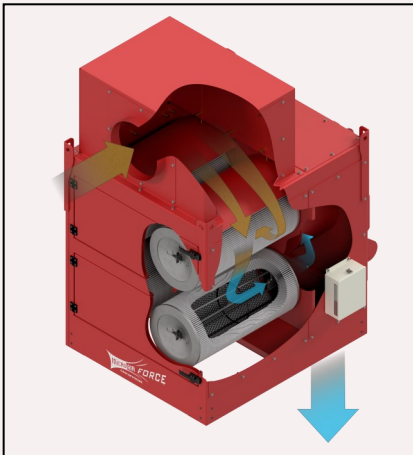
OPTIONS:

- HOPPER SETUP WITH LONG LEGS AND BARREL LID KIT. OR LOW PROFILE UNIT WITH DUST DRAWERS
- INLET PLENUM
- SILENCER.
- HEPA AFTERFILTER.
- VARIETY OF CARTRIDGE FILTER OPTIONS.
- 5HP, 7 1/2HP OR 10HP PLUG FANS
- 10, 15, 20 OR 30 HP TOP MOUNT / REMOTE MOUNT FANS
- MAGNAHELIC OR PHOTOHELIC GAUGES.
- DROP-OUT MODULES FOR HEAVY PARTICULATE
- INTELLI-TOUCH® ENERGY SAVING CONTROLS
- EXPLOSION VENTS, BACKBLAST DAMPERS, OSHA/NFPA COMBUSTIBLE DUST COMPLIANCE PACKAGE
- SPARK ARRESTORS
- PAINT OPTIONS: BAKED ENAMEL OR EPOXY COAT INSIDE & OUT

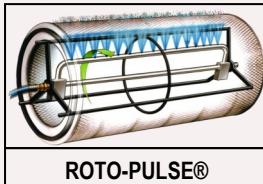
HOW IT WORKS:

Contaminated air is pulled into the inlet plenum at the top of the FRP6 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



