TO: James L. App, City Manager

FROM: Ken Johnson, ES Chief

SUBJECT: Diesel Exhaust Removal Equipment Purchase

DATE: September 7, 2004

NEEDS: For the City Council to consider authorizing the purchase of diesel exhaust removal

equipment for Fire Station 2.

FACTS: 1 Council Resolution 04-15 authorized the acceptance of a Federal Emergency Management Agency Assistance to Firefighters Grant in the amount of \$84,375.

2. Approximately \$18,750 of the grant funds were allocated to exhaust removal equipment, as specified in the grant application.

3. Purchasing and Procedures Manual Section 7.0 allows for the use of sole source vendors when the City's purchasing authority believes the City's best interests are served by a particular vendor.

ANALYSIS &

CONCLUSION: The recommended vendor (Air Cleaning Systems) was the lowest responsive

bidder for Fire Station 1's existing exhaust system. The price quote for Fire Station 2 is commensurate with that provided in their bid for Fire Station 1.

Staff recommends acceptance of the quote for \$18,750, submitted by Air Cleaning Systems, and authorize the purchase of exhaust removal equipment specified above.

POLICY

REFERENCE: Purchasing and Payment Procedures Manual, Section 7.0

Council Resolution 04-15

FISCAL IMPACT:

None. As noted above, the City received FEMA grant in the amount of \$84,375 of which \$18,750 is earmarked specifically for this acquisition. The

grant funds cover the entire cost of the acquisition. The Council approved a budget appropriation for said grant funds by Resolution No. 04-015 on

January 20, 2004.

The balance of said grant funds will be used to complete the Firefighter Health

& Wellness Program.

OPTIONS:

a. Adopt Resolution No. 04-xx authorizing the Chief of Emergency Services to purchase \$18,750 in exhaust removal equipment from Air Cleaning

Systems; or

b. Amend, modify or reject above option.

RESOLUTION NO. 04-

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF PASO ROBLES AUTHORIZING THE PURCHASE OF EXHAUST REMOVAL EQUIPMENT

WHEREAS, Council Resolution 04-15 authorized the acceptance of a Federal Emergency Management Assistance to Firefighters Grant in the amount of \$84,375; and

WHEREAS, \$18,750 of the grant funds were allocated to purchase exhaust removal equipment; and

WHEREAS, the City has determined that Air Cleaning Systems is the sole source vendor; and

WHEREAS, Air Cleaning Systems submitted a quotation of \$18,750.

THEREFORE, BE IT HEREBY RESOLVED that the City Council of the City of El Paso de Robles authorizes the Chief of Emergency Services to purchase \$18,750 of exhaust removal equipment from Air Cleaning Systems.

PASSED AND ADOPTED by the City Council of the City of Paso Robles this 7th day of September 2004 by the following vote:

AYES: NOES: ABSTAIN: ABSENT:	
ATTEST:	Frank R. Mecham, Mayor
Sharilyn M. Ryan, Deputy City Clerk	



Paso Robles Department of Emergency Services

To:

Ken Johnson, Chief

From:

Kevin Taylor, Battalion Chief/

Date:

August 9, 2004

Subject:

Sole Source Vendor (Purchase Order Number 05FD001)

I recommend that we purchase the Diesel Exhaust Removal System for Fire Station 2 via the Sole Source Vendor provision in the Purchasing and Payment Procedures Manual. This system is funded 90% by the 2003 FEMA Health and Wellness Grant and 10% by monies allocated to Emergency Services via Council Resolution 04-15.

Section 7.0 – Sole Source Vendors states:

In the case of sole source vendors, quotation and bid requirements may be waived by the City's purchasing authority when in his judgment the City is best served by a particular vendor.

The executive manager shall submit a purchase order and written explanation as to justification of sole sourcing to the City's purchasing authority for approval. If approved by the purchasing authority, a copy of the written explanation shall be attached to the copy of the purchase order that is forwarded to Administrative Services.

Justification for use of the sole source vendor provision includes:

- 1. The recommended vendor (Air Cleaning Systems) was the lowest responsive bidder for Fire Station 1's exhaust system. The price quote for Fire Station 2 is commensurate with that provided in their bid for Fire Station 1.
- 2. Fire Station 1 is outfitted with an identical system. Duplicating the system at Fire Station 2 will allow for parts interchange and a single annual maintenance charge.
- 3. All experiences with the system at Fire Station 1 have been positive.
- 4. The system utilizes boots to capture the vehicle exhaust. These boots must be replaced periodically and are cheaper when purchased in quantity.

