

Flue gas line systems
Gas hot water boiler



DN80 to TopGas® comfort, combi, classic (12-45)

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■ Description

Flue gas system Type E80 PP

- Air supply and flue gas system in precast construction method for quick installation.
- Specially suited to oil and gas fired condensing systems.
- 80 mm diameter PP pipe for flue gas with practical plug-in sleeve connection with Viton sealing ring for joining the individual system components.
- PP: permanent temperature resistance up to 120 °C.
- All long elements can be shortened. The cut edges must be smoothed to avoid damage to sealing.

Concentric supply air / flue gas system LAS Type C80/125 PP

- Air supply and flue gas system in precast construction method for quick installation.
- Specially suited to oil and gas fired condensing systems.
- 80 mm diameter PP pipe for flue gas concentrically mounted in the supply pipe with practical plug-in sleeve connection with Viton sealing ring for joining the individual system components.
- PP: permanent temperature resistance up to 120 °C.
- Concentrically mounted supply air pipe with 125 mm diameter made of steel, white lacquer (RAL 9016).
- System components to be joined using plug-in connectors with sealing ring and clamp tape.
- For ambient air independent operation.

Flexible flue gas system Type E80 Flex PP

- Flexible flue gas system in precast construction method for quick installation.
- Specially suited to oil and gas fired condensing systems.
- The system can be installed in existing angled shafts without the need for extra masonry work.
- Flexible PP flue pipe with internal diameter D = 80 mm with double walls to prevent damage during installation and to reduce the flow resistance on the flue gas side.
- PP: permanent temperature resistance up to 120 °C.

Assembly kits

The installation kits contain all the components shown in the drawings. All other components such as length elements, form pieces and fixing components must be ordered separately.

The gas outlet shown in the drawing is intended as an example of a possible installation. In practice the configuration must be adapted to the individual situation, taking account of local regulations.

Individual parts

A detailed list of all the parts used in the flue pipe systems and construction sets can be found in the section following the assembly kits.

Hoval flue gas system in shaft

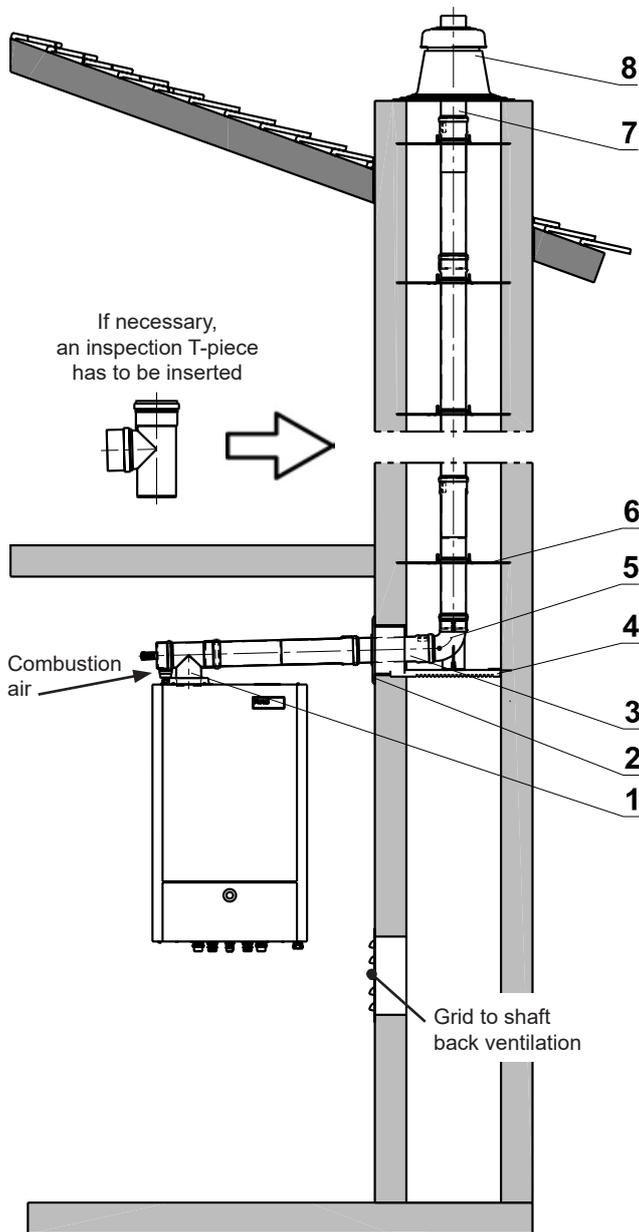
to TopGas® TopGas® comfort, combi, classic (12-30)
E80 PP, Ø 80 mm Plastic PP

Hoval

■ Part No.

Room air dependent operation

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Assembly kit TG K1 E80 PP to TopGas® comfort, combi, classic (12-30):

Part No.

6007 983

consisting of parts:

- | | | |
|---|---|----------|
| 1 | T-piece with measure opening E80 - 90° PP | 2001 457 |
| 2 | Duct E80
Wall plate 220 x 220 mm with seal ring and casing tube Ø 150 mm, L = 300 mm | 2001 466 |
| 3 | Length element E80 L = 450 mm PP | 2001 447 |
| 4 | Bearing rail E
Flue gas tube support in shaft | 619 303 |
| 5 | Support arch E80 - 90° PP | 2001 455 |
| 6 | Set (2 pieces) distant holder E80 of polypropylene for tube centering in shaft; 3 sets | 2001 462 |
| 7 | End tube E80 L = 500 mm to top E80 High grade steel | 2001 465 |
| 8 | Top part E80 for chimney end for back ventilation with shaft cover 400 x 400 mm, clamp tape and seal ring | 2001 464 |

Additional parts to be ordered if necessary:

- | | | |
|-------------------------------|--|----------|
| Length element | E80 L = 450 mm | 2001 447 |
| | E80 L = 950 mm | 2001 448 |
| | E80 L = 1950 mm | 2001 449 |
| Inspection T-piece | E80-90° | 2001 458 |
| Pipe clip for wall mounting | E80 | 618 749 |
| Set (2 pieces) distant holder | E80 of polypropylene for tube centering in shaft | 2001 462 |
| Viton seal ring | Ø 80 mm to flue gas tube PP | 2018 530 |

Further components see section following the assembly kits.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

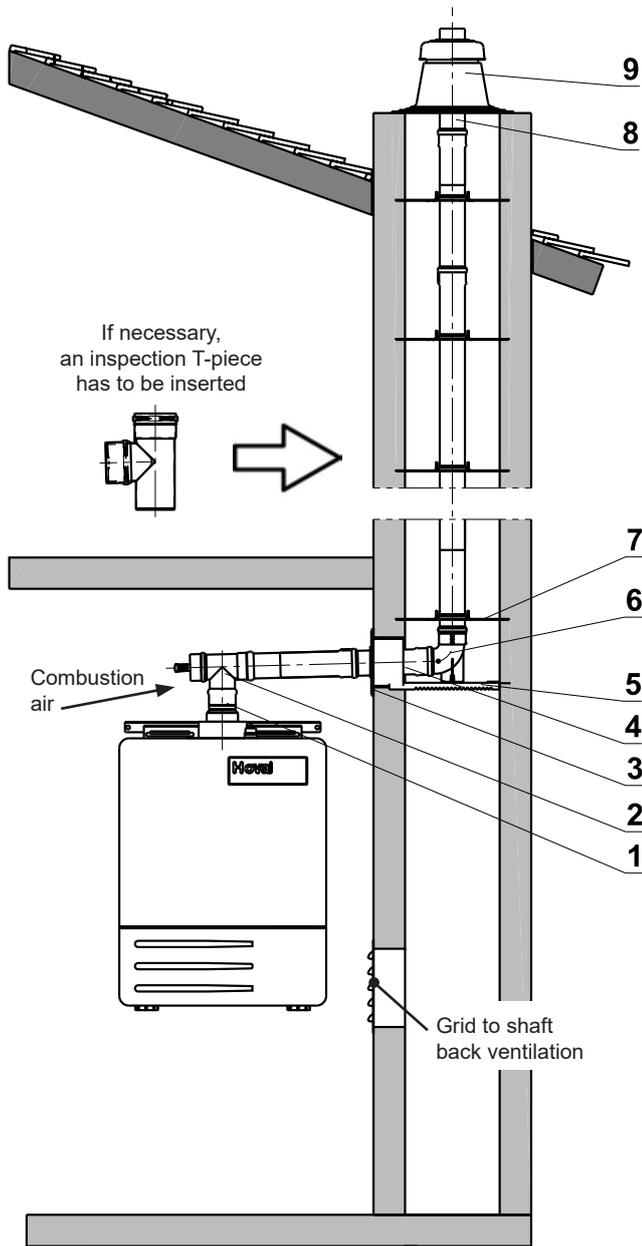
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must be ordered separately, see individual parts

■ Part No.

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Part No.

Example TG K1 E80 PP to TopGas® classic (35,45):

1	Reducing part E100 PP -> E80 PP	2015 245
2	T-piece with measure opening E80 - 90° PP	2001 457
3	Duct E80 Wall plate 220 x 220 mm with seal ring and casing tube Ø 150 mm, L = 300 mm	2001 466
4	Length element E80 L = 450 mm PP	2001 447
5	Bearing rail E Flue gas tube support in shaft	619 303
6	Support arch E80 - 90° PP	2001 455
7	Set (2 pieces) distant holder E80 of polypropylene for tube centering in shaft; 3 sets	2001 462
8	End tube E80 L = 500 mm to top E80 High grade steel	2001 465
9	Top part E80 for chimney end for back ventilation with shaft cover 400 x 400 mm, clamp tape and seal ring	2001 464

Additional parts to be ordered if necessary:

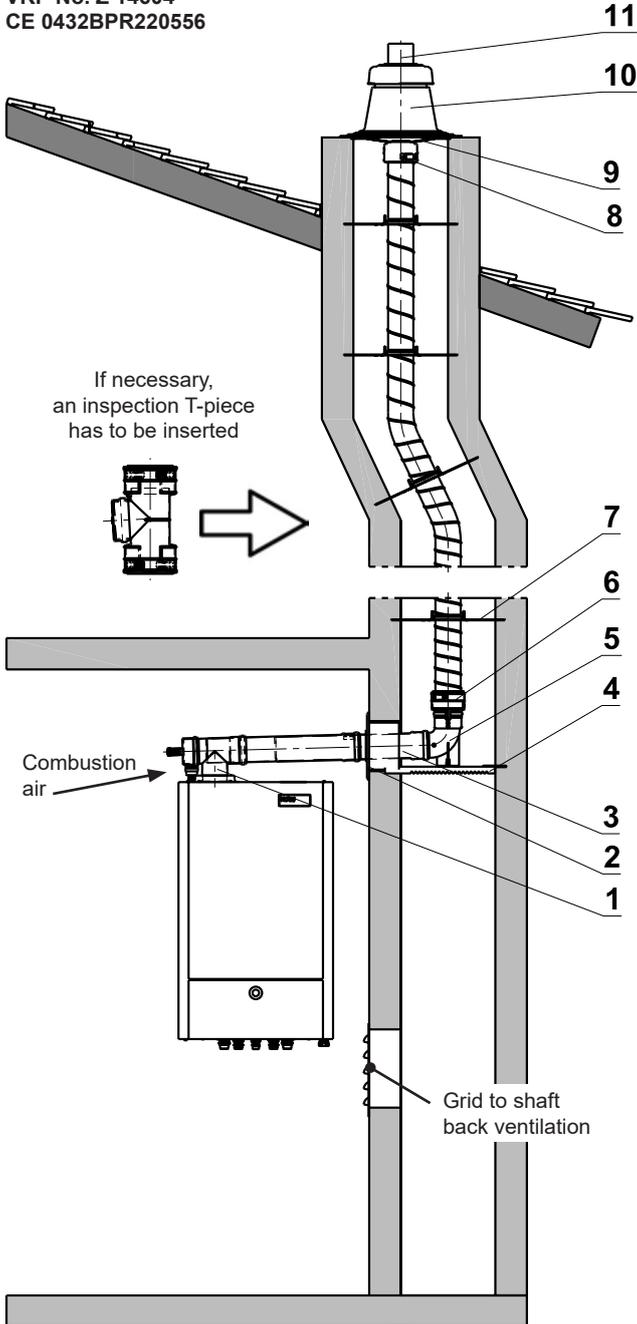
Length element	E80 L = 450 mm	2001 447
	E80 L = 950 mm	2001 448
	E80 L = 1950 mm	2001 449
Supply air grille E100 PP incl. pipe, L = 115 mm		2004 168
Inspection T-piece E80-90°		2001 458
Pipe clip for wall mounting E80		618 749
Set (2 pieces) distant holder E80 of polypropylene for tube centering in shaft		2001 462
Viton seal ring Ø 80 mm to flue gas tube PP		2018 530

Further components see section following the assembly kits.

■ **Part No.**

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Part No.

Example TG K1 E80 Flex PP to TopGas® comfort, combi, classic (12-30):

1	T-piece with measure opening E80 - 90° PP	2001 457
2	Duct E80 Wall plate 220 x 220 mm with seal ring and casing tube Ø 150 mm, L = 300 mm	2001 466
3	Length element E80 L = 450 mm PP	2001 447
4	Bearing rail E Flue gas tube support in shaft	619 303
5	Support arch E80 - 90° PP	2001 455
6	Connection piece below E80 Flex PP	2008 126
7	Distant holder E80 Flex PP; 1 piece, a distant holder must be used at least every 2 metres	2008 138
8	Mouth connection piece E80 Flex PP	2008 124
9	Assembly cross E80 Flex PP, High grade steel	2008 125
10	Top part E80 for chimney end for back ventilation with shaft cover 400 x 400 mm, clamp tape and seal ring	2001 464
11	End tube E80 L=500 mm to top E80 High grade steel	2001 465

Additional parts to be ordered if necessary:

Length element	E80 L = 450 mm	2001 447
	E80 L = 950 mm	2001 448
	E80 L = 1950 mm	2001 449
Inspection T-piece	80 Flex PP	2008 127
Pipe clip for wall mounting	E80	618 749
Viton seal ring	Ø 80 mm to flue gas tube PP	2018 530

Wave tube	E80 Flex PP	2008 131
Price per metre		
Distant holder	E80 Flex PP, 1 piece	2008 138
Viton seal ring	E80 Flex PP	2008 130

Further components see section following the assembly kits.

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The connection situation and the dimensions are shown on chapter "Dimensions".

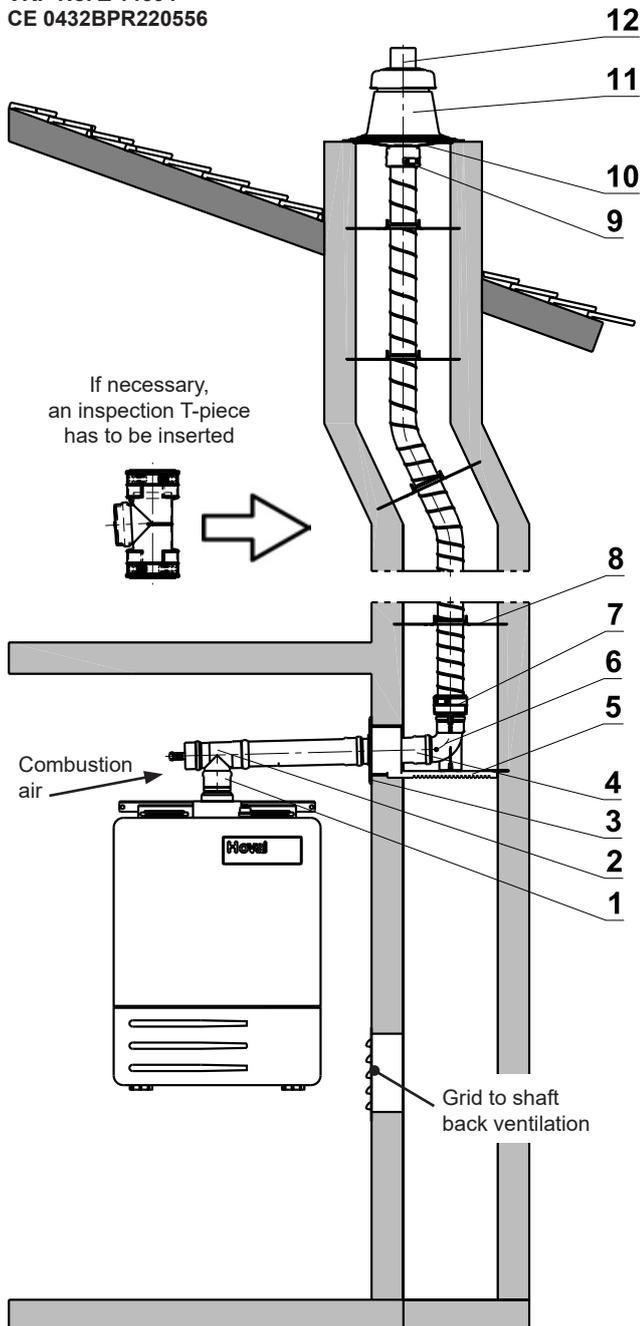
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must be ordered separately, see individual parts

■ Part No.

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The connection situation and the dimensions are shown on chapter "Dimensions".

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must be ordered separately, see individual parts

Part No.

Example TG K1 E80 Flex PP to TopGas® classic (35,45):

1	Reducing part E100 PP -> E80 PP	2015 245
2	T-piece with measure opening E80 - 90° PP	2001 457
3	Duct E80 Wall plate 220 x 220 mm with seal ring and casing tube Ø 150 mm, L = 300 mm	2001 466
4	Length element E80 L = 450 mm PP	2001 447
5	Bearing rail E Flue gas tube support in shaft	619 303
6	Support arch E80 - 90° PP	2001 455
7	Connection piece below E80 Flex PP	2008 126
8	Distant holder E80 Flex PP; 1 piece, a distant holder must be used at least every 2 metres	2008 138
9	Mouth connection piece E80 Flex PP	2008 124
10	Assembly cross E80 Flex PP, High grade steel	2008 125
11	Top part E80 for chimney end for back ventilation with shaft cover 400 x 400 mm, clamp tape and seal ring	2001 464
12	End tube E80 L = 500 mm to top E80 High grade steel	2001 465

Additional parts to be ordered if necessary:

Length element	E80 L = 450 mm	2001 447
	E80 L = 950 mm	2001 448
	E80 L = 1950 mm	2001 449
Supply air grille E100 PP incl. tube, L = 115 mm		2004 168
Inspection T-piece 80 Flex PP		2008 127
Pipe clip for wall mounting E80		618 749
Viton seal ring Ø 80 mm to flue gas tube PP		2018 530

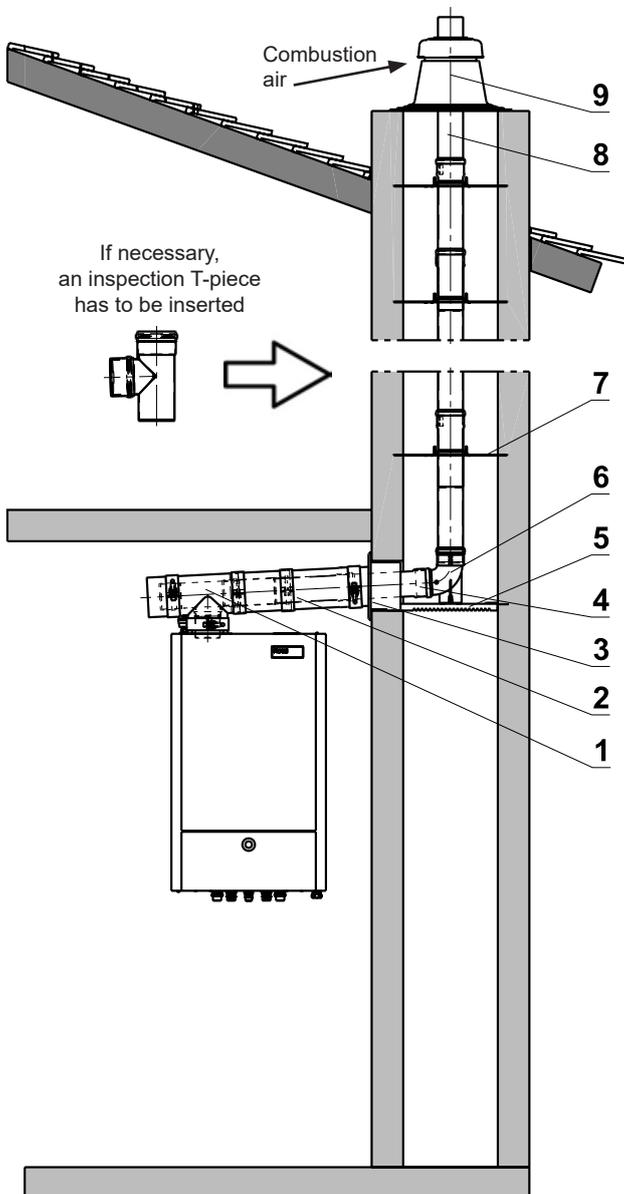
Wave tube E80 Flex PP Price per metre	2008 131
Distant holder E80 Flex PP, 1 piece	2008 138
Viton seal ring E80 Flex PP	2008 130

Further components see section following the assembly kits.

