



CONCENTRIC FLUE SYSTEMS

Concentric flue systems for DRU balanced flue gas fireplaces



DRU GAS FIREPLACES

DRU Verwarming B.V. is the largest manufacturer of balanced flue gas fireplaces in Europe, and also produces wood-burning appliances. With a particularly wide range of balanced flue appliances, DRU offers the perfect fit for every living situation.

Installation

Every decorative gas fireplace by DRU featuring balanced flue combustion has its own specific concentric flue system. DRU measures and tests the combination of gas fireplace and concentric flue system together according to strict guidelines. Afterward, the combined system undergoes external testing to obtain the CE marking.

For this reason, and in compliance with legal regulations, DRU gas appliances with balanced flue combustion must be operated exclusively with tested DRU flue materials. Only in this way can proper installation and, above all, safe operation according to DRU installation instructions be guaranteed.

Therefore, DRU supplies a comprehensive range of concentric flue gas materials, which can be divided into the following categories:

- DRU LAS ES-I 150/100 For appliances with a Ø150/100 fitting
- DRU LAS ES-I 200/130 For appliances with a Ø200/130 fitting
- DRU PV-I 100/60
- For longer flue gas paths, supported by a PowerVent-02[®] fan • DRU LAS ES-E 200/150/100 For installation: - Along the outer wall
 - Through combustible building materials
 - Very well suited to well-insulated residences (duct through the wall, ceiling, or roof)

Brochure

For a detailed explanation and overview of available concentric flue systems, we have compiled this brochure for you, with the following important focus areas:

- Available product range, including illustrations, item numbers, and descriptions
- Installation examples, for a comprehensible presentation of installation options
- Working lengths in the item overviews and the installation examples, to provide support in your work preparation, planning, and installation

We are confident that this brochure will help you prepare for and install a DRU gas fireplace. For further information, please visit our website at www.druservice.co.uk or www.druservice.com



Changes and errors excepted. Any exploitation of the information contained here is prohibited without the written approval of DRU Verwarming B.V. The drawings are intended to illustrate potential flue pipe routing. They must not be regarded as a construction manual. The generally applicable building or installation regulations must be adhered to.

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SYSTEM PROPERTIES

General

Balanced flue heating appliances for gaseous fuels are tested in accordance with DIN EN 613, in conjunction with the corresponding concentric flue system (LAS).

DRU balanced flue gas fireplace inserts are category C gas appliances.

They correspond to appliance classification C_{11} , C_{31} or C_{91} according to the European legitation:

- C11 Gas fireplaces with horizontal combustion-air supply and flue gas discharge through the outer wall
- C31 Gas fireplaces with combustion-air supply and flue gas discharge vertically through the roof
- C91 Gas fireplaces with combustion-air supply and flue gas discharge vertically through the roof via an existing chimney.

These are gas appliances with a corresponding concentric flue system and without an integrated fan, which discharge the combustion air to the open air outdoors via a balanced flue LAS system.

The pipes are connected together with a sleeve/ ribbing push-fit connection. The connection is sealed with a silicone seal. The silicone seal can be used without any problems because the temperature of the supply air does not exceed 180°C, even at flue gas temperatures of 450°C (maximum flue gas temperature of the appliance).

DRU supplies 4 different LAS systems:

| For appliances with a |
|------------------------|
| Ø150/100 fitting |
| For appliances with a |
| Ø200/130 fitting |
| For longer flue gas |
| paths, supported by a |
| PowerVent-02® fan |
| For installation: |
| - Along the outer wall |
| - Through combustible |
| building materials |
| - Very well suited |
| to well-insulated |
| residences (duct |
| through the wall, |
| ceiling, or roof) |
| |

DRU LAS ES-I 150/100

| Concentric LAS system made of stainless steel (SST) | | | | |
|---|---------------|-----------------------|--|--|
| for appliances with a Ø150/100 fitting. | | | | |
| Material: | SST 304 (som | ie items | | |
| | made of both | SST 304 and | | |
| | galvanised sh | ieet metal) | | |
| Surface finish: | High-gloss | | | |
| Wall thickness: | 0.40mm | | | |
| Diameter: | Outer: | Ø150mm | | |
| | Inner: | Ø100mm | | |
| Connection: | Sleeve/ribbin | g push-fit connection | | |
| | with upper si | licone sealing ring | | |
| | and locking b | and | | |
| | Both compon | ents are included | | |
| | with the stan | dard delivery package | | |
| | of each eleme | ent | | |
| Temperature class: | T600 (flue ga | ses up to 600°C | | |
| | permitted). | | | |
| Norm: | EN-1856-1 | | | |
| Designation: | T600 N1 DVm | L20040 050 | | |

DRU LAS PV-I 100/60

Concentric LAS system made of galvanised sheet metal (outer pipe) and aluminium (inner pipe) for a wide range of appliances. Please see the installation instructions for the PowerVent-02[®].

This system is tested together with the respective appliances and bears a CE marking. Therefore, it does not have its own separate CE marking.

| Material: | Alumini | um and galvanised sheet |
|--------------------|-----------|----------------------------|
| | metal | |
| Surface finish: | galvanis | ed |
| Wall thickness and | diameter | : |
| | Outer: | galvanised sheet metal |
| | | Ø100mm, wall thickness |
| | | 0.5mm |
| | Inner: | Aluminium Ø60mm. Wall |
| | | thickness 1.50mm |
| Connection: | Sleeve/r | ibbing push-fit connection |
| | with upp | er silicone sealing ring |
| | and lock | king band |
| | Both co | mponents are included |
| | with the | standard delivery package |
| | of each | element |
| Temperature class | : Not app | licable, appliance-based |
| | testing. | |

DRU LAS ES-I 200/130

Concentric LAS system made of SST for appliances with a Ø200/130 fitting. After a certain distance horizontally or vertically (please see the respective installation instructions for the appliance for the minimum approach distance), this may be reduced to DRU LAS ES-I 150/100.

| SST 304 (som | ne items |
|---------------|---|
| made of both | SST 304 and |
| galvanised sh | neet metal) |
| High-gloss | |
| 0.40mm | |
| Outer: | Ø200mm |
| Inner: | Ø130mm |
| Sleeve/ribbin | g push-fit connection |
| with upper si | licone sealing ring |
| and locking b | and |
| Both compon | ents are included |
| with the stan | dard delivery package |
| of each elem | ent |
| T600 (flue ga | ses up to 600°C |
| permitted). | |
| EN-1856-1 | |
| T600 N1 DVm | L20040 050 |
| | 0.40mm Outer: Inner: Sleeve/ribbin with upper si and locking b Both compon with the stan of each eleme T600 (flue gas permitted). |



rear-ventilated).

| DRU LAS ES-E 200/150/100 Thermally insulated, concentric LAS system Ø150/100 made of SST for appliances with a flue gas opening Ø150/100 or Ø200/130 (after reducing to Ø150/100). After a certain horizontal or vertical distance (with | Material: Surface finish: Wall thickness: Diameter: | SST 304 High-gloss 0.50mm Outer: Supply air: Flue gas: | Ø200 mm Ø150 mm Ø100 mm |
|--|--|---|---|
| regard to the minimum required vertical length and the maximum permissible length of the horizon- tal portion, please see the respective installation instructions for the appliance), this may be reduced to LAS ES-E 200/150/100. | Connection: | tion with silica inside and loc Both compone ed with the st package of ea | ents are includ- andard delivery ch pipe element. |
| This system is designed for:Use outside of a building, for example, for a | Temperature class: | Flue gas pipe T450 (flue gas | |
| flue gas outlet along the outer wall, or vertically | | permitted). | |
| through a pitched roof or flat roof. | Clearance to combu | - | |
| • Use in a building, for example, with a duct through combustible building materials or along com- bustible materials, e.g., in wood-framed houses | | even if the flu | combustible rials is 0 mm, e gases are at |
| or through ceilings or roofs with combustible building materials. The clearance to combustible building materials is 0 mm and the duct does not | | 450°C. Ducts do not r ventilated. | |
| need to be rear-ventilated. Very well insulated residences, because the duct must be completed sealed off by the ceiling, wall, | Standard: | Locking band in the wall. EN 1856-1 | s may be installed |
| or roof (clearance to combustible building mate- rials = 0 mm and the opening does not need to be | CE marking: | EN 1856-1 T4 L20050 O(00) | 50 N1 D Vm |

PRODUCT RANGE: DRU LAS ES-I 150/100 GLOSS SST FOR INDOOR APPLICATIONS

| | Item number | Designation | Working |
|----------|--|--|------------|
| | DRU | Pipes straight and adjustable | length (m) |
| | 24102 24171 24199 24450 24451 24452 | Pipe SST Ø150/100 1000mm Optional: - Pipe galva-SST Ø150/100 1000mm, black - Pipe galva-SST Ø150/100 1000mm, alu-metallic - Pipe SST ø150/100 1000mm, nero - Pipe SST ø150/100 1000mm, titan - Pipe SST ø150/100 1000mm, pearl Including locking band and silicone sealing ring. | 0.95 |
| | 24103 | Pipe SST Ø150/100 500mm, adjustable | 0.10 |
| 8 | 24103 24172 24203 24466 34467 24468 | Optional: Pipe galva-SST Ø150/100 500mm, adjustable, black Pipe galva-SST Ø150/100 500mm, adjustable, alu-metallic Pipe SST ø150/100 500mm, adjustable, nero Pipe SST ø150/100 500mm, adjustable, titan Pipe SST ø150/100 500mm, adjustable, pearl Including locking band and silicone sealing ring. | to 0.45 |
| | 24104 | Pipe SST Ø150/100 275-390mm, telescopic | 0.28 |
| | | Including locking band and silicone sealing ring. | to 0.39 |
| | | Adaptors | |
| | 24147 | Adaptor alu-galva Ø150/100 to Ø100/60 | 0.10 |
| | 24147 | Required for an appliance with a flue spigot Ø150/100 with Power- Vent-02 [®] . Not available in SST. Including locking band and silicone sealing ring. | 0.10 |
| | 62858 24465 | Adaptor SST Ø200/130 to Ø150/100 Adaptor SST Ø150/100 to Ø200/130 Including locking band and silicone sealing ring. | 0.09 |
| | | Bends, smooth | |
| | 24173 24202 24456 24457 24458 | Bend galva-SST 90° Ø150/100, smooth - black - alu-metallic - nero - titan - pearl Including locking band and silicone sealing ring. | - |
| | 24175 24433 24469 24470 24471 | Bend galva-SST 45° Ø150/100, smooth, set of 2 pieces - black - alu-metallic - nero - titan - pearl Including locking band and silicone sealing ring. | - |
| | | Bends, ribbed | |
| <i>•</i> | 24105 | Bend SST 90° Ø150/100, ribbed Including locking band and silicone sealing ring. | - |

