

# Product range

## Compact systems

### Exhaust extraction rail channels

### Hose reels

### Underfloor systems

### Exhaust gas hoses and high-temperature hoses

### Exhaust funnels and accessories

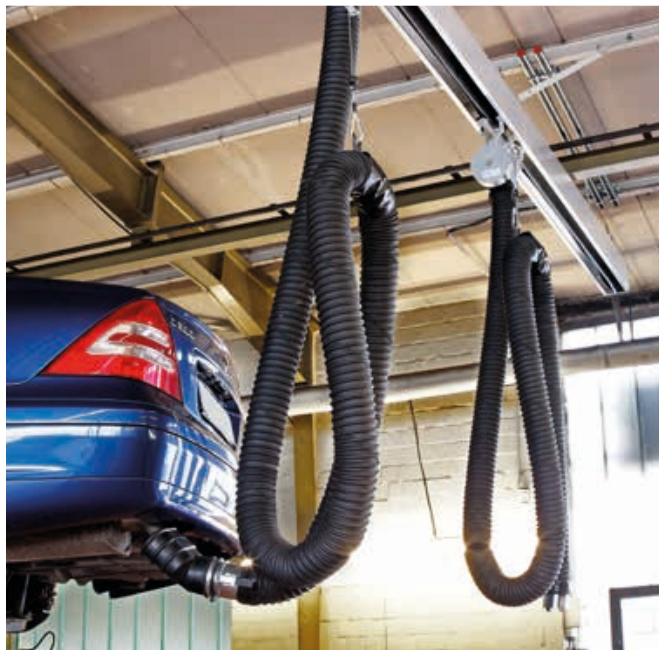
### Fans and accessories

### Pipework with accessories

### Welding fume extraction systems with accessories

### Mobile welding smoke filtering devices

Prices valid from  
1. January 2023



**Exhaust extraction systems  
for work shops and garages.**

**EXA<sup>®</sup> systems – practical solutions**



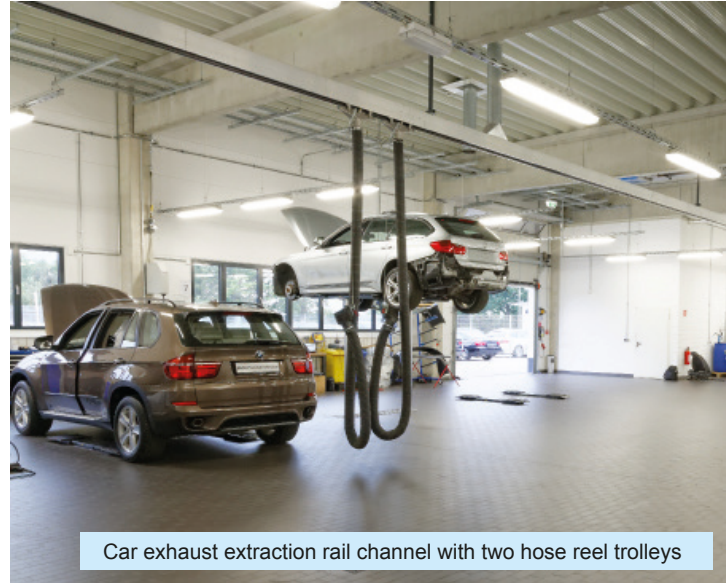
Group	Item	Page
1.1	Compact systems, with accessories	5 – 7
1.2	AU systems, with accessories	8 – 9
1.3	Mobile systems, with accessories	10 – 11
1.4	Extraction systems for firefighters, with accessories	12 – 13
2.1	Exhaust gas hoses in non-overrunning version	14 – 16
2.2	Exhaust gas hoses in overrunning version	17 – 19
2.3	Exhaust gas hoses in high-temperature version	20 – 22
3.1	Exhaust funnels, with accessories	23 – 36
3.2	Hose forks, with accessories	37 – 38
4.1	Exhaust extraction rail channel, Type I, with accessories	39 – 43
4.2	Exhaust extraction rail channel, Types II and III, with accessories	44 – 48
4.3	Channel hangers for wall and ceiling mounting	49 – 50
5.1	Cast aluminium fans, Types SVD and SVE, with accessories	51 – 54
5.2	Cast aluminium fans, Type RD, with accessories	55 – 58
5.3	Steel sheet fans, Type MSK, with accessories	59 – 61
5.4	Airflow controllers for fans	62
6.1	Hose reels – mechanical	63 – 65
6.2	Hose reels – electrical	66 – 68
6.3	Hose reel accessories	69
7.0	Pipework, with accessories	70 – 77
8.0	Underfloor systems, with accessories	78
9.0	Welding fume extraction systems, with accessories	79 – 80
10.0	Mobile welding smoke filtering devices, with accessories	81 – 82
11.1	Clip-on filters, with accessories	83
11.2	Paint mist extraction system	84
12.0	Tests for exhaust extraction systems	85
13.0	Statutory regulations	86 - 87
14.0	Terms and conditions	88

**We will be happy to create a non-binding and free-of-charge offer to configure a system tailored to your needs.**

# suitable solutions for all requirements



Automatic system for emergency vehicles



Car exhaust extraction rail channel with two hose reel trolleys



Fan packed in a weatherproof box



Hose reel with a central fan



Electric hose reel with flanged fan



Mobile welding fume filter





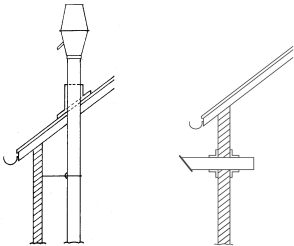
Stationary welding fume suction arm with fan



**EXA® – Systems – Practical Solutions**




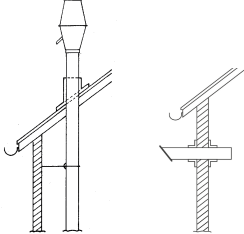
Item	Item no.	EUR
<p><b>Simple and complete exhaust extraction systems for your workshop or direct reception.</b>  <b>Optionally, all systems are available in a 230 V version for a surcharge.</b></p> <p><b>Mini Kit I for passenger cars</b>                      suitable for direct reception,                      in detail consisting of:</p> <ul style="list-style-type: none"> <li>• Fan, Type SVD 8 ( 0.6 kW, 1.380 m³/h, 400 V )</li> <li>• Wall mount for fan, with accessories</li> <li>• Motor circuit breaker with casing</li> <li>• Exhaust hose, DN 100, length 5.0 m, with accessories</li> <li>• Exhaust funnel, round, Type 3040 ( 75 – 125 mm )</li> <li>• Wall-mounted hose holder</li> </ul>	101 001	1.550,--
<p><b>Mini Kit II for passenger cars and vans</b>                      suitable for direct reception,                      in detail consisting of:</p> <ul style="list-style-type: none"> <li>• Fan, Type SVD 10 ( 0.75 kW, 1.620 m³/h, 400 V )</li> <li>• Wall mount for fan, with accessories</li> <li>• Motor circuit breaker with casing</li> <li>• Exhaust hose, DN 100, length 5.0 m, with accessories</li> <li>• Exhaust pincer, oval, Type 3191 ( 75 – 155 mm )</li> <li>• Wall-mounted hose holder</li> </ul>	101 002	1.745,--
<p><b>Mini Kit III for vans</b>                      suitable for individually located exhaust extraction, in detail consisting of:</p> <ul style="list-style-type: none"> <li>• Fan, Type SVD 12 ( 1.2 kW, 2.220 m³/h, 400 V )</li> <li>• Wall mount for fan, with accessories</li> <li>• Motor circuit breaker with casing</li> <li>• Exhaust hose, DN 125, length 5.0 m, with accessories</li> <li>• Exhaust pincer, round, Type 3110 ( 65 – 170 mm )</li> <li>• Wall-mounted hose holder</li> </ul>	101 003	1.890,--
<p><b>Mini Kit IV for motorcycles with single exhaust pipe</b>                      suitable for motorcycle workshop,                      in detail consisting of:</p> <ul style="list-style-type: none"> <li>• Fan, Type SVD 8 ( 0.6 kW, 1.380 m³/h, 400 V )</li> <li>• Wall mount for fan, with accessories</li> <li>• Motor circuit breaker with casing</li> <li>• Exhaust hose, DN 75, length 5.0 m, with accessories</li> <li>• Exhaust funnel, round, Type 3050 ( 75 – 145 mm )</li> <li>• Wall-mounted hose holder</li> </ul>	101 004	1.510,--







Item	Item no.	EUR
<p><b>Mini Kit V for motorcycles with two exhaust pipes</b></p> <p>suitable for motorcycle workshop, in detail consisting of:</p> <ul style="list-style-type: none"> <li>• Fan, Type SVD 10 ( 0.75 kW, 1.620 m<sup>3</sup>/h, 400 V )</li> <li>• Wall mount for fan, with accessories</li> <li>• Motor circuit breaker with casing</li> <li>• Exhaust hose, DN 100, length 5.0 m, with accessories</li> <li>• Y-element with two hoses of 1.5 m length each</li> <li>• Two exhaust funnels, round, Type 3050 ( 75 – 145 mm )</li> <li>• Wall-mounted hose holder</li> </ul>	101 005	1.645,--
 <p><b>Mini Kit – Passenger Cars – Compact Hose Reels ( Reception )</b></p> <p>suitable for direct reception, in detail consisting of:</p> <ul style="list-style-type: none"> <li>• Spring hose reel ( drum width 600 mm ) with accessories and retaining washer.</li> <li>• Fan, Type SVD 8 ( 0.6 kW, 1.380 m<sup>3</sup>/h, 400 V ) with accessories ( laterally flanged to the reel )</li> <li>• Motor circuit breaker with casing</li> <li>• Exhaust hose, DN 100, length 7.5 m, with accessories</li> <li>• Exhaust pincer, oval, Type 3191 ( 75 – 155 mm )</li> </ul>	101 070	2.385,--
<p><b>Mini Kit – Passenger Cars – Compact Hose Reels ( Workshop )</b></p> <p>suitable for passenger car workshops, in detail consisting of:</p> <ul style="list-style-type: none"> <li>• Spring hose reel ( drum with 850 mm ) with accessories and retaining washer.</li> <li>• Fan, Type SVD 10 ( 0.75 kW, 1.620 m<sup>3</sup>/h, 400 V ) with accessories ( laterally flanged to the reel )</li> <li>• Motor circuit breaker with casing</li> <li>• Exhaust hose, DN 100, Length 10.0 m, with accessories</li> <li>• Exhaust pincer, oval, Type 3191 ( 75 – 155 mm )</li> </ul>	101 075	2.710,--
<p><b>Mini Kit – Trucks – Compact Hose Reels</b></p> <p>suitable for truck workshops, in detail consisting of:</p> <ul style="list-style-type: none"> <li>• Spring hose reel ( drum width 850 mm ) with accessories and retaining washer.</li> <li>• Fan, Type SVD 12 ( 1.2 kW, 2,220 m<sup>3</sup>/h, 400 V ) with accessories ( laterally flanged to the reel )</li> <li>• Motor circuit breaker with casing</li> <li>• Exhaust hose, DN 125, length 7.5m, with accessories</li> <li>• Exhaust pincer, round, Type 3110 ( 75 – 170 mm )</li> </ul>	101 060	2.925,--


Item	Item no.	EUR																																													
<p><b>Mini Kit – Passenger cars exhaust extraction rail channel for workshop</b></p> <p>compact and very flexible solution for passenger car and van workshops, in detail consisting of:                      Exhaust extraction rail channel with connectors, mounting elements, two end caps, two stoppers, one top outlet for direct fan assembly, standard hangers ( every 4.0 m ), fan with accessories and motor circuit breaker, hose reel trolleys with 5.0 m exhaust hose and exhaust pincer Type 3191 as well as accessories.                      Optionally, all systems are available in 230 V version for a surcharge. Other versions available on request.                      For example, equipment necessary for the AU checks.</p>  <table border="1" data-bbox="604 881 1183 1435"> <thead> <tr> <th>Length</th> <th>Trolley</th> <th>Fan</th> </tr> </thead> <tbody> <tr><td>6.0 m</td><td>1</td><td>SVD 8</td></tr> <tr><td>8.0 m</td><td>1</td><td>SVD 8</td></tr> <tr><td>8.0 m</td><td>2</td><td>SVD 10</td></tr> <tr><td>10.0 m</td><td>1</td><td>SVD 8</td></tr> <tr><td>10.0 m</td><td>1</td><td>SVD 10</td></tr> <tr><td>10.0 m</td><td>2</td><td>SVD 10</td></tr> <tr><td>12.0 m</td><td>1</td><td>SVD 10</td></tr> <tr><td>12.0 m</td><td>2</td><td>SVD 10</td></tr> <tr><td>14.0 m</td><td>2</td><td>SVD 10</td></tr> <tr><td>16.0 m</td><td>2</td><td>SVD 10</td></tr> <tr><td>18.0 m</td><td>2</td><td>SVD 10</td></tr> <tr><td>14.0 m</td><td>3</td><td>SVD 12</td></tr> <tr><td>16.0 m</td><td>3</td><td>SVD 12</td></tr> <tr><td>18.0 m</td><td>3</td><td>SVD 12</td></tr> </tbody> </table> <p>Surcharge for additional hose reel trolleys with integrated shut-off valve, 5.0 m exhaust hose and exhaust pincer, with accessories ( per kit ).</p>	Length	Trolley	Fan	6.0 m	1	SVD 8	8.0 m	1	SVD 8	8.0 m	2	SVD 10	10.0 m	1	SVD 8	10.0 m	1	SVD 10	10.0 m	2	SVD 10	12.0 m	1	SVD 10	12.0 m	2	SVD 10	14.0 m	2	SVD 10	16.0 m	2	SVD 10	18.0 m	2	SVD 10	14.0 m	3	SVD 12	16.0 m	3	SVD 12	18.0 m	3	SVD 12	<p>101 071</p> <p>101 072</p> <p>101 073</p> <p>101 080</p> <p>101 081</p> <p>101 082</p> <p>101 083</p> <p>101 084</p> <p>101 085</p> <p>101 086</p> <p>101 087</p> <p>101 091</p> <p>101 092</p> <p>101 093</p> <p>101 150</p>	<p>2.925,--</p> <p>3.250,--</p> <p>4.110,--</p> <p>3.500,--</p> <p>3.585,--</p> <p>4.365,--</p> <p>4.615,--</p> <p>4.870,--</p> <p>5.190,--</p> <p>5.515,--</p> <p>5.765,--</p> <p>6.060,--</p> <p>6.385,--</p> <p>6.630,--</p> <p>870,--</p>
Length	Trolley	Fan																																													
6.0 m	1	SVD 8																																													
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14.0 m	3	SVD 12																																													
16.0 m	3	SVD 12																																													
18.0 m	3	SVD 12																																													
 <p><b>Accessories for pressure side, DN 160 or DN 200</b></p> <p>Roof venting kit, DN 160 ( please advise roof pitch )</p> <p>Roof venting kit, DN 200 ( please advise roof pitch )</p> <p>Wall venting kit, DN 160, with deflector hood</p> <p>Wall venting kit, DN 200, with deflector hood</p> <p>Wall-mounted venting kit, DN 160, with venting adapter</p> <p>Wall-mounted venting kit, DN 200, with venting adapter</p>	<p>716 002</p> <p>720 002</p> <p>716 003</p> <p>720 003</p> <p>716 004</p> <p>720 004</p>	<p>395,--</p> <p>450,--</p> <p>295,--</p> <p>335,--</p> <p>155,--</p> <p>165,--</p>																																													
<p><b>Notes:</b></p> <p>additional hangers for extraction rail channel are available in different versions.</p> <p>– see channel hangers ( Group 4.3 )</p>																																															



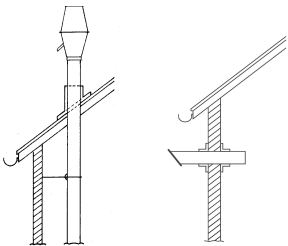
Item	Item no.	EUR
 <p><b>Exhaust extraction systems for the AU testing, with accessories in accordance with the provisions of TRGS 554. Optionally, all systems are available in 230V version for a surcharge.</b></p> <p><b>Compact System VI – Passenger Cars – AU for exhaust emission analysis for petrol and diesel passenger cars, in detail consisting of:</b></p> <ul style="list-style-type: none"> <li>• Fan, Type SVD 10, with accessories ( 0.75 kW, 1.620 m³/h, 400 V, 50 Hz )</li> <li>• Wall mount for fan, with accessories</li> <li>• Motor circuit breaker with casing</li> <li>• Exhaust hose, DN 150, length 5.0 m, with accessories</li> <li>• Exhaust funnel with height-adjustable and tilting tripod</li> <li>• Wall-mounted hose holder</li> </ul>	101 006	1.790,--
<p><b>Compact System VII – Passenger Cars / Vans – AU for exhaust emission analysis for petrol and diesel passenger cars and vans, in detail consisting of:</b></p> <ul style="list-style-type: none"> <li>• Fan, Type SVD 12, with accessories ( 1.2 kW, 2.220 m³/h, 400 V, 50 Hz )</li> <li>• Wall mount for fan, with accessories</li> <li>• Motor circuit breaker with casing</li> <li>• Exhaust hose, DN 150, length 5.0 m, with accessories</li> <li>• Exhaust funnel with height-adjustable and tilting tripod</li> <li>• Wall-mounted hose holder</li> </ul>	101 007	1.900,--
<p><b>Compact System VIII – Trucks / Vans – AU for exhaust emission analysis for passenger cars and vans, in detail consisting of:</b></p> <ul style="list-style-type: none"> <li>• Fan, Type SVD 14, with accessories ( 2.4 kW, 3.120 m³/h, 400 V, 50 Hz )</li> <li>• Wall mount for fan, with accessories</li> <li>• Motor circuit breaker with casing</li> <li>• Exhaust hose, DN 200, length 5.0 m, with accessories</li> <li>• Exhaust funnel with height-adjustable and tilting tripod</li> <li>• Wall-mounted hose holder</li> </ul>	101 008	2.815,--
 <p><b>Junction piece, for a 2<sup>nd</sup> exhaust system – passenger cars</b> is fitted between the hose and the standing funnel to vehicles with left- and right-hand exhaust pipes to provide suction also to a 2<sup>nd</sup> exhaust at the AU.</p>	327 076	285,--



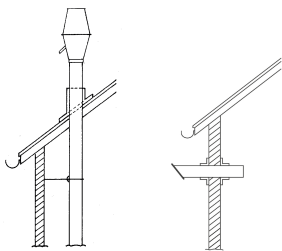
Item	Item no.	EUR
 <p><b>Spacer kit ( total length 3.0 m )</b> located between the fan and exhaust hose to extend the reach of the exhaust tube when the fan is mounted high on the wall. for Compact Systems VI and VII ( DN 150 / 160 ) for Compact System VIII ( DN 200 )</p>	<p>716 001 720 001</p>	<p>160,-- 185,--</p>
 <p><b>Compact System XI – Passenger Cars – Compact hose reel, mechanical version, well suited for the automotive workshop to perform petrol and diesel AU testing, in detail consisting of:</b></p> <ul style="list-style-type: none"> <li>• Spring hose reel ( drum width 850 mm ) with accessories and retaining washer</li> <li>• Fan, Type SVD 12, with accessories ( 1.2 kW, 2.200 m<sup>3</sup>/h, 400 V, 50 Hz ) ( laterally flanged to the reel )</li> <li>• Motor circuit breaker with casing</li> <li>• Exhaust hose, DN 125, length 7.5 m, with accessories</li> <li>• Exhaust funnel with height-adjustable and tilting tripod, including hose quick coupling</li> </ul>	<p>101 011</p>	<p>3.185,--</p>
 <p><b>Compact System XII – Passenger Cars – Compact hose reel, electrical version, well suited for the automotive workshop to perform petrol and diesel AU testing, in detail consisting of:</b></p> <ul style="list-style-type: none"> <li>• Spring hose reel ( drum width 850 mm ), switchgear, motor circuit breaker, hanging lights and accessories.</li> <li>• Fan, Type SVD 12, with accessories ( 1.2 kW, 2,200 m<sup>3</sup>/h, 400 V, 50 Hz ) ( laterally flanged to the reel )</li> <li>• Exhaust hose, DN 150, length 7.5 m, with accessories</li> <li>• Exhaust funnel with height-adjustable and tilting tripod, including hose quick coupling</li> </ul>	<p>101 012</p>	<p>3.885,--</p>
 <p><b>Accessories for pressure side, DN 160 or DN 200</b> Roof venting kit, DN 160 ( please advise roof pitch ) Roof venting kit, DN 200 ( please advise roof pitch ) Wall venting kit, DN 160, with deflector hood Wall venting kit, DN 200, with deflector hood Wall-mounted venting kit, DN 160, with venting adapter Wall-mounted venting kit, DN 200, with venting adapter</p>	<p>716 002 720 002 716 003 720 003 716 004 720 004</p>	<p>395,-- 450,-- 295,-- 335,-- 155,-- 165,--</p>
<p><b>Notes:</b> other versions available on request.</p>		





Item	Item no.	EUR
<p><b>Designed for car and truck repair shops as well as dredging and construction vehicles, mobile exhaust extraction systems represent a very flexible alternative to stationary exhaust extraction systems when no structural measures for a stationary facility are available.</b>  <b>The systems are delivered ready for use with cable and plug.</b>  <b>Mobile exhaust extraction system for cars and vans to perform the AU test for petrol and diesel vehicles.</b></p>  <p>Mobile exhaust extraction system for cars and vans consisting of a tilt-safe and extremely smooth ventilator trolley featuring two fixed and two swivel casters with sliding handle, exhaust fan ( 0.75 kW, 1.620 m³/h ), Type SVE 10 ( 230 V ) or SVD 10 ( 400 V ), all accessories included, motor circuit breaker with 5.0m rubber cable and plug.            There is a 1.0 m long TBN Type exhaust hose including exhaust gas standing funnel and accessories firmly mounted on the suction side.            A 5.0 m long DN 150 exhaust hose is provided for the pressure side.</p> <p>System – 230 V version            System – 400 V version</p>  <p>Ideal for a 2<sup>nd</sup> exhaust system on vehicles having a left- and right-hand exhaust pipe, to provide suction to a 2<sup>nd</sup> exhaust at the AU.</p>	<p>101 030            101 035            327 076</p>	<p>2.265,--            2.045,--            285,--</p>
<p><b>Mobile exhaust extraction system for cars and motorcycles with 1 exhaust pipe</b></p>  <p>consisting of a tilt-safe and extremely smooth ventilator trolley featuring two fixed and two swivel casters with sliding handle, exhaust fan ( 0.6 kW, 1.380 m³/h ), Type SVE 8 ( 230 V ) or SVD 8 ( 400 V ), all accessories included, motor circuit breaker with 5.0 m rubber cable and plug.            There is a 1.5m long TBN Type exhaust hose including a round exhaust gas funnel and accessories, firmly mounted on the suction side. A 5.0m long DN 100 exhaust hose is provided for the pressure side.</p> <p>System – 230 V version            System – 400 V version</p>  <p>Surcharge for Y-piece including two exhaust pipes with two round exhaust funnels for the suction side, as well as one integrated shut-off valve.            For suction on vehicles and motorcycles with two-pipe exhaust systems.</p>	<p>101 040            101 045            101 041</p>	<p>1.850,--            1.655,--            240,--</p>


Item	Item no.	EUR
 <p><b>Mobile exhaust extraction system for commercial vehicles</b></p> <p>consisting of a tilt-safe and extremely smooth ventilator trolley featuring two fixed and one swivel caster with sliding handle, exhaust fan ( 1.2 kW, 2.200 m<sup>3</sup>/h ), Type SVE 12 ( 230 V ) or SVD 12 ( 400 V ), all accessories included, motor circuit breaker with 5.0 m rubber cable and plug.</p> <p>There is a 5.0 m long HLS 400-type high-temperature exhaust hose including a round exhaust gas pincer and accessories, firmly mounted on the suction side. A 10.0 m long DN 150 exhaust hose is provided for the pressure side, which can be stored in a wire basket mounted on the ventilator trolley when not in use.</p> <p>System – 230 V version</p> <p>System – 400 V version</p> <p>Surcharge for additional exhaust extraction pipes ( above ), complete with quick-coupling system on the suction side hose, in DN 150.</p>	<p>101 050</p> <p>101 055</p> <p>101 058</p>	<p>3.305,--</p> <p>3.045,--</p> <p>680,--</p>
<p><b>Notes:</b></p> <p><b>We will gladly provide custom mobile exhaust extraction systems tailored to your needs.</b></p> <p><b>All systems are available for rental on request. The minimum rental period is 5 working days – prices are available on request.</b></p>		

Item	Item no.	EUR
 <p><b>Exhaust Extraction System for Fire stations ( Basic systems )</b></p> <p><b>For one emergency vehicle</b> Compact systems for one emergency vehicle, complete with exhaust fan ( 0.6 kW / 1.380 m<sup>3</sup>/h, 400 V ), motor circuit breaker, wall-mounted console and accessories, exhaust hose, DN 125, length 5.0 m, with stand funnel and accessories,</p> <p><b>For two emergency vehicles</b> Compact system for two emergency vehicles, complete with exhaust fan ( 0.75 kW / 1.620 m<sup>3</sup>/h, 400 V ), motor circuit breaker, wall-mounted console and accessories, two exhaust hoses, DN 125, length 5.0 m each, with two standing funnels, as well as 6.0 m folded spiral conduit and necessary accessories.</p> <p><b>For three emergency vehicles</b> Compact system for three emergency vehicles, complete with exhaust fan ( 1.2 kW / 2.200 m<sup>3</sup>/h, 400 V ), motor circuit breaker, wall-mounted console and accessories, three exhaust hoses, NW 125, length 5.0 m each, with three standing funnels, as well as 12.0 m folded spiral conduit and necessary accessories.</p>	<p>105 001</p> <p>105 002</p> <p>105 003</p>	<p>1.595,--</p> <p>2.405,--</p> <p>3.240,--</p>
 <p><b>Surcharges for Accessories</b></p> <p>Surcharge for automatic hose detachment from the exhaust pipe via a Bowden cable including balancer pulling the hose from the danger area after release ( standing funnel omitted ).</p> <p>Surcharge for track ( length 3.0 m ), complete with trolley, brackets, stoppers and accessories, leading the exhaust hose further to the gate.</p> <p>Surcharge for switchgear with switch-off delay as surface-mounted housing ( including contacts for control via electric roller shutter doors or coarse button ).</p> <p>Surcharge for coarse button ( red ) as push button in surface-mounted version.</p>	<p>105 010</p> <p>105 015</p> <p>117 052</p> <p>117 061</p>	<p>545,--</p> <p>325,--</p> <p>550,--</p> <p>90,--</p>
 <p><b>Accessories for pressure side, DN 160 or DN 200</b></p> <p>Roof venting kit, DN 160 ( please advise roof pitch )</p> <p>Roof venting kit, DN 200 ( please advise roof pitch )</p> <p>Wall venting kit, DN 160, with deflector hood</p> <p>Wall venting kit, DN 200, with deflector hood</p> <p>Wall-mounted venting kit, DN 160, with venting adapter</p> <p>Wall-mounted venting kit, DN 200, with venting adapter</p>	<p>716 002</p> <p>720 002</p> <p>716 003</p> <p>720 003</p> <p>716 004</p> <p>720 004</p>	<p>395,--</p> <p>450,--</p> <p>295,--</p> <p>335,--</p> <p>155,--</p> <p>165,--</p>