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The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker

must be ordered separately, see individual parts

Part No.

Assembly kit TG K1 C80/125 PP to TopGas® comfort, combi, classic (12-30)

6007 988

consisting of parts:

1	Inspection T-piece with measure opening C80/125 PP	2010 165
2	Length adjustment piece C80/125 L = 515-440 mm	2010 159
3	Duct C80/125 Wall plate with splice 220 x 220 mm and casing tube Ø 150 mm, L = 300 mm	618 737
4	Length element E80 L = 450 mm PP	2001 447
5	Bearing rail E Flue gas tube support in shaft	619 303
6	Support arch E80 – 90° PP	2001 455
7	Garnitur (2 pieces) distant holder E80 of Polypropylene for tube centering in shaft; 3 sets	2001 462
8	End tube E80 L = 500 mm to top E80 High grade steel	2001 465
9	Top part 80 for chimney end for back ventilation with shaft cover 400 x 400 mm, clamp tape and seal ring	2001 464

Additional parts to be ordered if necessary:

Length element	C80/125 L = 200 mm	2010 154
	C80/125 L = 450 mm	2010 155
	C80/125 L = 950 mm	2010 156
	C80/125 L = 1950 mm	2010 157

Inspection T-piece E80-90° 2001 458

Pipe clip for wall mounting C125 618 736

Clamp tape D = 125 mm with integrated seal ring 618 758

Length element	E80 L = 450 mm	2001 447
	E80 L = 950 mm	2001 448
	E80 L = 1950 mm	2001 449

Set (2 pieces) distant holder E80 of polypropylene for tube centering in shaft 2001 462

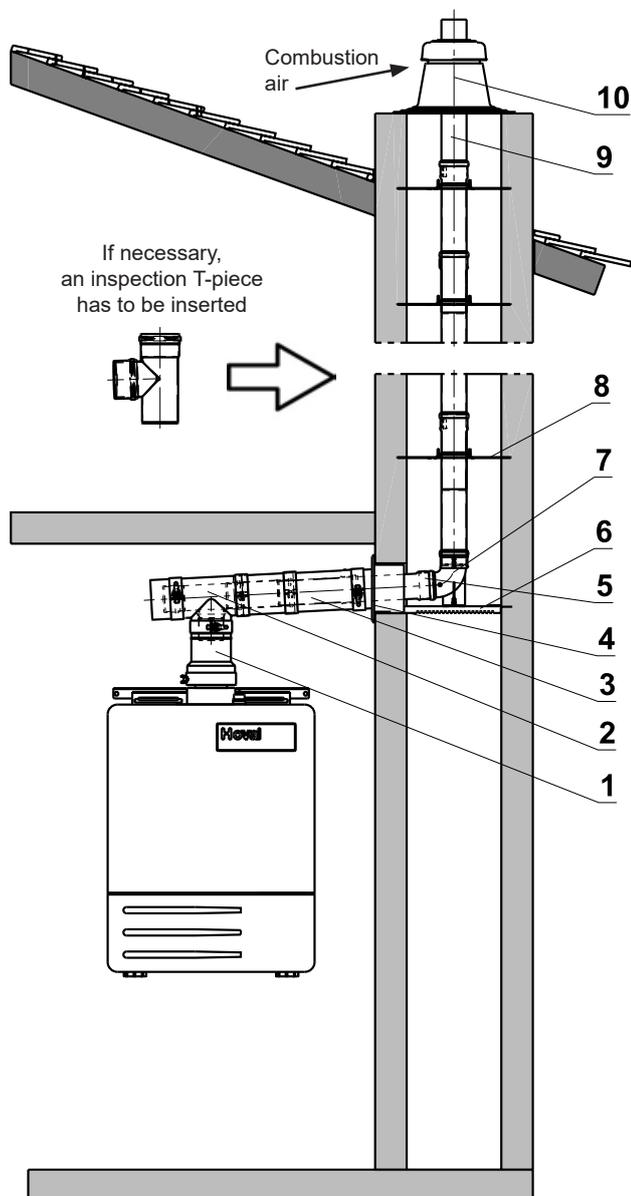
Viton seal ring Ø 80 mm to flue gas tube PP 2018 530

Further components see section following the assembly kits.

■ Part No.

Room air independent operation

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This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

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must be ordered separately, see individual parts

Part No.

Example TG K1 C80/125 PP to TopGas® classic (35,45):

1	Concentric reducing part C100/150 -> C80/125 PP white coated	2025 334
2	Inspection T-piece with measure opening C80/125 PP	2010 165
3	Length adjustment piece C80/125 L = 515-440 mm	2010 159
4	Duct C80/125 Wall plate with splice 220 x 220 mm and casing tube Ø 150 mm, L = 300 mm	618 737
5	Length element E80 L = 450 mm PP	2001 447
6	Bearing rail E Flue gas tube support in shaft	619 303
7	Support arch E80 - 90° PP	2001 455
8	Garnitur (2 pieces) distant holder E80 of Polypropylene for tube centering in shaft; 3 sets	2001 462
9	End tube E80 L = 500 mm to top E80 High grade steel	2001 465
10	Top part 80 for chimney end for back ventilation with shaft cover 400 x 400 mm, clamp tape and seal ring	2001 464

Additional parts to be ordered if necessary:

Length element	C80/125 L = 200 mm	2010 154
	C80/125 L = 450 mm	2010 155
	C80/125 L = 950 mm	2010 156
	C80/125 L = 1950 mm	2010 157
Inspection T-piece E80-90°		2001 458
Pipe clip for wall mounting C125		618 736
Clamp tape D = 125 mm with integrated seal ring		618 758

Length element	E80 L = 450 mm	2001 447
	E80 L = 950 mm	2001 448
	E80 L = 1950 mm	2001 449

Set (2 pieces) distant holder E80 of polypropylene for tube centering in shaft 2001 462

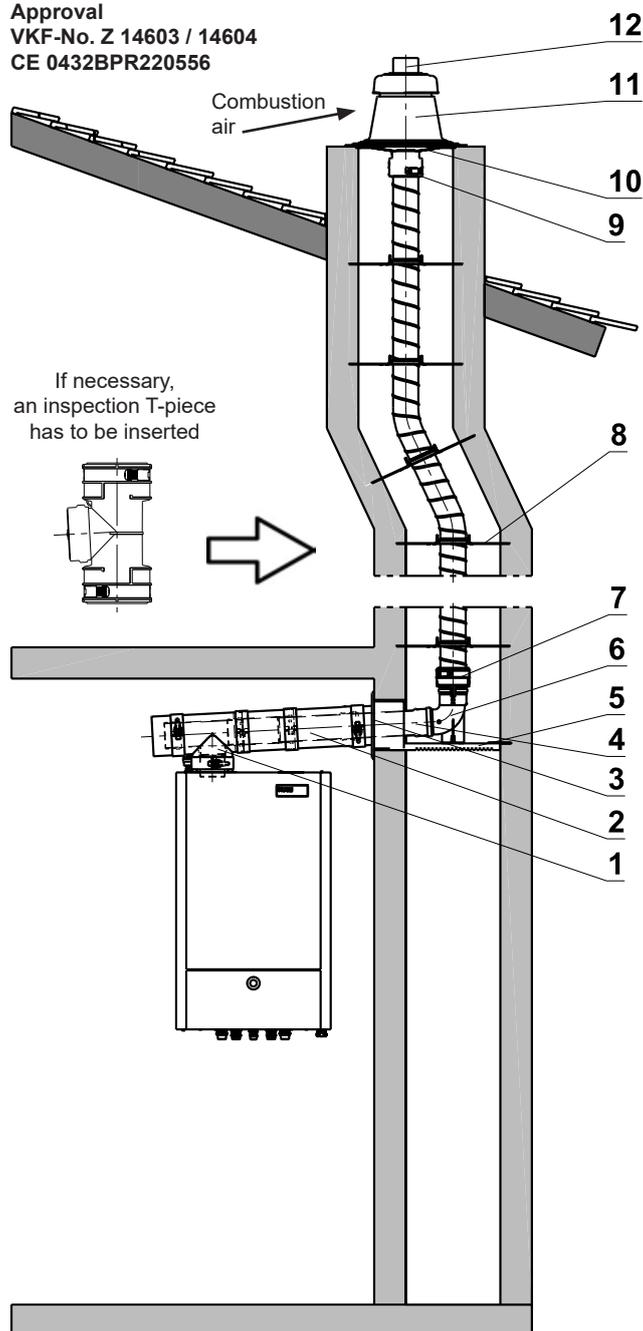
Viton seal ring Ø 80 mm to flue gas tube PP 2018 530

Further components see section following the assembly kits.

■ Part No.

Room air independent operation

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Assembly kit TG K1 C80/125 Flex PP to TopGas® comfort, combi, classic (12-30) consisting of parts:

Part No.

6007 990	Assembly kit TG K1 C80/125 Flex PP to TopGas® comfort, combi, classic (12-30)
2010 165	1 Inspection T-piece with measure opening C80/125 PP
2010 159	2 Length adjustment piece C80/125 L = 315-440 mm
618 737	3 Duct C80/125 Wall plate with splice 220 x 220 mm and casing tube Ø 150 mm, L = 300 mm
2001 447	4 Length element E80 L = 450 mm PP
619 303	5 Bearing rail E Flue gas tube support in shaft
2001 455	6 Support arch E80 – 90° PP
2008 126	7 Connection piece below E80 Flex PP
2008 138	8 Distant holder E80 Flex PP 3 Piece
2008 124	9 Mouth connection piece E80 Flex PP
2008 125	10 Assembly cross E80 Flex PP, High grade steel
2001 464	11 Top part E80 for chimney end for back ventilation with shaft cover 400 x 400 mm, clamp tape and seal ring
2001 465	12 End tube E80 L = 500 mm to top E80 PP High grade steel

Additional parts to be ordered if necessary:

Length element	C80/125 L = 200 mm	2010 154
	C80/125 L = 450 mm	2010 155
	C80/125 L = 950 mm	2010 156
	C80/125 L = 1950 mm	2010 157
Inspection T-piece	80 Flex PP	2008 127
Pipe clip for wall mounting	C125	618 736
Clamp tape D = 125 mm with integrated seal ring		618 758

Wave tube	E80 Flex PP	2008 131
Price per metre		
Distant holder	E80 Flex PP, 1 piece	2008 138
Viton seal ring	E80 Flex PP	2008 130

Further components see section following the assembly kits.

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The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

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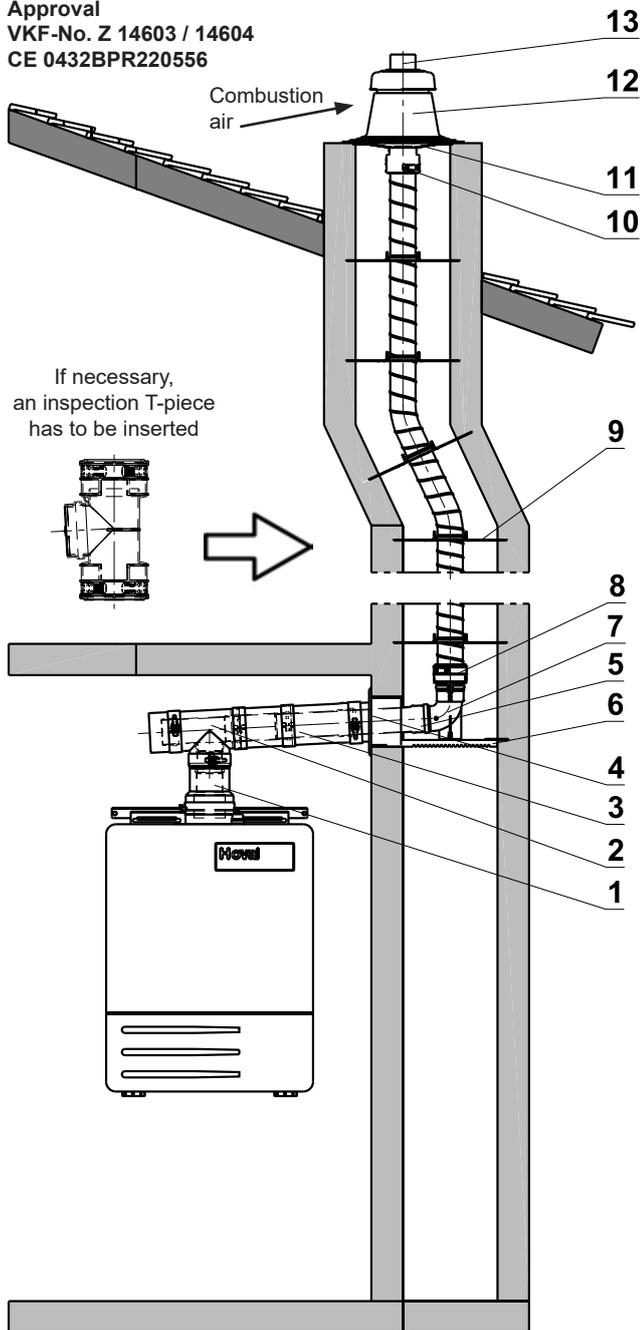
must be ordered separately, see individual parts

■ Part No.

Part No.

Room air independent operation

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Example TG K1 C80/125 Flex PP to TopGas® classic (35,45):

1	Concentric reducing part C100/150 -> C80/125 PP white coated	2025 334
2	Inspection T-piece with measure opening C80/125 PP	2010 165
3	Length adjustment piece C80/125 L = 315-440 mm	2010 159
4	Duct C80/125 Wall plate with splice 220 x 220 mm and casing tube Ø 150 mm, L = 300 mm	618 737
5	Length element E80 L = 450 mm PP	2001 447
6	Bearing rail E Flue gas tube support in shaft	619 303
7	Support arch E80 - 90° PP	2001 455
8	Connection piece below E80 Flex PP	2008 126
9	Distant holder E80 Flex PP 3 Piece	2008 138
10	Mouth connection piece E80 Flex PP	2008 124
11	Assembly cross E80 Flex PP, High grade steel	2008 125
12	Top part E80 for chimney end for back ventilation with shaft cover 400 x 400 mm, clamp tape and seal ring	2001 464
13	End tube E80 L = 500 mm to top E80 PP High grade steel	2001 465

Additional parts to be ordered if necessary:

Length element	C80/125 L = 200 mm	2010 154
	C80/125 L = 450 mm	2010 155
	C80/125 L = 950 mm	2010 156
	C80/125 L = 1950 mm	2010 157
Inspection T-piece	80 Flex PP	2008 127
Pipe clip for wall mounting	C125	618 736
Clamp tape D = 125 mm with integrated seal ring		618 758
Wave tube E80 Flex PP	Price per metre	2008 131
Distant holder E80 Flex PP, 1 piece		2008 138
Viton seal ring E80 Flex PP		2008 130

Further components see section following the assembly kits.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

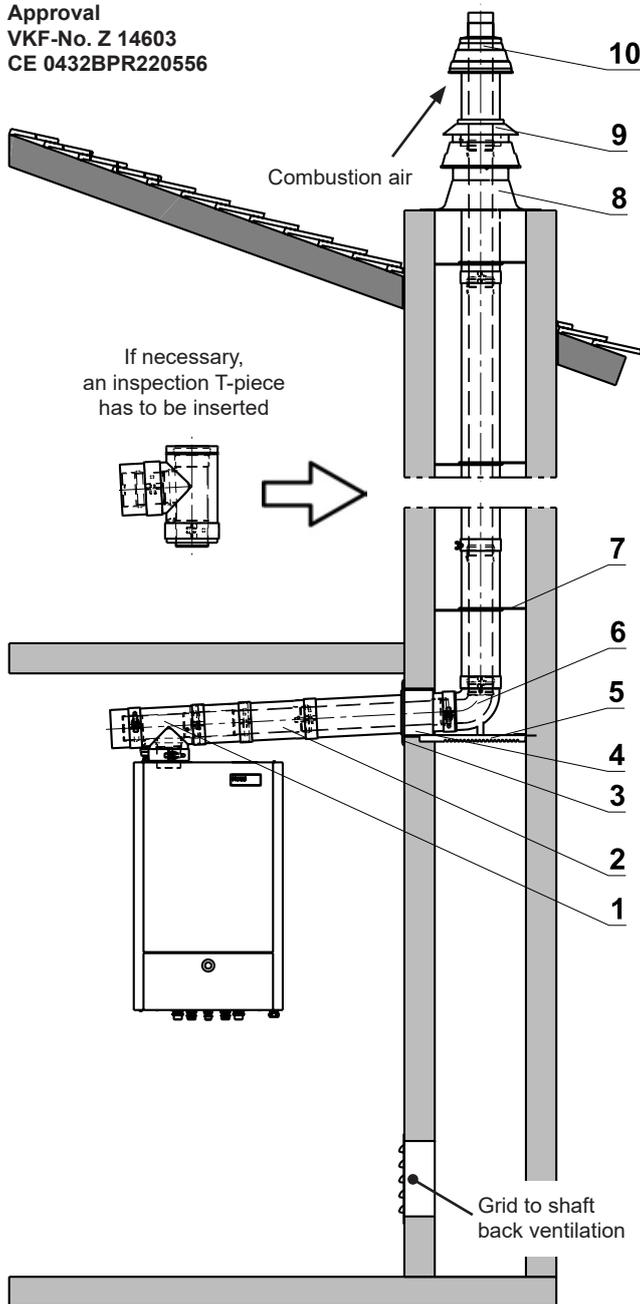
If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

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must be ordered separately, see individual parts

■ Part No.