| | Item number DRU | Designation | Working length (m) |
|---------|---------------------------|--|-----------------------|
| | 24106 | Bend SST 45° Ø150/100, ribbed, set of 2 pieces | - |
| | | Including locking band and silicone sealing ring. | |
| | 24136 | Bend SST 30° Ø150/100, ribbed | - |
| | | Including locking band and silicone sealing ring. | |
| | 24135 | Bend SST 15° Ø150/100, ribbed | - |
| - | | Including locking band and silicone sealing ring. | |
| | | Bends, segmented | |
| æ | 24374 | Bend SST 90° Ø150/100, segmented, excentric | - |
| 18 | | With shortened branch length. Usable on a shortened outer-wall duct, directly behind the appliance | |
| | | Including locking band and silicone sealing ring. | |
| | 24390 | Bend SST 90° Ø150/100, segmented Including locking band and silicone sealing ring. | - |
| - | | | |
| <u></u> | 24391 | Bend SST 45° Ø150/100, segmented, set of 2 pieces | - |
| | | Including locking band and silicone sealing ring. | |
| | 24392 | Bend SST 30° Ø150/100, segmented | - |
| - | | Including locking band and silicone sealing ring. | |
| | 24393 | Bend SST 15° Ø150/100, segmented | - |
| | | Including locking band and silicone sealing ring. | |
| | | Through the roof (C31) | |
| A | 24107 | Roof terminal SST, vertical, Ø150/100, black, BD300 | 0.65 |
| | | | to 1.28 |
| | | Black powder coating RAL9005. | 1.20 |
| | | Adjustable to a working length of 0.72m | |
| | | Including locking band, silicone sealing ring, and mounting bracket. | |
| 00 | | | |
| 宜 | 62862 | Roof terminal SST, vertical, Ø150/100, black, BD580 | 0.93 |
| 11 | | Discharge des sections DAI 0005 | to 1.28 |
| | | Black powder coating RAL9005. | |
| - | | Adjustable to a working length of 1.00m. Including locking band, silicone sealing ring, and mounting bracket. | |
| 8 | | | |

| | ltem number DRU | Designation | Working length (m) |
|----------|----------------------------------|--|-----------------------|
| | 24235 | Extension pipe SST Ø150/100 for roof terminal, L=500, black Black powder coating RAL9005. Including locking band and silicone sealing ring. | 0.45 |
| 8 | | | |
| Ĩ | 24108 24406 | Chimney top SST Ø150/100, black Black powder coating RAL9005. Optional: - Chimney top SST Ø150/100, unpainted Including locking band and silicone sealing ring. | 0.57 |
| | 24031 | Flat roof tile, 0°, aluminium, Ø430-Ø150 | - |
| | 24400 | Flat roof tile, adjustable, 0°-25°, aluminium, Ø650-Ø150 | - |
| 4 | 24489 | Universal tile, lead free, 15°-60°, Ø150 | - |
| | | Through the wall (C11) | |
| | 24109 | Wall terminal SST Ø150/100, unpainted Adjustable to a working length of 0.10m (starting from the outside of the wall). Including locking band, silicone sealing ring, unpainted aluminium rosette 220x220mm, and 4 bolts 4.2x32 | 0.15 to 0.55 |
| | 24174 24462 24463 24464 | Rosette Ø150, 220x220mm, painted, - black - nero - titan - pearl | - |
| • | 24402 | Rosette SST Ø150, 330x330mm, anthracite To cover larger holes. | - |
| | 24375 24376 | Rosette Ø156, 220x220mm, painted, for Diablo Next, - black - alu-metallic | - |
| | | Through the chimney (C91) | |
| e) 🚛 🕹 🕹 | 24195 | Chimney connection SST Ø150/100, with bend 90° Ø100 Concentric pipes individually adjustable Including locking band, silicone sealing ring, unpainted aluminium rosette 220x220mm, galvanised jacketed pipe Ø180mm L=300mm, and 4 bolts 4.2x32 | 0.17 |

| | Item number DRU | Designation | Working |
|--|---------------------------|---|--------------------|
| | 24193 | Chimney connection SST Ø150/100, with concentric bend 90° Ø150/100 | length (m) 0.22 |
| 13 | | | |
| | | Length element individually adjustable | |
| | | Including locking band and silicone sealing ring. | |
| America | 24142 | Flex flue liner SST Ø100, 6m, | 6.00 |
| | | including adaptor SST Ø100, fixed/flex or flex/flex | |
| | | | |
| | | | |
| (The second seco | 24141 | Flex flue liner SST Ø100, 11m, | 11.00 |
| 7 10 | | including adaptor SST Ø100, fixed/flex or flex/flex | |
| | 24475 | Inspection piece SST L=266mm for flex flue liner Ø100 | |
| | 24422 | Adaptor SST flexible Ø100-fixed Ø100 | |
| 100 | 24422 | Adaptor SST flexible Ø100-fixed Ø100 | - |
| | | To connect two flexible pipes (or flexible pipes/exhaust pipes) to each | |
| | | other. Screw the connection elements on side 1: two studs on the SST | |
| | | flexible pipe, on side 2: Drill and screw SST flexible pipe. | |
| | 24407 | Chimney spacer bracket SST for flex flue liner Ø100 | - |
| ~ | | | |
| | | Wall mounting | |
| 0 | 24194 | Wall mounting bracket Ø150 | - |
| Ť | | The mine excelor models find in all on even 200 | |
| 1 | | The pipe system must be fixed in place every 2m. | |
| | | Inspection and measurement | |
| | 0//50 | Pipe galva-SST Ø150/100 1000mm, for inspection, 2 measuring points | 0.22 |
| | 24453 24454 | - nero | |
| 17.00 C | 24454 24455 | - titan | |
| 1.44 | 24433 | - pearl | |
| 2 | 24404 | Inspection element SST Ø150/100, L=265, straight | |
| | 2 | | |
| | | Including locking band and silicone sealing ring. | |
| | 62859 | T-piece SST Ø150/100 L=270, for inspection, with 2 sampling points | 0.23 |
| | | Optional: | |
| CONTRACT NO. | 24378 | - black | |
| | 24379 | - alu-metallic | |
| | | | |
| | | Can be used either straight or as a 90° bend. | |
| | | Including locking band and silicone sealing ring. | |
| | 62860 | Pipe galva-SST Ø150/100 L=160, with two measuring points | 0.11 |
| 12.00 | | Optional: | |
| | 24382 | - black | |
| - | 24383 | - alu-metallic | |
| | | Including locking band and silicone sealing ring. | |
| | 62861 | Inspection bend galva-SST Ø150/100 90° Optional: | - |
| | 24385 | - black | |
| | 24386 | - alu-metallic | |
| | 24475 | Inspection piece SST L=266mm for flex flue liner Ø100 | |
| | - | | |
| 447 | | Including locking band and silicone sealing ring. | |

PRODUCT RANGE: DRU LAS ES-I 200/130 GLOSS SST FOR INDOOR APPLICATIONS

| | Item number | Designation | Working |
|----|-------------|---|--------------------|
| | DRU | Pipes straight and adjustable | length (m) |
| 00 | 62851 | Pipe SST Ø200/130 1000mm Including locking band and silicone sealing ring. | 0.95 |
| 0 | (0050 | | 0.10 |
| | 62852 | Pipe SST Ø200/130 500mm, adjustable Including locking band and silicone sealing ring. | 0.10 to 0.45 |
| õ | | | |
| | 24181 | Pipe SST Ø200/130 355-495mm, telescopic Including locking band and silicone sealing ring. | 0.31 to 0.45 |
| | | Adaptors | |
| | 24354 | Adaptor slu-galva Ø200/130 to Ø100/60 | 0.11 |
| | | Including locking band and silicone sealing ring. Required for an appliance with a flue spigot Ø200/130 with Power- Vent-02 [®] . Not available in SST. | |
| | 62858 | Adaptor SST Ø200/130 to Ø150/100 | 0.09 |
| 0 | | Including locking band and silicone sealing ring. | |
| | | Bends, ribbed | |
| | 62853 | Bend SST 90° Ø200/130, ribbed Including locking band and silicone sealing ring. | - |
| | 62854 | Bend SST 45° Ø200/130, ribbed, per piece Including locking band and silicone sealing ring. | - |
| | 24394 | Bend SST 30° Ø200/130, ribbed Including locking band and silicone sealing ring. | - |
| | 24395 | Bend SST 15° Ø200/130, ribbed Including locking band and silicone sealing ring. | - |
| | | Bends, segmented | |
| | 24396 | Bend SST 90° Ø200/130, segmented Including locking band and silicone sealing ring. | - |

| | ltem number DRU | Designation | Working length (m) |
|------------|---------------------------|--|-----------------------|
| A | 24397 | Bend SST 45° Ø200/130, segmented, per piece | - |
| | | Including locking band and silicone sealing ring. | |
| | 24398 | Bend SST 30° Ø200/130, segmented Including locking band and silicone sealing ring. | - |
| | | | |
| | 24399 | Bend SST 15° Ø200/130, segmented Including locking band and silicone sealing ring | - |
| | | Through the roof (C31) | |
| | | For further construction through the roof, see LAS ES-I 150/100 | |
| | | Through the wall (C11) | |
| | 62855 | Wall terminal SST Ø200/130, unpainted | 0.15 to |
| 00 and 1 | | Adjustable to a working length of 0.10m (starting from the outside of the wall). Including locking band, silicone sealing ring, unpainted aluminium rosette 300x300mm, and 4 bolts 4.2x32 | 0.55 |
| | | Through the chimney (C91) | |
| | | For further construction through the chimney, see LAS ES-I 150/100 | |
| | | Wall mounting | |
| \bigcirc | 24196 | Wall mounting bracket Ø200 | - |
| | | The pipe system must be fixed in place every 2m. | |
| | | Inspection and measurement | |
| | 24405 | Inspection element SST Ø200/1300, L=265, straight | 0.22 |
| - | | Including locking band and silicone sealing ring | |
| 18 | 62856 | T-piece SST Ø200/130 L=270, for inspection, with 2 sampling points | 0.28 |
| 0 | | Can be used either straight or as a 90° bend. | |
| | 10057 | Including locking band and silicone sealing ring. Pipe SST Ø200/130 L=160, with two measuring points | 0.10 |
| | 62857 | Including locking band and silicone sealing ring. | 0.12 |
| | 24182 | Inspection bend SST-galva Ø200/130 90° | _ |
| | 24102 | Including locking band and silicone sealing ring. Outer pipe galvanised. | |