A purchase order is attached. Please contact me with any questions or comments.

City of El Paso de Robles

"The Pass of the Oaks"

1000 Spring Street, Paso Robles, CA 93446 (805) 237-3999 Fax (805) 237-6565 This number must appear on all invoices, cartons, packing slips, bills of lading & correspondence.

PURCHASE ORDER

No. 05FD001

VENDOR:

AIR CLEANING SYSTEMS 4096 Mission Blvd. Montclair, CA 91763 SHIP TO:

City of Paso Robles
Dept of Emergency Services
Fire Station #2
235 Santa Fe Avenue
Paso Robles, CA 93446

Vendor Number	1	Order Date	Date Required	Terms
Part Number and/or Description	Tax- able Qty	Unit Price	Non-Taxable Amount	Taxable Amount
Diesel Exhaust Removal Systems	1 1		18,750.00	
(Equipment to provide two (2) SBTA systems for back in		! !	10,730.00	*
coverage for two (2) vehicles. The 3 HP fan is sized to	ļļ	<u> </u>	; 1 1	: 2020000000000000000000000000000000000
accommodate both vehicles leaving at the same time if		 	1 4	
required. System includes UL certified electrical control		1 1	i 	!
		i ************************************	<u>.</u>	; 7 !
panel, auto start sensors, dedicated compressor,		j 	i 5	<u>j</u>
filter scrubber, complete pneumatic system for passive		1 	<u>.</u>	i
release, and all labor, at prevailing rates to complete	ļļ	; !		j
the installation.)	: 	j! !	<u>:</u>	<u> </u>
(Includes sales tax and freight, per Jim Bunting)		<u>:</u>	**************************************	<u>;</u>
7/		######################################	j 	
Net 30 days	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/	#	#
		!		Juntum 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		**************************************	!	#*************************************
	1 1	1	* * * * * * * * * * * * * * * * * * *	1 1
Account Distribution			\$ 18,750.00	Sub-Total -
Account Number	%	Amount	7% Sales Tax	_
100-220-5454-150		18,750.00	Freight	
		-	Purchase Order Total	\$ 18,750.00
		-	IMPORTANT:	
		/	1. Acknowledge Receipt	
	;	/	2. Advise Definite Ship I 3. Confirm Pricing	Date
	,	-	Buyer reserves the right to	-
		Copy (circle one)	completed within specified F.O.B. Paso Robles, CA, u	
Authorized Signature:		Vendor Department	An itemized packing list mi each shipment.	ust accompany
Department:		Finance Receiving/Payment	each omprion.	
City Manager:			igned after goods/services r	eceived & approved
(City Manager signature required for all Purchase Orders over \$2,500)		ion aymoni	Signature	Date



AIR CLEANING SYSTEMS

800-998-1974

4096 Mission Blvd. Montcleir, California 91763 IFAX 909-629-3236

email: info@aircleaningsystemsusa.com

April 10, 2003

City Paso Rot les Fire Department 900 Park St. Paso Robles Ca. 93446

Attention: Randy Harris

Subject: Costs for Plymovent Diesel Exhaust Removal Systems, Station # 2

The costs below are for equipment, all miscellaneous materials, installation (less electrical), and labor at prevailing rates. Freight costs and sales taxes are excluded as well.

Station # 2

\$18,750.00 This is for equipment to provide two (2) SBTA systems for back in coverage for two (2) vehicles. The 3 HP fan is sized to accommodate both vehicles leaving at the same time if required. System includes UL certified electrical control panel, auto start sensors, dedicated compressed, filter scrubber, complete pneumatic system for passive release, and all labor, at prevailing rates to complete the installation.

PAYMENT TERMS:

Net 30 days

EXPIRATION DATE:

Price will be in effect for the entire 2003 FEMA Grant Period.

PL SA JIM BUNTINS

EXCLUSIONS:

Electrical hook up and connection, Sales Tax, Freigh Will be included

AIR CLEANING SYSTEMS has been serving the California market since 1972, and currently services hundreds of customers each month by providing complete systems, installations, contract service and fi ter replacement. We own the building from which we operate our business, and keep in stock a full compliment of spare parts and filters for all the equipment we sell, as well as many other manufacturer's products. We are also a licensed contractor in the state of California (#772590).