Room air independent operation

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Example TG K-LAS1 C80/125 PP to TopGas® comfort, combi, classic (12-30):

	Part No.
1 Inspection T-piece with measure opening C80/125 PP	2010 165
2 Length adjustment piece C80/125 L = 315-440 mm	2010 159
3 Wall plate with seal to wall duct C80/125 220 x 220 mm	2029 322
4 Wall socket D = 150 mm, L = 300 mm to wall duct	2001 419
5 Bearing rail E Flue gas tube support in shaft	619 303
6 Support arch C80/125 - 90° PP	2018 526
7 Set (2 pieces) distant holder E130 of spring steel; a distant holder must be used at least every 2 metres	2010 495
8 Top part E130 for chimney end for back ventilation with shaft cover	2025 747
9 Rain keep-off rail D = 125 black (RAL 9005)	2018 554
10 LAS-mouth piece C80/125 PP Flue gas tube of High grade steel, white coated	2018 528

Additional parts to be ordered if necessary:

Length element C80/125 L = 200 mm	2010 154
C80/125 L = 450 mm	2010 155
C80/125 L = 950 mm	2010 156
C80/125 L = 1950 mm	2010 157
Inspection T-piece C80/125 PP	2010 164
Pipe clip for wall mounting C125	618 736
Clamp tape D = 125 mm with integrated seal ring	618 758
Set (2 pieces) distant holder E130 of spring steel	2010 495
Viton seal ring Ø 80 mm to flue gas tube PP	2018 530

Further components see section following the assembly kits.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

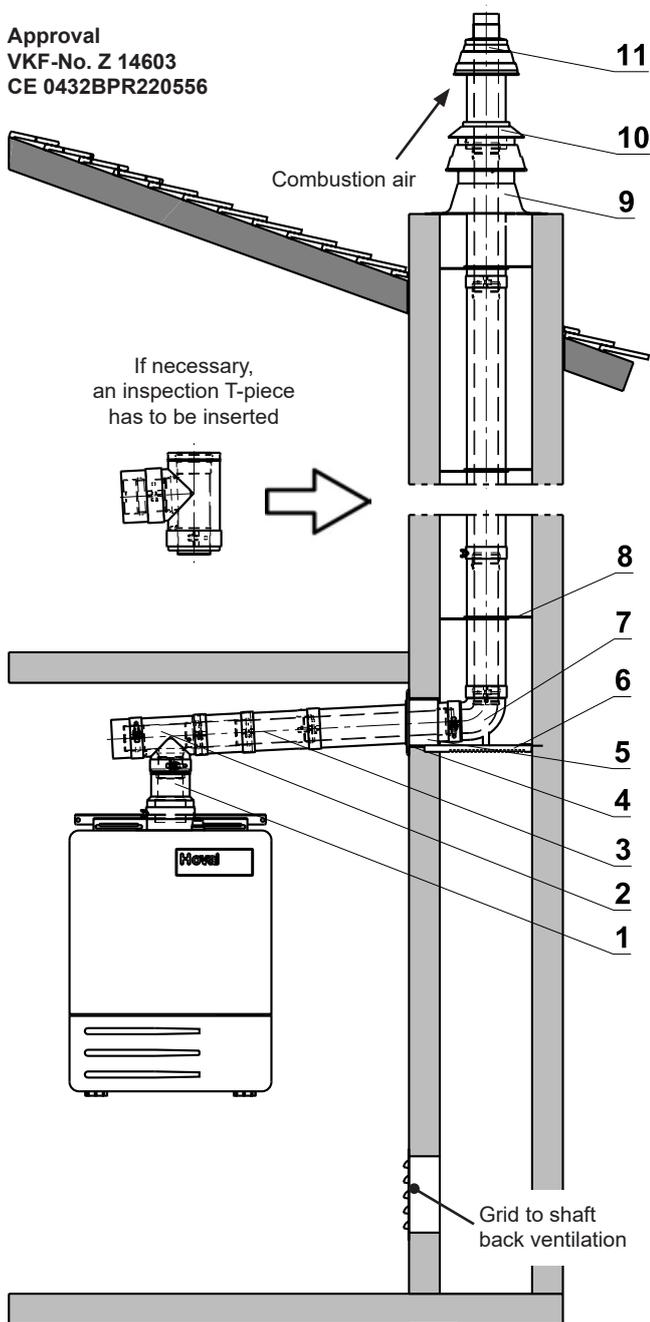
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must be ordered separately, see individual parts

■ Part No.

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The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker
must be ordered separately, see individual parts

Part No.

Example TG K-LAS1 C80/125 PP to TopGas® classic (35):

1	Concentric reducing part C100/150 -> C80/125 PP white coated	2025 334
2	Inspection T-piece with measure opening C80/125 PP	2010 165
3	Length adjustment piece C80/125 L = 315-440 mm	2010 159
4	Wall plate with seal to wall duct C80/125 220x220 mm	2029 322
5	Wall socket D = 150 mm, L = 300 mm to wall duct	2001 419
6	Bearing rail E Flue gas tube support in shaft	619 303
7	Support arch C80/125 - 90° PP	2018 526
8	Set (2 pieces) distant holder E130 of spring steel; a distant holder must be used at least every 2 metres	2010 495
9	Top part E130 for chimney end for back ventilation with shaft cover	2025 747
10	Rain keep-off rail D = 125 black (RAL 9005)	2018 554
11	LAS-mouth piece C80/125 PP Flue gas tube of High grade steel, white coated	2018 528

Additional parts to be ordered if necessary:

Length element	C80/125 L = 200 mm	2010 154
	C80/125 L = 450 mm	2010 155
	C80/125 L = 950 mm	2010 156
	C80/125 L = 1950 mm	2010 157

Inspection T-piece C80/125 PP 2010 164

Pipe clip for wall mounting C125 618 736

Clamp tape D = 125 mm with integrated seal ring 618 758

Set (2 pieces) distant holder E130 of spring steel 2010 495

Viton seal ring Ø 80 mm to flue gas tube PP 2018 530

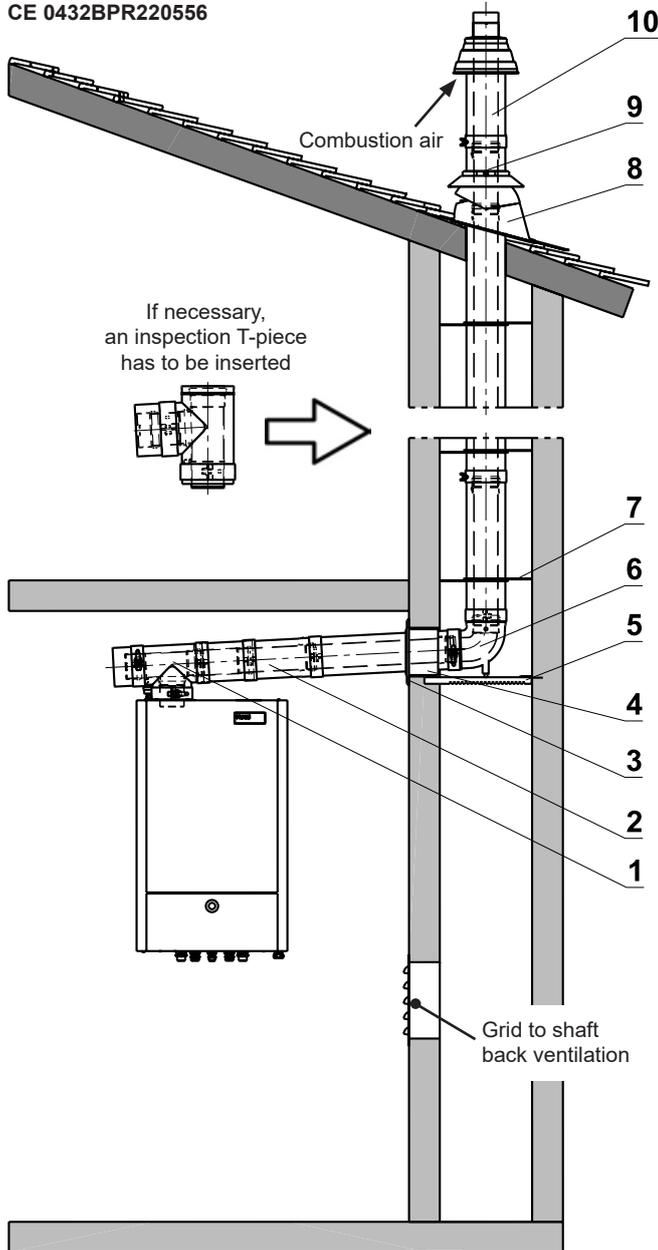
Further components see section following the assembly kits.

■ Part No.

Part No.

Room air independent operation

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CE 0432BPR220556



Example TG KD-LAS1 C80/125 PP black to TopGas® comfort, combi, classic (12-30):

1	Inspection T-piece with measure opening C80/125 PP	2010 165
2	Length adjustment piece C80/125 L = 315-440 mm	2010 159
3	Wall plate with seal to wall duct C80/125 220 x 220 mm	2029 322
4	Wall socket to wall duct D = 150 mm, L = 300 mm	2001 419
5	Bearing rail E Flue gas tube support in shaft	619 303
6	Support arch C80/125 - 90° PP	2018 526
7	Set (2 pieces) distant holder E130 of spring steel; a distant holder must be used at least every 2 metres	2010 495
8	Lead pan with bowl 80/125 for roof execution (gradient 25-55° adjustable), ground plate 500 x 500 mm	618 756
9	Rain keep-off rail black coated, (RAL 9005)	2018 554
10	LAS-mout piece C80/125 PP Flue gas tube PP of High grade steel, white steel	2018 528

Additional parts to be ordered if necessary:

Length element	C80/125 L = 200 mm	2010 154
	C80/125 L = 450 mm	2010 155
	C80/125 L = 950 mm	2010 156
	C80/125 L = 1950 mm	2010 157

Inspection T-piece C80/125 PP 2010 164

Pipe clip for wall mounting C125 618 736

Clamp tape D = 125 mm with integrated seal ring 618 758

Set (2 pieces) distant holder E130 of spring steel 2010 495

Viton seal ring Ø 80 mm to flue gas tube PP 2018 530

Further components see section following the assembly kits.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

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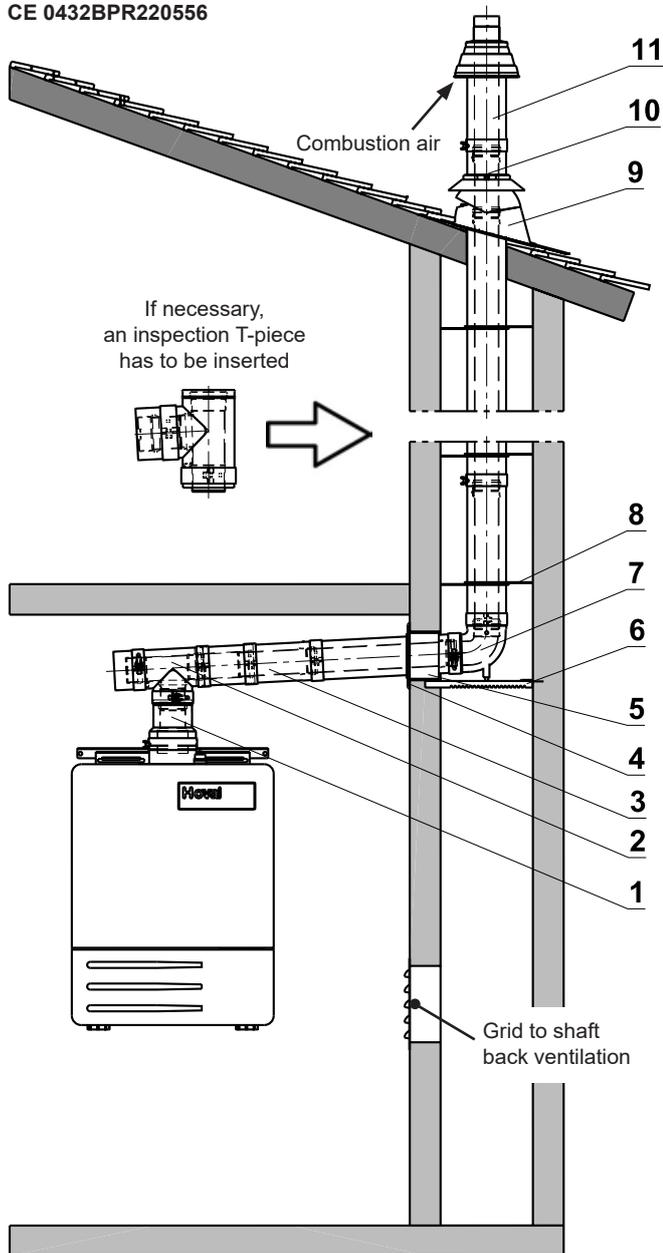
must be ordered separately, see individual parts

■ Part No.

Part No.

Room air independent operation

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Example TG KD-LAS1 C80/125 PP black to TopGas® classic (35):

1	Concentric reducing part C100/150 -> C80/125 PP white coated	2025 334
2	Inspection T-piece with measure opening C80/125 PP	2010 165
3	Length adjustment piece C80/125 L = 315-440 mm	2010 159
4	Wall plate with seal to wall duct C80/125 220 x 220 mm	2029 322
5	Wall socket to wall duct D = 150 mm, L = 300 mm	2001 419
6	Bearing rail E Flue gas tube support in shaft	619 303
7	Support arch C80/125 - 90° PP	2018 526
8	Set (2 pieces) distant holder E130 of spring steel; a distant holder must be used at least every 2 metres	2010 495
9	Lead pan with bowl 80/125 for roof execution (gradient 25-55° adjustable), ground plate 500 x 500 mm, black coated	2001 421
10	Rain keep-off rail black coated, (RAL 9005)	2018 555
11	LAS-mout piece C80/125 PP Flue gas tube PP of High grade steel, white steel	2018 528

Additional parts to be ordered if necessary:

Length element	C80/125 L = 200 mm	2010 154
	C80/125 L = 450 mm	2010 155
	C80/125 L = 950 mm	2010 156
	C80/125 L = 1950 mm	2010 157

Inspection T-piece C80/125 PP 2010 164

Pipe clip for wall mounting C125 618 736

Clamp tape D = 125 mm with integrated seal ring 618 758

Set (2 pieces) distant holder E130 of spring steel 2010 495

Viton seal ring Ø 80 mm to flue gas tube PP 2018 530

Further components see section following the assembly kits.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

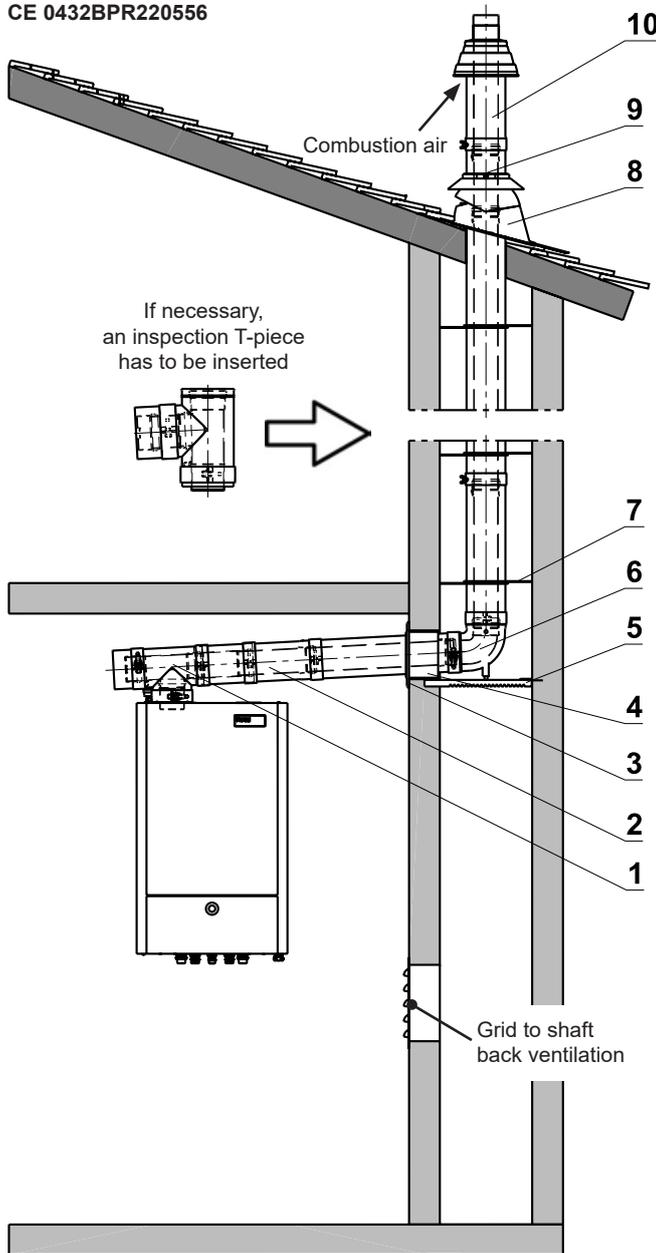
If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker
must be ordered separately, see individual parts

■ Part No.

Room air independent operation

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VKF-No Z 14603
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Example TG KD-LAS1 C80/125 PP red to TopGas® comfort, combi, classic (12-30):

	Part No.
1 Inspection T-piece with measure opening C80/125 PP	2010 165
2 Length adjustment piece C80/125 L = 315-440 mm	2010 159
3 Wall plate with seal to wall duct C80/125 220 x 220 mm	2029 322
4 Wall socket to wall duct D = 150 mm, L = 300 mm	2001 419
5 Bearing rail E Flue gas tube support in shaft	619 303
6 Support arch C80/125 - 90° PP	2018 526
7 Set (2 pieces) distant holder E130 of spring steel; a distant holder must be used at least every 2 metres	2010 495
8 Lead pan with bowl C80/125 for roof execution (gradient 25-55° adjustable), ground plate 500 x 500 mm, bricke-red coated	2001 421
9 Rain keep-off rail bricke-red coated, (RAL 8023)	2018 555
10 LAS-mouth piece C80/125 PP Flue gas tube PP of High grade steel, white coated	2018 528

Additional parts to be ordered if necessary:

Length element	C80/125 L = 200 mm	2010 154
	C80/125 L = 450 mm	2010 155
	C80/125 L = 950 mm	2010 156
	C80/125 L = 1950 mm	2010 157

Inspection T-piece C80/125 PP 2010 164

Pipe clip for wall mounting C125 618 736

Clamp tape D = 125 mm with integrated seal ring 618 758

Set (2 pieces) distant holder E130 of spring steel 2010 495

Viton seal ring Ø 80 mm to flue gas tube PP 2018 530

Further components see section following the assembly kits.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker

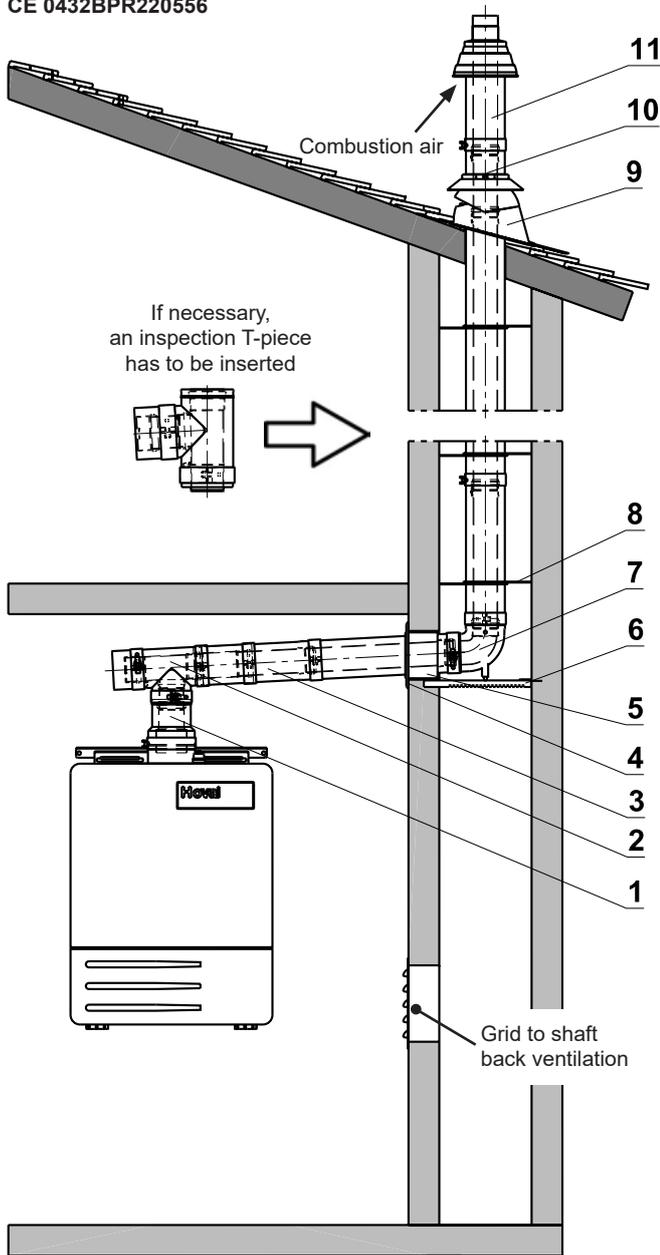
must be ordered separately, see individual parts

■ Part No.

Part No.