PRODUCT RANGE: DRU PV-I 100/60 POWERVENT-02® SYSTEM

| | ltem number | Designation | Working |
|----|-------------|--|--------------------|
| | DRU | Pipes straight and adjustable | length (m) |
| | 24176 | Pipe alu-galva Ø100/60 2000mm (for dry spaces) | 1.95 |
| | 24177 | Optional: - Pipe alu-galva Ø100/60 2000mm, painted anthracite For wet spaces/crawlspaces (must not be continuously exposed to moisture) | |
| 8 | | Including locking band and seals. | |
| 1 | 24148 | Pipe alu-galva Ø100/60 1000mm (for dry spaces) Optional: | 0.95 |
| | 24149 | - Pipe alu-galva Ø100/60 1000mm, painted anthracite For wet spaces/crawlspaces (must not be continuously exposed to moisture) | |
| 80 | | Including locking band and seals. | |
| | 24150 | Pipe alu-galva Ø100/60 500mm, adjustable (for dry spaces) | 0.10 to |
| | 24151 | Optional: - Pipe alu-galva Ø100/60 500mm, painted anthracite For wet spaces/crawlspaces (must not be continuously exposed to moisture) | 0.45 |
| | | Including locking band and seals. | |
| | 24152 | Pipe alu-galva Ø100/60 325-440mm, telescopic | 0.28 to 0.38 |
| | | Adaptors | |
| 4 | 24354 | Adaptor alu-galva Ø200/130 to Ø100/60 Including locking band and seals. | 0.11 |
| | | Required for an appliance with a flue spigot Ø200/130 with Power- Vent-02°. Not available in SST. | |

| | ltem number DRU | Designation | Working length (m) |
|----------|--------------------|--|-----------------------|
| | 24147 | Adaptor alu-galva Ø150/100 to Ø100/60 | 0.10 |
| 3 | | Including locking band and seals. | |
| | | Required for an appliance with a flue spigot Ø150/100 with Power-Vent- 02° . | |
| | | Not available in SST. | |
| | | Bends | |
| | 24153 | Bend alu-galva Ø100/60 90°, smooth Optional: | - |
| 6 | 24154 | - Bend alu-galva Ø100/60 90°, smooth, painted anthracite For wet spaces/crawlspaces (must not be continuously exposed to moisture) | |
| | | Including locking band and seals. | |
| <u></u> | 24155 | Bend alu-galva Ø100/60 45°, smooth, set of 2 pieces | - |
| | 2(100 | Including locking band and seals. | |
| <u> </u> | 24189 | Bend alu-galva Ø100/60 30°, ribbed Including locking band and seals. | - |
| | 0//00 | | |
| 8 | 24190 | Bend alu-galva Ø100/60 15°, ribbed | - |
| | | Including locking band and seals. | |
| | 04440 | Through the roof (C31) | 0.05 |
| - | 24440 | PowerVent-02 [®] fan unit, roof terminal, black grey Black grey powder coating RAL7021. | 0.35 |
| - | | Included: - Measuring unit (Venturi) with locking band and seals. | 0.30 |
| | | *) Please see installation example 9 or 10 for further information | |
| H | 24145 | In- and outlet piece for PowerVent® for roof terminal | 0.28 |
| | 24166 | Adhesive plate for PowerVent-02®for roof terminal, for flat roof, H=400mm | - |
| | 24156 | Roof terminal alu-galva Ø100/60, BD300, black Adjustable to a working length of 0.64m Including locking band, silicone sealing ring, and mounting bracket. | 0.57 to 1.19 |

| | ltem number DRU | Designation | Working length (m) |
|---|--------------------|--|-----------------------|
| | 24157 | Roof terminal alu-galva Ø100/60, BD580, black | 0.83 |
| ÷ | 21107 | | to |
| | | Adjustable to a working length of 0.92m. | 1.19 |
| | | Including locking band, silicone sealing ring, and mounting bracket. | |
| - | | | |
| | | | |
| | | | |
| 0 | 0/150 | | |
| // Th | 24159 | Flat roof tile, 0°, aluminium, Ø350-Ø100 | - |
| | | | |
| | 24488 | Universal tile, lead free, 15°- 60°, Ø100 | - |
| | | | |
| and the second se | | | |
| - | | | |
| | | Through the wall (C11) | |
| | 24439 | PowerVent-02 [®] fan unit, wall terminal, black grey | 0.10 |
| (internet i enternet i | | | |
| | | Black grey powder coating RAL7021. | |
| | | Included: - Measuring unit (Venturi) with locking band and seals. | 0.30 |
| | 24158 | Wall terminal alu-galva Ø100/60, black | 0.15 |
| | | | to |
| | | Black grey powder coating RAL7021. | 0.55 |
| | | Adjustable to a working length of 0.10m (starting from the outside of | |
| | | the wall). | |
| | | Including locking band, silicone sealing ring, unpainted aluminium | |
| | | rosette 200x200mm. | |
| | | | |
| | | This can be used if the appearance of the PowerVent-02 [®] fan unit for | |
| | 0///0 | the outer wall is not acceptable. In this case, please use the following: | |
| | 24440 | - PowerVent-02 [®] fan unit, roof terminal | |
| | 24167 | - Mounting bracket for PowerVent-02 [®] fan unit for roof terminal | |
| | 24153 | - Bend alu-galva Ø100/60 90°, smooth | |
| | 24158 | - Wall terminal alu-galva Ø100/60, black | |
| | | Including locking band cilicone cooling time uppointed clussicity | |
| | | Including locking band, silicone sealing ring, unpainted aluminium | |
| | 24163 | rosette 220x220mm, and 4 bolts 4.2x32 Resotte aluminium Ø100, 220x220mm, anthrasite | |
| 0 | 24103 | Rosette aluminium Ø100, 220x220mm, anthracite | - |
| | | Through the chimney (C91) | |
| | | The use of PowerVent-02 [®] with an SST flex flue liner through the | |
| | | chimney is not permitted | |
| | | | |
| | 2/107 | Wall and roof mounting | |
| Ŷ | 24197 | Wall mounting bracket Ø100 | - |
| | | The pipe system must be fixed in place every 2m | |
| | | The pipe system must be fixed in place every 2m. | |

| | Item number DRU | Designation | Working length (m) |
|-------|---------------------------|--|-----------------------|
| | 24167 | Mounting bracket for PowerVent-02 [®] fan unit for roof terminal | - |
| | | Condensation trap | |
| - H | 24162 | Condensation trap alu-galva Ø100/60, horizontal/vertical, Ø32 connection Including locking band and seals. | 0.14 |
| Le C | 24428 | Waterless waist valve, horizontal/vertical, connection Ø32, complete set Can be installed both vertically and horizontally. For horizontal installation, the ribs must be positioned at the bottom. | - |
| | | Inspection and measurement | |
| | 24164 | T-piece alu-galva Ø100/60 L=260, for inspection purposes, with 2 sampling points Can be used either straight or as a 90° bend. Including locking band and seals. | 0.20 |
| 100 B | 24165 | Pipe alu-galva Ø100/60 L=165, with two measuring points Including locking band and seals. | 0.12 |

