



The World Leader In Engine Exhaust Removal  
Systems for the Fire and EMS Industry

## PROPOSAL – AIRVAC 911™ Vertical Air Flow Exhaust Removal System

THE SALE OF AIRVAC 911™ ENGINE EXHAUST AIR FILTRATION SYSTEM, BY AIR VACUUM CORPORATION OF DOVER N.H., FOR REMOVAL OF HAZARDOUS EMISSIONS FROM FIRE, RESCUE, TRUCKING, AND OTHER HEAVY EQUIPMENT FLOOR AREAS.

THIS QUOTATION HAS BEEN PREPARED FOR: 1/9/2008



Contract Holder

Chief Gary Shepherd  
Rapid City Fire Dept  
10 Main St  
Rapid City, SD 57701-2832

### SPECIFICATIONS

**MODEL:** AIRVAC 911™ VERTICAL AIR FLOW DESIGN, CEILING HUNG, RE-CIRCULATING AIR FILTRATION SYSTEM. MANUFACTURED BY: AIR VACUUM CORPORATION, 6 FARADAY DRIVE, DOVER, NH 03820.

**FILTRATION:** “4-STAGE” FILTER PACK. ALL FILTERS ARE INDUSTRY STANDARD SIZED, UL TESTED & CERTIFIED.

**PRE-FILTER (STAGE 1):** 24" X 24" X 1". 3-PLY POLYESTER CONSTRUCTION. TWO LAYERS OF 16/40 DUAL DENIER POLY FIBERS WITH A FINAL DUST CATCHING ADHESIVE LAYER. SELF-SEALING FILTER WITH PRE-INSTALLED INTERNAL HEAVY GAGE WIRE FRAME. PERFORMANCE BASED ON A.S.H.R.A.E. 52.1-1992 TEST METHOD. CLASSIFIED AS A UL CLASS 2 FILTER, ACCORDING TO UL STANDARD 900 AND CAN 4-S111.

**MAIN MEDIA FILTER (STAGE 2):** 24" X 24" X 6". “HEPA MAX 3000” HIGH EFFICIENCY PARTICULATE AIR FILTER. DOP TESTED WITH 0.3 MICROMETER SIZED PARTICLES TO HAVE A **MINIMUM EFFICIENCY OF UP TO 95% AND EXCEEDS THE MAXIMUM EFFICIENCY OF 98% ASHRAE 52.1 TESTED FILTERS.** CONSISTS OF A PLEATED MEDIA PACK ENCLOSED WITHIN A GALVANIZED STEEL FRAME ASSEMBLY. ULTRA-FINE FIBERGLASS MEDIA FORMED IN A SERIES OF PLEATS SEPERATED BY CORRUGATED ALUMINUM DIVIDERS TO MAINTAIN UNIFORM SPACING BETWEEN EACH PLEAT FOR OPTIMAL AIRFLOW. CLASSIFIED CLASS 2 ACCORDING TO U.L. STANDARD 900 AND IS CLASSIFIED MERV 16 IN ACCORDANCE WITH ASHRAE STANDARD 52.2. FOR INSTALLATION SAFETY, TOTAL WEIGHT NOT TO EXCEED 16 LBS.

**GAS-PHASE EXTRACTOR (STAGES 3&4):** ONE 24" X 24" X 4", “MULTISORB 3000” BLENDED GAS PHASE EXTRACTOR. 50/50 RESPIRATOR GRADE ACTIVATED CARBON GRANUALS EFFECT FOR REMOVAL OF HIGH WEIGHT MOLECULAR GASES WITHIN DIESEL EXHAUST (VOC’S, HYDROCARBONS, BENZENE, OCTANE, METHANOL AND MORE) AND POTASSIUM PERMANGANATE FOR REMOVAL OF LIGHT WEIGHT MOLECULAR GASES (*SULFUR DIOXIDE, NITROGEN DIOXIDE, FORMALDEHYDE AND MORE*). EACH FILTER IS CONSTRUCTED WITHIN A 24ga METAL FRAME WITH INTERNAL "HONEYCOMB" CONTAINMENT STRUCTURE. 50/50 BLEND EQUATES TO 14 LBS EACH. FOR INSTALLATION SAFETY, TOTAL WEIGHT NOT TO EXCEED 28 LBS.

**CABINET CONSTRUCTION:** 18 & 16 GAUGE, ALL WELDED STEEL CONSTRUCTION. 25" X 26" X 28" CUSTOM GRAY POWDER COAT PAINT FINISH. **TWO HINGED ACCESS PANELS:** ONE, TO THE FILTER BANK AND THE OTHER TO THE MOTOR/BLOWER UNIT. A "DWYER" MAGNEHELIC STATIC PRESSURE GAGE, ALLOWS USER TO VISUALLY CHECK ON THE STATUS OF THE FILTER BANK. **FOUR HORIZONTAL & ADJUSTABLE AIRFLOW GRILLS:** "QUICK LATCH" FILTER COMPARTMENT WHICH IS CAPABLE OF HOLDING UP TO 15" OF FILTRATION!