Item	Item no.	EUR
<p><b>Exhaust Extraction System for Fire stations ( Automatic Systems )</b></p> <p><b>For one emergency vehicle</b></p> <p>Compact system for one emergency vehicle as comfortable parallel-guided exhaust system consisting of a 6.0m suction rail for wall mounting with hose trolley, DN 125 hose, length 5.0m, automatically detaching exhaust pincer, mechanical hose detachment, balancer, exhaust fan ( 0.6 kW/ 1.380 m³/h, 400 V ), motor circuit breaker, wall-mounted console and accessories,</p> 	105 110	3.410,--
<p><b>For two emergency vehicles</b></p> <p>Compact system for two emergency vehicles as a comfortable parallel-guided exhaust system consisting of two suction rails of 6.0 m each for mounting with two hose reel trolleys, DN 125 hoses, length 5.0m each, automatically detaching exhaust pincer, mechanical hose detachment, balancers, exhaust fan ( 0.75 kW / 1.620 m³/h, 400 V ), motor circuit breaker, wall-mounted console and accessories, as well as a 6.0 m folded spiral conduit with necessary accessories.</p>	105 210	6.070,--
<p><b>For three emergency vehicles</b></p> <p>Compact system for three emergency vehicles as a comfortable parallel-guided exhaust system consisting of three suction rails of 6.0 m each for mounting with three hose reel trolleys, DN 125 hoses, length 5.0m each, automatically detaching exhaust pincer, mechanical hose detachment, balancers, exhaust fan ( 1.2 kW / 2.200 m³/h, 400 V ), motor circuit breaker, wall-mounted console and accessories, as well as a 12.0m folded spiral conduit with necessary accessories.</p>	105 310	8.730,--
 <p><b>Surcharges for Accessories</b></p> <p>Surcharge for switchgear with switch-off delay as a surface-mounted housing (including contacts for control via electric roller shutter doors or coarse button).</p> <p>Surcharge for coarse button ( red ) as push button in surface-mounted version.</p>	117 052 117 061	550,-- 90,--
 <p><b>Accessories for pressure side, DN 160 or DN 200</b></p> <p>Roof venting kit, DN 160 ( please advise roof pitch )</p> <p>Roof venting kit, DN 200 ( please advise roof pitch )</p> <p>Wall venting kit, DN 160, with deflector hood</p> <p>Wall venting kit, DN 200, with deflector hood</p> <p>Wall-mounted venting kit, DN 160, with venting adapter</p> <p>Wall-mounted venting kit, DN 200, with venting adapter</p>	716 002 720 002 716 003 720 003 716 004 720 004	395,-- 450,-- 295,-- 335,-- 155,-- 165,--

Item	Item no.	EUR
<p><b>Especially suitable for:</b>  <b>Above ground installations such as exhaust extraction rail channels, hose reels and compact systems.</b></p> <p><b>Exhaust hose, Type TBN</b>                      light and flexible, oil and fuel resistant, nylon spiral, <b>conditionally allowed to be run over</b>, temperature resistant <b>up to 170°C</b> ( when properly used with an exhaust funnel ), nominal width ( DN ) corresponding to the internal hose diameter, <b>black colour.</b></p>  <p>DN 65, length 2.5 m                      DN 65, length 3.0 m                      DN 65, length 5.0 m                      DN 65, length 7.5 m                      DN 65, length 10.0 m                      NW 65, length 15.0 m</p> <p>DN 76, length 2.5 m                      DN 76, length 3.0 m                      DN 76, length 5.0 m                      DN 76, length 7.5 m                      DN 76, length 10.0 m                      DN 76, length 15.0 m</p> <p>DN 100, length 2.5 m                      DN 100, length 3.0 m                      DN 100, length 5.0 m                      DN 100, length 7.5 m                      DN 100, length 10.0 m                      DN 100, length 15.0 m</p> <p>DN 125, length 2.5 m                      DN 125, length 5.0 m                      DN 125, length 7.5 m                      DN 125, length 10.0 m                      DN 125, length 15.0 m</p> <p>DN 150, length 2.5 m                      DN 150, length 5.0 m                      DN 150, length 7.5 m                      DN 150, length 10.0 m                      DN 150, length 15.0 m</p> <p>DN 200, length 2.5 m                      DN 200, length 5.0 m                      DN 200, length 7.5 m                      DN 200, length 10.0 m                      DN 200, length 15.0 m</p> <p><b>Other hose lengths available on request</b></p>	<p>222 565                      223 065                      225 065                      227 565                      221 065                      221 565</p> <p>222 576                      223 076                      225 076                      227 576                      221 076                      221 576</p> <p>222 500                      223 000                      225 000                      227 500                      221 000                      221 500</p> <p>222 525                      225 025                      227 525                      221 025                      221 525</p> <p>222 550                      225 050                      227 550                      221 050                      221 550</p> <p>222 501                      225 001                      227 501                      221 001                      221 501</p>	<p>75,--                      90,--                      150,--                      225,--                      300,--                      450,--</p> <p>90,--                      105,--                      175,--                      265,--                      350,--                      525,--</p> <p>100,--                      120,--                      200,--                      300,--                      400,--                      600,--</p> <p>115,--                      225,--                      340,--                      450,--                      675,--</p> <p>125,--                      250,--                      375,--                      500,--                      750,--</p> <p>140,--                      275,--                      385,--                      550,--                      825,--</p>



Item	Item no.	EUR
<p><b>Especially suitable for:</b>  <b>Above ground installations such as exhaust extraction rail channels, hose reels and compact systems.</b></p> <p><b>Exhaust hose, Type TGT</b></p> <p>light, flexible, robust, oil and petrol resistant, with outer rubberised nylon spiral, conditionally allowed to be overrun, temperature resistant <b>up to 180°C</b>, ( when properly used with an exhaust funnel ), nominal width ( DN ) corresponding to the internal hose diameter, <b>black colour.</b></p>  <p>DN 65, length 2.5 m            DN 65, length 3.0 m            DN 65, length 5.0 m            DN 65, length 7.5 m            DN 65, length 10.0 m            DN 65, length 15.0 m</p> <p>DN 76, length 2.5 m            DN 76, length 3.0 m            DN 76, length 5.0 m            DN 76, length 7.5 m            DN 76, length 10.0 m            DN 76, length 15.0 m</p> <p>DN 100, length 2.5 m            DN 100, length 3.0 m            DN 100, length 5.0 m            DN 100, length 7.5 m            DN 100, length 10.0 m            DN 100, length 15.0 m</p> <p>DN 125, length 2.5 m            DN 125, length 5.0 m            DN 125, length 7.5 m            DN 125, length 10.0 m            DN 125, length 15.0 m</p> <p>DN 150, length 2.5 m            DN 150, length 5.0 m            DN 150, length 7.5 m            DN 150, length 10.0 m            DN 150, length 15.0 m</p> <p>DN 200, length 2.5 m            DN 200, length 5.0 m            DN 200, length 7.5 m            DN 200, length 10.0 m</p> <p><b>Other hose lengths available on request</b></p>	<p>272 565            273 065            275 065            277 565            271 065            271 565</p> <p>272 576            273 076            275 076            277 576            271 076            271 576</p> <p>272 500            273 000            275 000            277 500            271 000            271 500</p> <p>272 525            275 025            277 525            271 025            271 525</p> <p>272 550            275 050            277 550            271 050            271 550</p> <p>272 501            275 001            277 501            271 001</p>	<p>100,--            120,--            200,--            300,--            400,--            600,--</p> <p>125,--            150,--            250,--            375,--            500,--            750,--</p> <p>150,--            180,--            300,--            450,--            600,--            900,--</p> <p>165,--            325,--            490,--            650,--            975,--</p> <p>190,--            375,--            565,--            750,--            1.125,--</p> <p>235,--            475,--            715,--            950,--</p>

Item	Item no.	EUR																																																																																										
 <p><b>Special hose clamps</b> for Types TBN and TGT</p> <p>for DN 65 hose for DN 76 hose for DN 100 hose for DN 125 hose for DN 150 hose for DN 200 hose</p>	<p>355 065 355 076 355 100 355 125 355 150 355 200</p>	<p>5,-- 6,-- 7,-- 8,-- 9,-- 10,--</p>																																																																																										
<p><b>Hose combination, Type TBN</b> non-retractable, consisting of one exhaust hose with pre-assembled exhaust funnel.</p> <table border="1"> <thead> <tr> <th>Diameter</th> <th>Length</th> <th>Funnel</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>65 mm</td><td>2.5 m</td><td>3030</td><td>262 565</td><td>150,--</td><td></td></tr> <tr><td>65 mm</td><td>3.0 m</td><td>3030</td><td>263 065</td><td>165,--</td><td></td></tr> <tr><td>65 mm</td><td>5.0 m</td><td>3030</td><td>265 065</td><td>225,--</td><td></td></tr> <tr><td>65 mm</td><td>2.5 m</td><td>3089</td><td>272 565</td><td>158,--</td><td></td></tr> <tr><td>65 mm</td><td>3.0 m</td><td>3089</td><td>273 165</td><td>173,--</td><td></td></tr> <tr><td>65 mm</td><td>5.0 m</td><td>3089</td><td>275 165</td><td>233,--</td><td></td></tr> <tr><td>76 mm</td><td>3.0 m</td><td>3030</td><td>263 076</td><td>186,--</td><td></td></tr> <tr><td>76 mm</td><td>5.0 m</td><td>3030</td><td>265 076</td><td>246,--</td><td></td></tr> <tr><td>76 mm</td><td>3.0 m</td><td>3089</td><td>273 176</td><td>189,--</td><td></td></tr> <tr><td>76 mm</td><td>5.0 m</td><td>3089</td><td>275 176</td><td>249,--</td><td></td></tr> <tr><td>100 mm</td><td>5.0 m</td><td>3040</td><td>265 005</td><td>312,--</td><td></td></tr> <tr><td>100 mm</td><td>5.0 m</td><td>3050</td><td>265 010</td><td>317,--</td><td></td></tr> <tr><td>100 mm</td><td>5.0 m</td><td>3175</td><td>265 015</td><td>402,--</td><td></td></tr> <tr><td>100 mm</td><td>5.0 m</td><td>3191</td><td>265 020</td><td>402,--</td><td></td></tr> </tbody> </table> 	Diameter	Length	Funnel				65 mm	2.5 m	3030	262 565	150,--		65 mm	3.0 m	3030	263 065	165,--		65 mm	5.0 m	3030	265 065	225,--		65 mm	2.5 m	3089	272 565	158,--		65 mm	3.0 m	3089	273 165	173,--		65 mm	5.0 m	3089	275 165	233,--		76 mm	3.0 m	3030	263 076	186,--		76 mm	5.0 m	3030	265 076	246,--		76 mm	3.0 m	3089	273 176	189,--		76 mm	5.0 m	3089	275 176	249,--		100 mm	5.0 m	3040	265 005	312,--		100 mm	5.0 m	3050	265 010	317,--		100 mm	5.0 m	3175	265 015	402,--		100 mm	5.0 m	3191	265 020	402,--			
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Item	Item no.	EUR
<p><b>Especially suitable for: underfloor systems and robust workshop applications.</b></p> <p><b>Exhaust hose, Type THS</b></p> <p>light and flexible, robust, oil and petrol resistant, with hollow spiral, <b>fully allowed to be driven over</b>, temperature resistant <b>up to 170°C</b> ( when properly used with an exhaust funnel ), nominal width ( DN ) corresponding to the internal hose diameter, <b>black colour.</b></p> <p>DN 65, length 2.5 m DN 65, length 3.0 m DN 65, length 5.0 m DN 65, length 7.5 m DN 65, length 10.0 m DN 65, length 15.0 m</p> <p>DN 76, length 2.5 m DN 76, length 3.0 m DN 76, length 5.0 m DN 76, length 7.5 m DN 76, length 10.0 m DN 76, length 15.0 m</p> <p>DN 100, length 2.5 m DN 100, length 3.0 m DN 100, length 5.0 m DN 100, length 7.5 m DN 100, length 10.0 m DN 100, length 15.0 m</p> <p>DN 125, length 2.5 m DN 125, length 5.0 m DN 125, length 7.5 m DN 125, length 10.0 m DN 125, length 15.0 m</p> <p>DN 150, length 2.5 m DN 150, length 5.0 m DN 150, length 7.5 m DN 150, length 10.0 m DN 150, length 15.0 m</p> <p>DN 200, length 2.5 m DN 200, length 5.0 m DN 200, length 7.5 m DN 200, length 10.0 m DN 200, length 15.0 m</p> <p><b>Other hose lengths available on request</b></p>	<p>232 565 233 065 235 065 237 565 231 065 231 565</p> <p>232 576 233 076 235 076 237 576 231 076 231 576</p> <p>232 500 233 000 235 000 237 500 231 000 231 500</p> <p>232 525 235 025 237 525 231 025 231 525</p> <p>232 550 235 050 237 550 231 050 231 550</p> <p>232 501 235 001 237 501 231 001 231 501</p>	<p>85,-- 102,-- 170,-- 255,-- 340,-- 510,--</p> <p>95,-- 114,-- 190,-- 285,-- 380,-- 570,--</p> <p>115,-- 135,-- 225,-- 335,-- 450,-- 675,--</p> <p>125,-- 250,-- 375,-- 500,-- 750,--</p> <p>150,-- 300,-- 450,-- 600,-- 900,--</p> <p>175,-- 350,-- 525,-- 700,-- 1.050,--</p>







Item	Item no.	EUR
 <p><b>Special hose clamps</b> Type THS for DN 65 hose for DN 76 hose for DN 100 hose for DN 125 hose for DN 150 hose for DN 200 hose</p>	<p>355 065 355 076 355 100 355 125 355 150 355 200</p>	<p>5,-- 6,-- 7,-- 8,-- 9,-- 10,--</p>
 <p><b>Especially suitable for: Underfloor systems and trucks and construction machines</b></p> <p><b>Exhaust hose, Type TB</b> heavy, robust and in <b>fully allowed to be driven over</b> version with fabric reinforcement, crinkle resistant, oil and petrol resistant, temperature resistant <b>up to 180°C</b> ( when properly used with an exhaust funnel ), nominal width ( DN ) corresponding to the internal hose diameter, <b>black colour</b>.</p> <p>DN 51, length 2.5 m DN 51, length 5.0 m DN 51, length 7.5 m DN 51, length 10.0 m</p> <p>DN 63, length 2.5 m DN 63, length 5.0 m DN 63, length 7.5 m DN 63, length 10.0 m</p> <p>DN 76, length 2.5 m DN 76, length 5.0 m DN 76, length 7.5 m DN 76, length 10.0 m</p> <p>DN 100, length 2.5 m DN 100, length 5.0 m DN 100, length 7.5 m DN 100, length 10.0 m</p> <p><b>Other hose lengths available on request</b></p>	<p>212 551 215 051 217 551 211 051</p> <p>212 563 215 063 217 563 211 063</p> <p>212 576 215 076 217 576 211 076</p> <p>212 500 215 000 217 500 211 000</p>	<p>150,-- 300,-- 450,-- 600,--</p> <p>175,-- 350,-- 525,-- 700,--</p> <p>215,-- 425,-- 635,-- 850,--</p> <p>235,-- 475,-- 715,-- 950,--</p>

Item	Item no.	EUR																																													
 <p><b>Especially suitable for:</b> <b>Workshop application ( underfloor systems )</b></p> <p><b>Exhaust hose, Type TS</b> workshop hose with end sleeves, fully allowed to be driven over, crinkle resistant, oil and petrol resistant, temperature resistant <b>up to 150°C</b> ( when properly used with an exhaust funnel ), <b>black colour</b>, several hoses can easily be attached to one another.</p> <p>DN 65, length 3.3 m DN 75, length 3.3 m DN 100, length 3.3 m DN 125, length 3.3 m</p>	<p>213 365 213 375 213 300 213 325</p>	<p>270,-- 295,-- 350,-- 395,--</p>																																													
 <p><b>Hose combination, Type THS</b> non-retractable, consisting of one exhaust hose with pre-assembled exhaust funnel.</p> <table border="1" data-bbox="555 1083 1128 1673"> <thead> <tr> <th>Diameter</th> <th>Length</th> <th>Funnel</th> </tr> </thead> <tbody> <tr><td>65 mm</td><td>2.5 m</td><td>3030</td></tr> <tr><td>65 mm</td><td>3.0 m</td><td>3030</td></tr> <tr><td>65 mm</td><td>5.0 m</td><td>3030</td></tr> <tr><td>65 mm</td><td>2.5 m</td><td>3089</td></tr> <tr><td>65 mm</td><td>3.0 m</td><td>3089</td></tr> <tr><td>65 mm</td><td>5.0 m</td><td>3089</td></tr> <tr><td>76 mm</td><td>3.0 m</td><td>3030</td></tr> <tr><td>76 mm</td><td>5.0 m</td><td>3030</td></tr> <tr><td>76 mm</td><td>3.0 m</td><td>3089</td></tr> <tr><td>76 mm</td><td>5.0 m</td><td>3089</td></tr> <tr><td>100 mm</td><td>5.0 m</td><td>3040</td></tr> <tr><td>100 mm</td><td>5.0 m</td><td>3050</td></tr> <tr><td>100 mm</td><td>5.0 m</td><td>3175</td></tr> <tr><td>100 mm</td><td>5.0 m</td><td>3191</td></tr> </tbody> </table> <p><b>Other hose combinations available on request.</b></p>	Diameter	Length	Funnel	65 mm	2.5 m	3030	65 mm	3.0 m	3030	65 mm	5.0 m	3030	65 mm	2.5 m	3089	65 mm	3.0 m	3089	65 mm	5.0 m	3089	76 mm	3.0 m	3030	76 mm	5.0 m	3030	76 mm	3.0 m	3089	76 mm	5.0 m	3089	100 mm	5.0 m	3040	100 mm	5.0 m	3050	100 mm	5.0 m	3175	100 mm	5.0 m	3191	<p>282 565 283 065 285 065 292 565 293 065 295 065 283 076 285 076 293 076 295 076 285 005 285 010 285 015 285 020</p>	<p>160,-- 177,-- 245,-- 168,-- 185,-- 253,-- 195,-- 271,-- 198,-- 274,-- 337,-- 342,-- 427,-- 427,--</p>
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Item	Item no.	EUR
 <p><b>Especially suitable for:</b> Above ground installations such as exhaust extraction rail channels, hose reels, compact systems, and motor power testing stations.</p> <p><b>Exhaust Hose, Type HLS 300</b> two-ply, stitched, special fabric hose with steel spiral and outer abrasion protector, crinkle, oil and petrol resistant, very light and flexible, temperature resistant <b>up to 300°C</b>, for a short time up to 330°C.</p> <p>Price per metre DN 100 DN 125 DN 150 DN 200 DN 250</p>	<p>240 100 240 125 240 150 240 200 240 250</p>	<p>75,-- 85,-- 95,-- 110,-- 130,--</p>
 <p><b>Exhaust hose, Type HLS 350</b> two-ply exhaust hose with steel spiral and outer abrasion protector, oil and petrol resistant, not allowed to be driven over, very light and flexible, <b>compressible</b>, temperature resistant <b>up to 350°C</b>, for a short time up to 380°C.</p> <p>Price per metre DN 100 DN 125 DN 150 DN 200 DN 250</p>	<p>245 100 245 125 245 150 245 200 245 250</p>	<p>90,-- 100,-- 110,-- 135,-- 150,--</p>
 <p><b>Exhaust hose, Type HLS 400</b> two-ply, stitched, special fabric hose with steel spiral and outer abrasion protector, crinkle, oil and petrol resistant, very light and flexible, temperature resistant <b>up to 400°C</b>, for a short time up to 430°C.</p> <p>Price per metre DN 100 DN 125 DN 150 DN 200 DN 250</p>	<p>290 100 290 125 290 150 290 200 290 250</p>	<p>105,-- 120,-- 140,-- 180,-- 210,--</p>

Item	Item no.	EUR
 <p><b>Exhaust hose, Type HLS 500</b>                      multilayer, stitched, special fabric hose with steel spiral and outer abrasion protector, crinkle, oil and petrol resistant, light and flexible, temperature resistant <b>up to 500°C</b>, for a short time up to 530°C.</p> <p>Price per metre</p> <p>DN 100                      DN 125                      DN 150                      DN 200                      DN 250</p>	<p>250 100                      250 125                      250 150                      250 200                      250 250</p>	<p>180,--                      210,--                      295,--                      320,--                      355,--</p>
 <p><b>Exhaust Hose, Type HLS 650</b>                      multilayer, stitched, special fabric hose with steel spiral and outer abrasion protector, crinkle, oil and petrol resistant, light and flexible, temperature resistant <b>up to 650°C</b>, for a short time up to 680°C.</p> <p>Price per metre</p> <p>DN 100                      DN 125                      DN 150                      DN 200                      DN 250</p>	<p>260 100                      260 125                      260 150                      260 200                      260 250</p>	<p>270,--                      290,--                      350,--                      390,--                      440,--</p>
 <p><b>Exhaust hose, Type HLS 800</b>                      multilayer, stitched, special fabric hose with steel spiral and outer abrasion protector, crinkle, oil and petrol resistant, light and flexible, temperature resistant <b>up to 800°C</b>, for a short time up to 830°C.</p> <p>Price per metre</p> <p>DN 100                      DN 125                      DN 150                      DN 200                      DN 250</p>	<p>265 100                      265 125                      265 150                      265 200                      265 250</p>	<p>350,--                      410,--                      520,--                      590,--                      680,--</p>

Item	Item no.	EUR
 <p><b>Exhaust Hose, Type HLS 300 / Type HLS 500</b>                      multilayer, stitched, special fabric hose with steel spiral and outer abrasion protector, crinkle, oil and petrol resistant, light and flexible, particularly suitable for power hose reels, temperature resistant <b>up to 300°C</b>, and for the lower three metres <b>up to 500°C</b>, in one piece ( without connecting sleeve ).                      ( Designation 500°C side marked with a red label )</p> <p>DN 100, total length 9 m                      DN 100, total length 10 m                      DN 100, total length 12 m                      DN 100, total length 15 m</p> <p>DN 125, total length 9 m                      DN 125, total length 10 m                      DN 125, total length 12 m                      DN 125, total length 15 m</p> <p>DN 150, total length 9 m                      DN 150, total length 10 m                      DN 150, total length 12 m                      DN 150, total length 15 m</p> <p>DN 200, total length 9 m                      DN 200, total length 10 m                      DN 200, total length 12 m                      DN 200, total length 15 m</p> <p><b>Other hose combinations available on request.</b></p>	<p>256 100                      257 100                      258 100                      259 100</p> <p>256 125                      257 125                      258 125                      259 125</p> <p>256 150                      257 150                      258 150                      259 150</p> <p>256 200                      257 200                      258 200                      259 200</p>	<p>960,--                      1.030,--                      1.170,--                      1.380,--</p> <p>1.020,--                      1.100,--                      1.260,--                      1.500,--</p> <p>1.170,--                      1.260,--                      1.440,--                      1.710,--</p> <p>2.580,--                      2.690,--                      2.910,--                      3.240,--</p>
 <p><b>Hose clamps</b>                      Type HLS from V2A</p> <p>for DN 100 hose                      for DN 125 hose                      for DN 150 hose                      for DN 200 hose                      for DN 250 hose</p>	<p>354 100                      354 125                      354 150                      354 200                      354 250</p>	<p>7,--                      8,--                      9,--                      10,--                      11,--</p>

Item	Item no.	EUR
 <p><b>Exhaust funnels made of rubber are suitable for accommodating exhaust pipes of different diameters. Extension funnels are intended to be accommodated in the existing funnel systems.</b></p> <p><b>Funnel, Type 3010</b> with exhaust probe opening for exhaust pipes of 20 – 40 mm Ø</p> <p>without connection ( Ø 40 mm )  with connection for DN 40 hoses  with connection for DN 50 hoses  with connection for DN 65 hoses  as extension funnel</p>	30 10 301 040 301 050 301 065 31 49	38,-- 45,-- 48,-- 52,-- 48,--
 <p><b>Funnel, Type 3020</b> with exhaust probe opening for exhaust pipes of 40 – 70 mm Ø</p> <p>without connection ( Ø 50 mm )  with connection for DN 50 hoses  with connection for DN 65 hoses  with connection for DN 75 hoses  as extension funnel</p>	30 20 302 050 302 065 302 075 31 50	45,-- 58,-- 60,-- 63,-- 60,--
 <p><b>Funnel, Type 3030</b> with exhaust probe opening for exhaust pipes of 60 – 90 mm Ø</p> <p>without connection ( Ø 55 mm )  with connection for DN 50 hoses  with connection for DN 65 hoses  with connection for DN 75 hoses  as extension funnel</p>	30 30 303 050 303 065 303 075 31 51	60,-- 65,-- 70,-- 75,-- 75,--
 <p><b>Funnel, Type 3040</b> with exhaust probe opening for exhaust pipes of 75 – 125 mm Ø</p> <p>without connection ( Ø 75 mm )  with connection for DN 65 hoses  with connection for DN 75 hoses  with connection for DN 100 hoses  as extension funnel</p>	30 40 304 065 304 075 304 100 31 52	80,-- 95,-- 100,-- 105,-- 100,--
 <p><b>Funnel, Type 3050</b> with exhaust probe opening for exhaust pipes of 75 – 145 mm Ø</p> <p>without connection ( Ø 100 mm )  with connection for DN 75 hoses  with connection for DN 100 hoses  with connection for DN 125 hoses  as extension funnel</p>	30 50 305 075 305 100 305 125 31 53	100,-- 115,-- 110,-- 120,-- 100,--