Air Cleaning Systems performs all of the service (both warranty and non-warranty) for all of the systems we sell and install, as well as systems provided and installed by others. We always keep spare parts in stock that are most commonly required and generally can provide service within 24 hours, on stocked parts, as well as emergency service when required, including evenings and weekends. Many times we perferm the service the same day it is requested. In the unlikely

event the required part is not in our stock, the factory will ship the part for next day delivery if requested.

PLYMOVENT is the recognized leader in the field of source capture fume extraction. They are a worldwide company with facilities in New Jersey, Sweden, Canada, Germany, and Russia. Experience counts and we both have it!

Since 1990, Air Cleaning Systems and Plymovent have been providing diesel exhaust extraction systems to fire departments in the Southern California area. Over 450 fire stations in Los Angeles, Orar ge, Ventura, San Bernardino, Riverside, and San Luis Obispo counties, as well as Clark County Nevada su rently have Plymovent Diesel Exhaust systems in operation. In San Diego County, as well as Northern California, there are approximately another 400 fire stations currently using the same Plymovent system. These two areas are serviced by other authorized and certified Flymovent stocking distributors.

Plymovent and Air Cleaning Systems were chosen by the City of Los Angeles Fire Department as the product and contractor of choice to install the Plymovent Vehicle Exhaust Extractor System in all fire facilities that house diesel emitting apparatus in the City of Los Angeles. The recommendation was made by a work group, which was formed to evaluate how to reduce and/or eliminate diesel exhaust in the workplace. As the result of their extensive study and evaluation, the Plymoven: System was chosen and subsequently recommended. This project represents a total of 105 fi e stations. The project is underway at this time with approximately 50% of the fire stations completed and represents approximately \$3,500,000 in total scope.

All installations of Plymovent diesel smoke extraction systems are installed only by factory trained and certified ir stillers. This guarantees consistency with all installations. There are currently six (6) certified installation crews in Southern California that are authorized to install the Plymovent system.

Plymovent is an international company with their United States corporate facility headquartered in Edison, New Jersey, and is a Certified ISO 9001 supplier. Plymovent is also well financed and bondable for projects in excess of \$7,000,000 in scope. The company has a long history of stable ownership by the same partners.

We have included a copy of a narrative, which has been used throughout the country with success. Feel free to use this in its entirety for best results.

We appreciate your inquiry and we want to assist you in any way possible. Feel free to contact us on any other information you may need.

Sincerely,

Jim Cleary Air Cleaning Systems



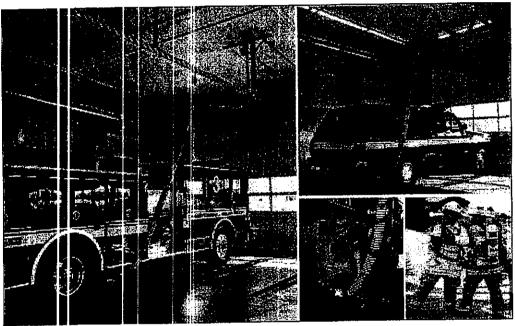
TECHNICAL DESCRIPTION

BSAB no. T0.3 Ser. no: SBT Date: Jan-00 Replace:

SBT-6-100, SBT-6-W-100, SET-6-125, SBT-6-W-125, SBT-10-100, SBT-10-W-100, SBT-10-12;, SBT-10-W-125

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Sliding Balancer Track System



Intended for vehicles with low level, side exhaust pipes.

Area of use:

SBT is used in fire and rescue stations where there is one vehicle parked behind the exit door waiting an emergency call. The distance from door to vehicle-exhaust being a maximum of 10 m. The exhaust being side word.

Method of Operation.

An automatic, pneumatic controlled exhaust gas extraction system, specially designed for fire and rescue vehicles with lovelevel, side exhaust pipes. The system is used to remove the poisonous petrol and diesel gas furnes direct at the emission source, the exhaust pipe.

When the vehicles are on their way out of the station, the extraction hose, connected to the exhaust by a special device called a GRABBER®, moves along with the vehicle.

Poisonous clesel gases pass from the GRABBER®, up the extraction hose and into the ducting and extraction fan before escaping to the atmosphere.

As the velicles drive out through the doors, the trolley moves over a release valve on the track, which releases the air pressure in the GRABBER® allowing it to disconnect the exhaust pipe.