PRODUCT RANGE: DRU LAS ES-E 200/150/100 INSULATED SYSTEM, SST GLOSS FOR OUTDOOR APPLICATIONS

Clearance to combustible building materials = 0cm

| International Page Str B200/150/100, insulated, 1000mm Control 2443 Pipe ST B200/150/100, insulated, 1000mm 0.95 Image: Str B200/150/100, insulated, 1000mm 0.95 Image: Str B200/150/100, insulated, 1000mm 0.45 Image: Str B200/150/100, insulated, 500mm 0.20 Image: Str B200/150/100, insulated, 500mm, telescopic 450 Image: Str B200/150/100, insulated, segmented 0.12 Image: Str B200/150/100, insulated, segme | | ltem number | Designation | Working |
|---|-------|-------------|---|---------|
| 24413Pipe SST 0200/150/100, insulated, 1000mm0.95Image: SST 0200/150/100, insulated, 1000mm0.95Image: SST 0200/150/100, insulated, 500mm0.45Image: SST 0200/150/100, insulated, 250mm0.20Image: SST 0200/150/100, insulated, 250mm0.12Image: SST 0200/150/100, insulated, 250mm0.12Image: SST 0200Adaptor Form LAS ES-I 0150/100 to Insulated system 0200/150/100Image: SST 0200Adaptor form LAS ES-I 0150/100 to LAS ES-E 200/150/100Image: SST 0200Adaptor form LAS ES-I 0150/100 insulated, segmentedImage: SST 0200SST 02° 0200/150/100, insulated, segmentedImage: SST 0200Piese note: Must be ordered with the following:Image: SST 0200Piese note: Must be ordered with the following:Image: SST 0200Piese note: Must be ordered with the following:Image: SST 0200Piese note: Must be ordered with the following: | | | | |
| Image: State of the second | | | Pipe SST Ø200/150/100, insulated, 1000mm Not adjustable! | |
| 24472Pipe SST Ø200/150/100, insulated, 320-450mm, telescopic450Not adjustable! Including locking band and seals.24408Adaptor SST from Ø150/100 to insulated system Ø200/150/1000.12Adaptor from LAS ES-I Ø150/100 to LAS ES-E 200/150/100 Including locking band and seal.0.1224415Bend SST 45° Ø200/150/100, insulated, segmented-24416Bend SST 30° Ø200/150/100, insulated, segmented-1Including locking band and seal24416Bend SST 30° Ø200/150/100, insulated, segmented-24417Please note: Must be ordered with the following: - Storm collar SST Ø200-24427Please note: Must be ordered with the following: | ļ | 24414 | Not adjustable! | 0.45 |
| Not adjustable! Including locking band and seals.Connectors24408Adaptor SST from Ø150/100 to insulated system Ø200/150/1000.12Adaptor from LAS ES-I Ø150/100 to LAS ES-E 200/150/100 Including locking band and seal.Bends, segmented24415Bend SST 45° Ø200/150/100, insulated, segmented-24416Bend SST 30° Ø200/150/100, insulated, segmented-Including locking band and seal24416Bend SST 30° Ø200/150/100, insulated, segmented-24417Dend SST 30° Ø200/150/100, insulated, segmented-24418Bend SST 30° Ø200/150/100, insulated, segmented-24419Universal tile, lead free, 25°-55°, Ø200-24427Please note: Must be ordered with the following: - Storm collar SST Ø200-24427Flat roof tile, 0°, aluminium unpainted, 625x625/Ø200-Please note: Must be ordered with the following:-24429Flat roof tile, 0°, aluminium unpainted, 625x625/Ø200- | 61 TM | 24424 | Pipe SST Ø200/150/100, insulated, 250mm | 0.20 |
| Including locking band and seals.Connectors24408Adaptor SST from Ø150/100 to insulated system Ø200/150/1000.12Adaptor from LAS ES-I Ø150/100 to LAS ES-E 200/150/100 Including locking band and seal.0.12Bends, segmented-24415Bend SST 45° Ø200/150/100, insulated, segmented-Including locking band and sealIncluding locking band and seal24416Bend SST 30° Ø200/150/100, insulated, segmented-Including locking band and sealIncluding locking band and sealUniversal tile, lead free, 25°-55°, Ø200-24420Universal tile, lead free, 25°-55°, Ø200-24427Please note: Must be ordered with the following: - Storm collar SST Ø200-24429Flat roof tile, 0°, aluminium unpainted, 625x625/Ø200-Please note: Must be ordered with the following: - Storm collar SST Ø200- | | 24472 | | 450 |
| Connectors 24408 Adaptor SST from Ø150/100 to insulated system Ø200/150/100 0.12 Adaptor from LAS ES-I Ø150/100 to LAS ES-E 200/150/100 Including locking band and seal. Bends, segmented 24415 Bend SST 45° Ø200/150/100, insulated, segmented - Including locking band and seal. - 24416 Bend SST 30° Ø200/150/100, insulated, segmented - Including locking band and seal. - View of the roof (C31) - View of the roof (C31) - View of the roof tile, lead free, 25°-55°, Ø200 - Please note: Must be ordered with the following: - - Storm collar SST Ø200 - Please note: Must be ordered with the following: - - Storm collar SST Ø200 - Please note: Must be ordered with the following: - - Storm collar SST Ø200 - Please note: Must be ordered with the following: - | | | | |
| 24408 Adaptor SST from Ø150/100 to insulated system Ø200/150/100 0.12 Adaptor from LAS ES-I Ø150/100 to LAS ES-E 200/150/100 Including locking band and seal. Bends, segmented - 24415 Bend SST 45° Ø200/150/100, insulated, segmented - Including locking band and seal. - - Versat tile, locking band and seal. - - Versat tile, lead free, 25°-55°, Ø200 - - Versat tile, lead free, 25°-65°, Ø200 - - Versat tile, lead free, 25° 0200 - - Versat tile, lead free, 25° 0200 - - Versat t | | | | |
| Adaptor from LAS ES-I Ø150/100 to LAS ES-E 200/150/100 Including locking band and seal. Bends, segmented 24415 Bend SST 45° Ø200/150/100, insulated, segmented Including locking band and seal. 24416 Bend SST 30° Ø200/150/100, insulated, segmented Including locking band and seal. 24416 Bend SST 30° Ø200/150/100, insulated, segmented Including locking band and seal. 24416 Bend SST 30° Ø200/150/100, insulated, segmented Including locking band and seal. 24416 Bend SST 30° Ø200/150/100, insulated, segmented Including locking band and seal. Please note: Kust be ordered with the following: 24490 Please note: Must be ordered with the following: 24427 Flat roof tile, 0°, aluminium unpainted, 625x625/Ø200 - Please note: Must be ordered with the following: - 24429 Flat roof tile, 0°, aluminium unpainted, 625x625/Ø200 - | | 24408 | | 0.12 |
| 24415Bend SST 45° Ø200/150/100, insulated, segmented Including locking band and seal24416Bend SST 30° Ø200/150/100, insulated, segmented Including locking band and seal1ncluding locking band and sealThrough the roof (C31)Q4490Universal tile, lead free, 25°-55°, Ø20024427Please note: Must be ordered with the following: - Storm collar SST Ø20024429Flat roof tile, 0°, aluminium unpainted, 625x625/Ø200 Please note: Must be ordered with the following: | | | Adaptor from LAS ES-I Ø150/100 to LAS ES-E 200/150/100 | |
| Including locking band and seal. Inclu | | | Bends, segmented | |
| Image: Section of the section of th | | 24415 | | - |
| 24490 Universal tile, lead free, 25°-55°, Ø200 - Please note: Must be ordered with the following: - Storm collar SST Ø200 - 24427 Flat roof tile, 0°, aluminium unpainted, 625x625/Ø200 - Please note: Must be ordered with the following: - Please note: Must be ordered with the following: - | 8 | 24416 | | - |
| 24427 Please note: Must be ordered with the following: - Storm collar SST Ø200 - Storm collar SST Ø200 24429 Flat roof tile, 0°, aluminium unpainted, 625x625/Ø200 - Please note: Must be ordered with the following: - | | | Through the roof (C31) | |
| 24427 - Storm collar SST Ø200 24429 Flat roof tile, 0°, aluminium unpainted, 625x625/Ø200 Please note: Must be ordered with the following: | | 24490 | | - |
| Please note: Must be ordered with the following: | | 24427 | - | |
| 24427 - Storm collar SST Ø200 | C | 24429 | | - |
| | | 24427 | - Storm collar SST Ø200 | |

| | ltem number | Designation | Working |
|------------------|-------------------------|---|--------------------|
| | DRU | | length (m) |
| | 24427 | Storm collar SST Ø200 | - |
| 9 | 24419 | Roof terminal cap SST Ø200/150/100 Including locking band. | 0.28 |
| No. | 24421 24429 24427 | Flat roof-ceiling connection element SST Ø200/150/100, L=200, insulated Clearance to combustible materials is 0cm! Maximum bearing load of the wall and ceiling duct: 16m. For use as a flat roof duct Please note: For a flat roof duct, must be ordered with the following: - Flat roof tile, 0°, aluminium unpainted, 625x625/Ø200 - Storm collar SST Ø200 The system can be extended by the flat roof tile to a total height of 1.5m; anchoring may be necessary. | 0.20 - - |
| | | For use as a ceiling duct Further construction can continue via the ceiling duct only using insulated pipes of LAS ES-E 200/150/100. Further construction with pipes from LAS ES-I 150/100 is not possible. Included: Locking band and seal. Not included: 4 bolts Ø8mm | |
| | | Through the wall (C11) | |
| 0 | 24409 | Rosette SST Ø200, 330x330 Not included: 6 bolts Ø6mm | - |
| • •† => 8 | 24425 | Wall terminal SST Ø200/150/100, telescopic 300-450mm, insulated Adjustable for wall thicknesses of 30cm to 45cm. Included: Locking band, seal, and SST rosette 280x280mm. Not included: 4 bolts Ø5mm | 0.30 to 0.45 |

| | ltem number | Designation | Working |
|------------|----------------|---|------------|
| | DRU | | length (m) |
| | | Through the chimney (C91) | |
| | | Not applicable | |
| | | Wall and roof mounting | |
| | 24411 24473 | Wall support SST for Ø200/150/100, adjustable 130-180mm Extension for wall support SST for Ø200/150/100, adjustable 130-360mm Adjustable to 30-80mm The maximum bearing load of one support is 16m. For taller heights, the system must be braced by another supported. Including locking band and seals. | - |
| \bigcirc | 24420 | Not included: 6 bolts Ø8 Wall mounting bracket SST Ø200, adjustable 130-180mm Adjustable to 30-80mm The pipe system must be fixed in place every 2m. | - |
| 0 | 24417 | Roof support SST Ø200 The system can be extended by the last support to a total height of 1.5m; anchoring may be necessary. Not included: 12 bolts Ø6mm | - |
| | | Condensation trap | |
| 9 | 24412 | Condensation trap SST Ø200/150/100, insulated | 0.14 |
| | | Inspection and measurement, and T-pieces | |
| | 24410 | T-piece SST Ø200/150/100, insulated For the transition from horizontal to vertical. Including locking band and seal. | 0.30 |
| 6 | 24423 | T-piece SST Ø200/150/100, for inspection purposes, insulated Including locking band and seal. | 0.30 |



- *) Measurement points at least two times the pipe diameter above the flue spigot
- The roof duct can be extended over the roof with one or more 'extensions over the roof', up to a total height of 1.50m beyond the last support, in compliance with country-specific regulations regarding the height over the roof; anchoring may be necessary.
- The measurement opening must be positioned approx. 2x D (2x pipe diameter) over the fireplace as per DIN 18160. To ensure troublefree access, it is useful to position this at the height of the convection-air grille. The exact position of the inspection and measurement openings must be agreed upon in advance with the district chimney-sweep master (BSM).

DRU LAS ES-I 150/100, GLOSS SST VERTICAL THROUGH PITCHED ROOF (C31)

| Throu | hrough pitched roof of 25° to 45° (C31) | | | | | |
|-------|--|-------------|--------------------|--|--|--|
| | | Item number | | | | |
| ltem | Parts | DRU | Working length (m) | | | |
| 1 | - T-piece SST Ø150/100 L=270, for inspection, with 2 sampling points | 62859 | 0.23 | | | |
| | Also available in a painted option; please see LAS DRU ES-I 150/100 | | | | | |
| 2 | - Pipe SST Ø150/100 1000mm | 24102 | 0.95 | | | |
| | Also available in a painted option; please see LAS DRU ES-I 150/100 | | | | | |
| 3 | - Universal tile, lead free, 15°-60°, Ø150 | 24089 | - | | | |
| 4 | - Extension pipe SST Ø150/100 for roof terminal, L=500, black | 24235 | 0.45 | | | |
| 5 | - Roof terminal SST, vertical, Ø150/100, black, BD300 | 24107 | 0.65 to 1.28 | | | |
| | Optional: | | | | | |
| | - Roof terminal SST, vertical, Ø150/100, black, BD580 | 62862 | 0.93 to 1.28 | | | |

- The chimney load must be absorbed by wall mounting brackets. These are recommended every 2m. The gas fireplace must not be subjected to static load. This must be ensured by other measures, if necessary, if brackets are not feasible.
- Roof duct without rear ventilation in the building; on-site fire protection measures may be necessary.



- The roof duct can be extended over the roof with one or more 'extensions over the roof', up to a total height of 1.50m beyond the last support, in compliance with country-specific regulations regarding the height over the roof; anchoring may be necessary.
- The measurement opening must be positioned approx. 2x D (2x pipe diameter) over the fireplace as per DIN 18160. To ensure troublefree access, it is useful to position this at the height of the convection-air grille. The exact position of the inspection and measurement openings must be agreed upon in advance with the BSM.