## Group 3.1

## Exhaust funnels and accessories

Item	Item no.	EUR
 <p><b>Funnel, Type 3060</b> without exhaust probe opening for exhaust pipes of 60 – 120 mm Ø</p> <p>without connection ( Ø 55 mm ) with connection for DN 50 hoses with connection for DN 65 hoses as extension funnel</p>	<p>30 60 306 050 306 065 31 54</p>	<p>70,-- 79,-- 82,-- 70,--</p>
 <p><b>Funnel, Type 3070</b> without exhaust probe opening for twin exhaust pipes of 65 – 120 mm Ø, particularly suitable for BMW and Mercedes-Benz vehicles</p> <p>without connection ( Ø 65 mm ) with connection for DN 50 hoses with connection for DN 65 hoses with connection for DN 75 hoses as extension funnel</p>	<p>30 70 307 050 307 065 307 075 31 62</p>	<p>70,-- 79,-- 79,-- 82,-- 70,--</p>
 <p><b>Funnel, Type 3089</b> without exhaust probe opening for twin exhaust pipes of 70 – 130 mm Ø, mostly universally applicable.</p> <p>without connection ( Ø 65 mm ) with connection for DN 50 hoses with connection for DN 65 hoses with connection for DN 75 hoses as extension funnel</p>	<p>30 89 308 950 308 965 308 975 31 63</p>	<p>70,-- 82,-- 78,-- 82,-- 78,--</p>
 <p><b>Funnel, Type 3076</b> with exhaust probe opening for twin exhaust pipes of 70 – 150 mm Ø, particularly suitable for Audi and Porsche vehicles</p> <p>without connection ( Ø 75 mm ) with connection for DN 65 hoses with connection for DN 75 hoses with connection for DN 100 hoses as extension funnel</p>	<p>30 76 307 665 307 675 307 600 31 64</p>	<p>75,-- 85,-- 82,-- 90,-- 82,--</p>
 <p><b>Funnel, Type 3320</b> without exhaust probe opening for twin exhaust pipes of 85 – 245 mm Ø, temperature resistant up to 180°C, particularly suitable for most SUVs and sports cars.</p> <p>without connection ( Ø 100 mm ) with connection for DN 65 hoses with connection for DN 75 hoses with connection for DN 100 hoses with connection for DN 125 hoses</p>	<p>33 20 332 065 332 075 332 100 332 125</p>	<p>155,-- 165,-- 165,-- 175,-- 185,--</p>

## Group 3.1

## Exhaust funnels and accessories

Item	Item no.	EUR
 <p><b>Funnel, Type 3081</b> without exhaust probe opening for twin exhaust pipes of 80 – 180 mm Ø, particularly suitable for BMW and Mercedes-Benz vehicles.</p> <p>without connection ( Ø 75 mm )            with connection for DN 75 hoses            with connection for DN 100 hoses            as extension funnel</p>	<p>30 81            308 175            308 100            31 65</p>	<p>120,--            130,--            138,--            130,--</p>
 <p><b>Funnel, Type 3090</b> without exhaust probe opening for twin exhaust pipes of 125 – 200 mm Ø, mostly universally applicable.</p> <p>without connection ( Ø 125 mm )            with connection for DN 100 hoses            with connection for DN 125 hoses            with connection for DN 150 hoses</p>	<p>30 90            309 100            309 125            309 150</p>	<p>92,--            113,--            104,--            113,--</p>
 <p><b>Funnel, Type 3088</b> without exhaust probe opening for twin exhaust pipes of 70 – 155 mm Ø, offset by 60° for better handling.</p> <p>without connection ( Ø 100 mm )            with connection for DN 75 hoses            with connection for DN 100 hoses            with connection for DN 125 hoses</p>	<p>30 88            308 875            318 800            318 825</p>	<p>80,--            98,--            90,--            101,--</p>
 <p><b>Funnel, Type 3080</b> without exhaust probe opening for twin exhaust pipes of 75 – 210 mm Ø, offset by 60° for better handling.</p> <p>without connection ( Ø 100 mm )            with connection for DN 75 hoses            with connection for DN 100 hoses            with connection for DN 125 hoses</p>	<p>30 80            348 075            348 100            348 125</p>	<p>85,--            103,--            95,--            106,--</p>
 <p><b>Funnel, Type 3087</b> without exhaust probe opening for twin exhaust tailpipes of 100 – 210 mm Ø, offset by 60° for better handling.</p> <p>without connection ( Ø 125 mm )            with connection for DN 100 hoses            with connection for DN 125 hoses            with connection for DN 150 hoses</p>	<p>30 87            318 700            318 725            318 750</p>	<p>90,--            108,--            100,--            111,--</p>








Item	Item no.	EUR
 <p><b>Exhaust nozzle, pneumatic, for cars and trucks</b> in oval rubber version complete with hand pump including discharge valve mounted. Pneumatic air cushion ( inward ) clamping fixture for mounting on single and twin exhaust pipes, offset by 45° for better handling. Temperature resistant <b>up to 150°C</b> with active exhaust extraction system.</p> <p><b>for passenger cars, Type 3780</b> ( oval, 75 x 155 mm ) with connection for DN 75 hoses with connection for DN 100 hose</p> <p><b>for trucks, Type 3790</b> ( oval, 95 x 195 mm ) with connection for DN 125 hose with connection for DN 150 hose</p>	<p>378 075 378 100</p> <p>379 125 379 150</p>	<p>385,-- 390,--</p> <p>445,-- 455,--</p>
 <p><b>Exhaust nozzle, pneumatic, for bumper-integrated exhaust aperture</b> in oval rubber version complete with hand pump including discharge valve mounted. Pneumatic air cushion ( outward ) clamping fixture for mounting on oval exhaust pipes. Temperature resistant <b>up to 150°C</b> with active exhaust extraction system.</p> <p><b>Type 3860, oval</b> min. 60 x 120 mm, max. 75 x 125 mm ( H x W ) particularly suitable for Volvo XC 70, Mercedes R, GLK, GLA as well as Porsche Cayenne. with connection for DN 75 hoses with connection for DN 100 hoses</p> <p><b>Type 3870, oval</b> min. 38 x 120 mm, max. 65 x 135 mm ( H x W ) particularly suitable for numerous Mercedes and BMW models. with connection for DN 75 hoses with connection for DN 100 hoses</p> <p><b>Type 3880, oval</b> min. 50 x 160 mm, max. 65 x 175 mm ( H x W ) particularly suitable for numerous Mercedes, BMW and Audi models. with connection for DN 75 hoses with connection for DN 100 hoses</p> <p><b>Type 3890, oval</b> min. 50 x 160 mm, max. 85 x 175 mm ( H x W ) particularly suitable for numerous BMW and Volvo models. with connection for DN 75 hoses with connection for DN 100 hoses</p>	<p>386 075 386 100</p> <p>387 075 387 100</p> <p>388 075 388 100</p> <p>389 075 389 100</p>	<p>350,-- 360,--</p> <p>360,-- 370,--</p> <p>365,-- 375,--</p> <p>365,-- 375,--</p>

Item	Item no.	EUR
 <p><b>Flap funnels made of sheet steel</b> with shutter valve and exhaust probe opening for DN 100 hoses for DN 125 hoses for DN 150 hoses</p>	<p>357 100 357 125 357 150</p>	<p>175,-- 180,-- 190,--</p>
 <p><b>Exhaust pincer, Type 3110</b> with round rubber funnel, Type 3093, complete with clamping pliers for exhaust pipes mounted, from 65 – 170 mm Ø, mostly universal, suitable for numerous commercial vehicles. with connection for DN 100 hoses with connection for DN 125 hoses with connection for DN 150 hoses</p>	<p>311 100 311 125 311 150</p>	<p>205,-- 205,-- 215,--</p>
 <p><b>Exhaust pincer, Type 3174</b> consisting of rubber funnel, Type 3030, complete with clamping pliers mounted, for exhaust pipes up to 90 mm Ø. with connection for DN 75 hoses with connection for DN 100 hoses</p>	<p>317 475 317 400</p>	<p>165,-- 170,--</p>
 <p><b>Exhaust pincer, Type 3175</b> consisting of rubber funnel, Type 3050, complete with clamping pliers mounted, for exhaust pipes up to 140 mm Ø. with connection for DN 75 hoses with connection for DN 100 hoses</p>	<p>317 575 317 500</p>	<p>195,-- 200,--</p>
 <p><b>Exhaust pincer, Type 3176</b> consisting of rubber funnel, Type 3050, complete with clamping pliers with integrated inside flap ( pre-installed in the funnel ), for exhaust pipes up to 140 mm Ø. with connection for DN 75 hoses with connection for DN 100 hoses</p>	<p>317 675 317 600</p>	<p>310,-- 315,--</p>
 <p><b>Exhaust pincer, Type 3182</b> with oval rubber funnel, Type 3090, complete with clamping pliers mounted, for exhaust pipes up to 175 mm Ø. with connection for DN 100 hoses with connection for DN 125 hoses with connection for DN 150 hoses</p>	<p>319 200 319 225 319 250</p>	<p>190,-- 195,-- 205,--</p>

Item	Item no.	EUR
 <p><b>Exhaust pincer, Type 3191</b> with oval rubber funnel, Type 3088, offset by 60° for better handling, complete with clamping pliers mounted, for twin exhaust pipes up to 155 mm Ø.</p> <p>with connection for DN 75 hoses with connection for DN 100 hoses with connection for DN 125 hoses</p>	<p>315 075 315 100 315 125</p>	<p>195,-- 195,-- 200,--</p>
 <p><b>Exhaust pincer, Type 3185</b> with oval rubber funnel, Type 3080, offset by 60° for better handling, complete with clamping pliers mounted, for twin exhaust pipes up to 210 mm Ø.</p> <p>with connection for DN 75 hoses with connection for DN 100 hoses with connection for DN 125 hoses</p>	<p>317 075 317 100 317 125</p>	<p>200,-- 200,-- 205,--</p>
 <p><b>Exhaust pincer, Type 3184</b> with oval rubber funnel, Type 3087, offset by 60° for better handling, complete with clamping pliers mounted, for exhaust tailpipes up to 210 mm Ø.</p> <p>with connection for DN 100 hoses with connection for DN 125 hoses with connection for DN 150 hoses</p>	<p>316 100 316 125 316 150</p>	<p>205,-- 205,- 215,-</p>
 <p><b>Exhaust pincer, Type 3165</b> with inner clamping fixture, universally applicable, for exhaust tailpipes of <b>35 – 70 mm Ø</b> for DN 100 hose Particularly suitable for Mercedes-Benz, BMW, Audi, VW, Porsche and many other vehicles. with connection for DN 100 hoses</p>	<p>365 100</p>	<p>455,--</p>
 <p><b>Exhaust pincer, Type 3166</b> with inner clamping fixture, universally applicable, for exhaust tailpipes of <b>40 – 75 mm Ø</b> for DN 125 hose Particularly suitable for Mercedes-Benz, BMW, Audi, VW, Porsche and many other vehicles. with connection for DN 125 hoses</p>	<p>365 125</p>	<p>465,--</p>

Item	Item no.	EUR
 <p><b>Exhaust pincer, Type 3195</b></p> <p>with oval rubber funnel, Type 3080, offset by 60° for better handling, complete with mounted adjustable inner clamping pliers. For round and oval exhaust pipes of 50 – 125 mm Ø, temperature resistant up to 180°C with active exhaust extraction system.</p> <p>Particularly suitable for vehicles with bumper-integrated exhaust aperture, such as Mercedes-Benz, BMW, Audi or Porsche.</p> <p>The inner clamp assembly is led through the bumper aperture in the tailpipe ( also suitable for the already existing series ).</p> <p>with connection for DN 75 hoses with connection for DN 100 hoses with connection for DN 125 hoses</p>	<p>312 075 312 100 312 125</p>	<p>335,-- 335,-- 340,--</p>
 <p><b>Exhaust pincer, Type 3196</b></p> <p>with oval rubber funnel, Type 3087, offset by 60° for better handling, complete with mounted adjustable inner clamping pliers. For round and oval exhaust tailpipes of 80 – 170 mm Ø, temperature resistant up to 180°C with active exhaust extraction system.</p> <p>Particularly suitable for vehicles with bumper-integrated exhaust aperture, such as MAN, DAF, Volvo and many other buses.</p> <p>The inner clamp assembly is led through the bumper aperture in the tailpipe ( also suitable for the already existing series ).</p> <p>with connection for DN 100 hoses with connection for DN 125 hoses with connection for DN 150 hoses</p>	<p>319 100 319 125 319 150</p>	<p>345,-- 345,-- 355,--</p>
 <p><b>Exhaust pincer, Type 3197</b></p> <p>with round funnel made of galvanised steel.</p> <p>for DN 100 hoses, funnel opening 150 Ø for DN 125 hoses, funnel opening 200 Ø for DN 150 hoses, funnel opening 200 Ø for DN 200 hoses, funnel opening 250 Ø</p>	<p>319 700 319 725 319 750 319 701</p>	<p>140,-- 145,-- 150,-- 160,--</p>

Item	Item no.	EUR
 <p><b>Special funnel, Type 3370</b> without swivel coupler, with internal clamp for difficult to access exhaust pipes, such as MAN, Volvo or DAF. with connection for DN 125 hoses with connection for DN 150 hoses with connection for DN 200 hoses</p>	<p>337 125 337 150 337 200</p>	<p>375,-- 385,-- 395,--</p>
 <p><b>Exhaust nozzle, Type 3380</b> made of aluminium, with built-in dirt filter and mounted clamp pliers, mostly universal use. for DN 100 hose for DN 125 hose for DN 150 hose for DN 200 hose</p>	<p>338 100 338 125 338 150 338 200</p>	<p>170,-- 180,-- 190,-- 245,--</p>
 <p><b>Exhaust pincer, Type 3470</b> round, specially designed for fire engines, complete with automatic disconnecting clamp pliers and 45° guide bow. for DN 100 hose for DN 125 hose for DN 150 hose for DN 200 hose</p>	<p>347 100 347 125 347 150 347 200</p>	<p>265,-- 275,-- 285,-- 310,--</p>
 <p><b>Standing funnels for AU workspaces, passenger cars</b> following the new TRGS 554, specially designed for TÜV and Dekra, height- ( up to 500 mm ) and tilt-adjustable. for DN 100 hose without swivel coupler for DN 100 hose with swivel coupler for DN 125 hose without swivel coupler for DN 125 hose with swivel coupler for DN 150 hose without swivel coupler for DN 150 hose with swivel coupler Surcharge for height-adjustment option up to 1,200mm.</p>	<p>322 100 323 100 322 125 323 125 322 150 323 150 322 000</p>	<p>325,-- 380,-- 330,-- 385,-- 335,-- 390,-- 65,--</p>
 <p><b>Standing funnels for AU workspaces, trucks</b> following the new TRGS 554, specially designed for TÜV and Dekra, height- ( up to 750 mm ) and tilt-adjustable. for DN 150 hose without swivel coupler for DN 150 hose with swivel coupler for DN 200 hose without swivel coupler for DN 200 hose with swivel coupler</p>	<p>324 150 325 150 324 200 325 200</p>	<p>350,-- 400,-- 380,-- 430,--</p>

Item	Item no.	EUR
 <p><b>Shaft funnel for AU workspaces, buses</b> height- ( up to 500 mm ) and tilt-adjustable.</p> <p>for DN 125 hose without swivel coupler 326 125 410,-- for DN 125 hose with swivel coupler 327 125 465,--</p> <p>for DN 150 hose without swivel coupler 326 150 415,-- for DN 150 hose with swivel coupler 327 150 470,--</p> <p>for DN 200 hose without swivel coupler 326 200 420,-- for DN 200 hose with swivel coupler 327 200 475,--</p>		
 <p><b>Exhaust funnel, Trucks</b> mobile, for vehicles <b>with Euro 6 Norm-compliant engines</b>, height- ( up to 500 mm ) and tilt-adjustable.</p> <p>complete with connection for DN 125 hoses 369 125 825,-- complete with connection for DN 150 hoses 369 150 730,-- complete with connection for DN 200 hoses 369 200 855,--</p>		
 <p><b>Extraction hood, DN 125</b> for trucks and tractors with vertical exhaust pipe, complete with handle, total length approx. 2.250 mm. DN 125 hose connection.</p> <p>331 125 385,--</p> <p><b>Extraction hood, NW 150</b> for trucks and tractors with vertical exhaust pipe, complete with handle, total length approx. 2.250 mm. DN 150 hose connection.</p> <p>331 150 395,--</p>		
 <p><b>Extraction hood, NW 125</b> for trucks and tractors with horizontal exhaust pipe sideways above ( without lid ), complete with handle, total length approx. 2,250mm. DN 125 hose connection.</p> <p>333 125 355,--</p> <p><b>Extraction hood, NW 150</b> for trucks and tractors with horizontal exhaust pipe sideways above ( without lid ), complete with handle, total length approx. 2.250 mm. DN 150 hose connection.</p> <p>333 150 365,--</p>		
 <p><b>Tripod, Type 3200</b> without exhaust funnel, height-adjustable up to 500 mm.</p> <p>for DN 100 hose 320 100 255,-- for DN 125 hose 320 125 265,-- for DN 150 hose 320 150 270,--</p>		

Item	Item no.	EUR
 <p><b>LP – Standing funnels</b> for performance testers, made of V2A, height- ( up to 500 mm ) and tilt-adjustable. for DN 150 hose with swivel coupler for DN 200 hose with swivel coupler for DN 250 hose with swivel coupler</p>	<p>329 150 329 200 329 250</p>	<p>545,-- 550,-- 565,--</p>
 <p><b>Standing funnels for fire engines</b> with tripod, height-adjustable up to 500 mm. DN 100 hose connection DN 125 hose connection Surcharge for height-adjustment option up to 1.200 mm.</p>	<p>321 100 321 125 322 000</p>	<p>230,-- 330,-- 65,--</p>
 <p><b>Standing funnels, twin-flow, 200 x 200 mm</b> suitable for straight and downwards-directed single and twin exhaust pipes. Also highly suitable for bumper-integrated exhaust tailpipes such as with BMW, Mercedes, Audi, VW and Porsche vehicles. Due to the vertical ( up to 750 mm ) and horizontal adjusting feature, nearly all twin-flow exhaust systems are easy to access. The far front-located exhaust funnels made of EPDM can even reach concealed exhaust pipes. Complete with stable base plate, two flexible exhaust hoses and an DN 100 Y-piece. Surcharges for movability</p>	<p>329 100  329 110</p>	<p>850,--  90,--</p>
 <p><b>Standing funnels for motorcycles</b> with single or twin exhaust pipes, height-adjusting option up to 1.000 mm, tilt-adjusting. Y-piece each featuring 2 x 1.0 m hoses, 75 mm Ø and 2 rubber funnels, Type 3050, mounted.</p>	<p>329 076</p>	<p>580,--</p>
 <p><b>Clamps for funnels, Types 3174, 3175 and 3176 ( simple version ) – no image.</b></p> <p><b>Clamps for funnels, Types 3080, 3087, 3088 and 3110, complete with tensioner</b></p> <p><b>Clamps with automatic release ( Fire Service ), complete with tensioner</b></p>	<p>300 001 300 002 300 003</p>	<p>95,-- 145,-- 175,--</p>







Item	Item no.	EUR
 <p><b>Surcharge for dirt filter ready mounted inside an exhaust funnel or pincer</b></p>	300 028	15,--
 <p><b>Rope ( 3.0 m )</b>, plastic coating, with ring  <b>Rope ( 4.0 m )</b>, plastic coating, with ring  <b>Rope ( 5.0 m )</b>, plastic coating, with ring  <b>Rope ( 6.0 m )</b>, plastic coating, with ring</p>	300 035 300 045 300 055 300 065	20,-- 22,-- 24,-- 26,--
 <p><b>Y-piece, galvanised version</b>  designed to connect hoses  50 x 50 x 50 mm  65 x 65 x 65 mm  75 x 75 x 75 mm  75 x 100 x 75 mm  100 x 100 x 100 mm  125 x 125 x 125 mm  150 x 150 x 150 mm</p>	101 400 101 410 101 420 101 430 101 440 101 450 101 460	50,-- 60,-- 65,-- 75,-- 85,-- 95,-- 105,--
 <p><b>Connecting sleeve, galvanised version</b>  designed to connect hoses and funnels  DN 40  DN 50  DN 65  DN 75  DN 100  DN 125  DN 150  DN 200  DN 250</p>	335 040 335 050 335 065 335 075 335 100 335 125 335 150 335 200 335 250	8,-- 10,-- 11,-- 12,-- 13,-- 15,-- 16,-- 17,-- 19,--
 <p><b>Section sleeve, galvanised version</b>  designed to connect hoses and funnels  DN 50 with DN 65  DN 50 with DN 75  DN 65 with DN 75  DN 65 with DN 100  DN 75 with DN 100  DN 100 with DN 125  DN 100 with DN 150  DN 125 with DN 150  DN 150 with DN 200  DN 200 with DN 250</p>	341 050 342 050 341 065 342 065 341 075 341 000 343 000 341 025 343 050 343 200	12,-- 16,-- 18,-- 20,-- 20,-- 22,-- 24,-- 25,-- 30,-- 35,--



Item	Item no.	EUR
 <p><b>Aluminium adapter for exhaust pincer, Type 3191</b> and for DN 100 hose fork</p> <p><b>Aluminium adapter for exhaust pincer, Type 3191</b> to connect with AU funnel.</p> <p><b>Aluminium adapter for exhaust pincer, Type 3380</b> for easy coupling with DN 150 hose</p>	<p>368 100</p> <p>368 125</p> <p>368 150</p>	<p>135,--</p> <p>150,--</p> <p>185,--</p>
 <p><b>Wall-mounted cast aluminium hose holder</b></p> <p>for hoses up to DN 75 for hoses up to DN 100 for hoses up to DN 125 for hoses up to DN 150 for hoses up to DN 200 ( made of steel )</p>	<p>330 075</p> <p>330 100</p> <p>330 125</p> <p>330 150</p> <p>330 200</p>	<p>65,--</p> <p>65,--</p> <p>70,--</p> <p>75,--</p> <p>100,--</p>
 <p><b>Quick hose coupling, galvanised version</b></p> <p>Tubular piece with two clamping levers</p> <p>for DN 100 hose for DN 125 hose for DN 150 hose for DN 200 hose for DN 250 hose</p>	<p>380 100</p> <p>380 125</p> <p>380 150</p> <p>380 200</p> <p>380 250</p>	<p>110,--</p> <p>120,--</p> <p>130,--</p> <p>145,--</p> <p>175,--</p>
 <p><b>Counterpart to quick hose coupling, galvanised version</b></p> <p>Tubular piece with ring for fixing</p> <p>for DN 100 hose for DN 125 hose for DN 150 hose for DN 200 hose for DN 250 hose</p>	<p>385 100</p> <p>385 125</p> <p>385 150</p> <p>385 200</p> <p>385 250</p>	<p>45,--</p> <p>48,--</p> <p>55,--</p> <p>68,--</p> <p>85,--</p>
 <p><b>Bayonet lock with bolt part</b></p> <p>75 mm diameter 100 mm diameter 125 mm diameter</p>  <p><b>Bayonet lock with slot portion</b></p> <p>75 mm diameter 100 mm diameter 125 mm diameter</p>  <p><b>Closure cover with slot portion</b></p> <p>75 mm diameter 100 mm diameter 125 mm diameter</p>	<p>381 075</p> <p>381 100</p> <p>381 125</p> <p>382 075</p> <p>382 100</p> <p>382 125</p> <p>383 075</p> <p>383 100</p> <p>383 125</p>	<p>65,--</p> <p>70,--</p> <p>80,--</p> <p>65,--</p> <p>70,--</p> <p>80,--</p> <p>75,--</p> <p>85,--</p> <p>95,--</p>

## Group 3.1




## Exhaust funnels and accessories






Item	Item no.	EUR
 <p><b>Alternating tensioner connection, galvanised version</b>            designed to connect two exhaust hoses, consisting of two hose adapters and one clamp closure.            for DN 150 hose            for DN 160 hose            for DN 200 hose            for DN 250 hose</p>	384 150 384 160 384 200 384 250	75,-- 75,-- 85,-- 95,--
 <p><b>Swivel coupler, galvanised version</b>            located between hose and funnel            100 mm diameter            125 mm diameter            150 mm diameter            200 mm diameter</p>	102 360 102 370 102 380 102 390	70,-- 75,-- 80,-- 85,--
 <p><b>Safety breakaway coupling</b>            for installation in an exhaust hose with freely adjustable release force, reusable.            100 mm diameter            125 mm diameter            150 mm diameter            200 mm diameter</p>	102 420 102 430 102 440 102 450	150,-- 160,-- 175,-- 190,--
 <p><b>Wall coupling with closure flap</b>            for folded spiral conduit ( sleeve size )            for DN 75 hose            for DN 100 hose</p>	390 075 390 100	100,-- 125,--
 <p><b>Hose adapter for wall-mounted coupling</b>            for DN 75 hose            for DN 100 hose</p>	395 075 395 100	45,-- 48,--
 <p><b>Hose clamp, Standard Type</b>            for DN 50 hose            for DN 65 hose            for DN 75 hose            for DN 100 hose            for DN 125 hose            for DN 150 hose            for DN 200 hose            for DN 250 hose</p>	350 050 350 065 350 075 350 100 350 125 350 150 350 200 350 250	2,-- 3,-- 3,-- 4,-- 5,-- 6,-- 7,-- 8,--