Room air independent operation

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CE 0432BPR220556



Example TG KD-LAS1 C80/125 PP red to TopGas® classic (35):

1	Concentric reducing part C100/150 -> C80/125 PP white coated	2025 334
2	Inspection T-piece with measure opening C80/125 PP	2010 165
3	Length adjustment piece C80/125 L = 315-440 mm	2010 159
4	Wall plate with seal to wall duct C80/125 220 x 220 mm	2029 322
5	Wall socket to wall duct D = 150 mm, L = 300 mm	2001 419
6	Bearing rail E Flue gas tube support in shaft	619 303
7	Support arch C80/125 - 90° PP	2018 526
8	Set (2 pieces) distant holder E130 of spring steel; a distant holder must be used at least every 2 metres	2010 495
9	Lead pan with bowl C80/125 for roof execution (gradient 25-55° adjustable), ground plate 500 x 500 mm, bricke-red coated	2001 421
10	Rain keep-off rail bricke-red coated, (RAL 8023)	2018 555
11	LAS-mouth piece C80/125 PP Flue gas tube PP of High grade steel, white coated	2018 528

Additional parts to be ordered if necessary:

Length element	C80/125 L = 200 mm	2010 154
	C80/125 L = 450 mm	2010 155
	C80/125 L = 950 mm	2010 156
	C80/125 L = 1950 mm	2010 157

Inspection T-piece C80/125 PP 2010 164

Pipe clip for wall mounting C125 618 736

Clamp tape D = 125 mm with integrated seal ring 618 758

Set (2 pieces) distant holder E130 of spring steel 2010 495

Viton seal ring Ø 80 mm to flue gas tube PP 2018 530

Further components see section following the assembly kits.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker
must be ordered separately, see individual parts

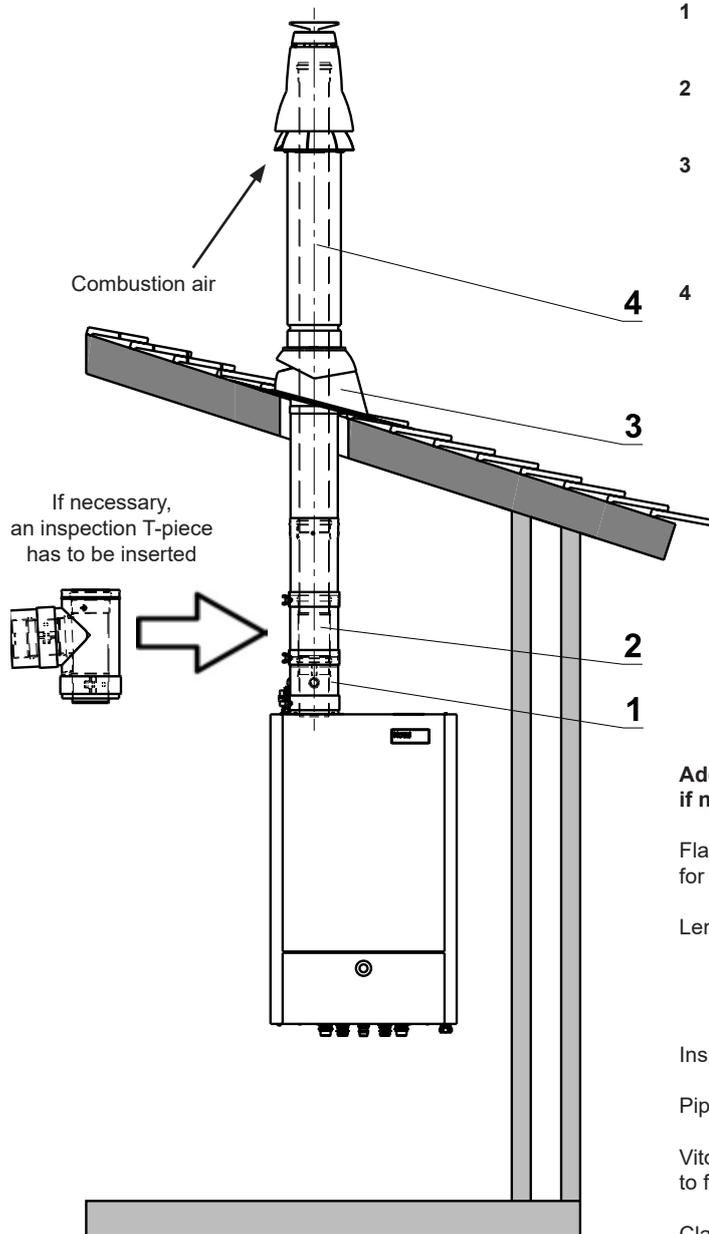
■ Part No.

Room air independent operation

Approval

VKF-No. Z 14603/ 14606

CE 0432BPR220556



Part No.

Assembly kit TG DHZ1 C80/125 PP black to TopGas® comfort, combi, classic (12-30) 6007 993

consisting of parts:

- | | | |
|---|---|----------|
| 1 | Length element C80/125 PP with measure opening L = 115 mm | 2010 160 |
| 2 | Length adjustment piece C80/125 L = 315-440 mm | 2010 159 |
| 3 | Lead pan with bowl C80/125 for roof execution (gradient 25-55° adjustable), ground plate 500 x 500 mm, black coated | 618 756 |
| 4 | Supply air/ flue gas roof duct C80/125 incl. pipe clip, black coated | 618 755 |

Additional parts to be ordered if necessary:

- | | |
|---|----------|
| Flange for flat roofs C80/125 for roof heating centre | 2001 422 |
| Length element C80/125 L = 200 mm | 2010 154 |
| C80/125 L = 450 mm | 2010 155 |
| C80/125 L = 950 mm | 2010 156 |
| C80/125 L = 1950 mm | 2010 157 |
| Inspection T-piece C80/125 PP | 2010 164 |
| Pipe clip for wall mounting C125 | 618 736 |
| Viton seal ring Ø 80 mm to flue gas tube PP | 2018 530 |
| Clamp tape Ø 125 mm with integrated seal ring | 618 758 |

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker

must be ordered separately, see individual parts

Further components see section following the assembly kits.

■ Part No.

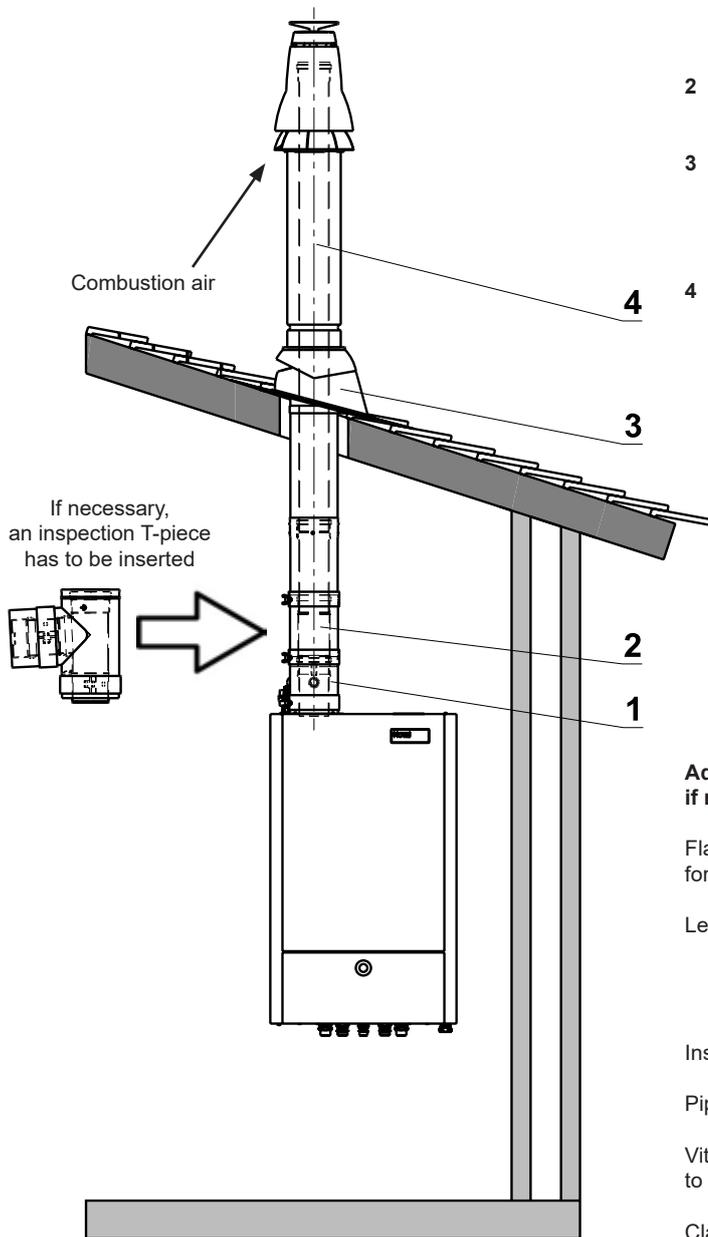
Part No.

Room air independent operation

Approval

VKF-No. Z 14603/ 14606

CE 0432BPR220556



Assembly kit TG DHZ1 C80/125 PP black to TopGas® classic (35,45)

consisting of parts:

1	Concentric reducing part C100/150 -> C80/125 PP with measure opening, white coated	2035 934
2	Length adjustment piece C80/125 L = 315-440 mm	2010 159
3	Lead pan with bowl C80/125 for roof execution (gradient 25-55° adjustable), ground plate 500 x 500 mm, black coated	618 756
4	Supply air/ flue gas roof duct C80/125 incl. pipe clip, black coated	618 755

Additional parts to be ordered if necessary:

Flange for flat roofs C80/125 for roof heating centre	2001 422
Length element C80/125 L = 200 mm	2010 154
C80/125 L = 450 mm	2010 155
C80/125 L = 950 mm	2010 156
C80/125 L = 1950 mm	2010 157
Inspection T-piece C80/125 PP	2010 164
Pipe clip for wall mounting C125	618 736
Viton seal ring Ø 80 mm to flue gas tube PP	2018 530
Clamp tape Ø 125 mm with integrated seal ring	618 758

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker

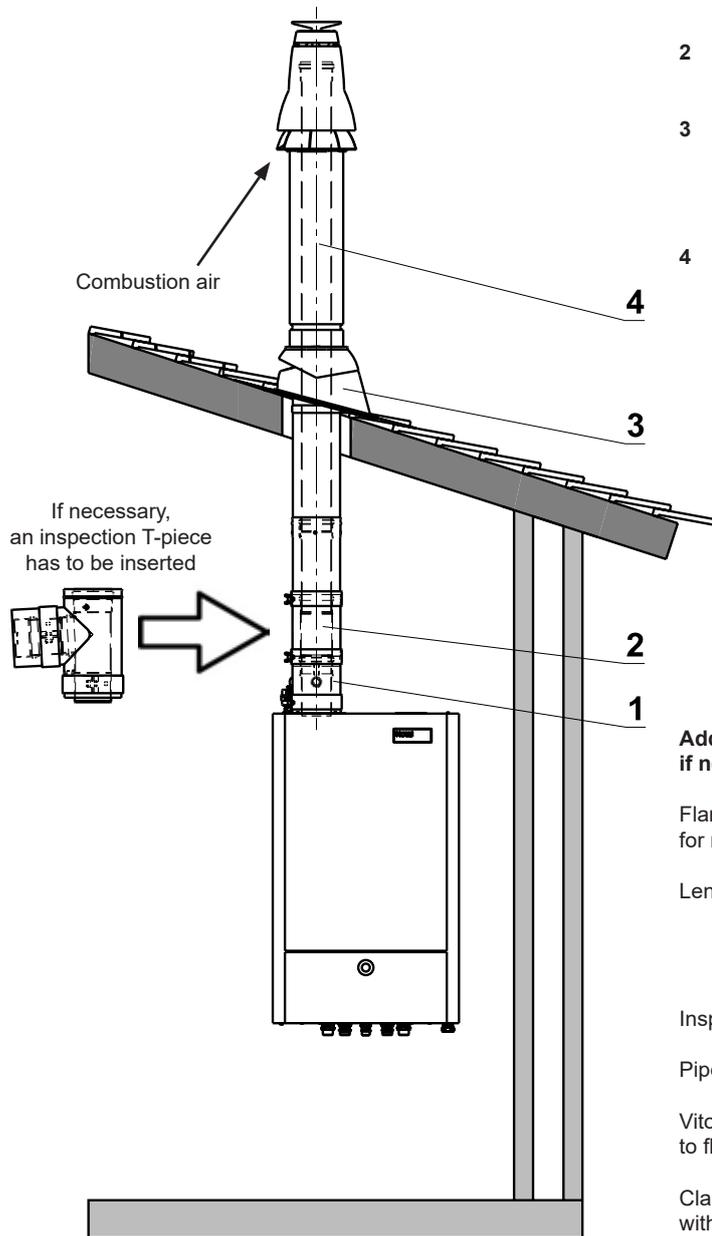
must be ordered separately, see individual parts

Further components see section following the assembly kits.

■ Part No.

Room air independent operation

Approval
VKF-No. Z 14603 / 14606
CE 0432BPR220556



Assembly kit TG DHZ1 C80/125 PP red to TopGas® comfort, combi, classic (12-30)
consisting of parts:

Part No.

- | | | |
|---|---|----------|
| 1 | Length element C80/125 PP with measure opening L = 115 mm | 2010 160 |
| 2 | Length adjustment piece C80/125 L = 315-440 mm | 2010 159 |
| 3 | Lead pan with bowl C80/125 for roof execution (gradient 25-55° adjustable), ground plate 500 x 500 mm, brick-red coated | 2001 421 |
| 4 | Supply air/Flue gas-roof execution C80/125 incl. pipe clip, brick-red coated | 2001 420 |

Additional parts to be ordered if necessary:

- | | |
|---|----------|
| Flange for flat roofs C80/125 for roof heating centre | 2001 422 |
| Length element C80/125 L = 200 mm | 2010 154 |
| C80/125 L = 450 mm | 2010 155 |
| C80/125 L = 950 mm | 2010 156 |
| C80/125 L = 1950 mm | 2010 157 |
| Inspection T-piece C80/125 PP | 2010 164 |
| Pipe clip for wall mounting C125 | 618 736 |
| Viton seal ring Ø 80 mm to flue gas tube PP | 2018 530 |
| Clamp tape Ø 125 mm with integrated seal ring | 618 758 |

Further components see section following the assembly kits.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

Approval sticker

must be ordered separately, see individual parts

■ Part No.

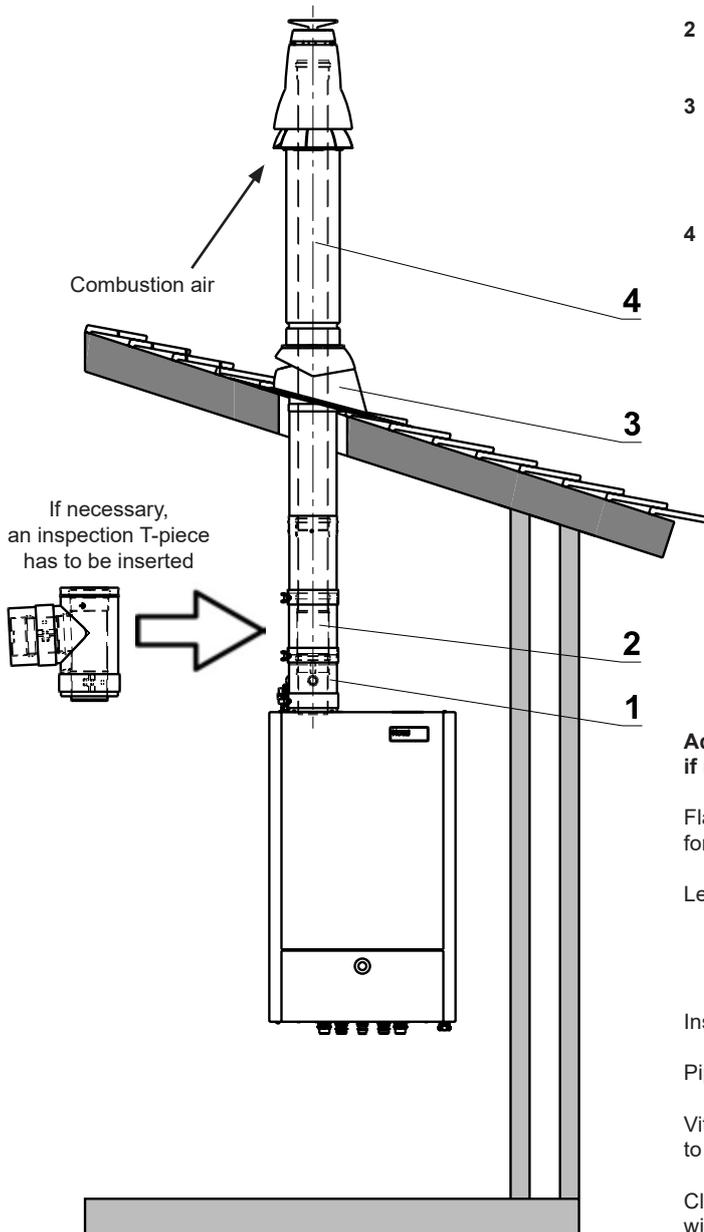
Part No.

Room air independent operation

Approval

VKF-No. Z 14603 / 14606

CE 0432BPR220556



Example TG DHZ1 C80/125 PP red to TopGas® classic (35,45):

- | | | |
|---|---|----------|
| 1 | Concentric reducing part C100/150 -> C80/125 PP with measure opening, white coated | 2035 934 |
| 2 | Length adjustment piece C80/125 L = 315-440 mm | 2010 159 |
| 3 | Lead pan with bowl C80/125 for roof execution (gradient 25-55° adjustable), ground plate 500 x 500 mm, brick-red coated | 2001 421 |
| 4 | Supply air/Flue gas-roof execution C80/125 incl. pipe clip, brick-red coated | 2001 420 |

Additional parts to be ordered if necessary:

- | | |
|---|----------|
| Flange for flat roofs C80/125 for roof heating centre | 2001 422 |
| Length element C80/125 L = 200 mm | 2010 154 |
| C80/125 L = 450 mm | 2010 155 |
| C80/125 L = 950 mm | 2010 156 |
| C80/125 L = 1950 mm | 2010 157 |
| Inspection T-piece C80/125 PP | 2010 164 |
| Pipe clip for wall mounting C125 | 618 736 |
| Viton seal ring Ø 80 mm to flue gas tube PP | 2018 530 |
| Clamp tape Ø 125 mm with integrated seal ring | 618 758 |

Further components see section following the assembly kits.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

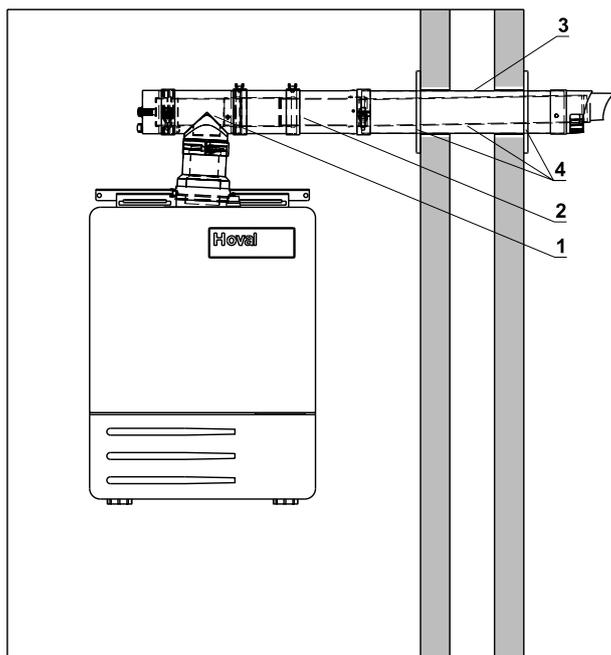
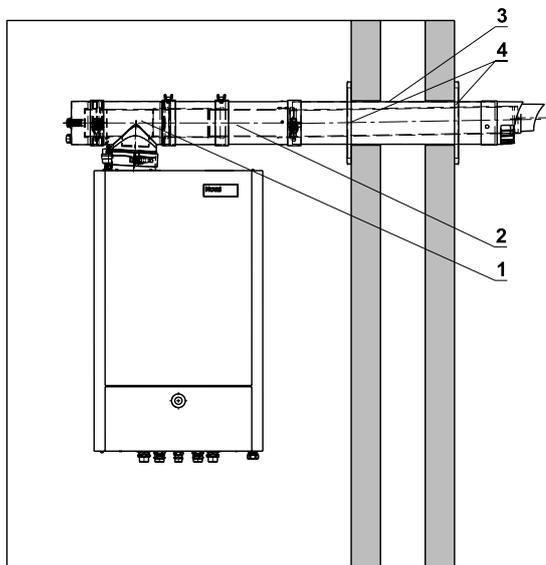
The connection situation and the dimensions are shown on chapter "Dimensions".