ROTO-PULSE®

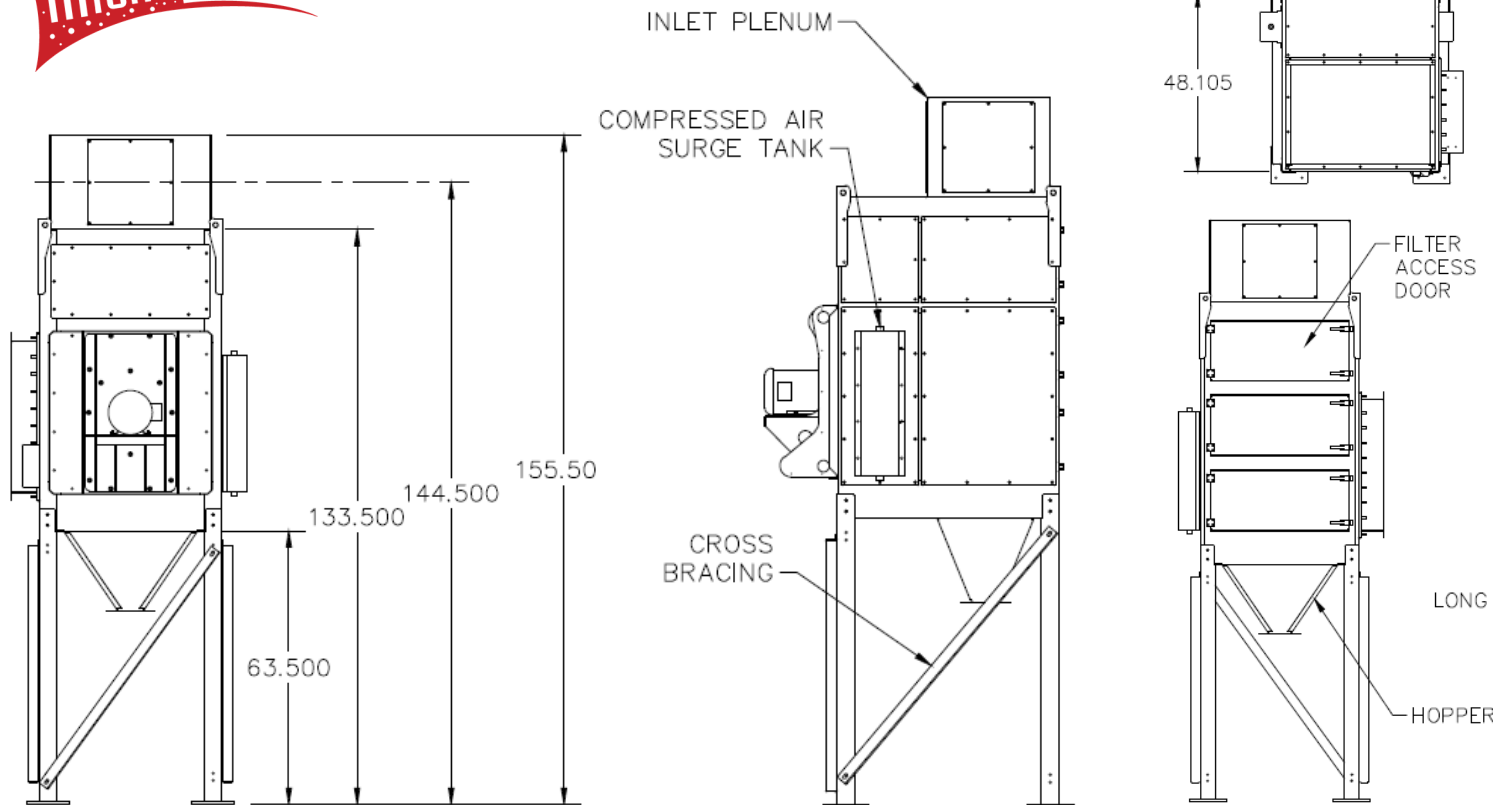


FRP6 With Cyclone Pre-Separator, Ducted to Paper Cutting Operation

exits the pre-drilled holes, resulting in air dispersement over the entire surface of the cartridge, providing for an improved cartridge cleaning cycle, compared to competitive backflush cleaning systems .



FRP6



FRP6 EQUIPPED WITH LONG LEGS/HOPPER—INLET PLENUM - EXPLOSION VENT

FRP6 SPECIFICATIONS:

OVERALL DIMENSIONS:

156" H X 54" W X 49" D WITH LONG LEGS/HOPPER & INLET PLENUM
108" H X 54" W X 49" D WITH SHORT LEGS/DUST TRAY & INLET PLENUM

WEIGHT:

*1,728 LBS APROX.
*2,000 LBS SHIPPING WEIGHT
*WEIGHT VARIES DEPENDING ON OPTIONS SELECTED

CABINET:

HEAVY DUTY 12 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
10, 15, 20, OR 30 HP TOP MOUNT / REMOTE MOUNT FANS AVAILABLE

BLOWER:

DIRECT DRIVE, HIGH STATIC, BACKWARD INCLINED PLUG FAN
10, 15, 20, OR 30 HP TOP MOUNT / REMOTE MOUNT FANS AVAILABLE

AIR VOLUME:

DEPENDENT UPON OPTIONS SELECTED—CONSULT FAN CURVES FOR
SPECIFICS

FILTER CHANGE INDICATOR:

MAGNEHELIC GAUGE OR PHOTOHELIC GAUGE

FILTRATION:

SIX EA. HIGH EFFICIENCY, 80/20 BLEND, FIRE-RETARDANT CARTRIDGE
FILTERS, 250 SF MEDIA PER FILTER, 1,500 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
15HP, 230/460V—35.0 / 17.5 AMP
20 HP, 230/460V—47.0 / 23.5 AMP
30 HP, 230/460V—69.0 / 34.5 AMP

NOISE LEVELS:

DEPENDENT UPON OPTIONS SELECTED—CONSULT FACTORY

WIND LOAD RATING:

115 MPH / 160 MPH WITH CROSS-BRACING

CABINET PRESSURE RATING:

+/- 30 INCHES WC

COLLECTION OPTIONS:

HOPPER WITH 10" DIA COLLAR OR DUST TRAY

SEISMIC DATA:

$S_s=0.551$ $S_1=0.132$

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