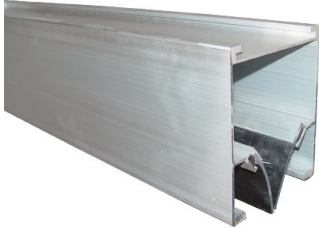
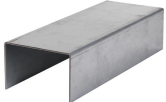





## Group 3.1

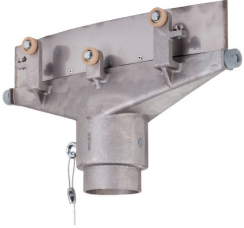
## Exhaust funnels and accessories

Item	Item no.	EUR
 <p><b>Rubber Protection</b> for hose clamps to avoid paint damage</p> <p>for DN 75 hose for DN 100 hose for DN 125 hose for DN 150 hose for DN 200 hose for DN 250 hose</p>	<p>358 075 358 100 358 125 358 150 358 200 358 250</p>	<p>4,-- 5,-- 6,-- 7,-- 9,-- 11,--</p>
 <p><b>Hose sleeve</b> for high, kink-free hanging of exhaust hoses</p> <p>for DN 75 hose for DN 100 hose for DN 125 hose for DN 150 hose for DN 200 hose for DN 250 hose</p>	<p>360 075 360 100 360 125 360 150 360 200 360 250</p>	<p>35,-- 40,-- 42,-- 45,-- 50,-- 60,--</p>
 <p><b>Trapping washer</b> made of rubber for hoses designed to be submerged in underfloor systems</p> <p>Internal hose diameter      50 mm Internal hose diameter      65 mm Internal hose diameter      75 mm Internal hose diameter      100 mm</p>	<p>361 050 361 065 361 075 361 100</p>	<p>15,-- 17,-- 18,-- 20,--</p>
 <p><b>Rubber cord with stainless steel clasp</b> designed as additional support for exhaust gas funnels fixed on exhaust pipes, especially suitable for motorcycles, cord length 350 mm</p>	<p>386 000</p>	<p>25,--</p>
 <p><b>flexible hose connector</b> Length 500 mm, complete with two hose clamps.</p> <p>DN 160 DN 200 DN 250 DN 315</p>	<p>610 002 610 003 610 004 610 005</p>	<p>40,-- 46,-- 50,-- 55,--</p>

Item	Item no.	EUR
 <p><b>Tube forks are designed to extract exhaust gases from vehicles with twin-flow exhaust systems (left and right). These always consist of a Y-piece, two 1.0m exhaust hoses and two exhaust funnels as well as accessories. The hose forks are delivered fixed and ready mounted.</b></p> <p><b>Hose fork for single exhaust pipes (round) (without clamps)</b></p> <p>DN 75 with round exhaust funnels, Type 3020 ( suitable for e.g. VW Beetle and other vintage cars )</p> <p>DN 75 with round exhaust funnels, Type 3030 ( suitable for e.g. Audi, VW, Ford and Opel / Vauxhall )</p> <p>DN 75 with round exhaust funnels, Type 3040 ( suitable for e.g. Audi, VW, BMW and Volvo )</p> <p>DN 100 with round exhaust funnels, Type 3050 ( suitable for e.g. Audi and BMW )</p>	<p>325 000</p> <p>325 001</p> <p>325 002</p> <p>325 003</p>	<p>305,--</p> <p>350,--</p> <p>380,--</p> <p>425,--</p>
 <p><b>Hose fork for single exhaust pipes ( oval ) ( without clamps )</b></p> <p>DN 75 with oval exhaust funnels, Type 3089 ( suitable for e.g. Mercedes-Benz and BMW )</p> <p>DN 75 with oval exhaust funnels, Type 3076 ( suitable for e.g. Mercedes-Benz and Porsche )</p> <p>DN 75 with oval exhaust funnels, Type 3320 ( suitable for many SUV and sports cars )</p> <p>DN 100 with oval exhaust funnels, Type 3076 ( suitable for e.g. Mercedes-Benz and Porsche )</p>	<p>325 010</p> <p>325 011</p> <p>325 012</p> <p>325 013</p>	<p>325,--</p> <p>330,--</p> <p>500,--</p> <p>345,--</p>
 <p><b>Hose fork for twin exhaust pipes ( with clamps )</b></p> <p>DN 100 with round exhaust pincers, Type 3174 ( suitable for e.g. Mercedes-Benz and sports cars )</p> <p>DN 100 with oval exhaust pincers, Type 3191 ( mostly universally applicable for up to 155 mm width )</p> <p>DN 100 with oval exhaust pincers, Type 3185 ( mostly universally applicable for up to 210 mm width )</p> <p>DN 100 with oval exhaust pincers, Type 3195 with internal clamp ( suitable for bumper-integrated exhaust pipes )</p> <p>DN 100 with oval exhaust pincers, Type 3165 with internal clamp ( suitable for bumper-integrated exhaust pipes )</p>	<p>325 020</p> <p>325 021</p> <p>325 022</p> <p>325 023</p> <p>325 024</p>	<p>565,--</p> <p>565,--</p> <p>575,--</p> <p>825,--</p> <p>1.035,--</p>

Item	Item no.	EUR
 <p><b>Hose fork for twin exhaust pipes ( with pneumatic exhaust nozzles )</b>            DN 100 with oval exhaust nozzles, Type 3860 ( suitable for e.g. Audi and BMW models )            DN 100 with oval exhaust nozzles, Type 3870 ( suitable for e.g. Mercedes-Benz and BMW models )            DN 100 with oval exhaust nozzles, Type 3880 ( suitable for e.g. Mercedes-Benz and Audi models )            DN 100 with oval exhaust nozzles, Type 3890 ( suitable for e.g. BMW and Volvo models )            DN 100 with oval exhaust nozzles, Type 3780 ( suitable for e.g. Porsche and sports cars )</p>	<p>325 030 325 031 325 032 325 033 325 034</p>	<p>865,-- 875,-- 895,-- 895,-- 805,--</p>
 <p><b>Hose fork without exhaust funnel</b>            DN 75 version            DN 100 version            DN 125 version            ( to the aforementioned hose forks, exhaust funnel pliers and spouts can be mounted ).</p>	<p>313 075 313 100 313 125</p>	<p>165,-- 175,-- 185,--</p>
 <p><b>Hose fork with two ready-assembled quick couplers (without counterparts)</b>            NW 100 version            NW 125 version</p>	<p>325 040 325 041</p>	<p>395,-- 425,--</p>
 <p><b>Versions with quick couplers</b>            Surcharge for two DN 100 quick couplings and <b>four</b> DN 100 counterparts fixed and ready-assembled, to quickly and easily replace the exhaust funnels or exhaust pincers.</p>	<p>314 100</p>	<p>395,--</p>
 <p><b>Wall-mounted cast aluminium hose holder</b>            for supporting the tube fork when not in use.            for DN 75 hose fork            for DN 100 hose fork            for DN 125 hose fork</p>	<p>330 075 330 100 330 125</p>	<p>65,-- 65,-- 70,--</p>

Item	Item no.	EUR										
 <p><b>A modern extraction solution for workshops with lifts placed in rows or where driving through with a suction device attached is necessary.</b></p> <p><b>For various applications Exhaust extraction rail channels of various cross-sections are available.</b></p> <p><b>Thanks to our hose reels' extremely high performance air flow volumes, your workplace is optimally vented within the entire reach of your exhaust extraction rail channel.</b></p> <p><b>Exhaust extraction rail channel, Type I</b> extruded aluminium profile, complete with refractory neoprene sealing lips. ( Price per metre, exhaust extraction rail channel )</p> <p>Channel dimensions:</p> <table border="0"> <tr> <td>Width</td> <td>156 mm</td> </tr> <tr> <td>Height incl. sealing lip</td> <td>190 mm</td> </tr> <tr> <td>Length</td> <td>2, 4 and 6 m</td> </tr> <tr> <td>Cross-section</td> <td>175 cm<sup>2</sup></td> </tr> <tr> <td>Weight</td> <td>10.6 kg/m</td> </tr> </table>	Width	156 mm	Height incl. sealing lip	190 mm	Length	2, 4 and 6 m	Cross-section	175 cm <sup>2</sup>	Weight	10.6 kg/m	410 001	160,--
Width	156 mm											
Height incl. sealing lip	190 mm											
Length	2, 4 and 6 m											
Cross-section	175 cm <sup>2</sup>											
Weight	10.6 kg/m											
 <p><b>Duct connectors made of galvanised steel</b> designed to connect two exhaust extraction rail channel elements</p>	410 002	30,--										
 <p><b>Assembly parts</b> for exhaust extraction rail channel, Type I</p>	410 003	15,--										
 <p><b>End cover</b> front-mounted, for exhaust extraction rail channel, Type I</p>	410 004	25,--										
 <p><b>End stop</b> with hose reel trolley stopper for Type I</p>	410 005	20,--										
 <p><b>End cover with intake adapter</b> for conduit connection DN 160 made of galvanised steel.</p>  <p>for direct fan assembly DN 160 cast (but without ring tensioner)</p>	411 606  411 706	155,--  185,--										




Item	Item no.	EUR
 <p><b>Outlet element, upwards-oriented</b> for conduit connection DN 160 DN 200 DN 250</p> <p>Surcharge for direct fan assembly ( DN 160 only ), cast ( but without ring tensioner )</p>	<p>411 607 412 007 412 507  440 020</p>	<p>155,-- 160,-- 175,--  45,--</p>
 <p><b>Outlet element, upwards-oriented, lateral outlet</b> for conduit connection DN 160 DN 200 DN 250</p>	<p>411 611 412 011 412 511</p>	<p>170,-- 185,-- 195,--</p>
 <p><b>Cast aluminium hose reel trolley</b> for significantly increased air flow rate. With stainless steel guide plates and 10-fold ball bearing rollers for absolute tilt-free operation even under load. <b>With pull rope and ring</b> for suspension of the hose.</p> <p>Hose connection      DN 75 Hose connection      DN 100 Hose connection      DN 125 Hose connection      DN 150</p>	<p>417 508 411 008 412 508 415 008</p>	<p>415,-- 415,-- 425,-- 440,--</p>
 <p><b>Cast aluminium hose reel trolley</b> as before, but featuring an <b>automatic closure flap as soon as the hose is hooked in the ring.</b></p> <p>Hose connection      DN 75 Hose connection      DN 100 Hose connection      DN 125 Hose connection      DN 150</p>	<p>417 509 411 009 412 509 415 009</p>	<p>460,-- 465,-- 475,-- 485,--</p>
 <p><b>Cast aluminium hose reel trolley</b> as before, but featuring an <b>automatic closure flap operated via balancer</b> ( prices excluding balancer ).</p> <p>Hose connection      DN 75 Hose connection      DN 100 Hose connection      DN 125 Hose connection      DN 150</p>	<p>417 512 411 012 412 512 415 012</p>	<p>495,-- 500,-- 510,-- 520,--</p>




## Group 4.1

## Exhaust extraction rail channel, Type I

Item	Item no.	EUR																																				
 <p><b>Balancer for hose reel trolley</b> to pull the hose upwards when not in use. Including hose sleeve and fittings to install on hose reel trolley, Load capacity up to 10 kg.</p> <table border="0"> <tr> <td>with locking</td> <td>cable length 2.5 m</td> <td>410 012</td> <td>315,--</td> </tr> <tr> <td>without locking</td> <td>cable length 2.5 m</td> <td>410 013</td> <td>305,--</td> </tr> <tr> <td>with locking</td> <td>cable length 4.5 m</td> <td>410 014</td> <td>365,--</td> </tr> <tr> <td>without locking</td> <td>cable length 4.5 m</td> <td>410 015</td> <td>355,--</td> </tr> </table>	with locking	cable length 2.5 m	410 012	315,--	without locking	cable length 2.5 m	410 013	305,--	with locking	cable length 4.5 m	410 014	365,--	without locking	cable length 4.5 m	410 015	355,--																						
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with locking	cable length 4.5 m	410 014	365,--																																			
without locking	cable length 4.5 m	410 015	355,--																																			
 <p><b>Exhaust extraction hose</b> Type TBN for hose reel trolley, length 5.0 m, temperature resistant up to 170°C, conditionally allowed to be driven over, <b>with exhaust pincer, Type 3191.</b></p> <table border="0"> <tr> <td>Hose diameter</td> <td>DN 75</td> <td>152 075</td> <td>380,--</td> </tr> <tr> <td>Hose diameter</td> <td>DN 100</td> <td>152 100</td> <td>405,--</td> </tr> <tr> <td>Hose diameter</td> <td>DN 125</td> <td>152 125</td> <td>435,--</td> </tr> </table>	Hose diameter	DN 75	152 075	380,--	Hose diameter	DN 100	152 100	405,--	Hose diameter	DN 125	152 125	435,--																										
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Hose diameter	DN 100	152 100	405,--																																			
Hose diameter	DN 125	152 125	435,--																																			
 <p><b>Automatic clamp detachment from exhaust pipe</b> including unlocking station, Bowden cable and all accessories.</p>	440 050	280,--																																				
 <p><b>Exhaust extraction fan – Type SVD 8</b></p> <table border="0"> <tr> <td>Extraction capacity max.</td> <td>1,380 m<sup>3</sup>/h</td> <td rowspan="2">120 008</td> <td rowspan="2">1.010,--</td> </tr> <tr> <td>Pressure</td> <td>1,200 Pa</td> </tr> <tr> <td><b>Voltage</b></td> <td><b>400 V, 50 Hz</b></td> </tr> <tr> <td>Motor power</td> <td>0.6 kW</td> </tr> <tr> <td>Current consumption</td> <td>1.45 A</td> </tr> <tr> <td>Intake adapter</td> <td>160 mm Ø</td> </tr> <tr> <td>Pressure adapter</td> <td>160 mm Ø</td> </tr> <tr> <td>Weight without ventilator foot</td> <td>21kg</td> </tr> </table> <p><b>Exhaust extraction fan – Type SVD 10</b></p> <table border="0"> <tr> <td>Extraction capacity max.</td> <td>1,620 m<sup>3</sup>/h</td> <td rowspan="2">120 010</td> <td rowspan="2">1.120,--</td> </tr> <tr> <td>Pressure</td> <td>1,400 Pa</td> </tr> <tr> <td><b>Voltage</b></td> <td><b>400 V, 50 Hz</b></td> </tr> <tr> <td>Motor power</td> <td>0.75 kW</td> </tr> <tr> <td>Current consumption</td> <td>2.05 A</td> </tr> <tr> <td>Intake adapter</td> <td>160 mm Ø</td> </tr> <tr> <td>Pressure adapter</td> <td>160 mm Ø</td> </tr> <tr> <td>Weight without ventilator foot</td> <td>22 kg</td> </tr> </table>	Extraction capacity max.	1,380 m <sup>3</sup> /h	120 008	1.010,--	Pressure	1,200 Pa	<b>Voltage</b>	<b>400 V, 50 Hz</b>	Motor power	0.6 kW	Current consumption	1.45 A	Intake adapter	160 mm Ø	Pressure adapter	160 mm Ø	Weight without ventilator foot	21kg	Extraction capacity max.	1,620 m <sup>3</sup> /h	120 010	1.120,--	Pressure	1,400 Pa	<b>Voltage</b>	<b>400 V, 50 Hz</b>	Motor power	0.75 kW	Current consumption	2.05 A	Intake adapter	160 mm Ø	Pressure adapter	160 mm Ø	Weight without ventilator foot	22 kg		
Extraction capacity max.	1,380 m <sup>3</sup> /h	120 008			1.010,--																																	
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Item	Item no.	EUR
 <p><b>Exhaust extraction fan – Type SVD 12</b></p> <p>Extraction capacity max. 2.200 m<sup>3</sup>/h            Pressure 1.600 Pa  <b>Voltage 400 V, 50 Hz</b>            Motor power 1.2 kW            Current consumption 2.6 A            Intake adapter 160 mm Ø            Pressure adapter 160 mm Ø            Weight without ventilator foot 25 kg</p>	120 012	1.230,--
 <p><b>Exhaust extraction fan – Type SVE 8</b></p> <p>Extraction capacity max. 1.380 m<sup>3</sup>/h            Pressure 1.200 Pa  <b>Voltage 230 V, 50 Hz</b>            Motor power 0.6 kW            Current consumption 3.9 A            Intake adapter 160 mm Ø            Pressure adapter 160 mm Ø            Weight without ventilator foot 21 kg</p> <p><b>Exhaust extraction fan – Type SVE 10</b></p> <p>Extraction capacity max. 1.620 m<sup>3</sup>/h            Pressure 1.400 Pa  <b>Voltage 230 V, 50 Hz</b>            Motor power 0.75 kW            Current consumption 5.0 A            Intake adapter 160 mm Ø            Pressure adapter 160 mm Ø            Weight without ventilator foot 23 kg</p> <p><b>Exhaust extraction fan – Type SVE 12</b></p> <p>Extraction capacity max. 2.220m<sup>3</sup>/h            Pressure 1.600Pa  <b>Voltage 230 V, 50 Hz</b>            Motor power 1.1 kW            Current consumption 7.0 A            Intake adapter 160 mm Ø            Pressure adapter 160 mm Ø            Weight without ventilator foot 25 kg</p>	121 008  121 010	1.230,--  1.380,--  1.490,--
 <p><b>Ventilator foot</b></p> <p>for fans SVD 8, SVD 10 and SVD 12            as well as SVE 8, SVE 10 and SVE 12            painted in RAL 7035 ( light grey ), weight 5 kg</p>	120 050	165,--

Item	Item no.	EUR
 <p><b>Motor circuit breaker on / off with casing</b>                      for SVD 8 – Type MS 01                      for SVD 10 – Type MS 02                      for SVD 12 – Type MS 02                      for SVE 8 – Type MS 04                      for SVE 10 – Type MS 04                      for SVE 12 – Type MS 05</p>	<p>117 001                      117 002                      117 002                      117 004                      117 004                      117 005</p>	<p>90,--                      90,--                      90,--                      90,--                      90,--                      95,--</p>
 <p><b>Connection for further conduit system</b>                      Tension ring with neoprene insert    DN 150 / 160                      Connection adapter                        DN 150                      Connection adapter                        DN 160</p>	<p>370 160                      375 150                      375 160</p>	<p>38,--                      18,--                      18,--</p>
 <p><b>Rubber lip seals for exhaust extraction rail channels</b>                      made from temperature resistant EPDM as a replacement part.                      Apply two metres per each metre of channel.                      Suitable for channel types I, II and III.                      ( Price per metre of rubber lip seal ).</p>	<p>440 100</p>	<p>18,--</p>
<p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• Hangers for rail channels are available in different versions                      – see Channel Hangers ( Group 4.3 )</li> <li>• Fans and accessories                      – see Fans ( Group 5.1 – 5.3 )</li> <li>• Conduits and accessories                      – see Conduits ( Group 7.0 )</li> </ul>		

## Group 4.2 Exhaust extraction rail channel, Types II and III

Item	Item no.	EUR
 <p><b>Exhaust extraction rail channel, Type II</b> extruded aluminium profile, complete with refractory neoprene sealing lips. ( Price per metre, exhaust extraction rail channel ) Channel dimensions: Width 244 mm Height incl. sealing lip 285 mm Length 2, 4 and 6 m Cross-section 290 cm<sup>2</sup> Weight 12.8 kg/m</p>	420 001	215,--
 <p><b>Exhaust extraction rail channel, Type III</b> extruded aluminium profile, complete with refractory neoprene sealing lips. ( Price per metre, exhaust extraction rail channel ) Channel dimensions: Width 244 mm Height incl. sealing lip 385 mm Length 2, 4 and 6 m Cross-section 440 cm<sup>2</sup> Weight 18.5 kg/m</p>	430 001	330,--
 <p><b>Channel connector with insert plate</b> made of galvanised steel, designed to connect two exhaust extraction rail channel elements for exhaust extraction rail channel Type II for exhaust extraction rail channel Type III</p>	420 002 430 002	35,-- 40,--
 <p><b>Assembly parts</b> for exhaust extraction rail channels, Types II and III</p>	420 003	15,--
 <p><b>End cover</b> front-mounted, for exhaust extraction rail channel, Type II front-mounted, for exhaust extraction rail channel, Type III</p>	420 004 430 004	35,-- 40,--
 <p><b>End stop</b> with hose reel trolley stopper for Types II and III</p>	420 005	20,--






## Group 4.2 Exhaust extraction rail channel, Types II and III

Item	Item no.	EUR
 <p><b>End cover with intake adapter</b> suitable for exhaust extraction rail channel, Type II for conduit connection DN 160 for conduit connection DN 200 for conduit connection DN 250</p>	<p>421 606 422 006 422 506</p>	<p>170,-- 178,-- 185,--</p>
 <p><b>End cover with intake adapter</b> suitable for exhaust extraction rail channel Type III for conduit connection DN 200 for conduit connection DN 250</p>	<p>432 006 432 506</p>	<p>210,-- 215,--</p>
 <p><b>Outlet element, upwards-oriented</b> for exhaust extraction rail channels, Types II and III for conduit connection DN 160 for conduit connection DN 200 for conduit connection DN 250</p>	<p>421 607 422 007 422 507</p>	<p>155,-- 160,-- 175,--</p>
 <p><b>Outlet element, upwards-oriented, lateral outlet</b> for exhaust extraction rail channels, Types II and III for conduit connection DN 160 for conduit connection DN 200 for conduit connection DN 250</p>	<p>421 611 422 011 422 511</p>	<p>170,-- 185,-- 195,--</p>
 <p><b>Cast aluminium hose reel trolley</b> for significantly increased air flow rate. With stainless steel plate and 8-fold ball bearing rollers for absolute tilt-free operation even under load. <b>With pull rope and ring</b> for suspension of the hose. DN 125 hose connection DN 150 hose connection DN 200 hose connection Connection for hinge arm.</p>	<p>422 508 425 008 422 008 425 508</p>	<p>630,-- 620,-- 640,-- 730,--</p>
 <p><b>Cast aluminium hose reel trolley</b> as before, but featuring an <b>automatic closure flap as soon as the hose is hooked in the ring.</b> DN 125 hose connection DN 150 hose connection DN 200 hose connection</p>	<p>422 509 425 009 425 509</p>	<p>690,-- 680,-- 700,--</p>



## Group 4.2 Exhaust extraction rail channel, Types II and III




Item	Item no.	EUR
 <p><b>Cast aluminium hose reel trolley</b> as before, but <b>with automatic closure flap operated via balancer</b> ( prices excluding balancer ).</p> <p>DN 125 hose connection            DN 150 hose connection            DN 200 hose connection</p>	<p>422 512            425 012            422 012</p>	<p>735,--            725,--            775,--</p>
 <p><b>Balancer for hose reel trolley</b></p> <p>to pull the hose upwards when not in use. Including hose sleeve and fittings to install on hose reel trolley. Load capacity up to 15 kg.</p> <p>with locking                      cable, length 8.0 m            without locking                cable, length 8.0 m</p>	<p>420 012            420 013</p>	<p>640,--            635,--</p>
 <p><b>Exhaust extraction hose</b></p> <p>Type TBN for hose reel trolley,            Length 5.0m, temperature resistant up to 170°C,            conditionally allowed to be driven over,  <b>with exhaust pincer, Type 3184.</b></p> <p>Hose diameter DN 125            Hose diameter DN 150            Hose diameter DN 200</p>	<p>152 125            152 150            152 200</p>	<p>435,--            470,--            510,--</p>
 <p><b>Automatic clamp detachment from exhaust pipe</b></p> <p>including unlocking station,            Bowden cable and all accessories.</p>	<p>440 051</p>	<p>300,--</p>
 <p><b>Hinge arm for trucks with vertical exhaust pipe</b>            with exterior hinges, <b>temperature resistant up to 300°C, suitable for AU</b>, complete with extraction hood, rotary flange and handling bar.</p> <p>Diameter 150 mm,            reach 3.000 mm            Diameter 150 mm,            reach 4.000 mm            Diameter 200 mm,            reach 3.000 mm            Diameter 200 mm,            reach 4.000 mm</p>	<p>453 050            454 050            453 020            454 020</p>	<p>1.015,--            1.075,--            1.125,--            1.195,--</p>
 <p><b>Channel bracing</b></p> <p>for exhaust extraction rail channel Indispensable for the use of a hinge arm.            Apply 1 exhaust extraction rail channel set per metre</p>	<p>440 019</p>	<p>15,--</p>

## Group 4.2 Exhaust extraction rail channel, Types II and III

Item	Item no.	EUR
 <p><b>Exhaust extraction fan – Type SVD 12</b></p> <p>Extraction capacity max. 2,200 m<sup>3</sup>/h            Pressure 1,600 Pa  <b>Voltage 400 V, 50 Hz</b>            Motor power 1.2 kW            Current consumption 2.6 A            Intake adapter 160 mm Ø            Pressure adapter 160 mm Ø            Weight without ventilator foot 25 kg</p>	120 012	1.230,--
 <p><b>Exhaust extraction fan – Type SVD 14</b></p> <p>Extraction capacity max. 3,120 m<sup>3</sup>/h            Pressure 2,300 Pa  <b>Voltage 400 V, 50 Hz</b>            Motor power 2.4 kW            Current consumption 5.3 A            Intake adapter 200 mm Ø            Pressure adapter 200 mm Ø            Weight with ventilator foot 48 kg</p>	120 014	1.930,--
 <p><b>Exhaust extraction fan – Type SVD 16</b></p> <p>Extraction capacity max. 4,080 m<sup>3</sup>/h            Pressure 2,700 Pa  <b>Voltage 400 V, 50 Hz</b>            Motor power 4.0 kW            Current consumption 7.9 A            Intake adapter 250 mm Ø            Pressure adapter 200 mm Ø            Weight with ventilator foot 52 kg</p>	120 016	2.170,--
 <p><b>Motor circuit breaker on / off with casing</b></p> <p>for SVD 12 fan – Type MS 02            for SVD 14 fan – Type MS 04            for SVD 16 fan – Type MS 05</p>	117 002 117 004 117 005	90,-- 90,-- 95,--
 <p><b>Connection for further conduit system</b></p> <p>Tension ring with neoprene insert DN 150 / 160            Connection adapter DN 150            Connection adapter DN 160            Tension ring with neoprene insert DN 200            Connection adapter DN 200            Tension ring with neoprene insert DN 250            Connection adapter DN 250</p>	370 160 375 150 375 160 370 200 375 200 370 250 375 250	38,-- 18,-- 18,-- 45,-- 20,-- 48,-- 25,--