**ELECTRICAL:** BLOWER MANUFACTURER RECOMMENDED 3/4 H.P., 1725 RPM, SINGLE PHASE ELECTRIC MOTOR, RESILIENT MOUNT, AUTOMATIC THERMAL PROTECTION, DUAL VOLTAGE 115/230, 10/5 F.L. AMPS, (230 VOLT ADD \$40 EA. UNIT TO BASE QUOTE) ELECTRIC MOTOR, RESILIENT MOUNT, AUTOMATIC THERMAL PROTECTION, ALL MOTORS ARE UL APPROVED. OPTION (208-230 VOLT MOTOR, ADD \$80 EA. UNIT TO BASE QUOTE.

**BLOWER:** CONTINENTAL CENTRIFUGAL IMPELLER AND FUNNEL CONE. NON-METAL & CHEMICALLY RESISTANT.

**AVEC CONTROL PANEL:** UL 508 CERTIFIED CUSTOM “AUTOMATIC VEHICLE EXHAUST CONTROL”, MULTI-CIRCUIT AUTOMATIC RESET TIMER CONTROL. TWO CIRCUIT CONFIGURATIONS RATED AT 20 AMPS PER. TIMING RANGE OF .1 TO 120 MIN. ENCLOSED WITHIN A NEMA-4 RATED ENCLOSURE, NECESSARY FOR APPLICATIONS WHERE WATER IS PRESENT (WASHING OF VEHICLES). MANUAL THREE POSITION SWITCH FOR: AUTO MODE, SYSTEM OFF & SYSTEM RUN OVERRIDE. LED "OPERATING" LIGHT.

**AUTOMATIC ACTIVATION SWITCHES:** (SEE ENCLOSURES) PHOTO ELECTRIC EYES ACTIVATE SYSTEM UPON VEHICLE MOVEMENT (OUTDOOR RANGES OF UP TO 200') AND MAGNETIC DOOR SWITCHES (ONE PER OVERHEAD DOOR).

**INSTALLATION:** “TURN KEY” AN ADDITIONAL CHARGE MAY APPLY IF THE LOCATION OF INSTALLATION DOES NOT HAVE SUFFICIENT ELECTRICAL CAPACITY TO INSTALL THE AIRVAC 911™ SYSTEM. (E.G.- 1 OPEN 20 AMP BREAKER PER UNIT + 1 FOR THE CONTROL PANEL). DUE TO THE FLUCTUATION OF REQUIREMENTS BOTH LOCALLY AND WITHIN EACH STATE, THE ABOVE PRICING DOES NOT INCLUDE THE COST OF ANY PERMITS THAT MAY BE REQUIRED UPON INSTALLATION. PLEASE CONTACT YOUR SALES REPRESENTATIVE FOR MORE DETAILS. NON GSA SCHEDULE ITEM.

## UPDATED PRICE QUOTATION – STATION #5

Assistant Chief Tim Kobes  
Rapid City Fire Dept  
10 Main St,  
Rapid City, SD 57701-2832

DATE: 1/9/2008  
PHONE: 605-394-4180  
FAX: 605-394-6754

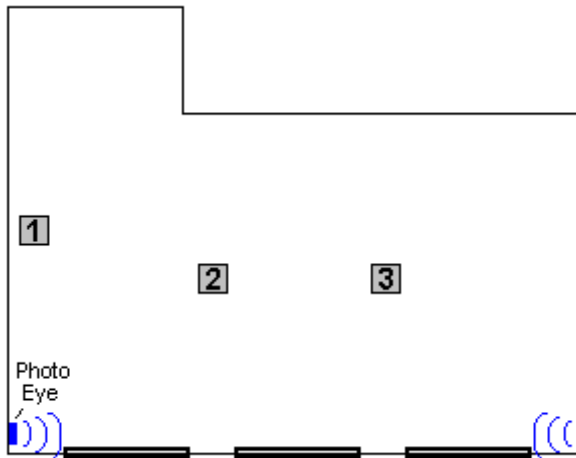
DESCRIPTION	QUANTITY	UNIT COST	TOTALS
AIR VAC-911 EXHAUST REMOVAL SYSTEM - Single Ph. 115V	3	\$2,940.00	\$8,820.00
AIR VAC-911 FILTER PACK (4-Stage Filter Pack, "Main Filters")	3	\$300.00	\$900.00
AIR VAC-911 FILTER GAUGE (Min. one per building section)	1	\$100.00	\$100.00
UL 508 CERTIFIED CONTROL PANEL - AVEC-4C	1	\$740.00	\$740.00
<b>ACTIVATION PACKAGE</b> - PD030TK 200' PHOTO EYE &	1	\$200.00	\$200.00
Nascom - N505ATM/ST TRACK MOUNTED DOOR SWITCH	3	\$38.00	\$114.00
CASE OF 12 PREFILTERS (Change on dates indicated below)	12	\$6.25	\$75.00
*ESTIMATED INSTALLATION "TURN-KEY" & DELIVERED	3	\$1,296.80	\$3,890.40
			<b>\$14,839.40</b>