DRU LAS ES-I 150/100, GLOSS SST WITH OFFSET THROUGH PITCHED ROOF (C31)

| Throug | gh pitched roof of 25° to 45° (C31), with T-piece for inspection | | | |
|--------|--|-------------|----------|------------|
| | | ltem number | | length (m) |
| ltem | Parts | DRU | Vertical | Horizontal |
| 1 | - T-piece SST Ø150/100 L=270, for inspection, with 2 sampling points | 62859 | 0.11 | 0.11 |
| | Also available in a painted option; please see LAS DRU ES-I 150/100 | | | |
| | Can be used either straight or as a 90° bend. | | | |
| | Including locking band and silicone sealing ring. | | | |
| 2 | - Bend SST 90° Ø150/100, ribbed | 24105 | 0.19 | 0.22 |
| 3 | - Pipe SST Ø150/100 1000mm | 24102 | 0.95 | - |
| | Also available in a painted option; please see LAS DRU ES-I 150/100 | | | |
| 4 | - Universal tile, lead free, 15°-60°, Ø150 | 24489 | - | - |
| 5 | - Extension pipe SST Ø150/100 for roof terminal, L=500, black | 24235 | 0.45 | - |
| 6 | - Roof terminal SST, vertical, Ø150/100, | 24107 | 0.65 | - |
| | black, BD300 | | to | |
| | | | 1.28 | |
| | Optional: | | | |
| | - Roof terminal SST, vertical, Ø150/100, | 62862 | 0.93 | - |
| | black, BD580 | | to | |
| | | | 1.28 | |

- The chimney load must be absorbed by wall mounting brackets. These are recommended every 2m. The gas fireplace must not be subjected to static load. This must be ensured by other measures, if necessary, if brackets are not feasible.
- Roof duct without rear ventilation in the building; on-site fire protection measures may be necessary.



- The measurement opening must be positioned approx. 2x D (2x pipe diameter) over the fireplace as per DIN 18160. To ensure troublefree access, it is useful to position this at the height of the convection-air grille. The exact position must be coordinated in advance with the BSM.
- The chimney load must be absorbed by wall mounting brackets. These are recommended every 2m. The gas fireplace must not be subjected to static load. This must be ensured by other measures, if necessary, if brackets are not feasible.

DRU LAS ES-I 150/100, GLOSS SST WITH FLEX FLUE LINER THROUGH THE CHIMNEY (C91)

| With f | With flex flue liner through the chimney (C91), with a smooth inspection bend | | | | | |
|--------|--|-------------|----------|--------------------|--|--|
| | | ltem number | | length (m) | | |
| ltem | Parts | DRU | Vertical | Horizontal | | |
| 1 | - Pipe galva-SST Ø150/100 L=160, with two measuring points | 62860 | 0.11 | - | | |
| | Also available in a painted option; please see LAS DRU ES-I 150/100 | | | | | |
| 2 | - Inspection bend galva-SST Ø150/100 90° | 62861 | 0.16 | 0.23 | | |
| | Also available in a painted option; please see LAS DRU ES-I 150/100 | | | | | |
| 3 | - Chimney connection SST Ø150/100, with bend 90° Ø100 | 24195 | 0.17 | 0.35 to 0.55 | | |
| 4 | - Flex flue liner SST Ø100, 6m, including adaptor SST Ø100, fixed/flex or flex/flex or | 24142 | 6.00 | - | | |
| | Flex flue liner SST Ø100, 11m, including adaptor SST Ø100, fixed/flex or flex/flex Adaptor: to connect two flexible pipes (or flexible pipes/exhaust pipes) to each other. Screw the connection elements on side 1: two studs on the SST flexible pipe, on side 2: Drill and screw SST flexible pipe. | 24141 | 11.00 | - | | |
| 5 | - Spacer for flexible SST pipe | 24407 | - | - | | |
| 6 | - Flat roof tile, 0°, aluminium, Ø430-Ø150 | 24031 | - | - | | |
| 7 | - Chimney top SST Ø150/100, black Black powder coating RAL9005. or | 24108 | 0.57 | - | | |
| | - Chimney top SST Ø150/100, unpainted | 24406 | 0.57 | - | | |

• In section V2, in the chimney, a spacer must be installed every 3m.



- The measurement opening must be positioned approx. 2x D (2x pipe diameter) over the fireplace as per DIN 18160. To ensure troublefree access, it is useful to position this at the height of the convection-air grille. The exact position of the inspection and measurement openings must be agreed upon in advance with the BSM.
- The chimney load must be absorbed by wall mounting brackets. These are recommended every 2m. The gas fireplace must not be subjected to static load. This must be ensured by other measures, if necessary, if brackets are not feasible.

DRU LAS ES-I 150/100, GLOSS SST THROUGH THE WALL (C11)

| Throu | Through the wall (C11), with inspection bend | | | | | |
|-------|--|-------------|----------|--------------------|--|--|
| | | ltem number | Working | length (m) | | |
| ltem | Parts | DRU | Vertical | Horizontal | | |
| 1 | - Pipe galva-SST Ø150/100 L=160, with two measuring points | 62860 | 0.11 | - | | |
| | Also available in a painted option; please see LAS DRU ES-I 150/100 | | | | | |
| 2 | - Inspection bend galva-SST Ø150/100 90° Also available in a painted option; please see LAS DRU ES-I 150/100 or | 62861 | 0.16 | 0.23 | | |
| | - Bend SST 90° Ø150/100, segmented, excentric (Bend with shortened branch length for a very shortened wall terminal, no inspection opening; discuss with BSM!) | 24374 | 0.14 | 0.17 | | |
| 3 | - Wall terminal SST Ø150/100, unpainted | 24109 | - | 0.15 to 0.55 | | |

• The C11 design is generally subject to approval and must be agreed upon in advance with the appropriate BSM, because country-specific regulations must be complied with.



- The roof duct can be extended over the roof with one or more 'extensions over the roof', up to a total height of 1.50m beyond the last support, in compliance with country-specific regulations regarding the height over the roof; anchoring may be necessary.
- The measurement opening must be positioned approx. 2x D (2x pipe diameter) over the fireplace as per DIN 18160. To ensure troublefree access, it is useful to position this at the height of the convection-air grille. The exact position of the inspection and measurement openings must be agreed upon in advance with the BSM.

DRU LAS ES-I 200/130, GLOSS SST VERTICAL THROUGH PITCHED ROOF (C31)

| Throu | gh pitched roof of 25° to 45° (C31) | | |
|-------|--|---------------------------|--------------------|
| ltem | Parts | Item number DRU | Working length (m) |
| 1 | - Pipe SST Ø200/130 1000mm | 62851 | 0.95 |
| 2 | - Adaptor SST Ø200/130 to Ø150/100 | 62858 | 0.09 |
| 3 | - T-piece SST Ø150/100 L=270, for inspection, with 2 sampling points | 62859 | 0.23 |
| 4 | - Pipe SST Ø150/100 1000mm | 24102 | 0.95 |
| 5 | - Universal tile, lead free, 15°-60°, Ø150 | 24489 | - |
| 6 | - Extension pipe SST Ø150/100 for roof terminal, L=500, black | 24235 | 0.45 |
| 6 | - Roof terminal SST, vertical, Ø150/100, black, BD300 | 24107 | 0.65 to 1.28 |
| | Optional: | | |
| | - Roof terminal SST, vertical, Ø150/100, black, BD580 | 62862 | 0.93 to 1.28 |

- The chimney load must be absorbed by wall mounting brackets. These are recommended every 2m. The gas fireplace must not be subjected to static load. This must be ensured by other measures, if necessary, if brackets are not feasible.
- Roof duct without rear ventilation in the building; on-site fire protection measures may be necessary.



- The roof duct can be extended over the roof with one or more 'extensions over the roof', up to a total height of 1.50m beyond the last support, in compliance with country-specific regulations regarding the height over the roof; anchoring may be necessary.
- The measurement opening must be positioned approx. 2x D (2x pipe diameter) over the fireplace as per DIN 18160. To ensure troublefree access, it is useful to position this at the height of the convection-air grille. The exact position of the inspection and measurement openings must be agreed upon in advance with the BSM.

DRU LAS ES-I 200/130, GLOSS SST WITH OFFSET THROUGH PITCHED ROOF (C31)

| Throug | Through pitched roof of 25° to 45° (C31), with T-piece for inspection | | | | |
|--------|---|-------------|--------------------|------------|--|
| | | ltem number | Working length (| | |
| ltem | Parts | DRU | Vertical | Horizontal | |
| 1 | - T-piece SST Ø200/130 L=270, for inspection, with 2 sampling points | 62856 | 0.13 | 0.14 | |
| 2 | - Bend SST 90° Ø200/130, ribbed | 62853 | 0.24 | 0.28 | |
| 3 | - Adaptor SST Ø200/130 to Ø150/100 | 62858 | 0.09 | - | |
| 4 | - Pipe SST Ø150/100 1000mm | 24102 | 0.95 | - | |
| 5 | - Universal tile, lead free, 15°-60°, Ø150 | 24489 | - | - | |
| 6 | - Extension pipe SST Ø150/100 for roof terminal, L=500, black | 24235 | 0.45 | - | |
| 7 | - Roof terminal SST, vertical, Ø150/100, black, BD300 Optional: | 24107 | 0.65 to 1.28 | - | |
| | - Roof terminal SST, vertical, Ø150/100, black, BD580 | 62862 | 0.93 to 1.28 | - | |

- The chimney load must be absorbed by wall mounting brackets. These are recommended every 2m. The gas fireplace must not be subjected to static load. This must be ensured by other measures, if necessary, if brackets are not feasible.
- Roof duct without rear ventilation in the building; on-site fire protection measures may be necessary.



- The measurement opening must be positioned approx. 2x D (2x pipe diameter) over the fireplace as per DIN 18160. To ensure troublefree access, it is useful to position this at the height of the convection-air grille. The exact position must be coordinated in advance with the BSM.
- The chimney load must be absorbed by wall mounting brackets. These are recommended every 2m. The gas fireplace must not be subjected to static load. This must be ensured by other measures, if necessary, if brackets are not feasible.

DRU LAS ES-I 200/130, GLOSS SST WITH FLEX FLUE LINER THROUGH THE CHIMNEY (C91)

| With flex flue liner through the chimney (C91), with a smooth inspection bend | | | | | | | |
|---|--|----------------|--------------------|--------------------|--|--|--|
| | | ltem number | Working length (m) | | | | |
| ltem | Parts | DRU | Vertical | Horizontal | | | |
| 1 | - Pipe SST Ø200/130 L=160, with two measuring points | 62857 | 0.12 | - | | | |
| 2 | - Inspection bend SST-galva Ø200/130 90° | 24182 | 0.22 | 0.28 | | | |
| 3 | - Adaptor SST Ø200/130 to Ø150/100 | 62858 | - | 0.09 | | | |
| 4 | - Chimney connection SST Ø150/100, with bend 90° Ø100 | 24195 | 0.17 | 0.33 to 0.59 | | | |
| 5 | Flex flue liner SST Ø100, 6m, including adaptor SST Ø100, fixed/flex or flex/flex or Flex flue liner SST Ø100, 11m, including adaptor SST Ø100, fixed/flex or flex/flex Adaptor: to connect two flexible pipes (or flexible pipes/exhaust pipes) to each other. Screw the connection elements on side 1: two studs on the SST flexible pipe, on side 2: Drill and screw SST flexible pipe. | 24142 24141 | 6.00 11.00 | - | | | |
| 6 | - Spacer for flexible SST pipe | 24407 | - | - | | | |
| 7 | - Flat roof tile, 0°, aluminium, Ø430-Ø150 | 24031 | - | - | | | |
| 8 | - Chimney top SST Ø150/100, black Black powder coating RAL9005. or | 24108 | 0.57 | - | | | |
| | - Chimney top SST Ø150/100, unpainted | 24406 | - | - | | | |

• In section V2, in the chimney, a spacer must be installed every 3m.