## Group 4.2 Exhaust extraction rail channel, Types II and III



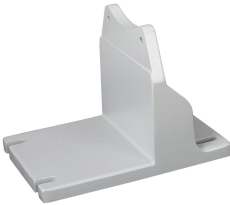
Item	Item no.	EUR
 <p><b>Rubber lip seals for exhaust extraction rail channels</b> made from temperature resistant EPDM as a replacement part. Apply two metres per metre of channel. Suitable for channel types I, II and III. ( Price per metre of rubber lip seal ).</p>	440 100	18,--
 <p><b>Swing arm for exhaust extraction rail channels</b> stable steel structure made of square tube, suitable for accommodating exhaust extraction rail channels, Types I and II, in 4.0 m or 6.0 m lengths. If necessary, the boom is simply pivoted on the wall. Complete with ball-bearing swivel joint and wall bracket, swivelling 180° including accessories and two end stops with rubber buffers at the end of the swing arm. Rail channel, hose reel trolley, hose, exhaust nozzle and attachments are to be added. The safety barrier is upwards-oriented.</p> <p>4,0 m swing arm to be mounted on the steel support      484 400      2.295,-- 6,0 m swing arm to be mounted on the steel support      484 600      2.495,-- 4,0 m swing arm to be mounted on the concrete pillar      485 400      2.225,-- 6,0 m swing arm to be mounted on the concrete pillar      485 600      2.425,-- Surcharge for downward security barrier      488 000      300,--</p>		
<p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• Hangers for rail channels are available in different versions – see Channel Hangers ( Group 4.3 )</li> <li>• Fans and accessories – see Fans ( Group 5.1 – 5.3 )</li> <li>• Conduits and accessories – see Conduits ( Group 7.0 )</li> </ul>		

Item	Item no.	EUR
<p><b>Exhaust extraction rail channels, Types I, II and III, can be mounted on various ceiling structures as well as on the wall.</b>  <b>Each channel section shall be held by at least two of the suspension points listed below.</b>  <b>The number of suspension points of the exhaust extraction rail channels is dependent on the load situation. For standard applications, a suspension point at every 4.0 m is recommended.</b></p> <p><b>Standard channel suspension</b>                      Mounting elements up to approx. 750 mm suspension depth, galvanised version, for fastening of suspension elements on profile-steel beams, complete with galvanised mounting rail and end caps, two jaws and two M 10 slots with accessories and a swivel rod.</p>  <p>Length of mounting rails            400 mm                      Length of mounting rails            600 mm                      Length of mounting rails            1.000 mm</p>	<p>440 001                      440 021                      440 031</p>	<p>90,--                      95,--                      110,--</p>
<p><b>Installation rail with clamping jaws</b>                      Assembly element, galvanised version, designed to fit the suspension elements on profile steel beams and supports, complete with two clamping jaws, M 10 slots and two end caps as well as accessories.</p>  <p>Length of mounting rails            400 mm                      Length of mounting rails            600 mm                      Length of mounting rails            1,000 mm</p>	<p>440 016                      440 017                      440 018</p>	<p>65,--                      75,--                      85,--</p>
<p><b>V-form channel suspension</b>                      Assembly element, galvanised version, for fitting the exhaust extraction rail channel strand to profile steel beams and ceiling, complete with two 400 mm long mounting rails with clamping jaws, two adjustable levelling rods and a swivel rod as well as accessories.</p>  <p>Suspension depth up to 1.500 mm                      Suspension depth up to 2.000 mm                      Suspension depth up to 2.500 mm</p>	<p>440 002                      440 003                      440 004</p>	<p>165,--                      195,--                      220,--</p>







Item	Item no.	EUR
 <p><b>Wall-mounted channel suspension</b> Wall mounting console, galvanised version, for attaching the extraction rail channel to the wall, complete with a swivel rod.</p> <p>Console length 450 mm Console length 600 mm Console length 800 mm Console length 1.000 mm</p>	<p>444 505 446 005 448 005 441 005</p>	<p>105,-- 120,-- 135,-- 150,--</p>
 <p><b>Steel support channel suspension</b> Wall mounting console made of 40 x 40 x 3 mm square tube, primed, for mounting one exhaust extraction rail channel strand on a vertical and straight steel support up to 300mm in width, complete with two clamping jaws, one swivel rod and accessories.</p> <p>Console length 450 mm Console length 600 mm Console length 800 mm Console length 1.000 mm</p>	<p>440 041 440 042 440 043 440 044</p>	<p>140,-- 150,-- 165,-- 185,--</p>
 <p><b>Steel binder channel suspension (ceiling)</b> Console made of 40 x 40 x 3 mm square tube, primed, for mounting one exhaust extraction rail channel on a steel binder of up to 400 mm in width, complete with two clamping jaws, one swivel rod and accessories.</p> <p>Suspension depth 500 – 1.500 mm Suspension depth 1.500 – 2.000 mm Suspension depth 2.000 – 3.000 mm Surcharge for tilting per suspension ( please advise inclination )</p> <p><b>Note: Channel Suspensions are manufactured according to customer and following the drawings.</b></p>	<p>440 045 440 046 440 047 440 049</p>	<p>150,-- 165,-- 200,-- 50,--</p>
 <p><b>Swivel rod, galvanised</b> <b>Universal ceiling mount, galvanised ( no image )</b></p> <p><b>Additional stabilising brace</b> Levelling rod with eye-bolt and left / right thread.</p> <p>Length up to 1.500 mm, adjustable Length up to 2.500 mm, adjustable</p>	<p>440 012 440 013 440 014 440 015</p>	<p>18,-- 24,-- 85,-- 105,--</p>

Item	Item no.	EUR
<p><b>Cast aluminium exhaust extraction fans, performance and noise-optimised, direct-driven, painted in RAL 7035 ( light grey )</b>  <b>Revs: approx. 2.800 / min, turning clockwise</b>  <b>Efficiency rate IE2 or IE3-High Efficiency.</b>  <b>Universally applicable for aboveground systems with low system resistors. Especially suitable for exhaust extraction rail channels and hose reels.</b></p> <p><b>Fans – Voltage 400 V, 50 Hz</b></p> <p><b>Type SVD 8</b></p> <p>Extraction capacity max. 1.380 m<sup>3</sup>/h            Pressure 1.200 Pa            Voltage 400 V, 50 Hz            Motor power 0.6 kW            Current consumption 1.45 A            Intake adapter 160 mm Ø            Pressure adapter 160 mm Ø            Weight without ventilator foot 21 kg</p>  <p><b>Type SVD 10</b></p> <p>Extraction capacity max. 1.620 m<sup>3</sup>/h            Pressure 1.400 Pa            Voltage 400 V, 50 Hz            Motor power 0.75 kW            Current consumption 2.05 A            Intake adapter 160 mm Ø            Pressure adapter 160 mm Ø            Weight without ventilator foot 22 kg</p> <p><b>Type SVD 12</b></p> <p>Extraction capacity max. 2.200 m<sup>3</sup>/h            Pressure 1.600 Pa            Voltage 400 V, 50 Hz            Motor power 1.2 kW            Current consumption 2.6 A            Intake adapter 160 mm Ø            Pressure adapter 160 mm Ø            Weight without ventilator foot 25 kg</p>  <p><b>Type SVD 14</b></p> <p>Extraction capacity max. 3.120 m<sup>3</sup>/h            Pressure 2.300 Pa            Voltage 400 V, 50 Hz            Motor power 2.4 kW            Current consumption 5.3 A            Intake adapter 200 mm Ø            Pressure adapter 200 mm Ø            Weight with ventilator foot 48 kg</p>	<p>120 008</p> <p>120 010</p> <p>120 012</p> <p>120 014</p>	<p>1.010,--</p> <p>1.120,--</p> <p>1.230,--</p> <p>1.930,--</p>

Item	Item no.	EUR
 <p><b>Type SVD 16</b>                      Extraction capacity max. 4.080 m<sup>3</sup>/h                      Pressure 2.700 Pa                      Voltage 400 V, 50 Hz                      Motor power 4.0 kW                      Current consumption 7.9 A                      Intake adapter 250 mm Ø                      Pressure adapter 200 mm Ø                      Weight with ventilator foot 52 kg</p>	120 016	2.170,--
<p><b>Fans – Voltage 230 V, 50 Hz</b></p> <p><b>Type SVE 8</b>                      Extraction capacity max. 1.380 m<sup>3</sup>/h                      Pressure 1.200 Pa                      Voltage 230 V, 50 Hz                      Motor power 0.6 kW                      Current consumption 3.9 A                      Intake adapter 160 mm Ø                      Pressure adapter 160 mm Ø                      Weight without ventilator foot 21 kg</p> <p><b>Type SVE 10</b>                      Extraction capacity max. 1.620 m<sup>3</sup>/h                      Pressure 1.400 Pa                      Voltage 230 V, 50 Hz                      Motor power 0.75 kW                      Current consumption 5.0 A                      Intake adapter 160 mm Ø                      Pressure adapter 160 mm Ø                      Weight without ventilator foot 23 kg</p> <p><b>Type SVE 12</b>                      Extraction capacity max. 2.220 m<sup>3</sup>/h                      Pressure 1.600 Pa                      Voltage 230 V, 50 Hz                      Motor power 1.1 kW                      Current consumption 7.0 A                      Intake adapter 160 mm Ø                      Pressure adapter 160 mm Ø                      Weight without ventilator foot 25 kg</p> 	121 008  121 010  121 012	1.230,--  1.380,--  1.490,--
 <p><b>Ventilator foot</b>                      for fans SVD 8, SVD 10 and SVD 12                      as well as SVE 8, SVE 10 and SVE 12                      painted in RAL 7035 ( light grey ), weight 5 kg</p>	120 050	165,--


Item	Item no.	EUR
 <p><b>Motor circuit breaker on / off with casing</b>                      for SVD 8 – Type MS 01                      for SVD 10 – Type MS 02                      for SVD 12 – Type MS 02                      for SVD 14 – Type MS 04                      for SVD 16 – Type MS 05                      for SVE 8 – Type MS 04                      for SVE 10 – Type MS 04                      for SVE 12 – Type MS 05</p>	<p>117 001                      117 002                      117 002                      117 004                      117 005                      117 004                      117 004                      117 005</p>	<p>90,--                      90,--                      90,--                      90,--                      95,--                      90,--                      90,--                      95,--</p>
 <p><b>Protective control system for fans including motor circuit breaker</b>                      for multiple switching stations within the workshop.                      ( please advise fan type ).</p>  <p><b>Wall-mounted on / off-switch / indicator</b>                      for protective control system</p>	<p>117 068          117 069</p>	<p>640,--          90,--</p>
 <p><b>Repair switch</b>                      to turn off the fan for maintenance purposes</p> <p><b>Repair switch holder</b></p>	<p>117 008          117 018</p>	<p>90,--          38,--</p>
 <p><b>Clamp closure</b>                      designed to connect fan to wall mount                      or connecting adapter to conduit</p> <p>for SVD 8, SVD 10, SVD 12      DN 150 / 160                      for SVE 8, SVE 10, SVE 12      DN 150 / 160                      for SVD 14 and SVD 16      DN 200                      for SVD 16      DN 250</p>	<p>370 160                      370 160                      370 200                      370 250</p>	<p>38,--                      35,--                      45,--                      48,--</p>
 <p><b>Connection adapter – connector</b>                      for SVD 8, SVD 10, SVD 12      DN 150                      for SVE 8, SVE 10, SVE 12      DN 150                      for SVD 8, SVD 10, SVD 12      DN 160                      for SVE 8, SVE 10, SVE 12      DN 160                      for SVD 14 and SVD 16      DN 200                      for SVD 16      DN 250</p>	<p>375 150                      375 150                      375 160                      375 160                      375 200                      375 250</p>	<p>18,--                      18,--                      18,--                      18,--                      20,--                      25,--</p>
 <p><b>Connection adapter – sleeve</b>                      for SVD 8, SVD 10, SVD 12      DN 150                      for SVE 8, SVE 10, SVE 12      DN 160                      for SVD 14 and SVD 16      DN 200                      for SVD 16 ( suction side )      DN 250</p>	<p>376 150                      376 160                      376 200                      376 250</p>	<p>30,--                      30,--                      32,--                      35,--</p>

Item	Item no.	EUR
 <p><b>Wall mount for fan</b> SVD 8, SVD 10, SVD 12, SVE 8, SVE 10 and SVE 12 including intake adapter ( but without ring tensioner ) 100 mm Ø 125 mm Ø 150 mm Ø 160 mm Ø</p>	<p>116 001 116 002 116 003 116 004</p>	<p>155,-- 160,-- 165,-- 175,--</p>
 <p><b>Consoles kit</b> galvanised, two-piece Extension 450 mm Extension 600 mm Extension 1000 mm</p>	<p>124 505 126 005 121 005</p>	<p>145,-- 160,-- 180,--</p>
 <p><b>Vibration absorber kit</b> ( 1 set = 4 units ) between ventilator foot and console</p>	<p>117 085</p>	<p>40,--</p>
 <p><b>Flexible connection kit</b> including hose clamps for vibration-free transitions from the fan nozzle to the conduit. for SVD 8, SVD 10, and SVE 8 and SVE 10 for SVD 12 and SVE 12 for SVD 14 for SVD 16</p>	<p>123 160 124 160 123 200 123 250</p>	<p>35,-- 40,-- 45,-- 50,--</p>
 <p><b>Sound insulation and weather protection box, stable galvanised steel structure, Insulation approx. 15dB (A) at 250 Hz.</b> for SVD 8 and SVE 8 in dimensions 600 x 600 x 600 mm for SVD 10, SVD 12, SVE 10 and SVE 12 in dimensions 700 x 700 x 700 mm for SVD 14 and SVD 16 in dimensions 900 x 900 x 900 mm</p>	<p>120 060 120 070 120 090</p>	<p>1.190,-- 1.230,-- 1.350,--</p>
 <p><b>Roof console</b> for the fan installation on a flat roof in a "MAFUND version".</p>	<p>650 250</p>	<p>225,--</p>


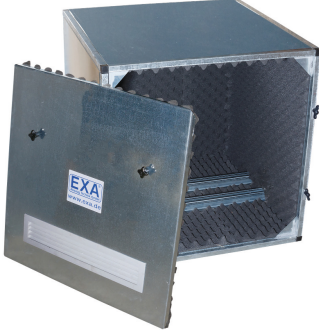

Item	Item no.	EUR																																																								
<p><b>Cast aluminium exhaust extraction fans; performance and noise-optimised, direct-driven, painted in RAL 7035 ( light grey ); Revs: approx. 2.800 / min, turning clockwise; Efficiency rate IE2 or IE3-High Efficiency. Including inlet and pressure adapters. Universally applicable for under- and aboveground systems with higher system resistors. Fans in 2-stage version on request.</b></p> <p><b>Voltage: Three phase current, 400 V, 50 Hz</b></p> <p><b>Type RD 20</b></p> <table border="0"> <tr> <td>Extraction capacity max.</td> <td>660 m³/h</td> </tr> <tr> <td>Pressure</td> <td>2.000 Pa</td> </tr> <tr> <td>Motor power</td> <td>0.3 kW</td> </tr> <tr> <td>Current consumption</td> <td>1.2 A</td> </tr> <tr> <td>Intake adapter</td> <td>100 mm Ø</td> </tr> <tr> <td>Pressure adapter</td> <td>100 mm Ø</td> </tr> <tr> <td>Weight with ventilator foot</td> <td>21 kg</td> </tr> </table> <p><b>Type RD 40</b></p> <table border="0"> <tr> <td>Extraction capacity max.</td> <td>810 m³/h</td> </tr> <tr> <td>Pressure</td> <td>2.200 Pa</td> </tr> <tr> <td>Motor power</td> <td>0.55 kW</td> </tr> <tr> <td>Current consumption</td> <td>1.55 A</td> </tr> <tr> <td>Intake adapter</td> <td>100 mm Ø</td> </tr> <tr> <td>Pressure adapter</td> <td>100 mm Ø</td> </tr> <tr> <td>Weight with ventilator foot</td> <td>24 kg</td> </tr> </table> <p><b>Type RD 50</b></p> <table border="0"> <tr> <td>Extraction capacity max.</td> <td>1.080 m³/h</td> </tr> <tr> <td>Pressure</td> <td>2.100 Pa</td> </tr> <tr> <td>Motor power</td> <td>0.55 kW</td> </tr> <tr> <td>Current consumption</td> <td>1.65 A</td> </tr> <tr> <td>Intake adapter</td> <td>150 mm Ø</td> </tr> <tr> <td>Pressure adapter</td> <td>100 mm Ø</td> </tr> <tr> <td>Weight with ventilator foot</td> <td>28 kg</td> </tr> </table> <p><b>Type RD 60</b></p> <table border="0"> <tr> <td>Extraction capacity max.</td> <td>1.320 m³/h</td> </tr> <tr> <td>Pressure</td> <td>2.500 Pa</td> </tr> <tr> <td>Motor power</td> <td>0.9 kW</td> </tr> <tr> <td>Current consumption</td> <td>2.05 A</td> </tr> <tr> <td>Intake adapter</td> <td>150 mm Ø</td> </tr> <tr> <td>Pressure adapter</td> <td>100 mm Ø</td> </tr> <tr> <td>Weight with ventilator foot</td> <td>30 kg</td> </tr> </table> 	Extraction capacity max.	660 m³/h	Pressure	2.000 Pa	Motor power	0.3 kW	Current consumption	1.2 A	Intake adapter	100 mm Ø	Pressure adapter	100 mm Ø	Weight with ventilator foot	21 kg	Extraction capacity max.	810 m³/h	Pressure	2.200 Pa	Motor power	0.55 kW	Current consumption	1.55 A	Intake adapter	100 mm Ø	Pressure adapter	100 mm Ø	Weight with ventilator foot	24 kg	Extraction capacity max.	1.080 m³/h	Pressure	2.100 Pa	Motor power	0.55 kW	Current consumption	1.65 A	Intake adapter	150 mm Ø	Pressure adapter	100 mm Ø	Weight with ventilator foot	28 kg	Extraction capacity max.	1.320 m³/h	Pressure	2.500 Pa	Motor power	0.9 kW	Current consumption	2.05 A	Intake adapter	150 mm Ø	Pressure adapter	100 mm Ø	Weight with ventilator foot	30 kg	<p>130 001</p> <p>130 002</p> <p>130 003</p> <p>130 004</p>	<p>1.530,--</p> <p>1.670,--</p> <p>2.050,--</p> <p>2.240,--</p>
Extraction capacity max.	660 m³/h																																																									
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Weight with ventilator foot	30 kg																																																									

Item	Item no.	EUR
<b>Voltage: Three phase current, 400 V, 50 Hz</b>		
<p><b>Type RD 64</b></p> <p>Extraction capacity max. 2.100 m<sup>3</sup>/h            Pressure 3.100 Pa            Motor power 1.5 kW            Current consumption 3.75 A            Intake adapter 150 mm Ø            Pressure adapter 150 mm Ø            Weight with ventilator foot 40 kg</p>	130 005	2.880,--
<p><b>Type RD 66</b></p> <p>Extraction capacity max. 2.700 m<sup>3</sup>/h            Pressure 2.300 Pa            Motor power 2.2 kW            Current consumption 5.2 A            Intake adapter 150 mm Ø            Pressure adapter 150 mm Ø            Weight with ventilator foot 45 kg</p>	130 006	3.555,--
<p><b>Type RD 70</b></p> <p>Extraction capacity max. 3.000 m<sup>3</sup>/h            Pressure 3.600 Pa            Motor power 2.2 kW            Current consumption 5.2            Intake adapter 160 mm Ø            Pressure adapter 160 mm Ø            Weight with ventilator foot 49 kg</p>	130 007	4.170,--
<p><b>Type RD 74</b></p> <p>Extraction capacity max. 3.630 m<sup>3</sup>/h            Pressure 3.500 Pa            Motor power 4.0 kW            Current consumption 8.4 A            Intake adapter 200 mm Ø            Pressure adapter 200 mm Ø            Weight with ventilator foot 65 kg</p>	130 008	5.590,--
<p><b>Type RD 82</b></p> <p>Extraction capacity max. 5.280 m<sup>3</sup>/h            Pressure 5.200 Pa            Motor power 7.5 kW            Current consumption 14.9 A            Intake adapter 230 mm Ø            Pressure adapter 190 mm Ø            Weight with ventilator foot 112 kg</p>	130 009	6.650,--



Item	Item no.	EUR
 <p><b>Motor circuit breaker on / off with casing</b>                      for RD 20, RD 40      Type MS 01                      for RD 50, RD 60      Type MS 02                      for RD 64                  Type MS 03                      for RD 66, RD 70      Type MS 04                      for RD 74                  Type MS 05</p> <p><b>Automatic delta-star switch</b>                      for RD 82                  Type MS 07</p>	<p>117 001      90,--                      117 002      90,--                      117 003      90,--                      117 004      90,--                      117 005      95,--</p> <p>117 007      890,--</p>	
 <p><b>Protective control system for fans including motor circuit breaker</b>                      for multiple switching stations within the workshop.                      ( please advise fan type ).</p>  <p><b>Wall-mounted on / off-switch / indicator</b>                      for protective control system</p>	<p>117 068      640,--</p> <p>117 069      90,--</p>	
 <p><b>Repair switch</b>                      to turn off the fan for maintenance purposes</p> <p><b>Repair switch holder</b></p>	<p>117 008      90,--</p> <p>117 018      38,--</p>	
 <p><b>Consoles kit</b>                      galvanised, two-piece</p> <p>Extension    600 mm                      Extension    700 mm                      Extension    1.100 mm</p>	<p>650 000      160,--                      650 001      175,--                      650 002      200,--</p>	
 <p><b>Oscillation absorber kit ( 1 set=4 units )</b>                      between ventilator foot and console</p>	<p>117 085      40,--</p>	


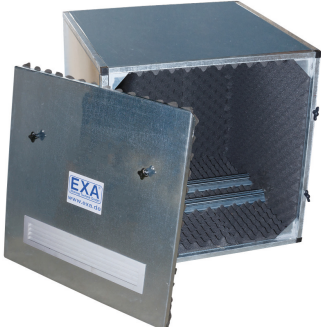












Item	Item no.	EUR
 <p><b>Flexible connection kit</b> including hose clamps for vibration-free transitions from the fan nozzles to the conduit. for RD 20, RD 40 for RD 50, RD 60 for RD 64, RD 66 for RD 70, RD 74 for RD 82</p>	<p>123 001 123 002 123 003 123 004 123 005</p>	<p>35,-- 35,-- 35,-- 40,-- 45,--</p>
 <p><b>Sound insulation and weather protection box, stable galvanised steel structure, Insulation approx. 15 dB (A) at 250 Hz.</b> for RD 60 and RD 64 in dimensions 900 x 900 x 900 mm  for RD 66, RD 70, RD 74 and RD 82 in dimensions 1.150 x 1.150 x 1.150 mm</p>	<p>120 090  120 115</p>	<p>1.350,--  1.475,--</p>
 <p><b>Roof console</b> for installation of the fan on a flat roof in a "MAFUND version".</p>	<p>650 250</p>	<p>225,--</p>


Item	Item no.	EUR																																																								
<p><b>Exhaust fans made of sheet steel performance and noise-optimised, direct-driven, painted in RAL 7035 ( light grey )</b>  <b>Revs: approx. 2,800/min, turning clockwise</b>  <b>Efficiency rate IE2 or IE3-High Efficiency.</b>  <b>Including inlet and pressure adapters.</b>  <b>Universally applicable for aboveground systems with small plants system resistors and with pit extraction systems.</b>  <b>Fans in explosion-proof design are available on request.</b></p> <p><b>Voltage: Three phase current, 400 V, 50 Hz</b></p> <p><b>Type MSK 180</b></p> <table border="0"> <tr><td>Extraction capacity max.</td><td>1.500 m<sup>3</sup>/h</td></tr> <tr><td>Pressure</td><td>950 Pa</td></tr> <tr><td>Motor power</td><td>0.75 kW</td></tr> <tr><td>Current consumption</td><td>1.2 A</td></tr> <tr><td>Intake adapter</td><td>160 mm Ø</td></tr> <tr><td>Pressure adapter</td><td>160 mm Ø</td></tr> <tr><td>Weight with ventilator foot</td><td>26 kg</td></tr> </table> <p><b>Type MSK 200</b></p> <table border="0"> <tr><td>Extraction capacity max.</td><td>2.100 m<sup>3</sup>/h</td></tr> <tr><td>Pressure</td><td>1.400 Pa</td></tr> <tr><td>Motor power</td><td>1.1 kW</td></tr> <tr><td>Current consumption</td><td>2.6 A</td></tr> <tr><td>Intake adapter</td><td>200 mm Ø</td></tr> <tr><td>Pressure adapter</td><td>200 mm Ø</td></tr> <tr><td>Weight with ventilator foot</td><td>30 kg</td></tr> </table> <p><b>Type MSK 225</b></p> <table border="0"> <tr><td>Extraction capacity max.</td><td>2.500 m<sup>3</sup>/h</td></tr> <tr><td>Pressure</td><td>1.500 Pa</td></tr> <tr><td>Motor power</td><td>2.2 kW</td></tr> <tr><td>Current consumption</td><td>5.2 A</td></tr> <tr><td>Intake adapter</td><td>250 mm Ø</td></tr> <tr><td>Pressure adapter</td><td>250 mm Ø</td></tr> <tr><td>Weight with ventilator foot</td><td>45 kg</td></tr> </table> <p><b>Type MSK 250</b></p> <table border="0"> <tr><td>Extraction capacity max.</td><td>4.000 m<sup>3</sup>/h</td></tr> <tr><td>Pressure</td><td>1.850 Pa</td></tr> <tr><td>Motor power</td><td>4.2 kW</td></tr> <tr><td>Current consumption</td><td>7.9 A</td></tr> <tr><td>Intake adapter</td><td>250 mm Ø</td></tr> <tr><td>Pressure adapter</td><td>250 mm Ø</td></tr> <tr><td>Weight with ventilator foot</td><td>51 kg</td></tr> </table>	Extraction capacity max.	1.500 m <sup>3</sup> /h	Pressure	950 Pa	Motor power	0.75 kW	Current consumption	1.2 A	Intake adapter	160 mm Ø	Pressure adapter	160 mm Ø	Weight with ventilator foot	26 kg	Extraction capacity max.	2.100 m <sup>3</sup> /h	Pressure	1.400 Pa	Motor power	1.1 kW	Current consumption	2.6 A	Intake adapter	200 mm Ø	Pressure adapter	200 mm Ø	Weight with ventilator foot	30 kg	Extraction capacity max.	2.500 m <sup>3</sup> /h	Pressure	1.500 Pa	Motor power	2.2 kW	Current consumption	5.2 A	Intake adapter	250 mm Ø	Pressure adapter	250 mm Ø	Weight with ventilator foot	45 kg	Extraction capacity max.	4.000 m <sup>3</sup> /h	Pressure	1.850 Pa	Motor power	4.2 kW	Current consumption	7.9 A	Intake adapter	250 mm Ø	Pressure adapter	250 mm Ø	Weight with ventilator foot	51 kg	<p>110 180</p> <p>110 200</p> <p>110 225</p> <p>110 250</p>	<p>1.140,--</p> <p>1.450,--</p> <p>1.890,--</p> <p>2.255,--</p>
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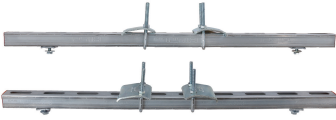