Approval sticker

must be ordered separately, see individual parts

■ Part No.

Room air independent operation



Assembly kit TG MD1 C80/125 PP to TopGas® comfort, combi, classic (12-30)

Part No.

6007 997

consisting of parts:

- | | | |
|---|---|----------|
| 1 | Inspection T-piece with measure opening C80/125 PP | 2010 165 |
| 2 | Length adjustment piece C80/125 L = 315-440 mm | 2010 159 |
| 3 | Wall socket to wall duct D = 150 mm, L = 300 mm | 2001 419 |
| 4 | Supply air/Flue gas-roof execution C80/125 L = 600 mm incl. wall plate 220 x 220 mm | 618 752 |

Example TG MD1 C80/125PP for TopGas® classic (35,45)

consisting of parts:

- | | | |
|---|---|----------|
| 1 | Concentric reducing part C100/150 -> C80/125 PP white coated | 2025 334 |
| 2 | Inspection T-piece with measure opening C80/125 PP | 2010 165 |
| 3 | Length adjustment piece C80/125 L = 315-440 mm | 2010 159 |
| 4 | Wall socket to wall duct D = 150 mm, L = 300 mm | 2001 419 |
| 5 | Supply air/Flue gas-roof execution C80/125 L = 600 mm incl. wall plate 220 x 220 mm | 618 752 |

Additional parts to be ordered if necessary:

- | | | |
|----------------|---------------------|----------|
| Length element | C80/125 L = 200 mm | 2010 154 |
| | C80/125 L = 450 mm | 2010 155 |
| | C80/125 L = 950 mm | 2010 156 |
| | C80/125 L = 1950 mm | 2010 157 |

Pipe clip for wall mounting C125 618 736

Viton seal ring Ø 80 mm to flue gas tube PP 2018 530

Clamp tape Ø 125 mm with integrated seal ring 618 758

Further components see section following the assembly kits.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

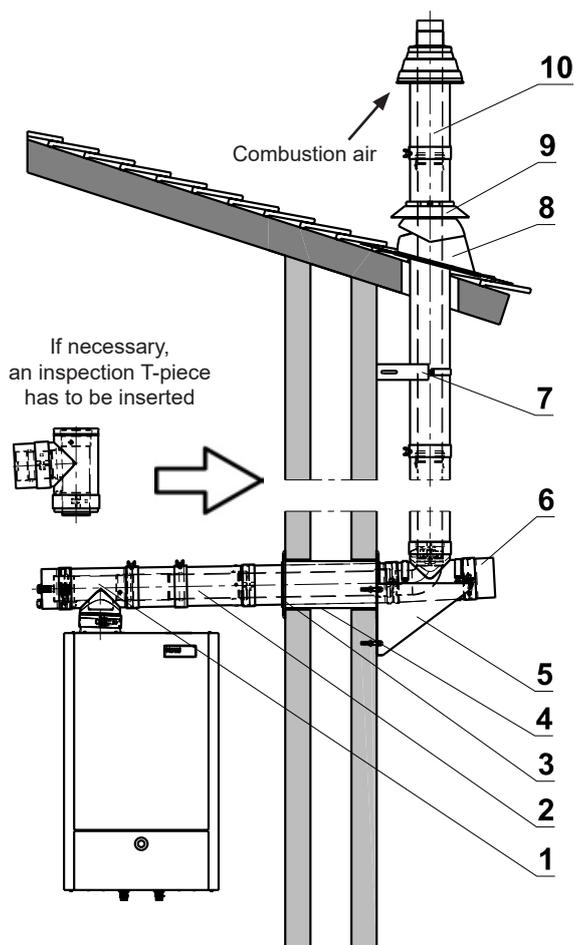
Approval sticker

must be ordered separately, see individual parts

■ Part No.

Room air independent operation

Approval
VKF-No. Z 14603
CE 0432BPR220556



This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker

must be ordered separately, see individual parts

Part No.

Assembly kit TG AW1 C80/125 PP black to TopGas® comfort, combi, classic (12-30) consisting of parts:		Part No.
1	Inspection T-piece with measure opening C80/125 PP	2010 165
2	Length adjustment piece C80/125 L = 315-440 mm	2010 159
3	Wall plate to wall duct C80/125, 220 x 220 mm	2029 322
4	Wall socket Ø 150 mm L = 300 mm to wall duct	2001 419
5	Outside wall support console Ø 125 mm incl. mounting material, High grade steel	2004 114
6	Arch T-piece C80/125	2038 104
7	Outside wall-distant holder Ø 125 mm High grade steel	2004 116
8	Lead pan with bowl C80/125 for roof execution (gradient 25-55° adjustable), ground plate 500 x 500 mm, black coated	618 756
9	Rain keep-off rail, black coated (RAL 9005)	2018 554
10	LAS-mouth piece C80/125 PP Flue gas tube PP of High grade steel white coated	2018 528

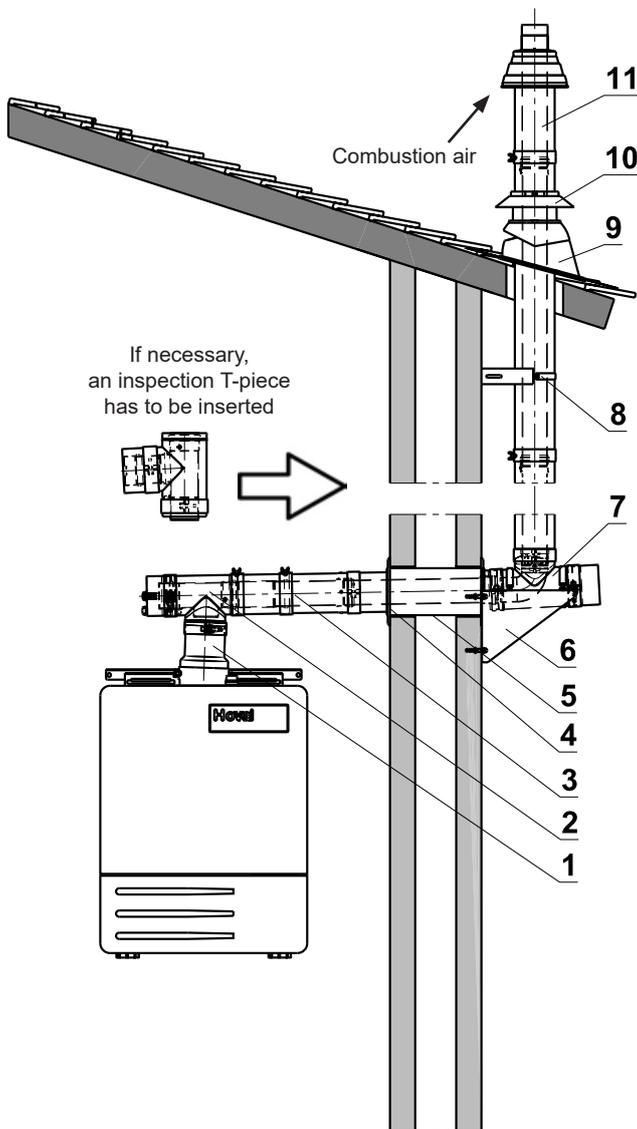
Additional parts to be ordered if necessary:

Length element	C80/125 L = 200 mm	2010 154
	C80/125 L = 450 mm	2010 155
	C80/125 L = 950 mm	2010 156
	C80/125 L = 1950 mm	2010 157
Inspection T-piece	C80/125 PP	2010 164
Pipe clip for wall mounting	C125	618 736
Outside wall-distant holder	Ø 125 mm High grade steel	2004 116
Viton seal ring	Ø 80 mm to flue gas tube PP	2018 530
Clamp tape	Ø 125 mm with integrated seal ring	618 758
Further components see section following the assembly kits.		

■ Part No.

Room air independent operation

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This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

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The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker

must be ordered separately, see individual parts

Part No.

Example TG AW1 C80/125 PP black to TopGas® classic (35):

consisting of parts:

1	Concentric reducing part C100/150 -> C80/125 PP white coated	2025 334
2	Inspection T-piece with measure opening C80/125 PP	2010 165
3	Length adjustment piece C80/125 L = 315-440 mm	2010 159
4	Wall plate to wall duct C80/125, 220 x 220 mm	2029 322
5	Wall socket Ø 150 mm L = 300 mm to wall duct	2001 419
6	Outside wall support console Ø 125 mm incl. mounting material, High grade steel	2004 114
7	Arch T-piece C80/125	2038 104
8	Outside wall-distant holder Ø 125 mm High grade steel	2004 116
9	Lead pan with bowl C80/125 for roof execution (gradient 25-55° adjustable), ground plate 500 x 500 mm, black coated	618 756
10	Rain keep-off rail, black coated (RAL 9005)	2018 554
11	LAS-mouth piece C80/125 PP Flue gas tube PP of High grade steel white coated	2018 528

Additional parts to be ordered if necessary:

Length element	C80/125 L = 200 mm	2010 154
	C80/125 L = 450 mm	2010 155
	C80/125 L = 950 mm	2010 156
	C80/125 L = 1950 mm	2010 157

Inspection T-piece C80/125 PP 2010 164

Pipe clip for wall mounting C125 618 736

Outside wall-distant holder Ø 125 mm High grade steel 2004 116

Viton seal ring Ø 80 mm to flue gas tube PP 2018 530

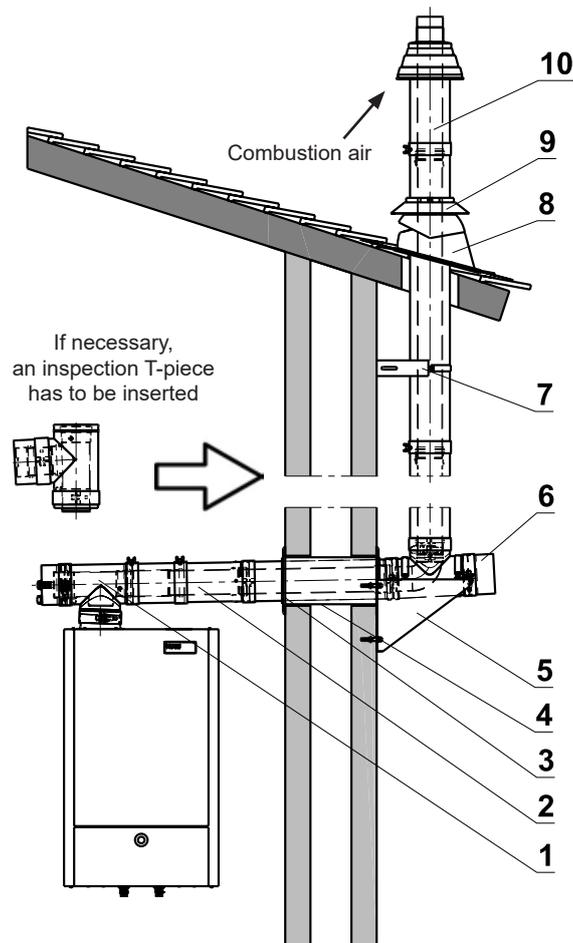
Clamp tape Ø 125 mm with integrated seal ring 618 758

Further components see section following the assembly kits.

■ Part No.

Room air independent operation

Approval
VKF-No. Z 14603
CE 0432BPR220556



This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker
must be ordered separately, see individual parts

Part No.

Example TG AW1 C80/125 PP red to TopGas® comfort, combi, classic (12-30):

1	Inspection T-piece with measure opening C80/125 PP	2010 165
2	Length adjustment piece C80/125 L = 315-440 mm	2010 159
3	Wall plate to wall duct C80/125, 220 x 220 mm	2029 322
4	Wall socket Ø 150 mm L = 300 mm to wall duct	2001 419
5	Outside wall support Ø 125 mm incl. mounting material, High grade steel	2004 114
6	Arch T-piece C80/125	2038 104
7	Outside wall-distant holder Ø 125 mm High grade steel	2004 116
8	Lead pan with bowl C80/125 for roof execution (gradient 25-55° adjustable), ground plate 500 x 500 mm, brick-red coated	2001 421
9	Rain keep-off rail brick-red coated (RAL 8023)	2018 555
10	LAS-mouth piece C80/125 PP Flue gas tube PP of high grade steel white coated	2018 528

Additional parts to be ordered if necessary:

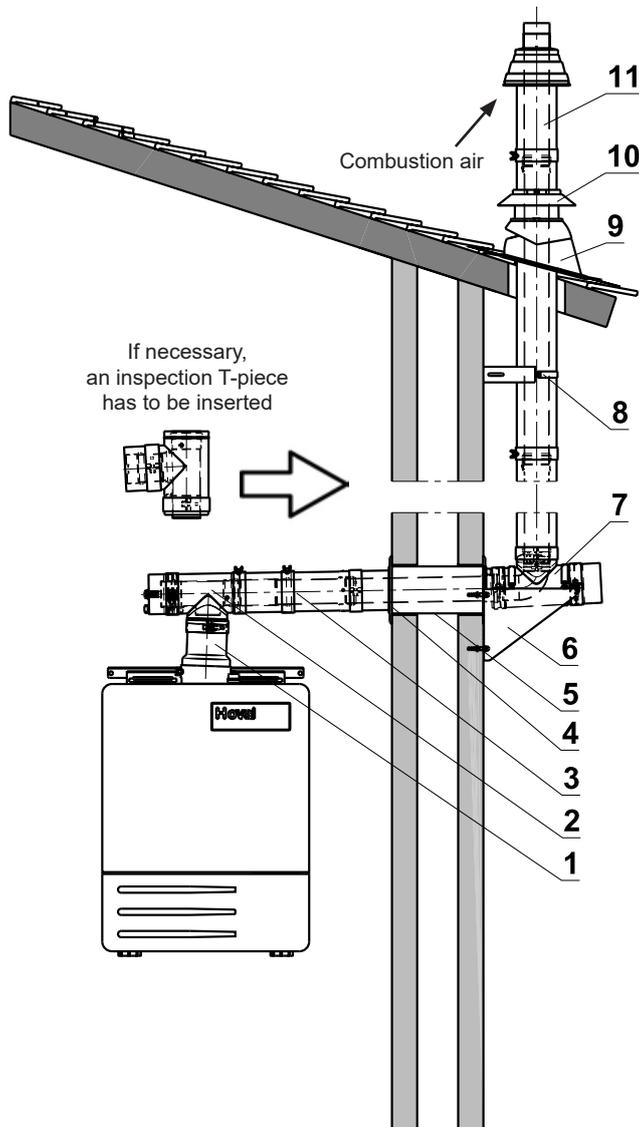
Length element	C80/125 L = 200 mm	2010 154
	C80/125 L = 450 mm	2010 155
	C80/125 L = 950 mm	2010 156
	C80/125 L = 1950 mm	2010 157
Inspection T-piece	C80/125 PP	2010 164
Pipe clip for wall mounting	C125	618 736
Outside wall-distant holder	Ø 125 mm High grade steel	2004 116
Viton seal ring	Ø 80 mm to flue gas tube PP	2018 530
Clamp tape	Ø 125 mm with integrated seal ring	618 758

Further components see section following the assembly kits.

■ Part No.

Room air independent operation

Approval
VKF-No. Z 14603
CE 0432BPR220556



This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker

must be ordered separately, see individual parts

Part No.

Example TG AW1 C80/125 PP red to TopGas® classic (35):

1	Concentric reducing part C100/150 -> C80/125 PP white coated	2025 334
2	Inspection T-piece with measure opening C80/125 PP	2010 165
3	Length adjustment piece C80/125 L = 315-440 mm	2010 159
4	Wall plate to wall duct C80/125, 220 x 220 mm	2029 322
5	Wall socket Ø 150 mm L = 300 mm to wall duct	2001 419
6	Outside wall support Ø 125 mm incl. mounting material, High grade steel	2004 114
7	Arch T-piece C80/125	2038 104
8	Outside wall-distant holder Ø 125 mm High grade steel	2004 116
9	Lead pan with bowl C80/125 for roof execution (gradient 25-55° adjustable), ground plate 500 x 500 mm, brick-red coated	2001 421
10	Rain keep-off rail brick-red coated (RAL 8023)	2018 555
11	LAS-mouth piece C80/125 PP Flue gas tube PP of high grade steel white coated	2018 528

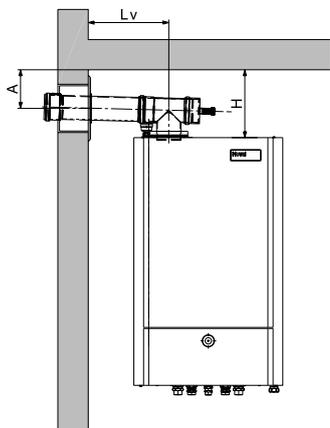
Additional parts to be ordered if necessary:

Length element	C80/125 L = 200 mm	2010 154
	C80/125 L = 450 mm	2010 155
	C80/125 L = 950 mm	2010 156
	C80/125 L = 1950 mm	2010 157
Inspection T-piece	C80/125 PP	2010 164
Pipe clip for wall mounting	C125	618 736
Outside wall-distant holder	Ø 125 mm High grade steel	2004 116
Viton seal ring	Ø 80 mm to flue gas tube PP	2018 530
Clamp tape	Ø 125 mm with integrated seal ring	618 758

Further components see section following the assembly kits.