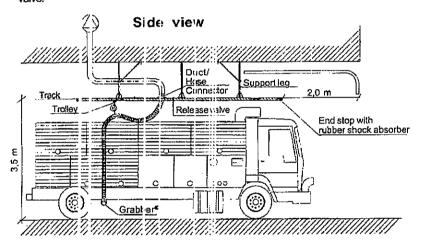
Product Description

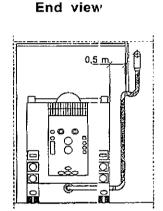
The SBT sys ein consists of a special and easily visable extraction hose assembly with a unique pneumatic exhaust connection called the PlymoVent Grabber®. This resembles a glove which, when filled with compressed air, makes a total seal around the exhaust pipe.

The extraction nose has an inbuilt safet, disconnect coupling and a Manual Fill Deflation Value. It is suspended on a balancer block, safety hole hang from a special troller, running inside an aluminium profile above and to the side of the vehible

The aluminium profile, track, is designed to the three (3) section principle of which wc (2) sections have open areas, one on the underside and one on the overside. The overside open area is used for positioning the support legs, duct and exhaust hose connector and the release valve.

The underside open area is used for positioning the end stops and for the sliding the trolley. Upon an alarm call the hose assembly and the trolley move along with the vehicle, the trolley slides under a release valve immediately releases the air pressure in the Grabber®. The trolley travels to the rubber shock absorber at the exit end, taking up the kinetic energy from the trolley and the hose assembly. On the return of the vehicle to the station, the Grabber® is connected to the exhaust pipe and activiated by simply pressing the MFD valve as the vehicle backs through the gate. At the same time the fan automatically starts up and the vehicle continues to its rest position.

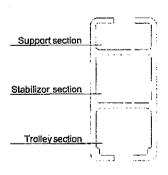




Overview

0.5 m

Track section



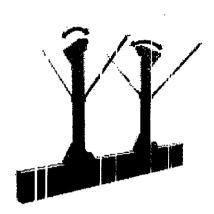
Advantages

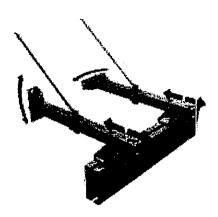
- Aluminium r rofiles; Light and strong
- End stops with rubber shock absorbers; to take up kinetic energy from the trolleys.
- Adjustable release points depending on the speed of the call-out vehicle.
- Pre-fitted a traction has e with easily seen black/yellow markings.
- Unique prie imatic exhaust pipe connector

- "GRABBER®"; to suit different sizes of exhaust pipe. 100 % tight against diesel exhaust fume leaks on startup.
- Safety disconnect coupling; Fail safe system, easily reconnectable.
- Automatic start-stop of fan by exhaust gas start-up detector. Reduces electric costs in installation whilst giving 100 % security that fans start or stop when vehicles start or stop.

Delivery

The track is delivered in parts together with a product manual. Fan, fan control device and compressed air supply need to be added individually depending on application.





Vertical mounting;

Horizontal mounting

The SBT, in all different versions, is built out of a few standard components which will be described in this section.

Support leg:

The aluminium support leg is used for both vertical and horize mal mounting. The standard length is 19'(5790 mm) and it has to be cut to proper lengths. The dimens on is $2'' \times 2'' \times 0.1''$ (50x.50x2,5 mm).



Prod. No SBT-SL

Side brace

There are hiee different lengths available, $20'' (500 \, \text{mm}), 30'' \, 750 \, \text{mm}$ and $6' (1800 \, \text{mm})$. The brace can be mounted separately or in pairs using the same brackets.

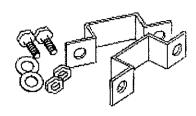


Prod. No SBT-SB-S, 20" (500 mm) Prod. No SBT-SB-M, 30" (750 mm) Prod. No SBT-SB-L, 6'(1800 rm)

Deliver,

Side brace :lamp kit

The kit includes two all minium brankets for one or two side braces.



Prod. No. SBT-SBCK

Adjustal le mounting kit (vertical)

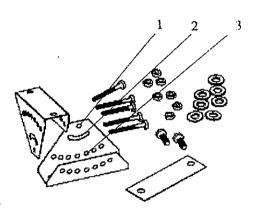
The two brackets are exactly the same. They can also be used if the roof is angled and they can be mounted n both directions.

Maximur rangle is 30 degrees.

In order to fasten the bracket to the support leg three through holes have to be crilled. Start by drilling hole "1" and "2 'using the drilling template "SBT-DT".

The end on he template with an "arrow" shall be towards the end of the support leg.