Item	Item no.	EUR
 <p><b>Type MSK 315</b>            Extraction capacity max. 5.800 m<sup>3</sup>/h            Pressure 2.150 Pa            Motor power 5.5 kW            Current consumption 13.5 A            Intake adapter 250 mm Ø            Pressure adapter 315 mm Ø            Weight with ventilator foot 66 kg</p>	110 315	2.820,--
 <p><b>Motor circuit breaker on / off with casing</b>            for MSK 180 Type MS 01            for MSK 200 Type MS 02            for MSK 225 Type MS 03            for MSK 250 Type MS 04            for MSK 315 Type MS 06</p>	117 001 117 002 117 003 117 004 117 006	90,-- 90,-- 90,-- 90,-- 95,--
 <p><b>Protective control system for fans including motor circuit breaker</b>            for multiple switching stations within the workshop. ( please advise fan type ).</p>  <p><b>Wall-mounted on / off-switch / indicator</b>            for protective control system</p>	117 068  117 069	640,--  90,--
 <p><b>Repair switch</b>            to turn off the fan for maintenance purposes</p> <p><b>Repair switch holder</b></p>	117 008  117 018	90,--  38,--
 <p><b>Flexible connection kit</b>            including hose clamps for vibration-free transitions from the fan nozzles to the conduit.</p> <p>for MSK 180            for MSK 200            for MSK 225            for MSK 250            for MSK 315</p>	123 180 123 200 123 225 123 250 123 315	40,-- 45,-- 45,-- 50,-- 55,--
 <p><b>Consoles kit</b>            galvanised, two-piece</p> <p>for MSK 180 ( console length 450 mm)            for MSK 200 and MSK 225 ( console length 600 mm)            for MSK 250 and MSK 315 ( console length 1.000 mm)</p>	124 505 126 005 121 005	145,-- 160,-- 180,--

Item	Item no.	EUR
 <p><b>Oscillation absorber kit</b> ( 1 set = 4 units ) between ventilator foot and console</p>	117 085	40,--
 <p><b>Sound insulation and weather protection box, stable galvanised steel structure, Insulation approx. 15dB (A) at 250 Hz.</b></p> <p>for MSK 180 in dimensions 700 x 400 x 400 mm for MSK 200 in dimensions 800 x 500 x 450 mm for MSK 225 in dimensions 900 x 550 x 470 mm for MSK 250 in dimensions 1000 x 600 x 510 mm for MSK 315 in dimensions 1100 x 700 x 600 mm</p>	116 180 116 200 116 225 116 250 116 315	1.150,-- 1.190,-- 2.220,-- 1.290,-- 1.350,--
 <p><b>Switchgear with switch-off delay</b> ( applies to all fans )</p> <p>complete in casing for wall surface mounting, with motor circuit breaker and time relays adjustable from 1 to 60 min. ( please advise fan type when ordering )</p>	117 050	535,--
 <p><b>Switchgear for the exhaust extraction in fire service storage rooms</b> ( applies to all fans )</p> <p>complete in casing for wall surface mounting. With circuit breaker, protection, adjustable timer relay and the required clamping strips. With switch to set OFF / AUTO / CONTINUOUS OPERATION. With green stand-by and red error indicators. Additionally featuring external controls via, e.g., push button, door contacts or other alarm triggers.( please advise fan type when ordering )</p>  <p><b>Push button for external controls.</b></p>	117 060 117 061	945,-- 90,--
 <p><b>Roof console</b></p> <p>for installation of the fan on a flat roof in a "MAFUND version".</p>	650 250	225,--

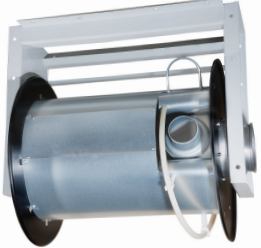

Item	Item no.	EUR
 <p><b>Switchgear with switch-off delay</b> ( applies to all fans )</p> <p>complete in casing for wall surface mounting, with motor circuit breaker and time relays adjustable from 1 to 60 min. ( please advise fan type when ordering )</p>	117 050	640,--
 <p><b>Switchgear for the exhaust extraction in fire service storage rooms</b> ( applies to all fans )</p> <p>finished in wall surface housing, mounted with circuit diagram. With circuit breaker, protection, adjustable timer relay and the required clamping strips. With switch to set OFF / AUTO / CONTINUOUS OPERATION. With green stand-by and red error indicators. Additionally featuring external controls via, e.g., push button, door contacts or other alarm triggers. ( please advise fan type when ordering )</p>  <p><b>Push button for external alarm controls.</b></p>	117 060	990,--
 <p><b>Central fan airflow control system</b></p> <p>finished in wall surface housing, mounted with circuit diagram. For the control of a central fan up to 4.2 kW via protection system. Complete with motor circuit breaker and main switch including indicator lights. ( please advise fan type when ordering ).</p>	117 053	925,--
 <p><b>Switchgear for automatic exhaust extraction system switch-on</b></p> <p>when suspending the exhaust hoses from the hose reel trolley and the automatic switching off of the system when mounting the exhaust extraction hoses. Complete with transmitter and receiver ( Power supply of the hose reel trolley-mounted transmitter is via a 9 V lithium block battery ). Designed for two hose reel trolleys. No costly power cord leads on exhaust extraction rail channel strand are necessary</p> <p>Surcharge for further hose reel trolley-mounted transmitters complete with holder ( price per unit ).</p>  <p><b>Further airflow controls are available on request.</b></p>	117 079	2.975,--
	117 078	425,--

Item	Item no.	EUR																																
<p><b>Mechanical hose reels are suitable for wall and ceiling mounting and designed for rugged workshop operation.</b></p> <p><b>Exhaust extraction hose reel, Type M</b>                      consisting of a sturdy steel construction, painted in RAL 7035 ( light grey ) with a galvanised drum ( Ø 450 mm ), right-hand version ( the reel is wound from the drive axle to the right ).                      Complete with hardened leaf spring, locking device, adapter and a mounting flange and retaining disc.</p> <p>Optionally, an exhaust fan of the SVD or SVE series can be directly flanged or a conduit system ( connection diameter DN 160 ) directly connected to the reel.</p> <p><b>Hose reel ( without exhaust extraction hose and retaining disc )</b></p> <table border="0"> <tr> <td>Drum width</td> <td>600 mm with DN 75 connection</td> <td>612 075</td> <td>1.175,--</td> </tr> <tr> <td>Drum width</td> <td>600 mm with DN 100 connection</td> <td>612 100</td> <td>1.175,--</td> </tr> <tr> <td>Drum width</td> <td>850 mm with DN 75 connection</td> <td>613 075</td> <td>1.190,--</td> </tr> <tr> <td>Drum width</td> <td>850 mm with DN 100 connection</td> <td>613 100</td> <td>1.190,--</td> </tr> <tr> <td>Drum width</td> <td>850 mm with DN 125 connection</td> <td>613 025</td> <td>1.190,--</td> </tr> <tr> <td>Drum width</td> <td>995 mm with DN 100 connection</td> <td>614 100</td> <td>1.215,--</td> </tr> <tr> <td>Drum width</td> <td>995 mm with DN 125 connection</td> <td>614 125</td> <td>1.215,--</td> </tr> <tr> <td>Drum width</td> <td>995 mm with DN 150 connection</td> <td>614 150</td> <td>1.215,--</td> </tr> </table>	Drum width	600 mm with DN 75 connection	612 075	1.175,--	Drum width	600 mm with DN 100 connection	612 100	1.175,--	Drum width	850 mm with DN 75 connection	613 075	1.190,--	Drum width	850 mm with DN 100 connection	613 100	1.190,--	Drum width	850 mm with DN 125 connection	613 025	1.190,--	Drum width	995 mm with DN 100 connection	614 100	1.215,--	Drum width	995 mm with DN 125 connection	614 125	1.215,--	Drum width	995 mm with DN 150 connection	614 150	1.215,--		
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Drum width	995 mm with DN 150 connection	614 150	1.215,--																															
 <p><b>Hose reel (including exhaust extraction hose and retaining disc)</b></p> <table border="0"> <tr> <td>Drum width</td> <td>600 mm with 7.5 m DN 75 hose</td> <td>615 075</td> <td>1.490,--</td> </tr> <tr> <td>Drum width</td> <td>600 mm with 7.5 m DN 100 hose</td> <td>615 100</td> <td>1.525,--</td> </tr> <tr> <td>Drum width</td> <td>850 mm with 10 m DN 75 hose</td> <td>616 075</td> <td>1.590,--</td> </tr> <tr> <td>Drum width</td> <td>850 mm with 10 m DN 100 hose</td> <td>616 100</td> <td>1.640,--</td> </tr> <tr> <td>Drum width</td> <td>850 mm with 10 m DN 125 hose</td> <td>616 125</td> <td>1.695,--</td> </tr> <tr> <td>Drum width</td> <td>995 mm with 10 m DN 100 hose</td> <td>617 100</td> <td>1.665,--</td> </tr> <tr> <td>Drum width</td> <td>995 mm with 10 m DN 125 hose</td> <td>617 125</td> <td>1.720,--</td> </tr> <tr> <td>Drum width</td> <td>995 mm with 10 m DN 150 hose</td> <td>617 150</td> <td>1.775,--</td> </tr> </table>	Drum width	600 mm with 7.5 m DN 75 hose	615 075	1.490,--	Drum width	600 mm with 7.5 m DN 100 hose	615 100	1.525,--	Drum width	850 mm with 10 m DN 75 hose	616 075	1.590,--	Drum width	850 mm with 10 m DN 100 hose	616 100	1.640,--	Drum width	850 mm with 10 m DN 125 hose	616 125	1.695,--	Drum width	995 mm with 10 m DN 100 hose	617 100	1.665,--	Drum width	995 mm with 10 m DN 125 hose	617 125	1.720,--	Drum width	995 mm with 10 m DN 150 hose	617 150	1.775,--		
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<p><b>All hose reels are available with a directly flanged fan ( see also Group 1.1 – Compact Hose Reels )</b></p>																																		




Item	Item no.	EUR
 <p><b>Fastening system</b></p> <p>for an easy and quick installation on a T-carrier, with height compensation system, <b>transversal</b>, complete with clamping jaws and accessories ( no image ).</p> <p>for an easy and quick installation on a T-carrier, with height compensation system, <b>longitudinal</b>, complete with clamping jaws and accessories ( no image ).</p> <p>for an easy and quick installation on a steel support, complete with clamping jaws and accessories.</p> <p>for an easy and quick installation on a concrete or wooden support, with accessories ( no image ).</p>	<p>610 001</p> <p>610 010</p> <p>610 020</p> <p>610 030</p>	<p>180,--</p> <p>195,--</p> <p>195,--</p> <p>180,--</p>
 <p><b>Retaining disc as replacement</b></p> <p>for DN 75 hose</p> <p>for DN 100 hose</p> <p>for DN 125 hose</p> <p>for DN 150 hose</p> <p><b>Locking device as replacement</b> (no image)</p>	<p>660 075</p> <p>660 100</p> <p>660 125</p> <p>660 150</p> <p>660 600</p>	<p>65,--</p> <p>65,--</p> <p>70,--</p> <p>80,--</p> <p>70,--</p>
 <p><b>Exhaust extraction fan – Type SVD 8</b></p> <p>Extraction capacity max. 1.380 m<sup>3</sup>/h</p> <p>Pressure 1.200 Pa</p> <p><b>Voltage 400 V, 50 Hz</b></p> <p>Motor power 0.6 kW</p> <p>Current consumption 1.45 A</p> <p>Intake adapter 160 mm Ø</p> <p>Pressure adapter 160 mm Ø</p> <p>Weight without ventilator foot 21 kg</p> <p><b>Exhaust extraction fan – Type SVD 10</b></p> <p>Extraction capacity max. 1.620 m<sup>3</sup>/h</p> <p>Pressure 1.400 Pa</p> <p><b>Voltage 400 V, 50 Hz</b></p> <p>Motor power 0.75 kW</p> <p>Current consumption 2.05 A</p> <p>Intake adapter 160 mm Ø</p> <p>Pressure adapter 160 mm Ø</p> <p>Weight without ventilator foot 22 kg</p> <p><b>Exhaust extraction fan – Type SVD 12</b></p> <p>Extraction capacity max. 2.200 m<sup>3</sup>/h</p> <p>Pressure 1.600 Pa</p> <p><b>Voltage 400 V, 50 Hz</b></p> <p>Motor power 1.2 kW</p> <p>Current consumption 2.6 A</p> <p>Intake adapter 160 mm Ø</p> <p>Pressure adapter 160 mm Ø</p> <p>Weight without ventilator foot 25 kg</p>	<p>120 008</p> <p>120 010</p> <p>120 012</p>	<p>1.010,--</p> <p>1.120,--</p> <p>1.230,--</p>

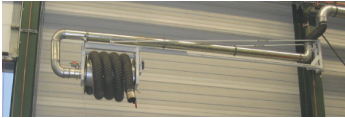



Item	Item no.	EUR
 <p><b>Exhaust extraction fan – Type SVE 8</b></p> <p>Extraction capacity max. 1.380 m<sup>3</sup>/h            Pressure 1.200 Pa  <b>Voltage 230 V, 50 Hz</b>            Motor power 0.6 kW            Current consumption 3.9 A            Intake adapter 160 mm Ø            Pressure adapter 160 mm Ø            Weight without ventilator foot 21 kg</p> <p><b>Exhaust extraction fan – Type SVE 10</b></p> <p>Extraction capacity max. 1.620 m<sup>3</sup>/h            Pressure 1.400 Pa  <b>Voltage 230 V, 50 Hz</b>            Motor power 0.75 kW            Current consumption 5.0 A            Intake adapter 160 mm Ø            Pressure adapter 160 mm Ø            Weight without ventilator foot 23 kg</p> <p><b>Exhaust extraction fan – Type SVE 12</b></p> <p>Extraction capacity max. 2.220 m<sup>3</sup>/h            Pressure 1.600 Pa  <b>Voltage 230 V, 50 Hz</b>            Motor power 1.1 kW            Current consumption 7.0 A            Intake adapter 160 mm Ø            Pressure adapter 160 mm Ø            Weight without ventilator foot 25 kg</p>	<p>121 008</p> <p>121 010</p> <p>121 012</p>	<p>1.230,--</p> <p>1.380,--</p> <p>1.490,--</p>
 <p><b>Motor circuit breaker on / off with casing</b></p> <p>for SVD 8 – Type MS 01            for SVD 10 – Type MS 02            for SVD 12 – Type MS 02</p> <p>for SVE 8 – Type MS 04            for SVE 10 – Type MS 04            for SVE 12 – Type MS 05</p>	<p>117 001</p> <p>117 002</p> <p>117 002</p> <p>117 004</p> <p>117 004</p> <p>117 005</p>	<p>90,--</p> <p>90,--</p> <p>90,--</p> <p>90,--</p> <p>90,--</p> <p>95,--</p>
 <p><b>Connection</b> for further conduit system</p> <p>Tension ring with neoprene insert DN 150 / 160            Connection adapter DN 150            Connection adapter DN 160</p>	<p>370 160</p> <p>375 150</p> <p>375 160</p>	<p>38,--</p> <p>18,--</p> <p>18,--</p>
<p>All hose reels are available with a directly flanged fan.            – see Compact Systems ( Group 1.1 )</p> <p>Further switchgear for hose reels            – see Switchgear ( Group 6.3 )</p>		







Item	Item no.	EUR
<p><b>Electric hose reels are suitable for wall and ceiling mounting and designed for rugged workshop operation.</b></p> <p><b>Exhaust extraction hose reel, Type E</b>                      consisting of a sturdy steel construction, painted in RAL 7035 ( light grey ) with a galvanised drum ( Ø 450 mm ), right-hand version ( the reel is wound from the drive axle to the right ). Complete with motor propulsion ( 0.3 kW, 230 V, 50 Hz ) and two limit switches, adapter as well as a mounting flange.</p> <p>Optionally, an exhaust fan of the SVD or SVE series can be directly flanged or a conduit system ( connection diameter DN 160 ) directly connected to the reel.</p> <p><b>Hose reel (without exhaust extraction hose)</b></p> <p>Drum width 850 mm with DN 75 connection</p> <p>Drum width 850 mm with DN 100 connection</p> <p>Drum width 850 mm with DN 125 connection</p> <p>Drum width 995 mm with DN 100 connection</p> <p>Drum width 995 mm with DN 125 connection</p> <p>Drum width 995 mm with DN 150 connection</p> <p>Drum width 1,250 mm with DN 100 connection</p> <p>Drum width 1,250 mm with DN 125 connection</p> <p>Drum width 1,250 mm with DN 150 connection</p> <p>Surcharge for reel in left-handed version</p> 	<p></p> <p>623 075</p> <p>623 100</p> <p>623 025</p> <p>624 100</p> <p>624 125</p> <p>624 150</p> <p>625 100</p> <p>625 125</p> <p>625 150</p> <p>620 500</p>	<p></p> <p>1.955,--</p> <p>1.955,--</p> <p>1.955,--</p> <p>1.975,--</p> <p>1.975,--</p> <p>1.975,--</p> <p>1.995,--</p> <p>1.995,--</p> <p>1.995,--</p> <p>85,--</p>
<p><b>Hose reel (with exhaust hose, Type TBN and accessories)</b></p> <p>Drum width 850 mm with 10 m DN 75 hose</p> <p>Drum width 850 mm with 10 m DN 100 hose</p> <p>Drum width 850 mm with 10 m DN 125 hose</p> <p>Drum width 995 mm with 10 m DN 100 hose</p> <p>Drum width 995 mm with 10 m DN 125 hose</p> <p>Drum width 995 mm with 10 m DN 150 hose</p> <p>Drum width 1,250 mm with 15 m DN 100 hose</p> <p>Drum width 1,250 mm with 15 m DN 125 hose</p> <p>Drum width 1,250 mm with 15 m DN 150 hose</p> <p>Surcharge for reel in left-handed version</p> 	<p>626 075</p> <p>626 100</p> <p>626 125</p> <p>627 100</p> <p>627 125</p> <p>627 150</p> <p>637 100</p> <p>637 125</p> <p>637 150</p> <p>620 500</p>	<p>2.305,--</p> <p>2.355,--</p> <p>2.405,--</p> <p>2.375,--</p> <p>2.425,--</p> <p>2.475,--</p> <p>2.575,--</p> <p>2.670,--</p> <p>2.695,--</p> <p>85,--</p>

Item	Item no.	EUR
<p><b>Fastening system</b></p> <p>for an easy and quick installation on a T-carrier, with height compensation, <b>transversal</b>, complete with clamping jaws and accessories ( no image ).</p> <p>for an easy and quick installation on a T-carrier, with height compensation, <b>longitudinal</b>, complete with clamping jaws and accessories ( no image ).</p> <p>for an easy and quick installation on a steel support, complete with clamping jaws and accessories.</p> <p>for an easy and quick installation on a concrete or wooden support, with accessories ( no image ).</p>	<p>610 001</p> <p>610 010</p> <p>610 020</p> <p>610 030</p>	<p>180,--</p> <p>195,--</p> <p>195,--</p> <p>180,--</p>
<div data-bbox="194 941 510 1374" data-label="Image"> </div> <p><b>Control variants for electric hose reels</b></p> <p>Wall-mounted button ( up / down )</p> <p>Hanging switch ( up / down ) with 5 m cable</p> <p>Hanging switch ( up / down and on / off ) with cable including extension of motor control</p> <p>Wall-mounted button ( up / down and on / off ) including extension of motor control</p> <p>Radio remote control ( transmitter and receiver ), 2,4 GHz, able to encode, including of motor control</p> <p>Wall-mounted holder for remote control ( no image )</p>	<p>117 062</p> <p>117 070</p> <p>117 064</p> <p>117 065</p> <p>117 066</p> <p>117 071</p>	<p>190,--</p> <p>210,--</p> <p>380,--</p> <p>290,--</p> <p>875,--</p> <p>45,--</p>
<div data-bbox="236 1692 461 1952" data-label="Image"> </div> <p><b>Exhaust extraction fan – Type SVD 10</b></p> <p>Extraction capacity max. 1.620 m<sup>3</sup>/h</p> <p>Pressure 1.400 Pa</p> <p><b>Voltage 400 V, 50 Hz</b></p> <p>Motor power 0.75 kW</p> <p>Current consumption 2.05 A</p> <p>Intake adapter 160 mm Ø</p> <p>Pressure adapter 160 mm Ø</p> <p>Weight without ventilator foot 22 kg</p> <p><b>Exhaust extraction fan – Type SVD 12</b></p> <p>Extraction capacity max. 2.200 m<sup>3</sup>/h</p> <p>Pressure 1.600 Pa</p> <p><b>Voltage 400 V, 50 Hz</b></p> <p>Motor power 1.2 kW</p> <p>Current consumption 2.6 A</p> <p>Intake adapter 160 mm Ø</p> <p>Pressure adapter 160 mm Ø</p> <p>Weight without ventilator foot 25 kg</p>	<p>120 010</p> <p>120 012</p>	<p>1.120,--</p> <p>1.230,--</p>




Item	Item no.	EUR
 <p><b>Exhaust extraction fan – Type SVE 10</b></p> <p>Extraction capacity max. 1.620 m<sup>3</sup>/h            Pressure 1.400 Pa  <b>Voltage 230 V, 50 Hz</b>            Motor power 0.75 kW            Current consumption 5.0 A            Intake adapter 160 mm Ø            Pressure adapter 160 mm Ø            Weight without ventilator foot 23 kg</p> <p><b>Exhaust extraction fan – Type SVE 12</b></p> <p>Extraction capacity max. 2.220 m<sup>3</sup>/h            Pressure 1.600 Pa  <b>Voltage 230 V, 50 Hz</b>            Motor power 1.1 kW            Current consumption 7.0 A            Intake adapter 160 mm Ø            Pressure adapter 160 mm Ø            Weight without ventilator foot 25 kg</p>	<p>121 010</p> <p>121 012</p>	<p>1.380,--</p> <p>1.490,--</p>
 <p><b>Motor circuit breaker on / off with casing</b></p> <p>for SVD 10 – Type MS 02            for SVD 12 – Type MS 02            for SVE 10 – Type MS 04            for SVE 12 – Type MS 05</p>	<p>117 002</p> <p>117 002</p> <p>117 004</p> <p>117 005</p>	<p>90,--</p> <p>90,--</p> <p>90,--</p> <p>95,--</p>
 <p><b>Connection</b> for further conduit system</p> <p>Tension ring with neoprene insert DN 150 / 160            Connection adapter DN 150            Connection adapter DN 160</p>	<p>370 160</p> <p>375 150</p> <p>375 160</p>	<p>38,--</p> <p>18,--</p> <p>18,--</p>
<p>All hose reels are available with a directly flanged fan.            – see Compact Systems ( Group 1.1 )</p> <p>Further switchgear for hose reels            – see Switchgear ( Group 6.3 )</p>		

Item	Item no.	EUR
 <p><b>Swing arm for hose reel</b></p> <p>stable steel structure made of square tubing, suitable for receiving a mechanical or electric hose reel on the swivel arm end. If necessary, the boom is simply pivoted on the wall. Complete with ball-bearing swivel and wall bracket, 180° swivelling including exhaust duct DN 160 with accessories and two end stops with rubber buffers at the end of the swing arm. The safety barrier is upwards-oriented.</p> <p>5,0 m swing arm to be mounted on the steel support 486 500 2.295,--          6,0 m swing arm to be mounted on the steel support 486 600 2.350,--</p> <p>5,0 m swing arm to be mounted on the concrete support 487 500 2.225,--          6,0 m swing arm to be mounted on the concrete support 487 600 2.280,--</p> <p>Surcharge for downward security barrier 488 000 300,--</p>		
 <p><b>Shut-off valve with an actuator motor DN 160</b></p> <p>suitable for installation in the conduit between the electric hose reel and a central exhaust fan. On the unused exhaust points it prevents false air to be unnecessarily sucked in. Shut-off valve opens once the retractor is used, and closes when not in use, automatically; 230 V, 50 Hz.</p> <p>610 600 295,--</p>		
 <p><b>Central fan airflow control system</b></p> <p>finished in wall surface housing, mounted with circuit diagram. For the control of a central fan and any number of electric hose reels. Receives commands the hose reel and turns on the fan via a breaker.</p> <p>Complete with motor circuit breaker ( please advise fan type when ordering ) and main switch. Including indicator lights.</p> <p>117 053 925,--</p>		
 <p><b>GMA 313 – CO<sub>2</sub> Gas detection system for one measuring point</b></p> <p>is a compact gas warning system for continuous monitoring of ambient air for dangers of carbon dioxide ( CO<sub>2</sub> ). Sensor and evaluation unit are integrated in one casing. Should the CO<sub>2</sub>-concentration exceed the limit, the GMA 313 alerts acoustically and visually. In addition, a relay is switched and the alarm transmitter GMA 313 signals the alarm.</p> <p>117 088 830,--</p>		