- The measurement opening must be positioned approx. 2x D (2x pipe diameter) over the fireplace as per DIN 18160. To ensure troublefree access, it is useful to position this at the height of the convection-air grille. The exact position of the inspection and measurement openings must be agreed upon in advance with the BSM.
- The chimney load must be absorbed by wall mounting brackets. These are recommended every 2m. The gas fireplace must not be subjected to static load. This must be ensured by other measures, if necessary, if brackets are not feasible.

DRU LAS ES-I 200/130, GLOSS SST THROUGH THE WALL (C11)

| Through the wall (C11), with inspection bend | | | | | | |
|--|--|-------------|--------------------|--------------------|--|--|
| | | ltem number | Working length (m) | | | |
| ltem | Parts | DRU | Vertical | Horizontal | | |
| 1 | - Pipe SST Ø200/130 L=160, with two measuring points | 62857 | 0.12 | - | | |
| 2 | - Inspection bend SST-galva Ø200/130 90° | 24182 | 0.22 | 0.28 | | |
| 3 | - Pipe SST Ø200/130 1000mm | 62851 | - | 0.95 | | |
| 4 | - Wall terminal SST Ø200/130, unpainted | 62855 | - | 0.15 to 0.55 | | |

 The C11 design is generally subject to approval and must be agreed upon in advance with the appropriate BSM, because country-specific regulations must be complied with.



- The measurement opening must be positioned approx. 2x D (2x pipe diameter) over the fireplace as per DIN 18160. To ensure trouble-free access, it is useful to position this at the height of the convection-air grille. The exact position must be coordinated in advance with the BSM.
- The chimney load must be absorbed by wall mounting brackets. These are recommended every 2m. The gas fireplace must not be subjected to static load. This must be ensured by other measures, if necessary, if brackets are not feasible.
DRU PV-I 100/60 POWERVENT-02® WITH OFFSET THROUGH PITCHED ROOF (C31), FAN UNIT BENEATH THE ROOF

| | | ltem number | Working | length (m) |
|---|--|-------------|--------------------|------------|
| | Parts | DRU | Vertical | Horizonta |
| 1 | - Adaptor alu-galva Ø200/130 to Ø100/60, for appliances with a flue spigot Ø200/130, or | 24354 | 0.11 | - |
| | - Adaptor alu-galva Ø150/100 to Ø100/60, for appliances with a flue spigot Ø150/100 | 24147 | 0.10 | - |
| 2 | - Measuring unit (Venturi). Included in the PowerVent-02® fan unit scope of supply | n.a. | 0.30 | - |
| 3 | - T-piece alu-galva Ø100/60 L=260, for inspection purposes, with 2 sampling points | 24164 | 0.09 | 0.09 |
| 4 | - Bend alu-galva Ø100/60 90°, smooth | 24153 | 0.10 | 0.09 |
| 5 | - Pipe alu-galva Ø100/60 1000mm | 24148 | 0.95 | - |
| 6 | - Mounting bracket for PowerVent-02 $^{\circ}$ fan unit for roof terminal | 24167 | - | - |
| 7 | PowerVent-02[®] fan unit, roof terminal, black grey *) Please see drawing for 24440 at www.druservice.co.uk or www.druservice.com. Please note: PowerVent-02[®] can only be combined with DRU gas-fireplace inserts that have a Honeywell (RCH) control system. The PowerVent-02[®] control unit is installed in the appliance in its delivered condition and the parameters are tuned and preset on the appliance. | 24440 | 0.35 | 0.14 *) |
| 8 | - Universal tile, lead free, 15°- 60°, Ø100 | 24489 | - | - |
| 9 | - Roof terminal alu-galva Ø100/60, BD300, black | 24156 | 0.57 to 1.19 | - |
| | Optional - Roof terminal alu-galva Ø100/60, BD580, black | 24157 | 0.83 to 1.19 | - |

- Roof duct without rear ventilation in the building; on-site fire protection measures may be necessary.
- Downstream of the PowerVent-02[®] fan unit, the maximum permissible pipe length to the terminal is 1m.
- The different minimum and maximum lengths for each gas appliance model must be adhered to. You can find these specifications in the installation instructions for the PowerVent-02[®].



- The measurement opening must be positioned approx. 2x D (2x pipe diameter) over the fireplace as per DIN 18160. To ensure trouble-free access, it is useful to position this at the height of the convection-air grille. The exact position must be coordinated in advance with the BSM.
- The chimney load must be absorbed by wall mounting brackets. These are recommended every 2m. The gas fireplace must not be subjected to static load. This must be ensured by other measures, if necessary, if brackets are not feasible.

DRU PV-I 100/60 POWERVENT-02® WITH OFFSET THROUGH FLAT ROOF (C31), FAN UNIT ABOVE ON THE ROOF

| Throu | gh flat roof (C31), PowerVent-02 $^{\circ}$ fan unit above on the flat roof | | | |
|-------|---|-------------|--------------------|-------------|
| | | ltem number | Working | length (m) |
| ltem | Parts | DRU | Vertical | Horizontal |
| 1 | - Adaptor alu-galva Ø200/130 to Ø100/60, for appliances with a flue spigot Ø200/130, or | 24354 | 0.11 | - |
| | - Adaptor alu-galva Ø150/100 to Ø100/60, for appliances with a flue spigot Ø150/100 | 24147 | 0.10 | - |
| 2 | - Measuring unit (Venturi). Included in the PowerVent-02® fan unit scope of supply | n.a. | 0.30 | - |
| 3 | - T-piece alu-galva Ø100/60 L=260, for inspection purposes, with 2 sampling points | 24164 | 0.09 | 0.09 |
| 4 | - Bend alu-galva Ø100/60 90°, smooth | 24153 | 0.10 | 0.09 |
| 5 | - Pipe alu-galva Ø100/60 500mm, adjustable | 1017711 | 0.10 to 0.45 | - |
| 6 | Adhesive plate for PowerVent-02[®] for roof terminal, for flat roof, H=400mm *) The required pipe length from the bottom of the adhesive plate to the fan unit is 0.35m | 24166 | -*) | - |
| 7 | PowerVent-02[®] fan unit, roof terminal, black grey **) Please see drawing for 24440 at www.druservice.co.uk or www.druservice.com. Please note: PowerVent-02[®] can only be combined with DRU gas-fireplace inserts that have a Honeywell (RCH) control system. The PowerVent-02[®] control unit is installed in the appliance in its delivered condition and the parameters are tuned and preset on the appliance. | 24440 | 0.35 | 0.14 **) |
| 8 | - In- and outlet piece for $PowerVent^{\circledast}$ for roof terminal | 24145 | 0.28 | - |

- Roof duct without rear ventilation in the building; on-site fire protection measures may be necessary.
- Downstream of the PowerVent-02[®] fan unit, the maximum permissible pipe length to the terminal is 1m.
- The different minimum and maximum lengths for each gas appliance model must be adhered to. You can find these specifications in the installation instructions for the PowerVent-02[®].



- *) Measurement points at least two times the pipe diameter above the flue spigot
- **) Please see the respective installation instructions for the appliance for the minimum approach distance
- ***) The clearance Hm to roof overhangs up to 50cm must be at least 50cm. For larger roof overhangs, this clearance must be increased proportionally.

| Throu | gh the wall (C11), with PowerVent-02 [®] on the outer wall | | | |
|-------|--|----------------|--------------|------------|
| | | ltem number | Working | length (m) |
| ltem | Parts | DRU | Vertical | Horizontal |
| 1 | Adaptor Adaptor alu-galva Ø200/130 to Ø100/60, for appliances with a flue spigot Ø200/130, or Adaptor alu-galva Ø150/100 to Ø100/60, | 24354 24147 | 0.11 0.10 | - |
| 2 | for appliances with a flue spigot Ø150/100 - T-piece alu-galva Ø100/60 L=260, for inspection purposes, with 2 sampling points | 24164 | 0.09 | 0.09 |
| 3 | - Measuring unit (Venturi). Included in the PowerVent-02® fan unit scope of supply | n.a. | - | 0.30 |

- The measurement opening must be positioned approx. 2x D (2x pipe diameter) over the fireplace as per DIN 18160. To ensure troublefree access, it is useful to position this at the height of the convection-air grille. The exact position must be coordinated in advance with the BSM.
- The chimney load must be absorbed by wall mounting brackets. These are recommended every 2m. The gas fireplace must not be subjected to static load. This must be ensured by other measures, if necessary, if brackets are not feasible.

DRU PV-I 100/60 POWERVENT-02° ON THE OUTER WALL, PIPES THROUGH CRAWLSPACE (C11)

| | | ltem number | | length (m) |
|------|--|-------------|----------------------------|--------------------|
| ltem | Parts | DRU | Vertical | Horizontal |
| 4 | - Bend alu-galva Ø100/60 90°, smooth | 24153 | 0.10 | 0.09 |
| 5 | - Pipe alu-galva Ø100/60 1000mm | 24148 | 0.95 | - |
| 6 | - Bend alu-galva Ø100/60 90°, smooth, painted anthracite | 24154 | 0.09 | 0.10 |
| 7 | - Wall mounting bracket Ø100 The pipe system must be fixed in place every 2m | 24197 | - | - |
| 8 | - Condensation trap alu-galva Ø100/60, horizontal/vertical, Ø32 connection | 24162 | - | 0.14 |
| 9 | - Waterless waist valve, horizontal/vertical, connection Ø32, complete set | 24428 | - | - |
| 10 | - Pipe alu-galva Ø100/60 1000mm, painted anthracite | 24149 | - | 0.95 |
| 11 | - Bend alu-galva Ø100/60 90°, smooth, painted anthracite | 24154 | 0.10 | 0.09 |
| 12 | - Pipe alu-galva Ø100/60 325-440mm, telescopic Optional: | 24152 | 0.28 to 0.38 | - |
| | - Pipe alu-galva Ø100/60 500mm, adjustable | 24150 | 0.38 0.10 to 0.45 | - |
| 13 | - Bend alu-galva Ø100/60 90°, smooth | 24153 | 0.09 | 0.10 |
| 14 | - Pipe alu-galva Ø100/60 500mm, adjustable | 24150 | | 0.10 to 0.45 |
| 15 | PowerVent-02[®] fan unit, wall terminal, black grey Please note: PowerVent-02[®] can only be combined with DRU gas-fireplace inserts that have a Honeywell (RCH) control system. The PowerVent-02[®] control unit is installed in the appliance in its delivered condition and the parameters are tuned and preset on the appliance. | 24439 | -0.09 | - |

- Downstream of the PowerVent-02[®] fan unit, the maximum permissible pipe length to the terminal is 1m.
- The different minimum and maximum lengths for each gas appliance model must be adhered to. You can find these specifications in the installation instructions for the PowerVent-02[®].
- The C11 design is generally subject to approval and must be agreed upon in advance with the appropriate BSM, because country-specific regulations must be complied with.