\*\*Non-Schedule Item"

MADE IN THE USA

- ◆ *FREIGHT: FOB Origin* ◆ **TERMS: 1/2 Payment with the order & final payment prior to release.** ◆ *Lead-Time 8 to 10 weeks.* ◆ Buyer is responsible for all applicable taxes related to the purchase of product, shipping and installation or must provide all necessary tax-exempt certificates; state, local and/or county to Air Vacuum Corporation. ◆ Governmental Purchases please consult your sales rep for GSA price list.

The AIRVAC 911™ System is Provided With a FIVE YEAR WARRANTY On ALL Components (excluding consumable filters)



Approximate Filter Life Expectancy

Prefilters 3-4 months, Main filters 24+ months.

This quotation has been prepared By: Thomas J. Vitko Date: 1/9/2008  
*Quotation Prices are valid for 90 calendar days from quotation date.*

## UPDATED PRICE QUOTATION – STATION #7

Assistant Chief Tim Kobes  
 Rapid City Fire Dept  
 10 Main St,  
 Rapid City, SD 57701-2832

DATE: 1/9/2008  
 PHONE: 605-394-4180  
 FAX: 605-394-6754

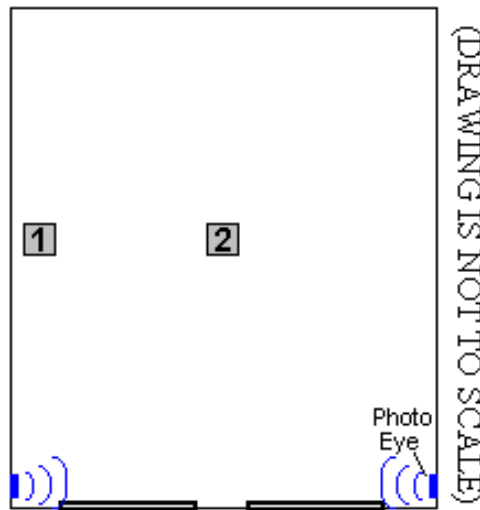
DESCRIPTION	QUANTITY	UNIT COST	TOTALS
AIR VAC-911 EXHAUST REMOVAL SYSTEM - Single Ph. 115V	2	\$2,940.00	\$5,880.00
AIR VAC-911 FILTER PACK (4-Stage Filter Pack, "Main Filters")	2	\$300.00	\$600.00
AIR VAC-911 FILTER GAUGE (Min. one per building section)	1	\$100.00	\$100.00
UL 508 CERTIFIED CONTROL PANEL - AVEC-2C	1	\$635.00	\$635.00
<b>ACTIVATION PACKAGE</b> - PD030TK 200' PHOTO EYE &	1	\$200.00	\$200.00
Nascom - N505ATM/ST TRACK MOUNTED DOOR SWITCH	2	\$38.00	\$76.00
CASE OF 12 PREFILTERS (Change on dates indicated below)	12	\$6.25	\$75.00
*ESTIMATED INSTALLATION "TURN-KEY" & DELIVERED	2	\$1,296.80	\$2,593.60
			<b>\$10,159.60</b>

\*\*Non-Schedule Item"

MADE IN THE USA

- ◆ *FREIGHT: FOB Origin* ◆ **TERMS: 1/2 Payment with the order & final payment prior to release.** ◆ *Lead-Time 8 to 10 weeks.* ◆ Buyer is responsible for all applicable taxes related to the purchase of product, shipping and installation or must provide all necessary tax-exempt certificates; state, local and/or county to Air Vacuum Corporation. ◆ Governmental Purchases please consult your sales rep for GSA price list.

The AIRVAC 911™ System is Provided With a FIVE YEAR WARRANTY On ALL Components (excluding consumable filters)



DRAWING IS NOT TO SCALE

Approximate Filter Life Expectancy

Prefilters 2-3 months, Main filters 12 to 18+ months.

This quotation has been prepared By: Thomas J. Vitko Date: 1/9/2008  
*Quotation Prices are valid for 90 calendar days from quotation date.*