■ Dimensions

Assembly kit TG K1 E80 PP Assembly kit TG K1 E80 Flex PP



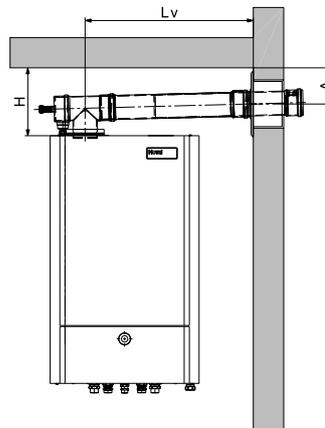
Minimum dimensions:

A = 115 mm

Lv = 170 mm

Lv (mm)	TopGas®	TopGas®
	classic H (mm)	comfort H (mm)
170	245	190
500	260	205
1000	285	230
1500	310	255
2000	335	280

Assembly kit TG K1 E80 PP Assembly kit TG K1 E80 Flex PP



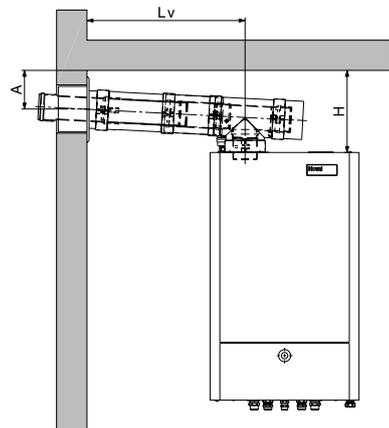
Minimum dimensions:

A = 115 mm

Lv = 400 mm

Lv (mm)	TopGas®	TopGas®
	classic H (mm)	comfort H (mm)
400	255	200
500	260	205
1000	285	230
1500	310	255
2000	335	280

Assembly kit TG K1 C80/125 PP Assembly kit TG K1 C80/125 Flex PP



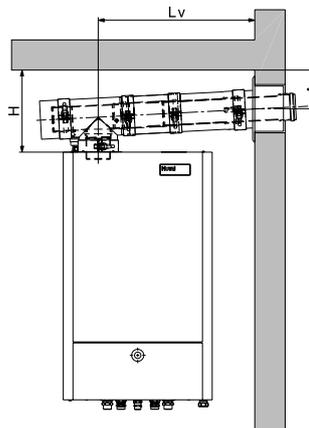
Minimum dimensions:

A = 115 mm

Lv = 385 mm

Lv (mm)	TopGas®	TopGas®
	classic H (mm)	comfort H (mm)
385	300	245
500	305	250
1000	330	275
1500	355	300
2000	380	325

Assembly kit TG K1 C80/125 PP Assembly kit TG K1 C80/125 Flex PP



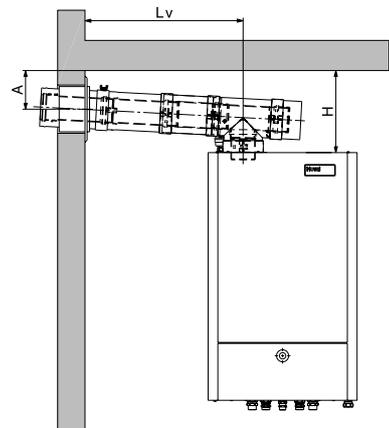
Minimum dimensions:

A = 115 mm

Lv = 500 mm

Lv (mm)	TopGas®	TopGas®
	classic H (mm)	comfort H (mm)
500	305	250
1000	330	275
1500	355	300
2000	380	325

Assembly kit TG K-LAS1 C80/125 PP Assembly kit TG KD-LAS1 C80/125 PP black/red



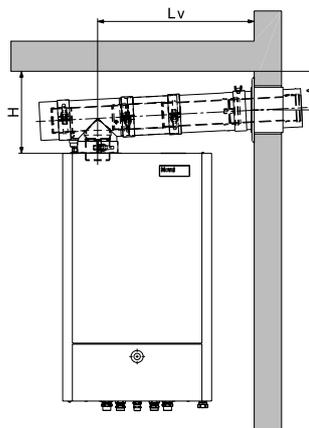
Minimum dimensions:

A = 115 mm

Lv = 385 mm

Lv (mm)	TopGas®	TopGas®
	classic H (mm)	comfort H (mm)
385	300	245
500	305	250
1000	330	275
1500	355	300
2000	380	325

Assembly kit TG K-LAS1 C80/125 PP Assembly kit TG KD-LAS1 C80/125 PP black/red



Minimum dimensions:

A = 115 mm

Lv = 500 mm

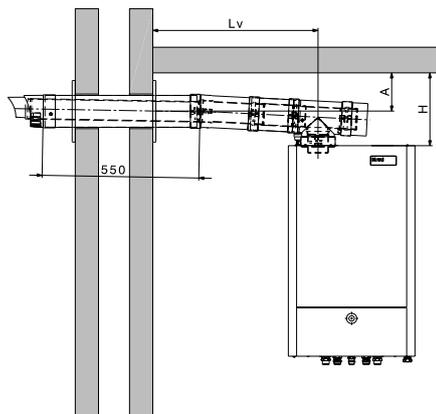
Lv (mm)	TopGas®	TopGas®
	classic H (mm)	comfort H (mm)
500	305	250
1000	330	275
1500	355	300
2000	380	325

Notice

Dimensions für TopGas® (comfort+classic) and placed below TopVal (130,160) see chapter "gas condensing boiler."

■ Dimensions

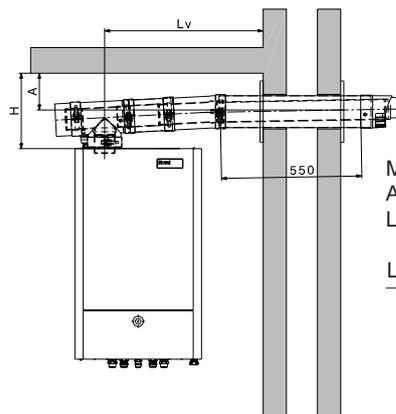
Assembly kit TG MD C80/125 PP



Minimum dimensions:
A = 115 mm
Lv = 385 mm

Lv (mm)	H (mm)
385	300
500	305
1000	330
1500	355
2000	385

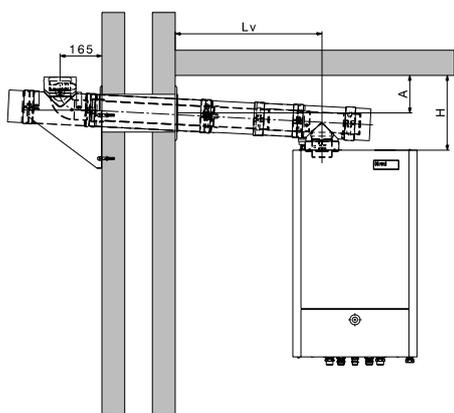
Assembly kit TG MD C80/125 PP



Minimum dimensions:
A = 115 mm
Lv = 500 mm

Lv (mm)	H (mm)
500	305
1000	330
1500	355
2000	385

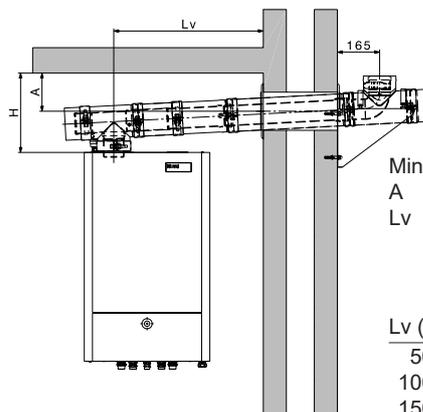
Assembly kit TG AW1 C80/125 PP black
Assembly kit TG AW1 C80/125 PP red



Minimum dimensions:
A = 115 mm
Lv = 385 mm

Lv (mm)	TopGas®	
	classic H (mm)	comfort H (mm)
385	300	245
500	305	250
1000	330	275
1500	355	300
2000	385	325

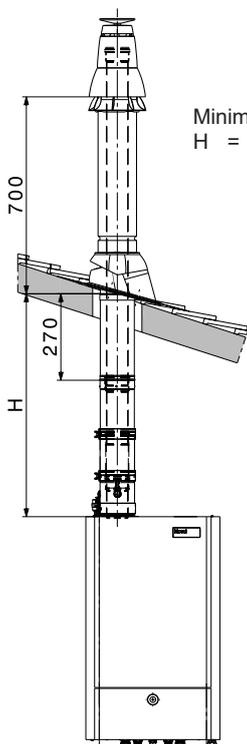
Assembly kit TG AW1 C80/125 PP black
Assembly kit TG AW1 C80/125 PP red



Minimum dimensions:
A = 115 mm
Lv = 500 mm

Lv (mm)	TopGas®	
	classic H (mm)	comfort H (mm)
500	305	250
1000	330	275
1500	355	300
2000	385	325

Assembly kit TG DHZ1 C80/125 PP black
Assembly kit TG DHZ1 C80/125 PP red



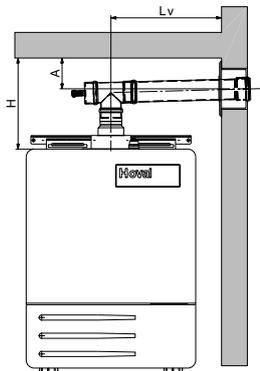
Minimum dimensions:
H = 700 - 825 mm

Notice

Dimensions für TopGas® (comfort+classic) and placed below TopVal (130,160) see chapter "gas condensing boiler."

■ Dimensions

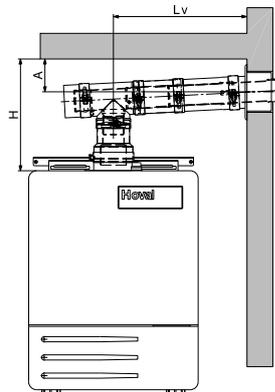
Assembly kit TG K1 E80 PP
Assembly kit TG K1 E80 Flex PP



Minimum dimensions:
A = 115 mm
Lv = 390 mm

Lv (mm)	H (mm)
390	320
500	325
1000	350
1500	375
2000	380

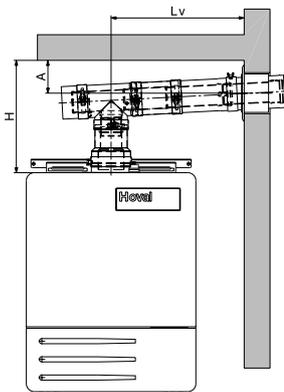
Assembly kit TG K1 C80/125 PP
Assembly kit TG K1 C80/125 Flex PP



Minimum dimensions:
A = 115 mm
Lv = 400 mm

Lv (mm)	H (mm)
400	420
500	425
1000	450
1500	475
2000	500

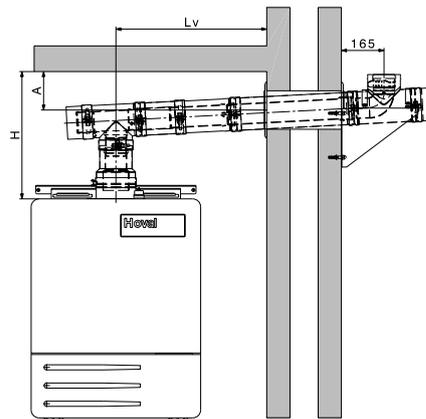
Assembly kit TG K-LAS1 C80/125 PP
Assembly kit TG KD-LAS1 C80/125 PP black/red



Minimum dimensions:
A = 115 mm
Lv = 400 mm

Lv (mm)	H (mm)
400	420
500	425
1000	450
1500	475
2000	500

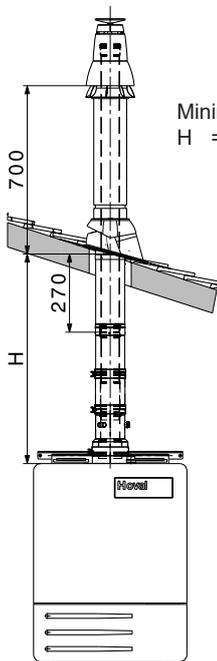
Assembly kit TG AW1 C80/125 PP grey
Assembly kit TG AW1 C80/125 PP red



Minimum dimensions:
A = 115 mm
Lv = 400 mm

Lv (mm)	H (mm)
400	420
500	425
1000	450
1500	475
2000	500

Assembly kit TG DHZ1 C80/125 PP grey
Assembly kit TG DHZ1 C80/125 PP red



Minimum dimensions:
H = 750-875 mm

All dimensions apply to both left hand and right hand connection.

■ Engineering

General

The installation of flue ducts must be carried out in accordance with all local and national regulations and directives.

Measure opening

Each supply and exhaust pipe must be equipped with a testing vent (already included in the construction sets). These should be placed in such a way that they can conveniently be reached to perform a measurement.

Length adjustment

The concentric length elements should not be shortened. In order to obtain the desired length the length compensation pieces or the reducing lengths should be used. The basic flue pipes can be reduced in length to fit. However, the cut ends must be carefully smoothed to avoid damage to the gas kit of the connecting piece.

Distant holder

When installing the pipes in a shaft a spacer must be used at least every 2 metres. To provide support for the chimney stack the lowest element must be fixed (bearing rail or pipe clip).

Flue gas temperature

The Hoval flue duct systems E80 PP, E80 Flex PP and C80/125 PP are long-term temperature resistant to 120 °C.

Connecting pipes

Horizontal connecting pipes must be installed with an inclination of at least 50 mm per metre of their length installed in the direction of the boiler to allow free return flow of condensation water towards the boiler. The whole exhaust system must be installed so that condensate can never collect at any point.

The flue gas lines must be secured against unwanted loosening of the plug connections.

Condensate drain

Condensation water accumulating in the flue can be drained via the boiler.

Chimney shaft

For a concentric chimney connection in which the combustion air is fed through the chimney the following minimum chimney cross-sections must be observed:

cross-section Ø 150 x 150 mm for rectangular chimneys, Ø 170 mm diameter for round chimneys.

In determining the chimney dimensions the installation of the spacers should be taken into account.

With simple chimney connections a grille must be installed for the purpose of back ventilation in the shaft.

Sizing basis

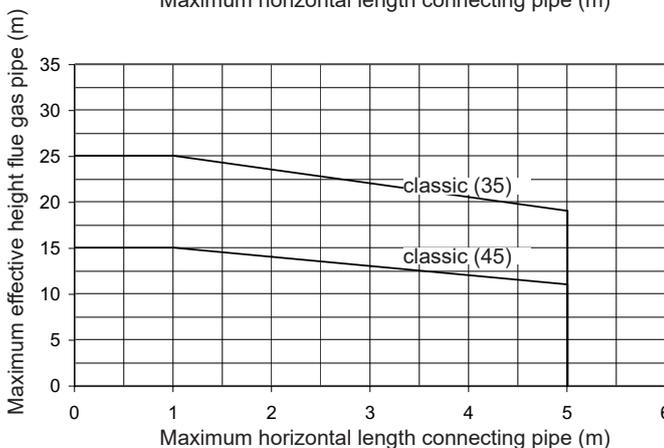
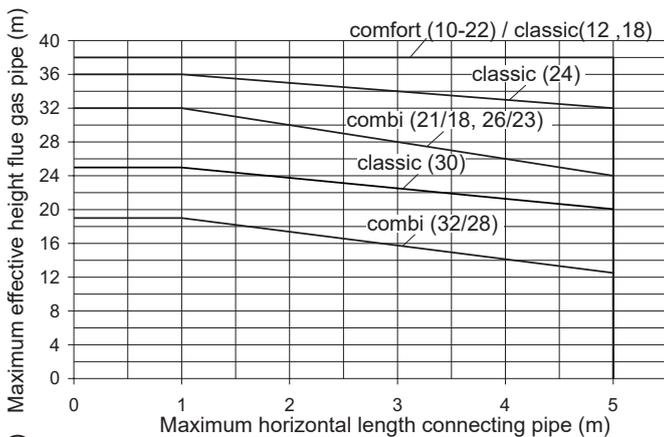
The following diagrams were computed assuming a geographic altitude of 1000 m above sea level.

Maximum flue gas pipe length chimney connection and flue gas pipe in chimney stack

Assembly kit

TG Kx E80 PP

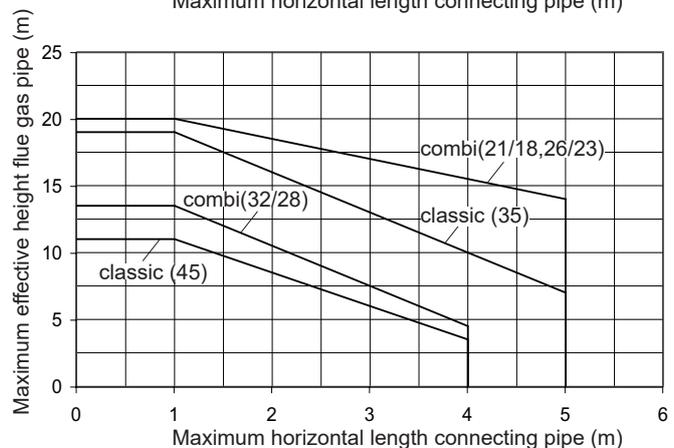
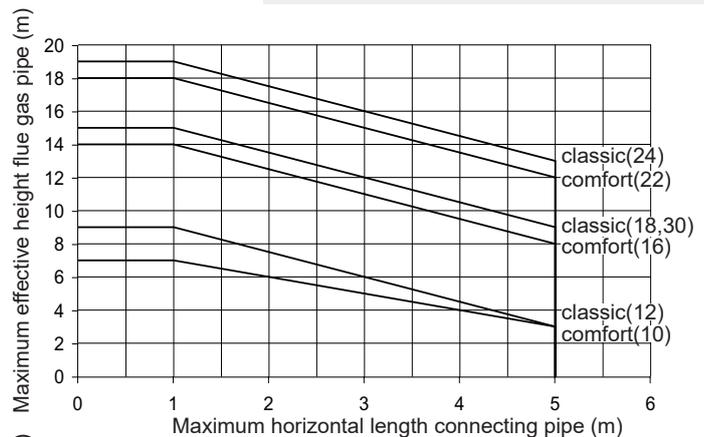
TG Kx E80 Flex PP



Assembly kit

TG Kx C80/125 PP

TG Kx C80/125 Flex PP



Note:

The data contained in the following diagrams represent guide values calculated at maximum output. An exact calculation for the flue gas duct must be made on-site.

The following form pieces have already been taken into account:

- 1 T-piece 90° for connection to the boiler and 1 support arch 90° for supporting the flue pipe in the shaft,
- 1 component for the end of the chimney.

For all other form pieces in the connecting sections to the chimney the following lengths must be deducted from the maximum chimney heights:

Form piece in the connecting duct

- 1 arch 90° E80
- 1 arch 45° E80
- 1 T-piece 90° E80
- 1 arch 90° C80/125
- 1 arch 45° C80/125
- 1 T-piece 90° C80/125

PP-pipes flexible pipes

- 2.0 m
- 1.0 m
- 2.5 m
- 2.5 m
- 1.5 m
- 3.0 m

■ Engineering

Separate ducting of flue gas and combustion air

By fitting the separator C80/125 PP -> 2 x E80 PP the flue gas and the combustion air can be ducted separately.

To determine the total length of PP flue gas tube and combustion air duct the total lengths can be obtained from the diagrams and calculated for the simple chimney installation.

For the remaining form pieces which have to be installed the lengths to be removed must be read off from the table.

Maximum flue gas pipe length for heating control on roof (DHZ)/wall (MD) duct

	DHZ	MD
TopGas® classic (35):	9 m	7 m
TopGas® classic (45):	6 m	4.5 m
TopGas® classic (12,30):	7 m	12 m
TopGas® classic (18):	11 m	10 m
TopGas® classic (24):	11.5 m	10 m
TopGas® comfort (10):	5 m	12 m
TopGas® comfort (16):	9 m	12 m
TopGas® comfort (22):	12.5 m	10 m
TopGas® combi (21/18):	11 m	8 m
TopGas® combi (26/23):	11 m	8 m
TopGas® combi (32/28):	6 m	5 m

No form pieces taken into account

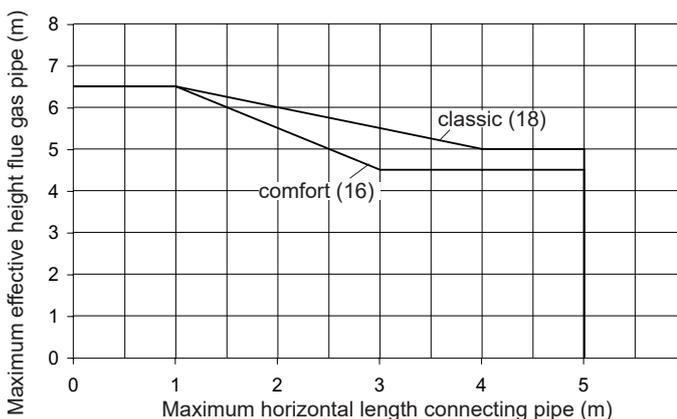
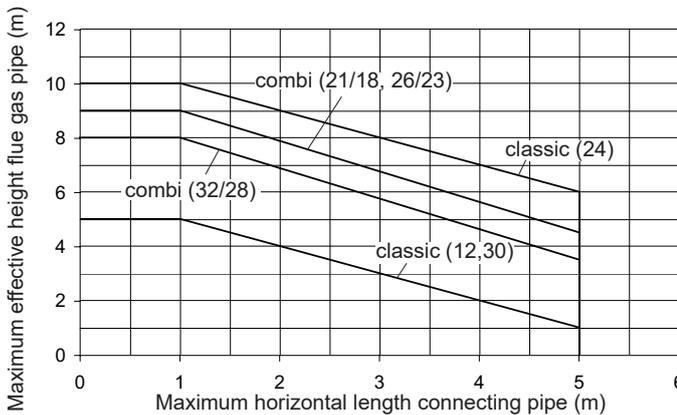
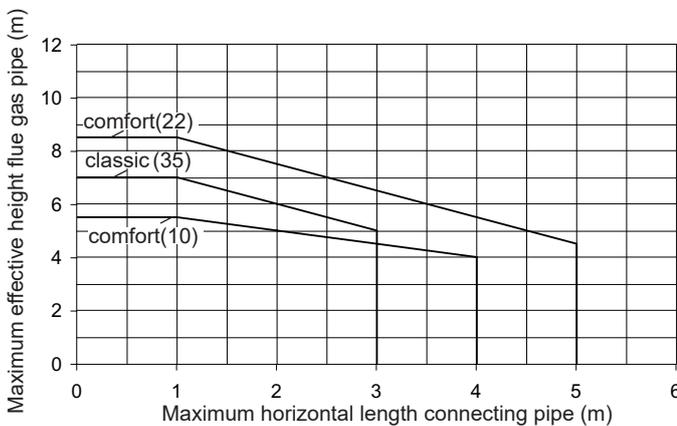
For all other form pieces the following lengths must be deducted from the flue pipe lengths:

1 arch 90° C80/125	3.0 m
1 arch 45° C80/125	2.0 m
1 T-piece 90° C80/125	3.5 m

Note:

The data contained in the following diagrams represent guide values calculated at maximum output. An exact calculation for the flue gas duct must be made on-site.