Then adjust the bracket to an exact position and fix it by drilling a third hole '3", using the most centrered hole from the top row.



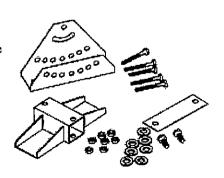
Prod. No. SBT-MKV



Prod. No. SBT-DT

Adjustable mounting kit (horizontal)

The bracket that shall be used against the wall is the same as for the vertical kit but on the track side there is a new bracket which is adjustable in relation to the support lag. When the bracket is fixed in right position two through holes in the support legs are drilled using the bracket as a template.

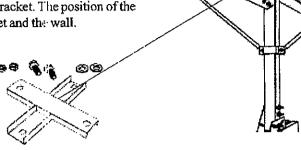


Prod. No. SBT-MKH

Delivery

Universal mounting cross

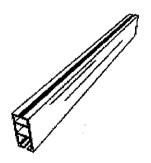
The cross can be used: fithe wall or roof is angled but the only available beam is going in the "wrong" direction for the standard bracket. The position of the cross is between the bracket and the wall.



Prod. No SBT-UMC

SBT track

The track is delivered in the same length as the support leg, 19'(5790 mm) or 9,5'(2895 mm)



Prod. No. SBT-TRACK Prod. No. SBT-TRACK-1/2

Hose kit

There are 7 hose kits a vailable which also contents the hose conjector.

- -Hose di: nieters are 4" (100 mm) or 5" (125 mm).
- -Length 9,7'(6m) or 32,8'(10 m).
- -Grabbei 120 or 160

Prod. No.

SBT-HK - 00-6-100

SBT-HK - 00-6-120

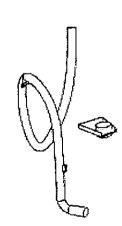
SBT-Hk - 00-6-160

SBT-Hk - 00-10-120

SBT-Hk - 00-10-160

SBT-HK - .25-6-160

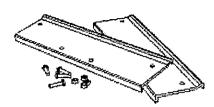
SBT-Hk - 25-10-160



Delivery

Splicing sleeve

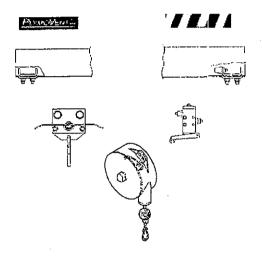
If the tracle is longer than 19' (5790 mm) a splicing sleeve shall be used.



Common raaterial

Common material that are always included are gathered in der product no "SBT-KIT". Material included in the kit are for example release valve, end stop, haz in I stripe etc.

If there s a need for a special part from any of above k is see spare part list.



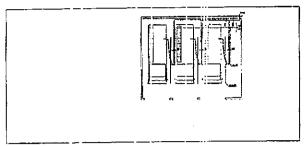
Service and maintenance

Only light service and maintenance is required on the SBT system.

For further information see SBT maintenance instruction.

The Plymo\/ent factory trained and certified service organization offers agreements for service and main tenance covering the complete installation.

System solutions and design



A three bay application with all vehicles required at an alarm situation.

Fan to be designed for e chaust extraction from all vehicles at the same time - 100% diversity.

Fan control system is designed to provide the most efficient sollution. Automatic fan star by pressure sensors, togated in dire; when the vehicle starts the engine. The control unit, Prou-1000, provides option with manual start and step for servicing.

Advantages

- Automati : fan start wiren vehicle engine is switched on.
- Low voltage control system for simple and cost effective installation.
- · Adjustable fan running time between 7 sec. 6 min.
- Energy saving and efficient with automatic motorized dampers. ASE-12.

Guide values for airflow

Chief and c ff cer vehicle:

1001/s = 360m3/h

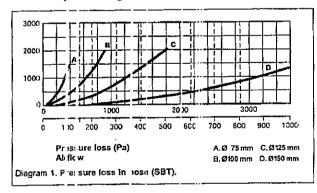
Fire truck up to 10 l'engine: Fire truck up to 16 l'engine: 720 m³/h 1080 m³/h

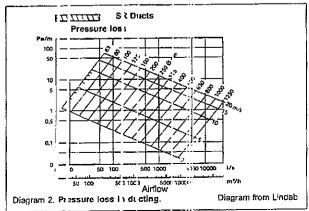
Fire truck up to 24 l engine:

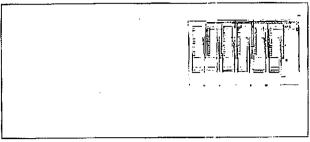
1800 m³/h

Air velocity in ducting:

10 - 15 m/s



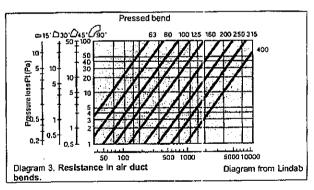


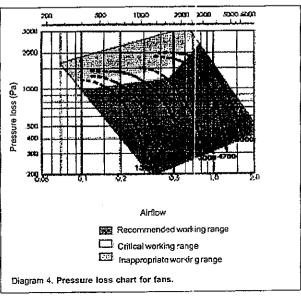


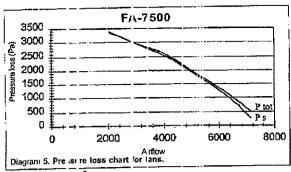
A six bay application with three vehicles required at an alarm situation.

Fan to be designed for exhaust extraction from three vehicles at the same time -50% diversity.

Fan control system is designed provide the most energy saving and efficient sollution. Automatic motorized dampers, ASE-12, allows extraction only from the vehicle with the motor running. Fan and dampers are activated automaticly when the vehicle starts by the pressure sensor. The control unit, PCU-1000, provides option with manual start and stop for servicing.







Accessories

Fans

A strong fan with an even air ow is a prerequisite for an efficient system. The new fans from Ph movent are an optimal combination of noise level, ai flow and power consumption. For further information ask for the technical

description of he PlymoVent fans

1.5			
Order no	Ai flow	Voltage	Amperag
•	m /t	V	Α
FS-1300	14 00	415, 3-pt	1.1
FS-1800	18 00	415, 3-pt	1.5
FS-2100	21)0	415, 3-pt	2,0
FS-3000	30 00	415, 3-pt	2.7
FS-4700	47.00	415, 3-pł	4.9
FA-6000	6000	415, 3-pl	8,2
FA-7500	7: 00	415, 3-pt	10,4
FA-9000	90 00	415, 3-pl	13,9
FA-11000	11000	415, 3-pl	19,9

There is a Priscure loss chart under design diagram:





100

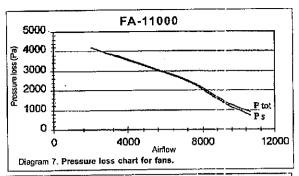
Fan Outlet

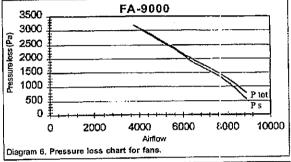
I all Out		
Order no	Description	
OL-250-1	1)utlet Ø 250 1	nm for fan 3000.
OL-250-2	r)etlet Ø 250 i	nm for fan 4700 and 6000.
OL-315) otlet Ø 315	nm for fan 4700 and 6000.
OL-400	Outlet Ø 400	nm for fan 7500 and 9000.
QL-500	Dutlet Ø 500	nm for fan 11000.

Sound damper + knee pipe

When the fan is positioned or tside in a living area or inside the fine is ation the noise level can be redused. The efore we recommend an installation of a sound dam ie at the exhaust side of the fair. (Sound damp and are not kept in stock by PlymoVent).







Grabberstop				
Order no	Description			
GS-75	Tail pipe adaptor/Grabberstop	75 mm		
GS-100	Tall pipe adaptor/Grabberstop	Ø100 mm		
GS-125	Tail pipe adaptor/Grabberstop	Ø125mm		
GS-150	Tail pipe adaptor/Grabberstop	Ø150mm		

PC-500

Pressure sensor for automatic exhaust fan start. One (1) sensor required per rail. To be used together with control unit, PCU-1000. For further information ask for the technical description of fan control device.

Order no Power supply PC-500 24 V

PC-500



PCU-1000

Automatic control unit for exhaust fan control. The exhaust fan can be manually controlled or automatic controlled by pressure sensor, PC-500. For further information ask for the technical description

of fan control device.

Order no Power supply Multivoltage 115, 208, 230, 380, 460, 575 V, 3-phase PCU-1000



Automatic Damper ASE-12 E

Fully automatic, motorised damper, Ø160 mm, with built-in energy saver. Adjustable delay 7sec - 6 min. For further information ask for the technical description of fan control device.

Order no Power supply
ASE-12E Multivoltage 115, 208, 230, 380, 460, 575 V, 1-phase