Item	Item no.	EUR
 <p><b>Folded spiral conduit, galvanised,</b> Length delivered 3.0 m ( price per metre )</p> <p>DN 100 DN 125 DN 150 DN 160 DN 200 DN 250 DN 315 DN 355</p>	<p>710 100 710 125 710 150 710 160 710 200 710 250 710 315 710 355</p>	<p>15,-- 16,-- 19,-- 21,-- 24,-- 28,-- 37,-- 42,--</p>
 <p><b>Connector ( with rubber lip seals )</b> designed to connect folded spiral conduits</p> <p>DN 100 DN 125 DN 150 DN 160 DN 200 DN 250 DN 315 DN 355</p>	<p>712 100 712 125 712 150 712 160 712 200 712 250 712 315 712 355</p>	<p>7,-- 8,-- 9,-- 9,-- 10,-- 11,-- 12,-- 13,--</p>
 <p><b>Pipe clamp</b> with soundproofing insert and M 10 dowel bolt for folded spiral conduit</p> <p>DN 100 DN 125 DN 150 DN 160 DN 200 DN 250 DN 315 DN 355</p>	<p>733 100 733 125 733 150 733 160 733 200 733 250 733 315 733 355</p>	<p>7,-- 8,-- 9,-- 9,-- 10,-- 12,-- 14,-- 15,--</p>
 <p><b>90° Bow ( with rubber lip seals )</b></p> <p>DN 100 DN 125 DN 150 DN 160 DN 200 DN 250 DN 315 DN 355</p>	<p>713 100 713 125 713 150 713 160 713 200 713 250 713 315 713 355</p>	<p>20,-- 26,-- 28,-- 32,-- 42,-- 51,-- 60,-- 68,--</p>

Item	Item no.	EUR
 <p><b>45° Bow</b> ( with rubber lip seals )</p> <p>DN 100 DN 125 DN 150 DN 160 DN 200 DN 250 DN 315 DN 355</p>	<p>735 100 735 125 735 150 735 160 735 200 735 250 735 315 735 355</p>	<p>16,-- 20,-- 22,-- 24,-- 31,-- 38,-- 45,-- 50,--</p>
 <p><b>Shut-off Valve</b> ( with rubber lip seals )</p> <p>DN 100 DN 125 DN 150 DN 160 DN 200 DN 250 DN 315 DN 355</p>	<p>718 100 718 125 718 150 718 160 718 200 718 250 718 315 718 355</p>	<p>40,-- 48,-- 50,-- 55,-- 60,-- 65,-- 72,-- 78,--</p>
 <p><b>Transition element</b> ( with rubber lip seals )</p> <p>75 – 100 mm 80 – 100 mm 100 – 125 mm 100 – 150 mm 100 – 160 mm 100 – 200 mm 125 – 150 mm 125 – 160 mm 150 – 160 mm 150 – 200 mm 160 – 200 mm 200 – 250 mm 250 – 315 mm 315 – 355 mm</p>	<p>714 100 714 080 715 100 715 150 715 160 715 200 716 150 716 160 717 150 717 200 716 200 717 250 717 315 717 355</p>	<p>18,-- 18,-- 25,-- 25,-- 25,-- 35,-- 25,-- 25,-- 25,-- 35,-- 35,-- 40,-- 45,-- 50,--</p>
 <p><b>Junction piece, 45°</b> ( with rubber lip seals )</p> <p>100 / 100 / 100 mm 125 / 125 / 125 mm 150 / 150 / 150 mm 160 / 160 / 160 mm 200 / 200 / 200 mm 250 / 250 / 250 mm 315 / 315 / 315 mm 355 / 355 / 355 mm</p>	<p>719 100 719 125 719 150 719 160 719 200 719 250 719 315 719 355</p>	<p>35,-- 38,-- 45,-- 55,-- 60,-- 68,-- 74,-- 90,--</p>





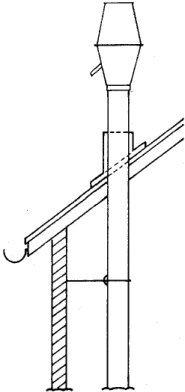
Item	Item no.	EUR
 <p><b>Junction piece, 90°</b> ( with rubber lip seals )</p> <p>100 / 100 / 100 mm 125 / 125 / 125 mm 150 / 100 / 150 mm 150 / 125 / 150 mm 150 / 150 / 150 mm 160 / 125 / 160 mm 160 / 160 / 160 mm 200 / 150 / 200 mm 200 / 160 / 200 mm 200 / 200 / 200 mm 250 / 200 / 250 mm 250 / 250 / 250 mm 315 / 250 / 315 mm 315 / 315 / 315 mm 355 / 355 / 355 mm</p>	<p>721 100 739 125 727 100 727 125 739 150 721 125 739 160 721 150 739 200 727 200 721 200 739 250 721 315 739 315 739 355</p>	<p>25,-- 27,-- 28,-- 35,-- 35,-- 40,-- 43,-- 43,-- 45,-- 50,-- 55,-- 60,-- 65,-- 72,-- 80,--</p>
 <p><b>Sleeve</b> ( designed to connect moulded parts )</p> <p>DN 100 DN 125 DN 150 DN 160 DN 200 DN 250 DN 315 DN 355</p>	<p>722 100 722 125 722 150 722 160 722 200 722 250 722 315 722 355</p>	<p>6,-- 7,-- 8,-- 8,-- 9,-- 10,-- 11,-- 12,--</p>
 <p><b>Closure cap for folded spiral conduit</b> (with rubber lip seals)</p> <p>DN 100 DN 125 DN 150 DN 160 DN 200 DN 250 DN 315 DN 355</p>	<p>723 100 723 125 723 150 723 160 723 200 723 250 723 315 723 355</p>	<p>8,-- 9,-- 10,-- 10,-- 12,-- 14,-- 16,-- 18,--</p>

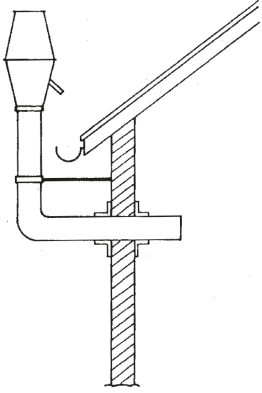
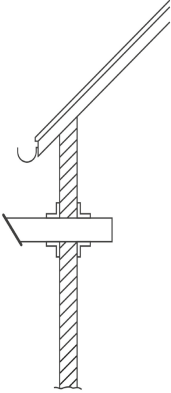
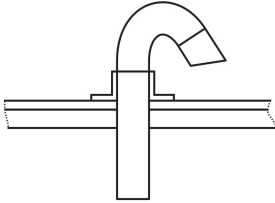
Item	Item no.	EUR																																								
 <p><b>Silencer</b> ( with rubber lip seals ) made of galvanised steel sheet, designed to reduce flow noise in folded spiral conduit. Circular silencer with 50 mm thick sound absorbing mineral fibre attenuation, drip guard perforated plate and tube connection socket, <b>Insulation approx. 14 dB (A)</b> at 250 Hz.</p> <table border="0"> <tr> <td>DN 150 / 250 mm</td> <td>600 mm long</td> <td>724 150</td> <td>145,--</td> </tr> <tr> <td></td> <td>900 mm long</td> <td>728 150</td> <td>170,--</td> </tr> <tr> <td>DN 160 / 250 mm</td> <td>600 mm long</td> <td>724 160</td> <td>150,--</td> </tr> <tr> <td></td> <td>900 mm long</td> <td>728 160</td> <td>175,--</td> </tr> <tr> <td>DN 200 / 300 mm</td> <td>600 mm long</td> <td>724 200</td> <td>180,--</td> </tr> <tr> <td></td> <td>900 mm long</td> <td>728 200</td> <td>210,--</td> </tr> <tr> <td>DN 250 / 350 mm</td> <td>600 mm long</td> <td>724 250</td> <td>235,--</td> </tr> <tr> <td></td> <td>900 mm long</td> <td>728 250</td> <td>270,--</td> </tr> <tr> <td>DN 315 / 415 mm</td> <td>600 mm long</td> <td>724 315</td> <td>270,--</td> </tr> <tr> <td></td> <td>900 mm long</td> <td>728 315</td> <td>315,--</td> </tr> </table>	DN 150 / 250 mm	600 mm long	724 150	145,--		900 mm long	728 150	170,--	DN 160 / 250 mm	600 mm long	724 160	150,--		900 mm long	728 160	175,--	DN 200 / 300 mm	600 mm long	724 200	180,--		900 mm long	728 200	210,--	DN 250 / 350 mm	600 mm long	724 250	235,--		900 mm long	728 250	270,--	DN 315 / 415 mm	600 mm long	724 315	270,--		900 mm long	728 315	315,--		
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 <p><b>Silencer</b> ( with rubber lip seals ) made of galvanised steel sheet, designed to reduce flow noise in folded spiral conduit. Circular silencer with 100mm thick sound absorbing mineral fibre attenuation, drip guard perforated plate and tube connection socket, <b>Insulation approx. 20 dB (A)</b> at 250 Hz.</p> <table border="0"> <tr> <td>DN 150 / 350 mm</td> <td>900 mm long</td> <td>778 150</td> <td>295,--</td> </tr> <tr> <td>DN 160 / 350 mm</td> <td>900 mm long</td> <td>778 160</td> <td>325,--</td> </tr> <tr> <td>DN 200 / 400 mm</td> <td>900 mm long</td> <td>778 200</td> <td>375,--</td> </tr> <tr> <td>DN 250 / 450 mm</td> <td>900 mm long</td> <td>778 250</td> <td>415,--</td> </tr> <tr> <td>DN 315 / 515 mm</td> <td>900 mm long</td> <td>778 315</td> <td>445,--</td> </tr> <tr> <td>DN 355 / 555 mm</td> <td>900 mm long</td> <td>778 355</td> <td>510,--</td> </tr> </table>	DN 150 / 350 mm	900 mm long	778 150	295,--	DN 160 / 350 mm	900 mm long	778 160	325,--	DN 200 / 400 mm	900 mm long	778 200	375,--	DN 250 / 450 mm	900 mm long	778 250	415,--	DN 315 / 515 mm	900 mm long	778 315	445,--	DN 355 / 555 mm	900 mm long	778 355	510,--																		
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 <p><b>Silencer mounting</b> ( 1 set = 2 units )</p> <table border="0"> <tr> <td>for DN 150 silencer</td> <td>737 150</td> <td>25,--</td> </tr> <tr> <td>for DN 160 silencer</td> <td>737 160</td> <td>25,--</td> </tr> <tr> <td>for DN 200 silencer</td> <td>737 200</td> <td>28,--</td> </tr> <tr> <td>for DN 250 silencer</td> <td>737 250</td> <td>30,--</td> </tr> <tr> <td>for DN 315 silencer</td> <td>737 315</td> <td>35,--</td> </tr> <tr> <td>for DN 355 silencer</td> <td>737 355</td> <td>38,--</td> </tr> </table>	for DN 150 silencer	737 150	25,--	for DN 160 silencer	737 160	25,--	for DN 200 silencer	737 200	28,--	for DN 250 silencer	737 250	30,--	for DN 315 silencer	737 315	35,--	for DN 355 silencer	737 355	38,--																								
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Item	Item no.	EUR
 <p><b>automatic closure flap</b> for conduits, complete with counterweight, rope ( 3.0 m ) and ring</p> <p>DN 100 DN 125 DN 150 DN 160</p>	<p>738 100 738 125 738 150 738 160</p>	<p>105,-- 115,-- 120,-- 125,--</p>
 <p><b>automatically closing flap to be installed inside a conduit</b></p> <p>DN 100 DN 125 DN 160 DN 200 DN 250</p>	<p>776 100 776 125 776 160 776 200 776 250</p>	<p>75,-- 85,-- 90,-- 100,-- 110,--</p>
 <p><b>Wall-mounted trim rosette for spiral folded conduit</b></p> <p>DN 150 DN 160 DN 200 DN 250 DN 315 DN 355</p>	<p>729 150 729 160 729 200 729 250 729 315 729 355</p>	<p>25,-- 25,-- 28,-- 30,-- 40,-- 45,--</p>
 <p><b>Venting adapter</b> with 45° bevel and protective grille</p> <p>DN 150 DN 160 DN 200 DN 250 DN 315 DN 355</p>	<p>725 150 725 160 725 200 725 250 725 315 725 355</p>	<p>62,-- 67,-- 75,-- 90,-- 115,-- 125,--</p>
 <p><b>Standard roof duct, galvanised, for hose</b></p> <p>DN 150 DN 160 DN 200 DN 250 DN 315 DN 355 ( please advise roof pitch )</p>	<p>730 150 730 160 730 200 730 250 730 315 730 355</p>	<p>125,-- 135,-- 145,-- 155,-- 170,-- 185,--</p>

Item	Item no.	EUR
 <p><b>Profile tin roof duct, galvanised</b> with covering ring for rain collar, for conduit DN 150 DN 160 DN 200 DN 250 DN 315 DN 355 ( please advise roof pitch )</p>	<p>731 150 731 160 731 200 731 250 731 315 731 355</p>	<p>165,-- 175,-- 185,-- 200,-- 210,-- 225,--</p>
 <p><b>Rain collar for roof duct</b> DN 200 for DN 160 roof duct DN 250 for DN 200 roof duct DN 315 for DN 250 roof duct DN 355 for DN 315 roof duct</p>	<p>732 160 732 200 732 250 732 315</p>	<p>55,-- 60,-- 70,-- 75,--</p>
 <p><b>Rubber sealing sleeve</b> for roof ducts, designed to seal for DN 150 roof duct for DN 160 roof duct for DN 200 roof duct for DN 250 roof duct for DN 315 roof duct</p>	<p>734 150 734 160 734 200 734 250 734 315</p>	<p>225,-- 235,-- 245,-- 255,-- 275,--</p>
 <p><b>Deflector hood, galvanised</b> DN 150 DN 160 DN 200 DN 250 DN 315 DN 355</p>	<p>726 150 726 160 726 200 726 250 726 315 726 355</p>	<p>185,-- 185,-- 200,-- 245,-- 290,-- 315,--</p>
 <p><b>Hand slider with fixing screw and seal</b> for installation in a conduit, wall or gate DN 100 DN 125 DN 150 DN 160 DN 200</p>	<p>747 100 747 125 747 150 747 160 747 200</p>	<p>45,-- 48,-- 52,-- 55,-- 60,--</p>


Item	Item no.	EUR
 <p><b>Threaded rod</b>, galvanised, length 1.0m  M 8  M 10  M 12  M 16</p>	734 008 734 010 734 012 734 016	3,-- 3,-- 4,-- 5,--
 <p><b>Threaded sleeve</b>, galvanised  M 8  M 10  M 12  M 16</p>	734 108 734 110 734 112 734 116	2,-- 3,-- 4,-- 5,--
 <p><b>Assembly accessories</b>  Trapezoidal sheet holder, all-purpose, galvanised, M 10  Z-holder, M 10, galvanised  L-holder, M 10, galvanised  Ceiling bracket, M 8  Ceiling bracket, M 10  Ceiling bracket, M 12  Sheet trapping screws ( 100 pieces )</p>	734 015 734 020 734 030 734 070 734 071 734 072 734 050	5,-- 4,-- 4,-- 6,-- 7,-- 7,-- 10,--
 <p><b>Adhesive tape</b>  to seal connections,  roll length 25 m, width 50 mm.</p>	736 000	18,--
 <p><b>Roof venting kit</b>  in detail consisting of:  90° bow ( 1 piece )  Sleeve ( 1 piece )  Spiral folded conduit, 2 m  Clamp ( 1 piece )  Roof duct ( 1 piece )  Deflector hood, ( 1 piece )  Small items ( 1 kit )  DN 160  DN 200  DN 250  DN 315  DN 355  ( please advise roof pitch )</p>	716 002 720 002 725 002 731 502 735 502	395,-- 450,-- 530,-- 605,-- 650,--

Item	Item no.	EUR
 <p><b>Wall-mounted venting kit with deflector hood</b>                      in detail consisting of:                      90° bow ( 1 piece )                      Sleeve ( 1 piece )                      Spiral folded conduit, 2 m                      Clamp ( 1 piece )                      Wall trim rosette ( 2 pieces )                      Deflector hood ( 1 piece )                      Small items ( 1 kit )</p> <p>DN 160                      DN 200                      DN 250                      DN 315                      DN 355</p>	<p>716 003                      720 003                      725 003                      731 503                      735 503</p>	<p>295,--                      335,--                      395,--                      450,--                      505,--</p>
 <p><b>Wall-mounted venting kit with venting adapter</b>                      in detail consisting of:                      90° bow ( 1 piece )                      Sleeve ( 1 piece )                      Spiral folded conduit, 1 m                      Wall trim rosette ( 2 pieces )                      Venting 45° adapter with grille ( 1 piece )                      Small items ( 1 kit )</p> <p>DN 160                      DN 200                      DN 250                      DN 315                      DN 355</p>	<p>716 004                      720 004                      725 004                      731 504                      735 504</p>	<p>155,--                      165,--                      180,--                      190,--                      210,--</p>
 <p><b>Roof venting kit – goose neck</b>                      in detail consisting of:                      135° bow (1 piece )                      Sleeve ( 2 pieces )                      Roof duct ( 1 piece )                      Venting adapter with grille ( 1 piece )                      Small items ( 1 kit )</p> <p>DN 160                      DN 200                      DN 250                      DN 315                      DN 355</p> <p>( please advise roof pitch )</p>	<p>716 005                      720 005                      725 005                      731 505                      735 505</p>	<p>270,--                      285,--                      325,--                      365,--                      410,--</p>


Item	Item no.	EUR
 <p><b>Underfloor systems for car and truck exhaust extraction still represent an efficient and accessible alternative. For example, in particular hall conditions, a crane rail can be fully operational. When necessary, exhaust tubes are inserted or connected using insertion bows.</b></p> <p><b>All-purpose floor closure</b>, cast, suitable for any type of car, with rotating top Insertion aperture 150 mm Ø. Dimensions: 240 x 240 mm.</p>	101 010	180,--
 <p><b>Hose storage, vertical</b>, galvanised for hose diameter DN 125 for hose diameter DN 150</p>	101 200 101 300	50,-- 55,--
 <p><b>Hose storage 45°</b>, cast aluminium for hose diameter DN 125 for hose diameter DN 150</p>	101 500 101 600	90,-- 95,--
 <p><b>Insertion bow, 90°</b>, galvanised, with seal for DN 75 hose connection for DN 100 hose connection for DN 125 hose connection</p>	373 900 374 000 374 100	90,-- 95,-- 99,--
 <p><b>Floor closure for trucks</b>, special cast, suitable for trucks and buses, with rotating top. Insertion aperture 190 x 265 mm. Dimensions: 335 x 260 mm.</p>	104 000	225,--
 <p><b>Hose storage, 45°</b>, galvanised, for hose diameter DN 200</p>	104 100	90,--
 <p><b>Shaft cover</b> from checkered plate, accessible, with sealing elements, galvanized, complete with installation pliers and ground anchors. Outer dimensions 600 x 600 mm, shaft 520 x 520 mm Outer dimensions 700 x 700 mm, shaft 600 x 600 mm Outer dimensions 900 x 900 mm, shaft 800 x 800 mm</p>	490 000 491 000 492 000	405,-- 430,-- 465,--
 <p><b>Cover grille</b> for suction port in the condensate-collecting shaft</p>	480 200	35,--

Item	Item no.	EUR												
 <p><b>Extraction arms for wall mounting, suitable for precisely-focused extraction of welding fumes, vapours and gases.</b>  <b>Being extremely free-moving, they remain cantilevered in any desired position.</b>  <b>Robust design for daily use.</b></p> <p><b>Extraction arm with interior hinges</b>                      the hose cover protects the hinges and the support frame from damage.                      Including plastic extraction hood with throttle, wall bracket and pivot.                      Swing radius <b>240°</b>, without fan.</p> <table border="0"> <tr> <td>Reach 2.0 m</td> <td>150 mm Ø</td> <td>462 050</td> <td>765,--</td> </tr> <tr> <td>Reach 3.0 m</td> <td>150 mm Ø</td> <td>463 050</td> <td>785,--</td> </tr> <tr> <td>Reach 4.0 m</td> <td>150 mm Ø</td> <td>464 050</td> <td>805,--</td> </tr> </table>	Reach 2.0 m	150 mm Ø	462 050	765,--	Reach 3.0 m	150 mm Ø	463 050	785,--	Reach 4.0 m	150 mm Ø	464 050	805,--		
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Reach 3.0 m	150 mm Ø	463 050	785,--											
Reach 4.0 m	150 mm Ø	464 050	805,--											
 <p><b>Extraction arm with exterior hinges</b>                      streamlined air duct without cross-section reduction by external linkage.                      Including plastic extraction hood with throttle, wall bracket and pivot.                      Swing radius <b>240°</b>, without fan.</p> <table border="0"> <tr> <td>Reach 2.0 m</td> <td>150 mm Ø</td> <td>472 050</td> <td>895,--</td> </tr> <tr> <td>Reach 3.0 m</td> <td>150 mm Ø</td> <td>473 050</td> <td>945,--</td> </tr> <tr> <td>Reach 4.0 m</td> <td>150 mm Ø</td> <td>474 050</td> <td>995,--</td> </tr> </table>	Reach 2.0 m	150 mm Ø	472 050	895,--	Reach 3.0 m	150 mm Ø	473 050	945,--	Reach 4.0 m	150 mm Ø	474 050	995,--		
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Reach 4.0 m	150 mm Ø	474 050	995,--											
 <p><b>Extraction arm for greater distances with exterior hinges</b>                      with swivel arm and 360° rotating hinge.                      Streamlined air duct without cross-section reduction by external linkage. Including suction hood, swing radius <b>240°</b>, without fan.</p> <table border="0"> <tr> <td>Reach 6.0 m</td> <td>150 mm Ø</td> <td>476 050</td> <td>2.090,--</td> </tr> <tr> <td>Reach 7.0 m</td> <td>150 mm Ø</td> <td>477 050</td> <td>2.145,--</td> </tr> <tr> <td>Reach 8.0 m</td> <td>150 mm Ø</td> <td>478 050</td> <td>2.250,--</td> </tr> </table>	Reach 6.0 m	150 mm Ø	476 050	2.090,--	Reach 7.0 m	150 mm Ø	477 050	2.145,--	Reach 8.0 m	150 mm Ø	478 050	2.250,--		
Reach 6.0 m	150 mm Ø	476 050	2.090,--											
Reach 7.0 m	150 mm Ø	477 050	2.145,--											
Reach 8.0 m	150 mm Ø	478 050	2.250,--											
 <p><b>Installation rail with clamping jaws</b>                      Assembly element, galvanised version, designed to fasten extraction arms and swing arms on steel supports, complete with two clamping jaws, M 10 slots and two end caps as well as accessories.</p> <table border="0"> <tr> <td>Length of mounting rails</td> <td>400 mm</td> <td>440 016</td> <td>65,--</td> </tr> <tr> <td>Length of mounting rails</td> <td>600 mm</td> <td>440 017</td> <td>75,--</td> </tr> <tr> <td>Length of mounting rails</td> <td>1.000 mm</td> <td>440 018</td> <td>85,--</td> </tr> </table>	Length of mounting rails	400 mm	440 016	65,--	Length of mounting rails	600 mm	440 017	75,--	Length of mounting rails	1.000 mm	440 018	85,--		
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Item	Item no.	EUR
 <p><b>Exhaust extraction fan – Type SVD 10</b>            Extraction capacity max. 1.620 m³/h            Pressure 1.400 Pa            Voltage 400 V, 50 Hz            Motor power 0.75 kW            Current consumption 2.05 A            Intake adapter 160 mm Ø            Pressure adapter 160 mm Ø            Weight without ventilator foot 22 kg</p>	120 010	1.120,--
 <p><b>Motor circuit breaker on / off with casing for SVD 10 fan – Type MS 02</b></p>	117 002	90,--
 <p><b>Wall mount for fan</b>            including intake adapter ( but without ring tensioner )            NW 150 / 160 for fan, Type SVD 10</p>	116 003	165,--
 <p><b>Connection for further conduit system</b>            Tension ring with neoprene insert DN 150 / 160            Connection adapter DN 150            Connection adapter DN 160</p>	370 160 375 150 375 160	38,-- 18,-- 18,--
 <p><b>Wall-mounted trim rosette for spiral folded conduit</b>            DN 150            DN 160            DN 200            DN 250            DN 315</p>	729 150 729 160 729 200 729 250 779 315	25,-- 25,-- 28,-- 30,-- 40,--
 <p><b>Venting adapter</b>            with 45° bevel and protective grille            DN 150            DN 160            DN 200            DN 250            DN 315</p>	725 150 725 160 725 200 725 250 725 315	62,-- 67,-- 75,-- 90,-- 115,--