Maximum flue gas pipe length Outside wall systems ambient air independent operation Assembly kit TG AW C80/125 PP black/red

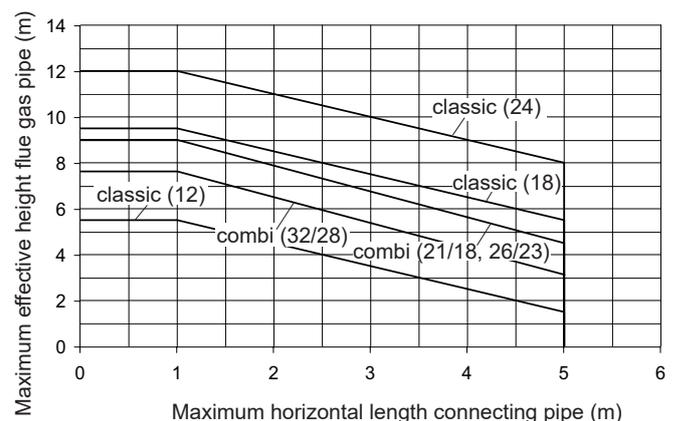
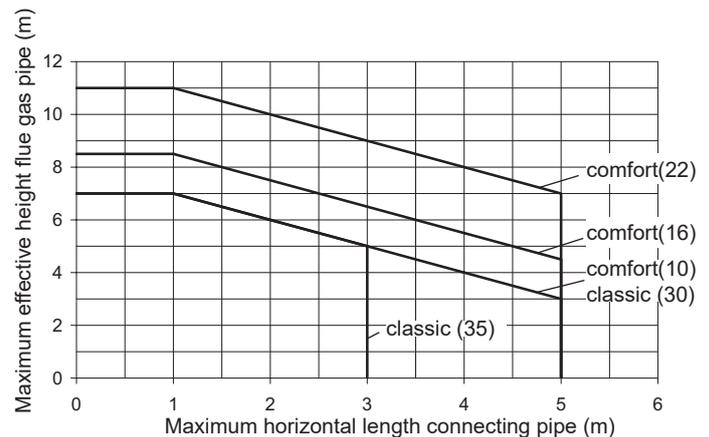


1 T-piece and 1 90° support arch C80/125 as well as the chimney cowl are included as form pieces.

Flue gas system in shaft ambient air independent operation Assembly kit TG K-LAS C80/125 PP TG KD-LAS C80/125 PP black/red

The connecting pipe and the vertical flue pipe in the shaft are also to be installed concentrically in C 80/125.

This results in the following maximum permitted lengths for flue pipes:



1 T-piece and 1 90° support arch C80/125 as well as the chimney cowl are included as form pieces.

For all other form pieces in the connecting sections to the chimney the following lengths must be removed from the maximum chimney heights:

1 arch 90° C80/125	2.5 m
1 arch 45° C80/125	1.5 m
1 T-piece 90° C80/125	3.0 m

■ Description

**Flue gas system
Type E100 PP**

- Air supply and flue gas system in precast construction method for quick installation.
- Specially suited to oil and gas fired condensing systems.
- 100 mm diameter PP pipe for flue gas with practical plug-in sleeve connection with Viton sealing ring for joining the individual system components.
- PP: permanent temperature resistance up to 120 °C.
- All long elements can be shortened. The cut edges must be smoothed to avoid damage to sealing.

**Concentric supply air /
flue gas system LAS
Type C100/150 PP**

- Air supply and flue gas system in precast construction method for quick installation.
- Specially suited to oil and gas fired condensing systems.
- 100 mm diameter PP pipe for flue gas concentrically mounted in the supply pipe with practical plug-in sleeve connection with Viton sealing ring for joining the individual system components.
- PP: permanent temperature resistance up to 120 °C.
- Concentrically mounted supply air pipe with 150 mm diameter made of steel, white lacquer (RAL 9016).
- System components to be joined using plug-in connectors with sealing ring and clamp tape.
- For ambient air independent operation.

**Flexible flue gas system
Type E100 Flex PP**

- Flexible flue gas system in precast construction method for quick installation.
- Specially suited to oil and gas fired condensing systems.
- The system can be installed in existing angled shafts without the need for extra masonry work.
- Flexible PP flue pipe with internal diameter D = 100 mm with double walls to prevent damage during installation and to reduce the flow resistance on the flue gas side.
- PP: permanent temperature resistance up to 120 °C.

Assembly kits

The installation kits contain all the components shown in the drawings. All other components such as length elements, form pieces and fixing components must be ordered separately.

The gas outlet shown in the drawing is intended as an example of a possible installation. In practice the configuration must be adapted to the individual situation, taking account of local regulations.

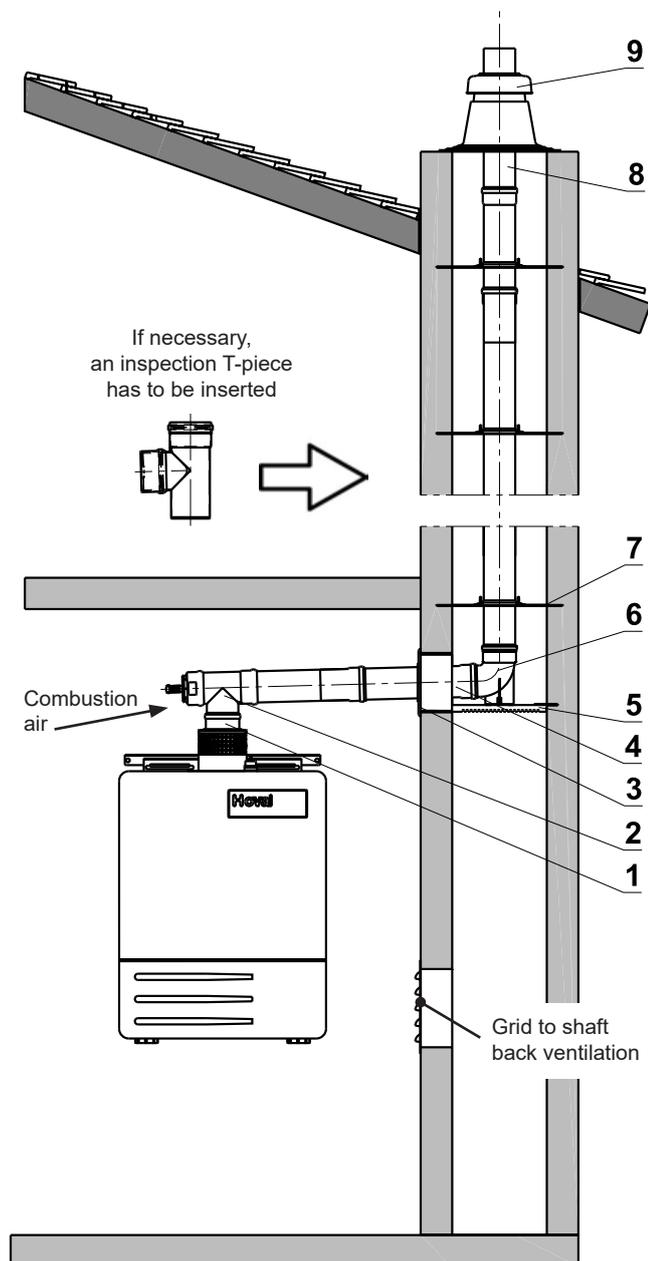
Individual parts

A detailed list of all the parts used in the flue pipe systems and construction sets can be found in the section following the assembly kits.

■ Part No.

Room air dependent operation

Approval
VKF-No. Z 14604
CE 0432BPR220556



This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

Approval sticker

must be ordered separately, see individual parts

Part No.

Example TG K2 E100 PP to TopGas® classic (35-80):

- | | | |
|---|---|----------|
| 1 | Supply air grille E100
incl. pipe, L = 115 mm, PP | 2004 168 |
| 2 | T-piece with measure opening
E100 – 90° PP | 2004 169 |
| 3 | Duct E100
Wall plate 220 x 220 mm
with seal ring and casing tube
Ø 150 mm, L = 300 mm | 2001 507 |
| 4 | Length element E100
L = 450 mm PP | 2001 480 |
| 5 | Bearing rail E
Flue gas tube support in shaft | 619 303 |
| 6 | Support arch E100 – 90°
PP | 2001 493 |
| 7 | Set (2 pieces) distant holder E100
of polypropylene for tube centring
in shaft; 3 sets | 2001 501 |
| 8 | End tube E100 L = 500 mm
to top E100
High grade steel | 2001 505 |
| 9 | Top part E100 for chimney end for
back ventilation with shaft cover
385 x 385 mm, clamp tape and
seal ring | 2001 504 |

Additional parts to be ordered if necessary

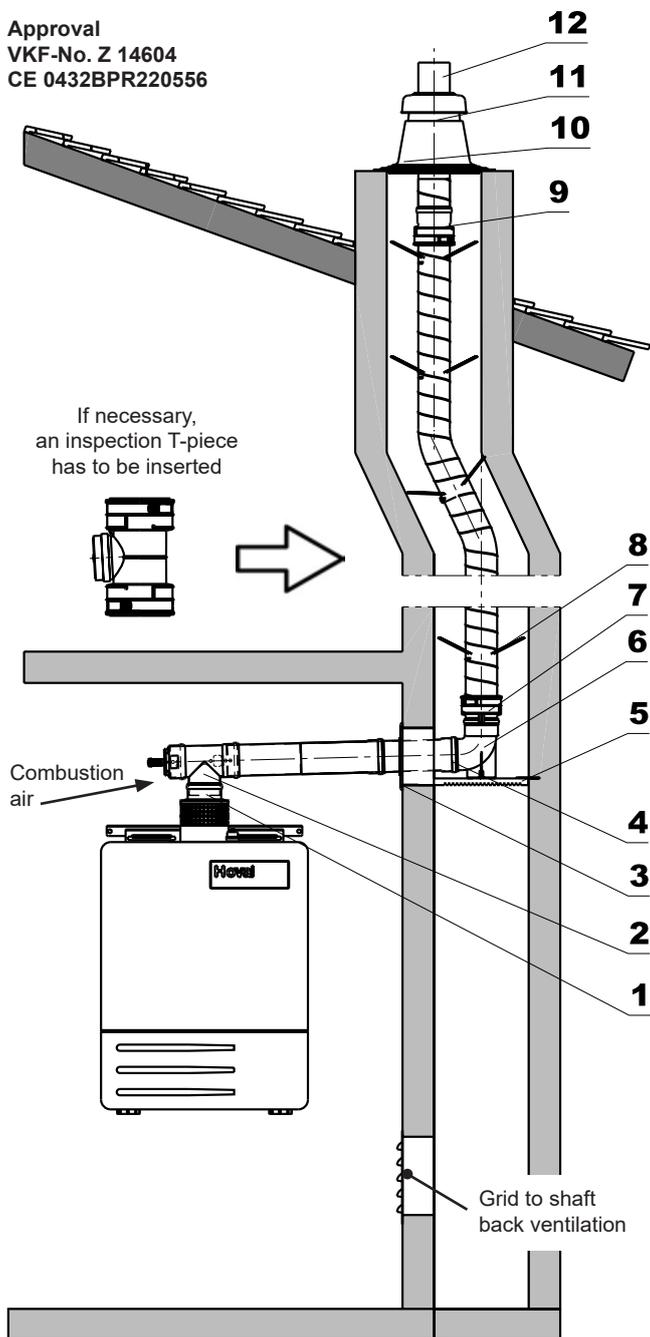
- | | | |
|---|------------------|----------|
| Length element | E100 L = 450 mm | 2001 480 |
| | E100 L = 950 mm | 2001 481 |
| | E100 L = 1950 mm | 2001 482 |
| Inspection T-piece E100-90° | | 2001 497 |
| Pipe clip for fastening E100 | | 2001 502 |
| Set (2 pieces) distant holder E100
of polypropylene for centering in shaft | | 2001 501 |
| Viton seal ring Ø 100 mm
to flue gas tube PP | | 2018 531 |

Further components see section following the assembly kits.

■ Part No.

Room air dependent operation

Approval
VKF-No. Z 14604
CE 0432BPR220556



Example TG K2 E100 Flex PP-A
to TopGas® classic (35-80):

	Part No.
1 Supply air grille E100 incl. pipe, L = 115 mm, PP	2004 168
2 T-piece with measure opening E100 – 90° PP	2004 169
3 Duct E100 Wall plate 220 x 220 mm with seal ring and casing tube Ø 150 mm, L = 300 mm	2001 507
4 Length element E100 L = 450 mm PP	2001 480
5 Bearing rail E Flue gas tube support in shaft	619 303
6 Support arch E100 – 90° PP	2001 493
7 Connection piece below E100 Flex PP	2008 135
8 Distant holder E100 Flex PP (1 piece) a distant holder must be used at least every 2 metres	2008 138
9 Mouth connection piece E100 Flex PP	2008 133
10 Assembly cross E100 Flex PP High grade steel	2008 134
11 Top part E100 for chimney end for back ventilation with shaft cover 385 x 385 mm, clamp tape and seal ring	2001 504
12 End tube E100 L = 500 mm to top E100 High grade steel	2001 505

Additional parts to be ordered
if necessary:

Length element E100 L = 450 mm	2001 480
E100 L = 950 mm	2001 481
E100 L = 1950 mm	2001 482
Inspection T-piece E100 Flex-PP	2008 136
Pipe clip for fastening E100	2001 502
Viton seal ring Ø 100 mm to flue gas tube PP	2018 531
Wave tube E100 Flex PP Price per metre	2008 140
Distant holder E100 Flex PP, 1 piece	2008 138
Viton seal ring E100 Flex PP	2008 139

Further components see section
following the assembly kits.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

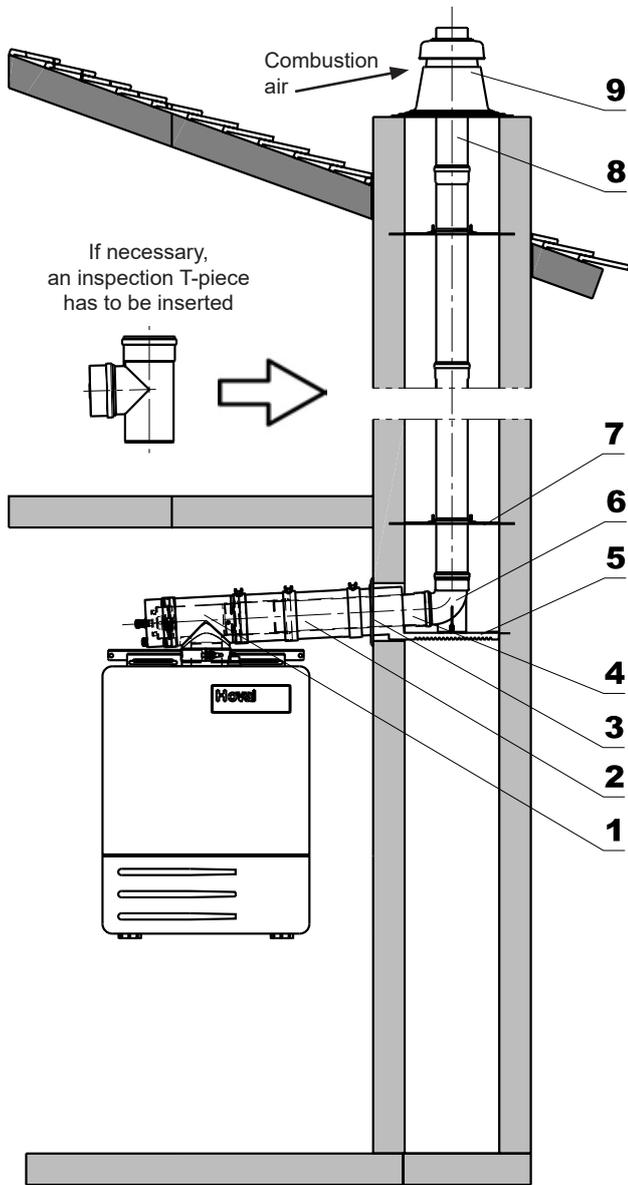
Approval sticker

must be ordered separately, see individual parts

■ Part No.

Room air independent operation

Approval
VKF-No. Z 14603 / 14604
CE 0432BPR220556



This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker

must be ordered separately, see individual parts

Part No.

Assembly kit TG K2 C100/150 PP-A to TopGas® classic (35-80):

consisting of parts:

Part No.	Description	Part No.
1	Inspection T-piece with measure opening C100/150 PP	2015 257
2	Length adjustment piece C100/150 L = 315-440 mm	2015 251
3	Duct C100/150 Wall plate with splice 220 x 220 mm and casing tube Ø 180 mm, L = 300 mm	2001 434
4	Length element E100 L = 450 mm PP	2001 480
5	Bearing rail E Flue gas tube support in shaft	619 303
6	Support arch E100 – 90° PP	2001 493
7	Set (2 pieces) distant holder E100 of polypropylene for tube centering in shaft; 3 set	2001 501
8	End tube E100 L = 500 mm to top E100 High grade steel	2001 505
9	Top part E100 for chimney end for back ventilation with shaft cover 385 x 385 mm, clamp tape and seal ring.	2001 504

Additional parts to be ordered if necessary:

Length element	C100/150 L = 200 mm	2015 246
	C100/150 L = 450 mm	2015 247
	C100/150 L = 950 mm	2015 248
	C100/150 L = 1950 mm	2015 249

Inspection T-piece E100-90° 2001 497

Pipe clip for wall mounting C150 2001 433

Clamp tape D = 150 mm with integrated seal ring 2001 444

Length element	E100 L = 450 mm	2001 480
	E100 L = 950 mm	2001 481
	E100 L = 1950 mm	2001 482

Set (2 pieces) distant holder E100 of polypropylene for centering tube in shaft 2001 501

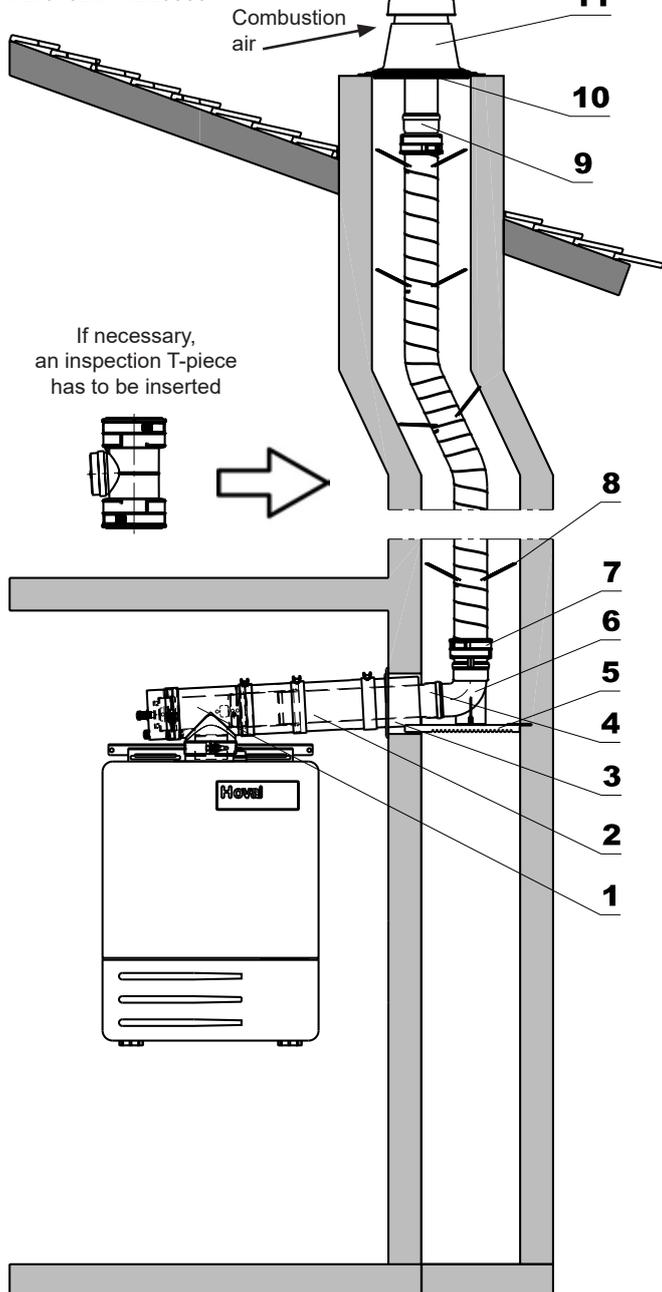
Viton seal ring E100 Flex PP 2018 531

Further components see section following the assembly kits.