*) Measurement points at least two times the pipe diameter above the flue spigot

| Through the wall (C11), with PowerVent-02 [®] on the outer wall | | | | | |
|--|--|----------------|--------------|------------|--|
| | | Item number | Working | length (m) | |
| ltem | Parts | DRU | Vertical | Horizontal | |
| 1 | Adaptor Adaptor alu-galva Ø200/130 to Ø100/60, for appliances with a flue spigot Ø200/130, or Adaptor alu-galva Ø150/100 to Ø100/60, | 24354 24147 | 0.13 0.10 | - | |
| 2 | for appliances with a flue spigot Ø150/100 - T-piece alu-galva Ø100/60 L=260, for inspection purposes, with 2 sampling points | 24164 | 0.09 | 0.09 | |
| 2 | - 1-piece att-gate group of L-200, for inspection purposes, with 2 sampting points | 24104 | 0.07 | 0.07 | |
| 3 | - Measuring unit (Venturi). Included in the PowerVent-02 [®] fan unit scope of supply | n.a. | - | 0.30 | |

- The measurement opening must be positioned approx. 2 D (2x pipe diameter) over the fireplace as per DIN 18160. To ensure trouble-free access, it is useful to position this at the height of the convection-air grille. The exact position must be coordinated in advance with the BSM.
- The chimney load must be absorbed by wall mounting brackets. These are recommended every 2m. The gas fireplace must not be subjected to static load. This must be ensured by other measures, if necessary, if brackets are not feasible.

DRU PV-I 100/60 POWERVENT-02® IN THE YARD, PIPES THROUGH CRAWLSPACE (C31)

| ltem | Parts | Item number DRU | Working Vertical | length (m) Horizontal |
|------|---|---------------------------|---------------------|--------------------------|
| 4 | - Bend alu-galva Ø100/60 90°, smooth | 24153 | 0.10 | 0.09 |
| 5 | - Pipe alu-galva Ø100/60 1000mm | 24148 | 0.95 | - |
| 6 | - Bend alu-galva Ø100/60 90°, smooth, painted anthracite | 24154 | 0.09 | 0.10 |
| 7 | - Wall mounting bracket Ø100 The pipe system must be fixed in place every 2m | 24197 | - | - |
| 8 | - Pipe alu-galva Ø100/60 1000mm, painted anthracite | 24149 | - | 0.95 |
| 9 | - Condensation trap alu-galva Ø100/60, horizontal/vertical, Ø32 connection | 24162 | - | 0.14 |
| 10 | - Waterless waist valve, horizontal/vertical, connection Ø32, complete set | 24428 | - | - |
| 11 | - Bend alu-galva Ø100/60 90°, smooth, painted anthracite | 24154 | 0.10 | 0.09 |
| 12 | Pipe alu-galva Ø100/60 500mm, adjustable | 24150 | 0.10 to 0.45 | - |
| 13 | Adhesive plate for PowerVent-02[®]for roof terminal, for flat roof, H=400mm *) The required pipe length from the bottom of the adhesive plate to the fan unit is 0.35m | 24166 | _*] | - |
| 14 | PowerVent-02[®] fan unit, roof terminal, black grey **) Please see drawing for 24440 at www.druservice.co.uk or www.druservice.com. Please note: PowerVent-02[®] can only be combined with DRU gas-fireplace inserts that have a Honeywell (RCH) control system. The PowerVent-02[®] control unit is installed in the appliance in its delivered condition and the parameters are tuned and preset on the appliance. | 24440 | 0.35 | 0.14 **] |
| 15 | In- and outlet piece for PowerVent® for roof terminal | 24145 | 0.28 | - |

- The different minimum and maximum lengths for each gas appliance model must be adhered to. You can find these specifications in the installation instructions for the PowerVent-02[®].
- If a discharge pipe is routed through the ground, it must be wrapped by a jacketed pipe that is continuously heatresistant up to 200°C and watertight. The whole setup must be routed with a downward slope (1cm/m) toward the inside and a condensation trap must be installed, even if this is not specified in table 3. There must not be any points from which condensation cannot be drained off.





- Measurement points at least two times the pipe diameter above the flue spigot
- **) Please see the respective installation instructions for the appliance for the minimum approach distance
- ***) The maximum horizontal length of 200/150/100 is 50cm + adaptor. The maximum permissible horizontal length (please see installation instructions for the appliance) of Ø200/130 is 1.50m shorter in this case.

- The roof duct can be extended over the roof up to a total height of 1.50m beyond the last support; anchoring may be necessary. Height over the roof in compliance with country-specific regulations.
- The measurement opening must be positioned approx. 2D (2x pipe diameter) over the fireplace as per DIN 18160. To ensure trouble-free access, it is useful to position this at the height of the convection-air grille. The exact position of the inspection and measurement openings must be agreed upon in advance with the BSM.

DRU LAS ES-E 200/150/100, GLOSS SST VERTICALLY AT THE OUTER WALL THROUGH A ROOF OVERHANG (C31) FOR AN APPLIANCE WITH FLUE SPIGOT Ø200/130

| Vertically along the outer wall through a roof overhang (C31) for an appliance with flue spigot Ø200/130 | | | | |
|--|---|-------------|-------------------|------------|
| | | ltem number | Working length (m | |
| ltem | Parts | DRU | Vertical | Horizontal |
| 1 | Minimum approach distance, e.g.: | | | |
| | - 1.0m Pipe SST Ø200/130 1000mm | 62851 | 0.95 | - |
| 2 | - T-piece SST \emptyset 200/130 L=270, for inspection, with 2 sampling points | 62856 | 0.13 | 0.14 |
| 3 | - Adaptor SST Ø200/130 to Ø150/100 | 62858 | - | 0.09 |
| 4 | - Adaptor SST from Ø150/100 to insulated system Ø200/150/100 | 24408 | - | 0.12 |
| 5 | - Rosette SST Ø200, 330x330 | 24409 | - | - |
| | Please note: Order two sets, one for the inside and one for the outside. | | | |
| 6 | - Pipe SST Ø200/150/100, insulated, 500mm | 24414 | - | 0.45 |
| 7 | - T-piece SST Ø200/150/100, insulated | 24410 | 0.30 | 0.15 |
| 8 | - T-piece SST Ø200/150/100, for inspection purposes, insulated | 24423 | 0.30 | - |
| 9 | - Wall support SST for Ø200/150/100, adjustable 130-180mm | 24411 | 0.20 | - |
| 10 | - Condensation trap SST Ø200/150/100, insulated | 24412 | 0.14 | - |
| 11 | - Pipe SST Ø200/150/100, insulated, 1000mm | 24413 | 0.95 | - |
| | Optional | | | |
| | - Pipe SST Ø200/150/100, insulated, 500mm | 24414 | 0.45 | _ |
| | - Pipe SST Ø200/150/100, insulated, 250mm | 24424 | 0.20 | - |
| 12 | - Wall mounting bracket SST Ø200, adjustable 30-80mm | 24420 | _ | - |
| 13 | - Roof support SST Ø200 | 24417 | - | - |
| 14 | Universal tile, lead free, 25°-55°, Ø200 | 24490 | - | - |
| | | | | |
| | Please note: Must be ordered with the following: | 0.4.407 | | |
| | - Storm collar SST Ø200 | 24427 | - | - |
| 15 | - Storm collar SST Ø200 | 24427 | - | - |
| 16 | - Roof terminal cap SST Ø200/150/100 | 24419 | 0.28 | - |

- The chimney load must be absorbed by a wall support (on the bottom of the system) and wall mounting brackets (every 2m). The gas fireplace must not be subjected to static load. This must be ensured by other measures, if necessary, if brackets are not feasible.
- Installation of locking bands in the masonry is permissible.
- Clearance to combustible building materials = 0cm.





- Measurement points at least two times the pipe diameter above the flue spigot
- **) This example is not possible for every appliance with a flue spigot Ø200/130. Please see the respective installation instructions for the appliance with regard to the following:
 - Minimum approach distance
 - Maximum permissible horizontal length from pipe Ø200/130 or Ø200/150/100
- ***) The clearance Hm to roof overhangs up to 50cm is always at least 50cm. For larger roof overhangs, this clearance must be increased proportionally.
- The measurement opening must be positioned approx. 2D (2x pipe diameter) over the fireplace as per DIN 18160. To ensure trouble-free access, it is useful to position this at the height of the convection-air grille. The exact position of the inspection and measurement openings must be agreed upon in advance with the BSM.
- The chimney load must be absorbed by wall mounting brackets. These are recommended every 2m. The gas fireplace must not be subjected to static load. This must be ensured by other measures, if necessary, if brackets are not feasible.

DRU LAS ES-E 200/150/100, GLOSS SST THROUGH THE WALL (C11) FOR AN APPLIANCE WITH FLUE SPIGOT Ø200/130

| Throu | Through the wall (C31) for an appliance with flue spigot Ø200/130 | | | | |
|-------|---|-------------|--------------------|--------------------|--|
| | | ltem number | Working length (m) | | |
| ltem | Parts | DRU | Vertical | Horizontal | |
| 1 | Minimum approach distance (depending on appliance-specific and horizontal distances): | | | | |
| | - 0.5m Pipe SST Ø200/130 500mm, adjustable | 62852 | 0.45 | - | |
| | - 0.8m Pipe SST Ø200/130 500mm, adjustable (2x) | 62852 | 0.80 | - | |
| | - 1.0m Pipe SST Ø200/130 1000mm | 62851 | 0.95 | - | |
| 2 | - T-piece SST Ø200/130 L=270, for inspection, with 2 sampling points | 62856 | 0.13 | 0.14 | |
| 3 | - Adaptor SST Ø200/130 to Ø150/100 | 62858 | - | 0.09 | |
| 4 | - Adaptor SST from Ø150/100 to insulated system Ø200/150/100 | 24408 | - | 0.12 | |
| 5 | - Wall terminal SST Ø200/150/100, telescopic 300-450mm, insulated | 24425 | - | 0.30 to 0.45 | |

- The C11 design is must be agreed upon in advance with the appropriate BSM, because country-specific regulations must be complied with.
- Installation of locking bands in the masonry is permissible.
- Clearance to combustible building materials = 0cm.