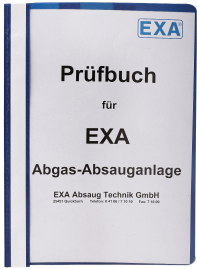
Item	Item no.	EUR														
 <p><b>Mobile mechanical filter unit, Type MFA for extraction and filtering of smoke generated by thermal joining and cutting of metals.</b></p> <p>The system meets the safety requirements for devices categorised in welding fume class W 3 ( alloyed steels with alloy components with &gt; 30% of Nickel-based alloy ).</p> <p>The device can be used in recirculation mode and complies with TRGS 560 regulations.</p> <p>The filter device is equipped with a hose extraction arm with interior hinges.</p> <p>The extraction arm with a suction hood and an integrated throttle valve can be swivelled in any direction and freely cantilevered and adjusted.</p> <p>The stable steel plate structure with universal powder coating guarantees maintenance-free operation even under tough conditions.</p> <p>The device features one preliminary and one main filter, which can be easily and quickly exchanged via a maintenance flap.</p> <p>The filtration efficiency exceeds 99%.</p> <p>The device features a powerful fan and a high negative pressure, which, even when the filter is saturated, still guarantees a high volume flow.</p> <p>An automatic filter monitoring, and acoustic warning signal indicates when the filter must be changed.</p> <p><b>The device is supplied ready for operation with a 5,0 m mains lead.</b></p> <table border="0"> <tr> <td>Fan capacity:</td> <td>2.500 m³/h</td> </tr> <tr> <td>Pressure</td> <td>2.500 Pa</td> </tr> <tr> <td>Motor power</td> <td>1.1 kW</td> </tr> <tr> <td>Voltage</td> <td>230 V, 50 Hz</td> </tr> <tr> <td>Current consumption</td> <td>7.0 A</td> </tr> <tr> <td>Noise:</td> <td>70 dB (A)</td> </tr> <tr> <td>Dimensions (WxDxH):</td> <td>665 x 680 x 995 mm</td> </tr> </table> <p><b>Reach: 3.0 m      DN 150</b></p> <p><b>Reach: 4.0 m      DN 150</b></p>	Fan capacity:	2.500 m³/h	Pressure	2.500 Pa	Motor power	1.1 kW	Voltage	230 V, 50 Hz	Current consumption	7.0 A	Noise:	70 dB (A)	Dimensions (WxDxH):	665 x 680 x 995 mm	<p>803 001</p> <p>804 001</p>	<p>2.750,--</p> <p>2.795,--</p>
Fan capacity:	2.500 m³/h															
Pressure	2.500 Pa															
Motor power	1.1 kW															
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Current consumption	7.0 A															
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Dimensions (WxDxH):	665 x 680 x 995 mm															
<p><b>Replacement pre-filter mats ( 1 kit = 10 elements )</b></p> <p><b>Replacement particle filter</b></p> <p><b>Lighting kit</b></p>	<p>800 012</p> <p>800 014</p> <p>800 016</p>	<p>155,--</p> <p>385,--</p> <p>375,--</p>														



Item	Item no.	EUR
 <p><b>Mobile cartridge filter system, Type PFA, for extraction and filtering of smoke generated by thermal joining and cutting of metals.</b></p> <p>The system meets the safety requirements for devices categorised in welding fume class W 3 ( alloyed steels with alloy components with &gt; 30% of Nickel-based alloy ).</p> <p>The device can be used in recirculation mode and complies with TRGS 560 regulations.</p> <p>The filter device is equipped with a hose extraction arm with interior hinges.</p> <p>The extraction arm with a suction hood and an integrated throttle valve can be swivelled in any direction and freely cantilevered and adjusted.</p> <p>The stable steel plate structure with universal powder coating guarantees maintenance-free operation even under tough conditions.</p> <p>The pre-filtration stage requires a baffle plate to filter out the coarse particles. A large, easy to clean star-shaped filter cartridge, dust class BIA KAT.M, separates the remaining fumes and dusts (at a filtration efficiency exceeding 99% ).</p> <p><b>The filters are cleaned through a maintenance flap by means of a pneumatic gun on the clean air side.</b></p> <p>The device features a powerful fan and a high negative pressure, which, even when the filter is saturated, still guarantees a high volume flow.</p> <p>An automatic filter monitoring, and acoustic warning signal indicates when the filter must be changed.</p> <p><b>The device is supplied ready for operation with a 5m mains lead.</b></p> <p>Fan capacity: 3.000 m<sup>3</sup>/h            Pressure 2.400 Pa            Motor power 1.1 kW            Voltage 400 V, 50 Hz            Current consumption 2.5 A            Noise: 75 dB (A)            Dimensions (WxDxH): 665 x 820 x 1.365 mm</p> <p><b>Reach: 3.0 m      DN 150</b>  <b>Reach: 4.0 m      DN 150</b></p>	<p>803 003</p> <p>804 003</p>	<p>3.985,--</p> <p>4.110,--</p>
<p><b>Lighting kit</b></p> <p><b>Active carbon</b></p> <p><b>Replacement star-shaped filter cartridge</b></p> <p><b>Replacement plastic bags ( 1 kit = 10 elements )</b></p>	<p>800 016</p> <p>800 018</p> <p>800 019</p> <p>800 020</p>	<p>375,--</p> <p>1.450,--</p> <p>555,--</p> <p>115,--</p>

Item	Item no.	EUR
<p><b>Clip-on filters, Types P 75 and L 75, are suitable for short trips through closed halls, workshops, loading and discharging areas and exhibition halls and allow a flexible driving.</b></p> <p>Clip-on filter is activated immediately upon starting the vehicle and collects cancerous and hazardous substances. The particle collection efficiency is approximately 99% of all particles larger than 0.12 µ. By using a clip-on filter, the TRGS 554 provisions are fully complied with.</p> <p>The filter cartridge is easy and quick to exchange. The change is always necessary when the membrane integrated in the built-in diaphragm valve bursts through the exhaust back pressure. The filter cartridge is to be disposed of with normal household waste ( Landfill Category II ).</p> <p>The operating time of the filter cartridge depends on the motor capacity, type and its operational conditions. On average, its servicing time is approx. 100 – 150 starts. The exhaust temperature should never exceed 200°C.</p> <p><b>Exhaust filter for cars and vans, Type P 75</b></p> <ul style="list-style-type: none"> <li>– up to 4 litres capacity</li> <li>– revs up to approx. 2.500 / min.</li> <li>– weight approx. 1.5 kg</li> </ul>  <ul style="list-style-type: none"> <li>• with round exhaust funnel, Type 3020 ( 40 – 70 mm )</li> <li>• with round exhaust funnel, Type 3030 ( 60 – 90 mm )</li> <li>• with round exhaust funnel, Type 3076 ( 70 – 150 mm )</li> <li>• featuring an oval, pneumatic exhaust nozzle for bumper-integrated exhaust aperture, Type 3860 ( 60 – 120 mm )</li> <li>• featuring an oval, pneumatic exhaust nozzle for bumper-integrated exhaust aperture, Type 3880 ( 50 – 160 mm )</li> <li>• Replacement filter cartridge, Type P 75</li> </ul>	<p>175 200</p> <p>175 225</p> <p>175 250</p> <p>175 300</p> <p>175 325</p> <p>175 400</p>	<p>270,--</p> <p>295,--</p> <p>230,--</p> <p>510,--</p> <p>525,--</p> <p>85,--</p>
<p><b>Exhaust filter for trucks, Type L 75</b></p> <ul style="list-style-type: none"> <li>– up to 14 litres capacity</li> <li>– revs up to approx. 1.200 / min.</li> <li>– weight approx. 7.0 kg</li> </ul>  <ul style="list-style-type: none"> <li>• with DN 65 support tube</li> <li>• with DN 80 support tube</li> <li>• with DN 100 support tube</li> <li>• with 1.5 m exhaust hose, exhaust extraction funnel and suspension to keep fixed on the vehicle.</li> <li>• Replacement filter cartridge, Type L 75</li> </ul>	<p>175 500</p> <p>175 525</p> <p>175 550</p> <p>175 600</p> <p>175 800</p>	<p>945,--</p> <p>965,--</p> <p>985,--</p> <p>1.235,--</p> <p>175,--</p>

Item	Item no.	EUR
 <p><b>Paint mist extraction system for Smart-Repair</b></p> <p>The paint mist extraction system is a robust and powerful device, which is mainly used for point-like suction of dust, gases and paint mist arising with spot or partial painting. The device works with active carbon and glass fibre mats, which, when required, can be quickly and easily replaced.</p> <p><b>Characteristics</b></p> <ul style="list-style-type: none"> <li>• powerful device designed for point-like suction</li> <li>• safe with dust, gases and paint mist</li> <li>• tube joint rotatable through 360°</li> <li>• can be mounted directly on the object</li> <li>• mobile and flexible</li> <li>• easy to operate</li> <li>• robust casing with centrally mounted</li> </ul> <p><b>Controls:</b></p> <ul style="list-style-type: none"> <li>• Swivel castor with brakes</li> <li>• Filter chamber easily accessible for filter change</li> <li>• Suction hose, flexible, made from resistant fabric, DN 100, hose length 5.0 m</li> </ul> <p><b>Technical specification</b></p> <ul style="list-style-type: none"> <li>• Dimensions (WxDxH): <ul style="list-style-type: none"> <li>– without hose 68.0 cm x 6.5 cm x 68.0 cm</li> <li>– with hose 68.0 cm x 36.5 cm x 81.5 cm</li> </ul> </li> <li>• Hose length incl. funnel: 5.800 mm</li> <li>• Extraction capacity: 635 m³/h</li> <li>• Under pressure: approx. 3.000 Pa</li> <li>• Voltage 230 V, 50 Hz</li> </ul>	980 400	2.595,--
 <p><b>Tripod</b></p> <p>height-adjusting option up to 1.200 mm, for exhaust hose with funnel.</p>	980 475	275,--
 <p><b>Extraction arm</b></p> <p>DN 100, total length 1.185 mm, with 3 hinges and a large exhaust hood, Ø 500 mm.</p>	980 450	995,--
<p><b>Consumable items: Replacement filter kit</b></p> <p>consisting of 2 glass fibre mats and 1 active carbon mat.</p>	980 485	235,--

Item	Item no.	EUR
<p>According to BetrSichV §§ 3, 10 and 11 and the TRGS 554 - § 4.2.5 and attachment 4,5 and 7. Regulations of the BGR 121, paragraph 3.7. Gas-extraction are subject to a particular testing obligation. This stipulates that safety devices, such as suction devices, shall be serviced at regular intervals and tested for their ability to function.</p> <p>The test shall be performed prior to the first start, and thereafter at appropriate intervals, at least once a year. They must be carried out by an expert and include the analysis of the extracted air.</p> <p>The measuring results shall be documented in writing in the test log.</p>		
 <p>Testing costs for a single spot extraction</p> <p>Testing costs for a central above- or underfloor extraction system to a maximum of 5 points</p> <p>Testing costs for a central above- or underfloor extraction system to a maximum of 8 points</p> <p>Testing costs for any further extraction point</p> <p>Test book ( one-off ) incl. test sticker</p>	<p>102 001</p> <p>102 002</p> <p>102 003</p> <p>102 004</p> <p>102 010</p>	<p>50,--</p> <p>95,--</p> <p>125,--</p> <p>10,--</p> <p>15,--</p>
<p><b>Transportation package</b></p> <p>Zone I up to 50 km</p> <p>Zone II 50 to 100 km</p> <p>Zone III 100 to 150 km</p> <p>Zone IV 150 to 200 km</p> <p>Zone V beyond 200 km</p>	<p>102 020</p> <p>102 021</p> <p>102 022</p> <p>102 023</p> <p>102 024</p>	<p>50,--</p> <p>80,--</p> <p>125,--</p> <p>175,--</p> <p>on request</p>
<p><b>Framework flat-rate package</b></p> <p><b>Rental costs for an electric scissor lift</b> – are calculated based on actual performance.</p> <p><b>Packages for creating the core drilling holes in walls and ceilings</b> – are calculated based on actual performance.</p>	<p>102 030</p> <p>102 031</p> <p>102 032</p>	<p>250,--</p> <p>on request</p> <p>on request</p>

## 1.) Accident Prevention Regulations VBG 1

In compliance with the Accident Prevention Regulations VBG 1 §45 section 2, gases, vapours, fog or dust dangerous to health must be suctioned away at the point they are generated or at the point of escape in a non-dangerous manner.

## 2.) Max. values for carbon monoxide

The statutory max. limits ( MAK values ) for carbon monoxide is currently 30 ml/m<sup>3</sup> ( ppm ) or 33 mg/m<sup>3</sup> according to the technical regulations for hazardous substances (TRGS 900).

## 3.) Max values for diesel soot particles

The statutory max. limits ( TRK value ) for diesel soot particles ( DME ) is 0.1 mg/m<sup>3</sup> according to the technical rules for hazardous substances

## 4.) Excerpts from the regulations concerning hazardous substances.

### BGR 157 section 471 states:

Working places must be equipped in such a manner that the air to be breathed in by those insured is kept free from gases, vapours, dust and smoke which are inflammable and detrimental to the insured persons' health.

- 1. Suctioning off at the point of generation
  - 2. Technical ventilation
  - 3. Natural ventilation
  - 4. Or a combination of the above
- ( also refer to TRGS 900, TRGS 554 + ZH 1/401 )

### BGR 157 section 4.8 states

**4.8. Ventilation for inspection pits and under floor systems**  
**1.)** Inspection pits and under floor systems where dangerous volumes of inflammable gases, vapours, dust or smoke can occur, and where there is insufficient natural ventilation by virtue of their construction, must be equipped with technical ventilation equipment which prevents the occurrence of these gases, vapours, dust and smoke in dangerous quantities.

**2.)** Natural ventilation suffices for inspection pits which are not covered if the ratio of the length of the working opening to its depth is at least 3:1 and their depth is no more than approx. 1.60 metres; when the depth of the pit is measured, any floor grids shall not be taken into consideration

### 3.) Re. 4.8.4

This does not apply if the exhaust fumes are removed from the workplace effectively by technical equipment, e.g. exhaust gas suction equipment moved to the workplace.

## 4.) Excerpts from the safety regulations for vehicle maintenance.

### ZH 1 / 98 states the following:

Exhaust fumes from internal combustion engines must be extracted in a safe way. This applies especially to running engines of vehicles which are at a standstill, e.g.

- when performing maintenance work on the carburettor, ignition, fuel injection systems and compressed air systems
- Exhaust emission checks

### Excerpt from TRGS 554 ( Diesel engine emissions )

The latest version of this technical directive for diesel engines demands special protective measures at the workplace.

## 4.2.5 Exhaust gas suction systems

Exhaust gas suction systems must use negative pressure systems and be designed in such a way that they collect all the fumes and transport them away so that they do not reach the working areas.

## 4.7.3 Loading ramps

At loading ramps / loading areas which are completely or partially enclosed, diesel engine emissions from the delivering vehicles must be removed using exhaust gas suction systems unless the diesel engines are equipped with diesel particle filters.

## 4.7.4 Workshops

### 4.7.4.1 Repair areas

As a protective measure, the law demands that the vehicles to be repaired must be assigned to individual workplaces so that shunting about of vehicles is avoided as much as possible. The compressed air system of the vehicle must be filled using the local compressed air network if it does not show sufficient operating pressure. When the engine is running, e.g. during inspection and settings, the inspection stands may only be used if an exhaust gas suction system is used.

### 4.7.4.2 Maintenance areas

Maintenance areas must be equipped with technical ventilation systems which have additional suction openings in the immediate vicinity of the openings where the fumes emerge from usually. These additional suction openings are not necessary if it can be guaranteed that all exhaust fumes from all vehicles passing through the maintenance area (trucks, busses, ground level transportation vehicles, machines and equipment) are collected by mobile exhaust gas suction systems which accompany the vehicles on their drive from the workplace to the exit of the building. The exception to this rule are workplaces used to wash the vehicles if these areas are completely separate from other work areas (e.g. interior cleaning of the vehicles and filling up with petrol).

If work has to be performed on the vehicles in the maintenance area whilst their engines are running, an exhaust gas suction system must be used.

When using roller performance and roller braking test stands in completely or partially enclosed areas, the diesel engine exhaust fumes must be extracted from the workplace as described above using an exhaust gas suction system. (Mobile systems)

## 4.7.5 Waiting areas

Waiting areas which are completely or partially enclosed and which have a utilization area of more than 100 cubic metre and in which diesel vehicles are to be parked, must be equipped with technical ventilation systems. Technical ventilation equipment is not necessary if all vehicles with compressed air brake systems in the parking area, even if they have only been parked there for a very brief period, are connected to the central compressed air system for the brake systems.

### 5.) Excerpt from the GUV (Gesetzliche Unfallversicherung = Statutory Accident Insurance Act) 0.1 General § 2.1 / § 45 ( 2 )

To prevent the occurrence of accidents at work, the owner/ operator must take measures and provide equipment which comply with the stipulations of these accident prevention regulations and any accident prevention regulations applicable to him and also with any other generally accepted safety and medical regulations.

**Re. § 2.1** – Operator/owners in the terms of this directive also include the Federation, Federal States, Communities and group of Communities which are either a member of an accident insurance agency or are in fact themselves an agency.

**Re. § 45(2)** – In the case of work where it is impossible to avoid the creation of gases, vapours, fog or dust which is hazardous to the health, these must be ...,extracted at the point of creation or the point of emergence in a safe way.

### 6.) Excerpt from GUV 7.13 Fire brigades

Fuel driven aggregates must be designed and equipped in such a way that the members of the fire brigade are not endangered in any way when the aggregates are started up.

#### Re. § 7

Danger is avoided if exhaust gas hoses can be attached to aggregates with combustion engines.

#### Re. § 20

Internal combustion engines must be operated in such a way that members of the fire brigade are not endangered by exhaust gases.

### 7.) Specifying the size of exhaust gas suction systems when installing a new systems and starting it up.

The volume of exhaust gas generated depends on the vehicle being tested. The most important factors are working volume and speed of the engine as well as the combustion process (self-ignition or spark ignition). When specifying the size of the exhaust gas suction systems, the collection element together with the exhaust system of the vehicle has a central role to play.

### Formula to determine the size of the exhaust gas suction systems

( also refer to TRGS 554 – section 4.7.4.3 paragraph 2 )

$$V = V_h \cdot n \cdot 0,0363 \cdot 1,2$$

**V** = required extraction volume flow ( m<sup>3</sup>/h )

**V<sub>h</sub>** = cubic capacity of the engine of the vehicle to be tested (L)

**n** = speed of the vehicle to be tested (rpm)

**0.0363** = approximation value

**1.2** = proportion of fresh air of 20%

Values of experience following the BG-BIA / ASA – recommendations

car workshop service / repairs	car workshop inspection + exhaust emission check
350 - 450 m <sup>3</sup> /h	600 - 1.200 m <sup>3</sup> /h
utility vehicle workshop service/ repairs	utility vehicle workshop + exhaust emission check
700 - 1.200 m <sup>3</sup> /h	1.500 - 2.800 m <sup>3</sup> /h

**Vehicles with accessory drive and special machines require a system of the appropriate size. Please make sure that the temperature resistance of the system is adequate. The respective exhaust gas suction systems must be designed to suit the requirements of the owner / operator.**

### 9.) Extraction of the exhaust gases through the roof into the open air without causing a nuisance

The exhaust gases must be extracted through the roof into the open air without causing a nuisance. The local situation e.g. neighbourhood and possible complaints concerning odours must be taken into consideration.

( Please also refer to TA-Luft = Technische Anweisungen Luft = Technical Directives Air )

### 10.) Noise development of exhaust gas suction systems

Due to the relative high level of noise in car workshops, the noise from the exhaust gas suction system should not increase the overall noise level. ( Please also refer to Workplace Directive §....) The following noise levels may not be exceeded outside depending on how close the neighbouring houses are and the definition of the area.

( Excerpt TA Lärm = technical instructions regarding noise )

- Industrial estate	70 / 70 dB (A) day / night
- Enterprise zone	65 / 50 dB (A) day / night
- Mixed or village area	65 / 45 dB (A) day / night
- General residential area	55 / 40 dB (A) day / night
- Pure residential area	55 / 40 dB (A) day / night

### 11.) Recommendation

We recommend that exhaust gas suction systems are not combined with welding smoke suction systems and that they are not connected to one ventilator as an inflammable or explosive mixture may be created following the BGR 157 - 4.8.3 vehicle maintenance.

### 12.) Duty of inspection for suction systems

According to BetrSichV §§ 3, 10 and 11 and the TRGS 554 - § 4.2.5 and attachment 4,5 and 7.Regulations of the BGR 121, paragraph 3.7. Gas-extraction are subject to a particular testing obligation. This stipulates that safety devices, such as suction devices, shall be serviced at regular intervals and tested for their ability to function. This inspection must take place before the system is started up for the first time and then at regular intervals, however, at least once a year. The inspection must be performed by a qualified specialist and also include a test determining the amount of air extracted at the point of extraction. Written records must be kept concerning the inspections. (Inspection record) – please also refer to ZH 1/140 section. 6.

**I. General**

All orders shall only be accepted and executed based on the following conditions. Any opposing terms stipulated by the buyer are invalid and need no objection from the seller. During an ongoing business relationship, these conditions shall also be considered part of the contract unless expressly referred to by the individual contract. The possible invalidity of individual provisions of these terms and conditions has no influence on the rest. Any verbal agreements or changes to these terms shall only be valid under a written agreement.

**II. Purchasing process****1. Offers**

All offers with respect to price, quantity, delivery period and availability are subject to change. Brochures, illustrations, drawings, measurements and weights are not binding.

**2. Prices**

The prices are ex-works and excluding the applicable VAT. They do not include packaging, transportation, installation or any other costs. The delivery occurs at the prices and conditions valid on the day of shipment.

**3. Shipment**

Even with free delivery, the shipment occurs at the risk of the receiver; dispatch and delivery are selected by the shipment company. Purpose-appropriate packaging is provided by the seller with due care, but without assuming any liability. The risk of the goods sold passes to the buyer once the seller has delivered the goods to the shipper, carrier-manager or any person or institution otherwise assigned to execute the dispatch, at the latest from leaving the factory or warehouse, which even applies when special instructions are provided by the buyer.

**4. Delivery volume**

For all orders, the seller is entitled to perform and charge partial deliveries that must be paid respectively after the expiration of each invoice.

**5. Delivery period**

Delivery periods are defined by the seller at its discretion, and set so that they can be met in all probability. Should any delays occur in delivery, the seller recognises no claims for damages or withdrawal from the purchase.

**6. Retention of title**

The seller retains title to all goods delivered by him and any new goods resulting from the processing, combining or mixing of these goods until all claims against the buyer, including the current account balance, the interests and costs in any litigation, are met. Should the seller in the case of default or the risk of property claim enforce his reservation of title, this shall not constitute a rescission of contract. The buyer is obliged to inform the seller of any seizure or other impairment of the conditional ownership immediately in writing etc. and to inform the pledger about the subject retention of title. Any disposal of goods delivered outside of normal business activities, e.g., by pledging, security transfer or lending is prohibited to the buyer. In the event of default by the buyer, the seller has the right to enter the premises or places where the items delivered are located and take over these without any enforceable title, even if they are fixed to the building or space. Removal costs or damage to the floor shall be borne by the buyer.

**7. Liability for defects and damages**

The buyer shall check the delivered goods immediately upon receipt and report any shortcomings and omissions in writing within eight days. The defects reported within the deadline can only be considered once the buyer can prove that the defect is not due to incorrect installation, improper commissioning, disorderly operation or handling of the goods. A warranty on applicability of the goods for the intended purpose cannot be accepted. Any advice on technical application, operating instructions and the like are not binding and do not exempt the buyer from examining the product for its suitability for intended purposes and procedures. If an on-site preparation is required for some machines, equipment or other facilities, such as creating concrete foundation, this always occurs at the buyer's expenses. Should any masonry work be necessary, this shall be arranged by the buyer even when the seller accepts the mounting or contracts a third party. A return of goods may only take place if the seller has agreed the return of goods in writing. If a return occurs without seller's consent, the goods in question shall be stored at the expense and risk of the buyer. The seller assumes no responsibility or liability for accidents with persons involved, damage or operating malfunctions or defects, which arise in connection with the delivered goods. In any case, the seller is only liable for the damages under its own warranty claims against the respective supplier. At the request of the buyer, the seller cedes him his own warranty claims.

**III. Payment terms**

1. Payment is due 30 days following the date of invoice. In the case of cash payment within 8 days after the invoice date, a 2% discount is granted on the prices of commodities, if all the seller's previous claims towards the buyer are met. A date no later than the date of shipment applies as the invoice date. Any invoices concerning assembly, repair and maintenance or spare parts are payable immediately and without deduction. No discount is granted for invoices to retailers for amounts under €100.
2. Under all circumstances, the seller reserves the collection of its own or other acceptances. Any bills of exchange or cheques can only be accepted as payment if any additional costs are borne by the buyer. No discount is granted for payments with bills of exchange. Should a bill of exchange or cheque given by the seller become object of a protest, all still outstanding payments are due immediately. Additional bills of exchange or checks with later maturities shall be paid by the buyer immediately and in cash. Once the payment is due, the buyer shall pay the default interests in the amount 8% above the current state central bank discount rate.
3. No withholding or offsetting by the buyer due to any counter claims is permitted.
4. The seller remains at any time entitled to cancel a lending – also within the terms of payment in accordance with the terms of payment presented. The seller is also entitled to demand a sufficient security at any time, without notice or justification. Without such a security, the payment is due immediately.
5. Should the seller provide any inputs in the form of cash payment, etc., no interests shall be charged.

**IV. Fulfilment and jurisdiction**

The place of legal representation and jurisdiction for both parties is Pinneberg / Germany.



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## EXA® - Your specialist in exhaust extraction systems

EXA® systems, a concept for practical solutions. EXA has been developing and manufacturing products and systems for better workplace protection for more than three decades.

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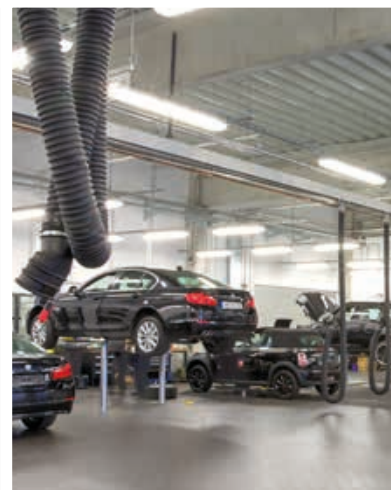
Our systems and components offer solid quality and are field-tested.

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Our focus is on professional exhaust extraction at **workplaces and garages for motorcars, motorbikes, utility and agricultural vehicles**, as well as for **fire stations and municipal facilities**.

EXA® systems for professional exhaust extraction in garages:

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- Composite systems
- Compact systems
- Exhaust extraction rail channels
- Hose reels
- Fans
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