- Measurement points at least two times the pipe diameter above the flue spigot
- **) Please see the respective installation instructions for the appliance for the minimum approach distance

- The roof duct can be extended over the roof up to a total height of 1.50m beyond the last support; anchoring may be necessary. Height over the roof in compliance with country-specific regulations.
- The measurement opening must be positioned approx. 2D (2x pipe diameter) over the fireplace as per DIN 18160. To ensure trouble-free access, it is useful to position this at the height of the convection-air grille. The exact position of the inspection and measurement openings must be agreed upon in advance with the BSM.

DRU LAS ES-E 200/150/100, GLOSS SST VERTICAL THROUGH A FLAT ROOF WITH COMBUSTIBLE BUILDING MATERIALS (C31) FOR AN APPLIANCE WITH FLUE SPIGOT Ø200/130

| Through a flat roof (C31) with combustible building materials for an appliance with flue spigot Ø200/130 | | | | |
|--|--|---------------------------|----------------------|--|
| ltem | Parts | Item number DRU | Working length (m) | |
| 1 | - Pipe SST Ø200/130 1000mm | 62851 | 0.95 | |
| 2 | - Adaptor SST Ø200/130 to Ø150/100 | 62858 | 0.09 | |
| 3 | - T-piece SST Ø150/100 L=270, for inspection, with 2 sampling points | 62859 | 0.23 | |
| 4 | - Adaptor SST from Ø150/100 to insulated system Ø200/150/100 | 24408 | 0.12 | |
| 5 | Flat roof-ceiling connection element SST Ø200/150/100, L=200, insulated Please note: Must be ordered with the following: Flat roof tile, 0°, aluminium unpainted, 625x625 Storm collar SST Ø200 | 24421 24429 24427 | 0.20 - - | |
| 6 | - Flat roof tile, 0°, aluminium unpainted, 625x625/Ø200 | 24429 | - | |
| 7 | - Storm collar SST Ø200 | 24427 | - | |
| 8 | - Pipe SST Ø200/150/100, insulated, 1000mm Optional - Pipe SST Ø200/150/100, insulated, 500mm - Pipe SST Ø200/150/100, insulated, 250mm | 24413 24414 24424 | 0.95 0.45 0.20 | |
| 9 | - Roof terminal cap SST Ø200/150/100 | 24419 | 0.28 | |

- The chimney load must be absorbed by wall mounting brackets. These are recommended every 2m. The gas fireplace must not be subjected to static load. This must be ensured by other measures, if necessary, if brackets are not feasible.
- Clearance to combustible building materials = 0cm.





- Measurement points at least two times the pipe diameter above the flue spigot
- **) Please see the respective installation instructions for the appliance for the minimum approach distance

- The roof duct can be extended over the roof up to a total height of 1.50m beyond the last support; anchoring may be necessary. Height over the roof in compliance with country-specific regulations.
- The measurement opening must be positioned approx. 2D (2x pipe diameter) over the fireplace as per DIN 18160. To ensure trouble-free access, it is useful to position this at the height of the convection-air grille. The exact position of the inspection and measurement openings must be agreed upon in advance with the BSM.

DRU LAS ES-E 200/150/100, GLOSS SST VERTICAL THROUGH THE CEILING AND PITCHED ROOF (C31) FOR AN APPLIANCE WITH FLUE SPIGOT Ø200/130

| Through the ceiling and pitched roof of 25° to 45° (C31) for an appliance with flue spigot Ø200/130 | | | | | |
|---|--|-------------|--------------------|--|--|
| | | Item number | | | |
| ltem | Parts | DRU | Working length (m) | | |
| 1 | - Pipe SST Ø200/130 1000mm | 62851 | 0.95 | | |
| 2 | - Adaptor SST Ø200/130 to Ø150/100 | 62858 | 0.09 | | |
| 3 | - T-piece SST Ø150/100 L=270, for inspection, with 2 sampling points | 62859 | 0.23 | | |
| 4 | - Adaptor SST from Ø150/100 to insulated system Ø200/150/100 | 24408 | 0.12 | | |
| 5 | - Pipe SST Ø200/150/100, insulated, 250mm | 24424 | 0.20 | | |
| 6 | Flat roof-ceiling connection element SST \emptyset 200/150/100, L=200, insulated | 24421 | 0.20 | | |
| 7 | - Pipe SST Ø200/150/100, insulated, 1000mm | 24413 | 0.95 | | |
| | Optional | | | | |
| | - Pipe SST Ø200/150/100, insulated, 500mm | 24414 | 0.45 | | |
| | - Pipe SST Ø200/150/100, insulated, 250mm | 24424 | 0.20 | | |
| 8 | - Roof support SST Ø200 | 24417 | - | | |
| 9 | - Universal tile, lead free, 25°-55°, Ø200 | 24490 | - | | |
| | Please note: Must be ordered with the following: | | | | |
| | - Storm collar SST Ø200 | 24427 | - | | |
| 10 | - Storm collar SST Ø200 | 24427 | - | | |
| 11 | - Roof terminal cap SST Ø200/150/100 | 24419 | 0.28 | | |

- The chimney load must be absorbed by wall mounting brackets. These are recommended every 2m. The gas fireplace must not be subjected to static load. This must be ensured by other measures, if necessary, if brackets are not feasible. The chimney load via the ceiling is absorbed by the wall and ceiling ducts.
- Clearance to combustible building materials = 0cm.

INSTALLATION INFORMATION



SHORTENING AN ADJUSTABLE PIPE







OFFSET TABLES 90° DRU LAS ES-I 150/100, DRU LAS ES-I 200/130, DRU PV-I 100/60

| | ribbed bend | segmented bend | smooth bend |
|--------|--|--|--|
| 0 | | | |
| | A B 100/60 - - 150/100 400 400 200/130 505 495 200/150/100 - - | A B 100/60 - - 150/100 300 300 200/130 400 400 200/150/100 - - | A B 100/60 170 185 150/100 390 390 200/130 - - 200/150/100 - - |
| 50 cm | | | |
| 2 | AB100/60-150/100850400200/130955200/150/100- | AB100/60-150/100750300200/130845200/150/100- | AB100/60630185150/100840390200/130200/150/100 |
| E | | | |
| 100 cm | A B 100/60 - 150/100 1350 200/130 1445 200/150/100 - | A B 100/60 - 150/100 1250 200/130 1345 200/150/100 - | A B 100/60 1130 185 150/100 1340 390 200/130 - - 200/150/100 - - 38C-2365A/0 - - |

OFFSET TABLES 45° DRU LAS ES-I 150/100, DRU LAS ES-I 200/130, DRU PV-I 100/60

| | ribbed bend | segmented bend | smooth bend |
|--------|--|--|--|
| 0 | A A | | |
| | AB100/60-150/100155390200/130190200/150/100- | AB100/60-150/100120200/130195200/150/100170425 | AB100/6070200150/100120285200/130200/150/100 |
| 50 cm | A B 100/60 - 150/100 475 200/130 495 200/150/100 - | A B 100/60 - 150/100 435 605 200/130 515 785 200/150/100 490 745 | A B 100/60 370 490 150/100 440 605 200/130 - - 200/150/100 - - |
| 100 cm | A B 100/60 - 150/100 825 1060 200/130 835 1160 200/150/100 - - | A B 100/60 - 150/100 785 955 200/130 865 1135 200/150/100 840 1100 | A B 100/60 715 955 150/100 790 960 200/130 - - 200/150/100 - - 38C-2365B/0 - - |

OFFSET TABLES 30° DRU LAS ES-I 150/100, DRU LAS ES-I 200/130, DRU PV-I 100/60

| | ribbed bend | segmented bend | smooth bend |
|--------|---|---|------------------------------|
| 0 | A A 100/60 85 320 | A 100/60 - - | |
| | 150/100 90 335 200/130 110 410 200/150/100 - - | 150/10085310200/130110415200/150/100110420 | not available |
| 50 cm | A B 100/60 310 710 150/100 315 725 200/130 335 800 200/150/100 - - | A B 100/60 - 150/100 310 700 200/130 335 800 200/150/100 335 810 | not available |
| 100 cm | A B 100/60 560 1145 150/100 565 1160 200/130 580 1230 200/150/100 - - | A B 100/60 - 150/100 560 1135 200/130 585 1235 200/150/100 585 1245 | not available 38C-2365C/0 |

OFFSET TABLES 15° DRU LAS ES-I 150/100, DRU LAS ES-I 200/130, DRU PV-I 100/60

| | ribbed bend | segmented bend | smooth bend |
|--------|---|--|------------------------------|
| 0 | | | |
| | 100/60 30 280 150/100 35 275 200/130 45 345 200/150/100 - - | 100/60 - 150/100 45 330 200/130 45 355 200/150/100 - - | not available |
| 50 cm | B | | |
| | AB100/60150710150/100150710200/130160785200/150/100 | AB100/60-150/100160765200/130165200/150/100- | not available |
| 100 cm | | | |
| | AB100/602801195150/1002801195200/1302901260200/150/100 | AB100/60-150/100290200/130290200/150/100- | not available 38C-2365D/0 |

DRU SERVICE WEBSITE

We would be happy to refer you to our technical website. A website containing comprehensive technical specifications on all of the products from DRU. Websites is available in several languages:

- www.druservice.co.uk, for all business partners in United Kingdom (language: English)
- www.druservice.com, for all other business partners (languages: German-English-French)

Our Service website is geared toward professional users. Comprehensive information can be found using the different menus, including the following:

- Fireplaces and stoves
 - o Item numbers
 - o Drawings
 - o Operating instructions
 - o Installation instructions
 - (Video Assist and My Flue Assist)
 - o Technical specifications
- Spare parts lists
- Accessories
- Materials on flue gas
- Marketing documents (documentation, ad materials), media library

Furthermore, orders can be placed from the Service website and information regarding prices and delivery times can be accessed. Please contact your supplier's customer service department to request an account.

We are confident that our Service website will optimally help you prepare for and install DRU gas fireplaces.



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DRU

The Netherlands United Kingdom Belgium

DRU Verwarming B.V. P.O. Box 1021 | 6920 BA Duiven Ratio 8 | 6921 RW Duiven The Netherlands T. +31 (0)26 - 319 5 319 www.dru.nl

Manchester | M27 0JH United Kingdom T. +44 (0)161 - 793 8700 www.drufire.co.uk

DRU : Member of the Spartherm-Group





ww.drufire.com

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