■ Part No.

Room air independent operation

Approval
VKF-No. Z 14603 / 14604
CE 0432BPR220556



Example TG K2 C100/150 Flex PP-A to TopGas® classic (35-80):

	Part No.
1 Inspection T-piece with measure opening C100/150 PP	2015 257
2 Length adjustment piece C100/150 L = 315-440 mm	2015 251
3 Duct C100/150 Wall plate with splice 220 x 220 mm and scabbard tube Ø 180 mm, L = 300 mm	2001 434
4 Length element E100 L = 450 mm PP	2001 480
5 Bearing rail E Flue gas tube support in shaft	619 303
6 Support arch E100 – 90° PP	2001 493
7 Connection piece below E100 Flex PP	2008 135
8 Distant holder E10 Flex PP (1 piece) a distant holder must be used at least every 2 metres	2008 138
9 Mouth connection piece E100 Flex PP	2008 133
10 Assembly cross E100 Flex PP, High grade steel	2008 134
11 Top part E100 for chimney end for back ventilation with shaft cover 385 x 385 mm, clamp tape and seal ring	2001 504
12 End tube E100 L = 500 mm to top E100 High grade steel	2001 505

Additional parts to be ordered if necessary:

Length element C100/150 L = 200 mm	2015 246
C100/150 L = 450 mm	2015 247
C100/150 L = 950 mm	2015 248
C100/150 L = 1950 mm	2015 249

Inspection T-piece E100 Flex-PP	2008 136
Pipe clip for wall mounting C150	2001 433
Clamp tape D = 150 mm with integrated seal ring	2001 444

Wave tube E100 Flex PP Price per metre	2008 140
Distant holder E100 Flex PP, 1 piece	2008 138
Viton seal ring E100 Flex PP	2008 139

Further components see section following the assembly kits.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker

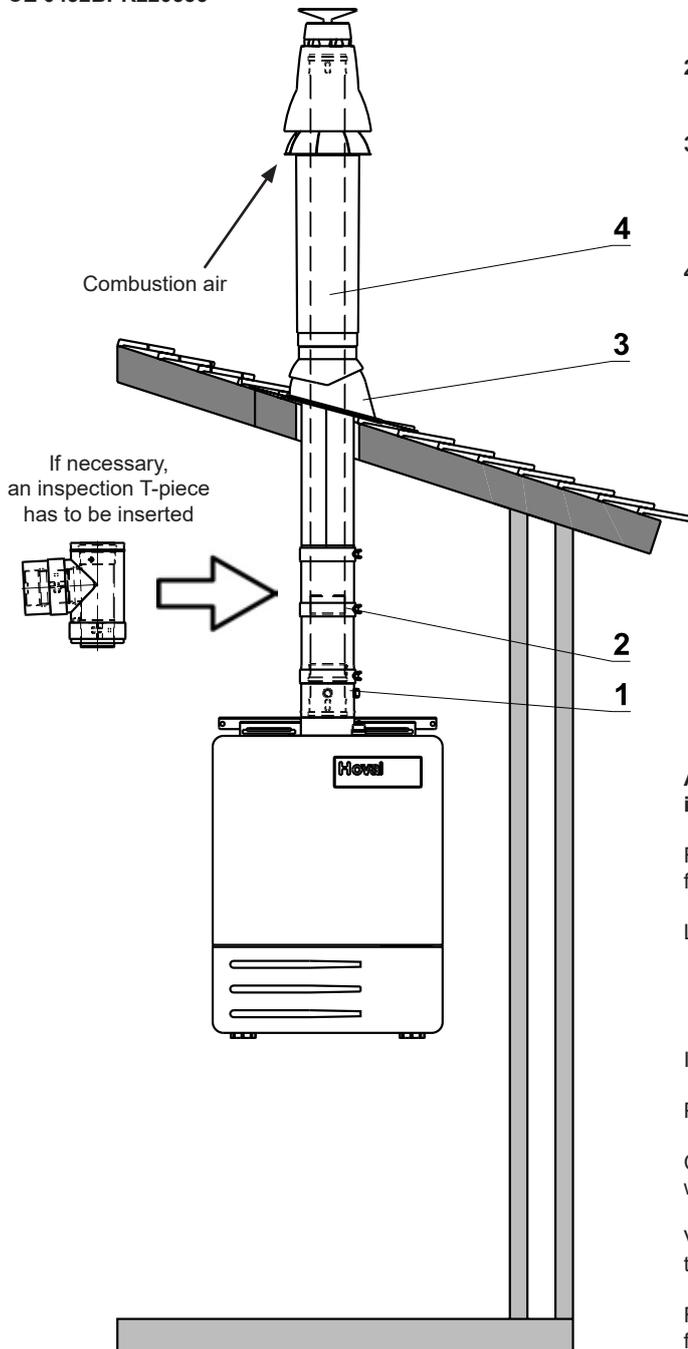
must be ordered separately, see individual parts

■ Part No.

Part No.

Room air independent operation

Approval
VKF-No. Z 14603 / 14606
CE 0432BPR220556



Example TG DHZ2 C100/150 PP black to TopGas® classic (35-80):

1	Length element C100/150 with measure opening for flue gas and supply air; PP	2015 252
2	Length adjustment piece C100/150 L = 315-440 mm	2015 251
3	Lead pan with bowl C100/150 for roof execution (gradient 25-55° adjustable), Ground plate 500 x 500 mm, black coated (RAL 9005)	2001 440
4	Supply air/flue gas-roof execution C100/150 incl. pipe clip, black coated	2001 438

Additional parts to be ordered if necessary:

Flange for flat roofs C100/150 for roof heating centre	2001 442
Length element C100/150 L = 200 mm	2015 246
C100/150 L = 450 mm	2015 247
C100/150 L = 950 mm	2015 248
C100/150 L = 1950 mm	2015 249
Inspection T-piece C100/150 PP	2015 256
Pipe clip for wall mounting C150	2001 433
Clamp tape Ø 150 mm with integrated seal ring	2001 444
Viton seal ring Ø 100 mm to flue gas tube PP aluminium	2018 531

Further components see section following the assembly kits.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

Approval sticker

must be ordered separately, see individual parts

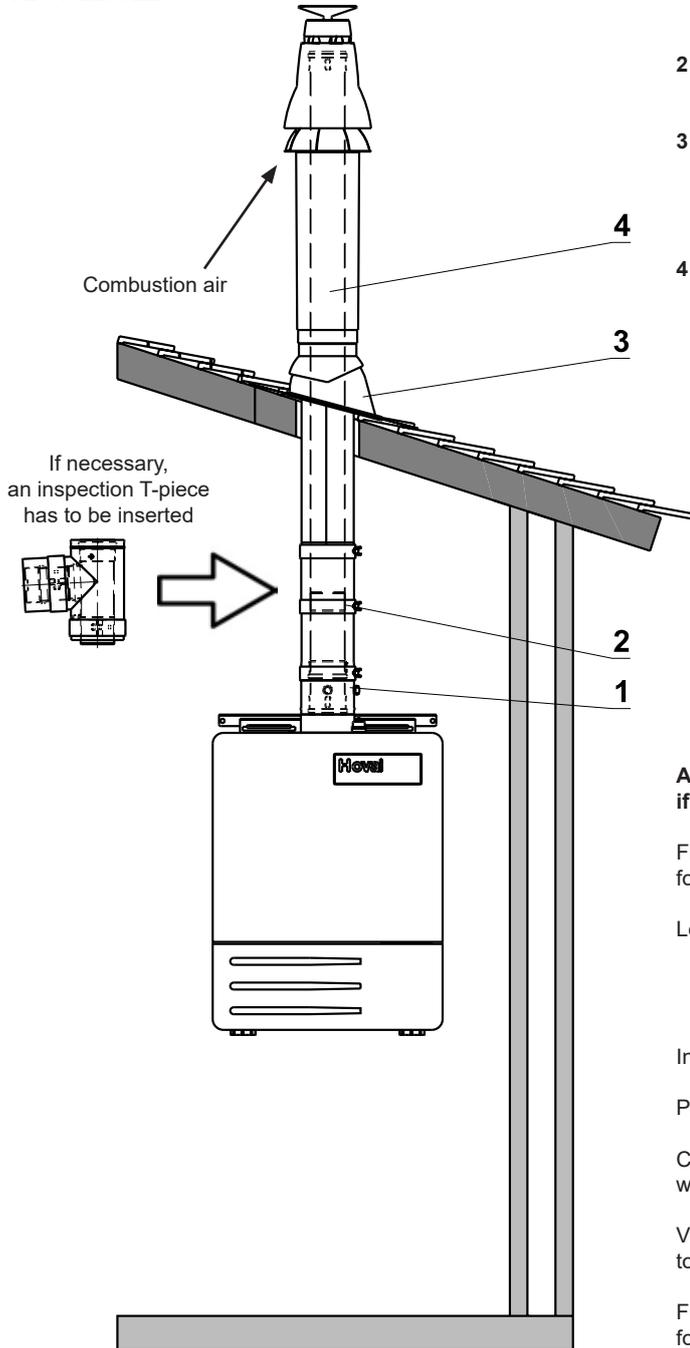
■ Part No.

Room air independent operation

Approval

VKF-No. Z 14603 / 14606

CE 0432BPR220556



Part No.

Example TG DHZ2 C100/150 PP red to TopGas® classic (35-80):

1	Length element C100/150 with measure opening for flue gas supply air; PP	2015 252
2	Length adjustment piece C100/150 L = 315-440 mm	2015 251
3	Lead pan with bowl C100/150 for roof execution (gradient 25-55° adjustable), Ground plate 500 x 500 mm, brick red coated	2001 441
4	Supply air/flue gas-roof execution C100/150 incl. pipe clip, brick red coated	2001 439

Additional parts to be ordered if necessary:

Flange for flat roofs C100/150 for roof heating centre	2001 442
Length element C100/150 L = 200 mm	2015 246
C100/150 L = 450 mm	2015 247
C100/150 L = 950 mm	2015 248
C100/150 L = 1950 mm	2015 249
Inspection T-piece C100/150 PP	2015 256
Pipe clip for wall mounting C150	2001 433
Clamp tape Ø 150 mm with integrated seal ring	2001 444
Viton seal ring Ø 100 mm to flue gas tube PP aluminium	2018 531

Further components see section following the assembly kits.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

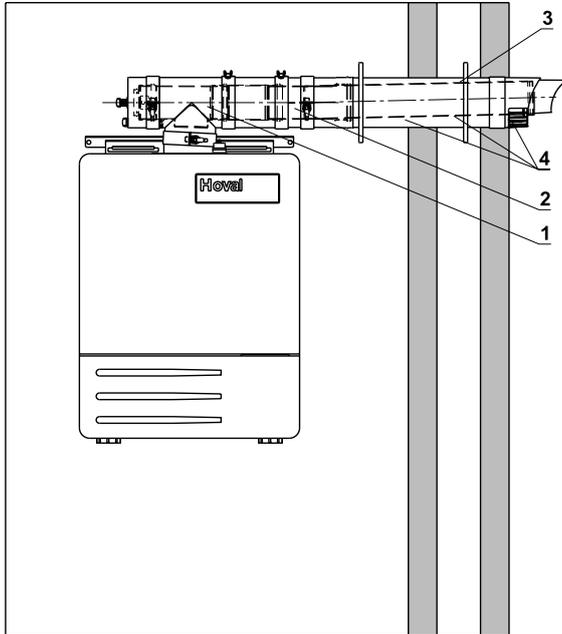
Approval sticker

must be ordered separately, see individual parts

■ Part No.

Part No.

Room air independent operation



Example TG MD2 C100/150 PP to
TopGas® classic (35-60):

1	Inspection T-piece with measure opening C100/150 PP	2015 257
2	Length adjustment piece C100/150 L = 315-440 mm	2015 251
3	Wall socket to wall duct D = 180 mm, L = 300 mm	2001 437
4	Supply air/flue gas-roof execution C100/150, L = 600 mm Incl. wall plates 220 x 220 mm PP	2001 436

Additional parts to be ordered
if necessary:

Length element	C100/150 L = 200 mm	2015 246
	C100/150 L = 450 mm	2015 247
	C100/150 L = 950 mm	2015 248
	C100/150 L = 1950 mm	2015 249

Pipe clip for fastening E100 2001 502

Clamp tape Ø 150 mm with integrated seal ring 2001 444

Viton seal ring Ø 100 mm to flue gas tube PP aluminium 2018 531

Further components see section following the assembly kits.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

Approval sticker

must be ordered separately, see individual parts

■ Part No.

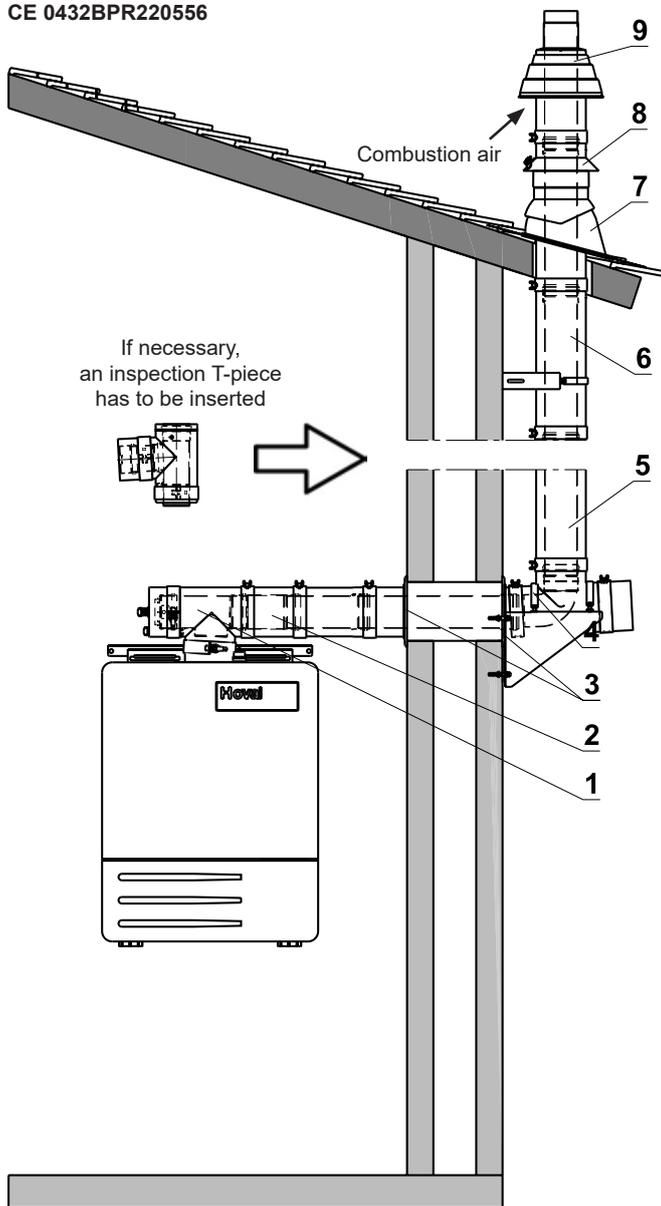
Part No.

Room air independent operation

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CE 0432BPR220556



Example TG AW2 C100/150 PP black to TopGas® classic (35-80):

1	Inspection-T Piece with measure opening C100/150 PP	2015 257
2	Length adjustment piece C100/150 L = 315-440 mm	2015 251
3	Concentrical wall duct with wall plate 220 x 220 mm C100/150 white coated (RAL9016)	2025 704
4	Outside wall-support console Ø 150 mm incl. mounting material, High grade steel	2025 705
5	Arch T-piece C100/150	2038 105
6	Outside wall-distant holder Ø 150 mm High grade steel incl. mounting material	2025 707
7	Lead pan with bowl C100/150 for roof duct (gradient 25-55° adjustable), ground plate 500 x 500 mm, black coated	2001 440
8	Rain keep-off rail, black coated (RAL 9005)	2030 067
9	LAS-mouth piece C100/150 Flue gas tube PP of high grade steel white coated (RAL 9016)	2025 708

Additional parts to be ordered if necessary:

Length element	C100/150 L = 200 mm	2015 246
	C100/150 L = 450 mm	2015 247
	C100/150 L = 950 mm	2015 248
	C100/150 L = 1950 mm	2015 249

Inspection T-piece C100/150 PP 2015 256

Pipe clip for wall mounting C150 2001 433

Clamp tape D = 150 mm with integrated seal ring 2001 444

Outside wall-distant holder Ø = 150 mm high grade steel 2025 707

Viton seal ring Ø 100 mm to flue gas tube PP 2018 531

Further components see section following the assembly kits.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

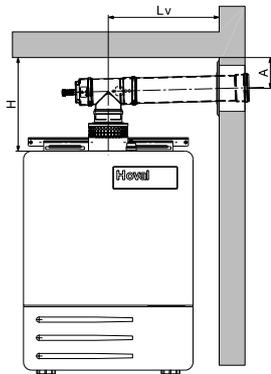
If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker

must be ordered separately, see individual parts

■ Dimensions

Assembly kit
TG K2 E100 PP
TG K2 E100 Flex PP

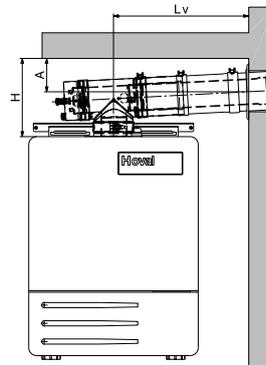


Minimum dimensions:

A = 115 mm
Lv = 390 mm
H = 360 mm

Lv (mm)	H (mm)
390	360
500	365
1000	390
1500	415
2000	440

Assembly kit
TG K2 C100/150 PP-A
TG K2 C100/150 Flex PP-A



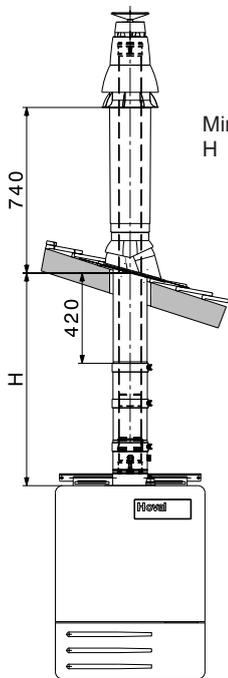
Minimum dimensions:

A = 115 mm
Lv = 395-510 mm
H = 355 mm

Lv (mm)	H (mm)
400	310
500	320
1000	345
1500	370

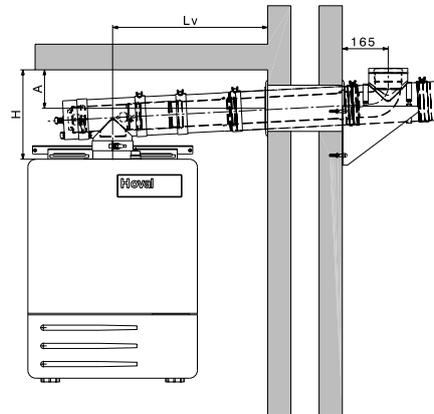
All dimensions apply to both left hand and right hand connection.

Assembly kit
TG DHZ2 C100/150 PP black
TG DHZ2 C100/150 PP red



Minimum dimensions:
H = 860-985 mm

Assembly kit TG AW2 C100/150 PP black



Minimum dimensions:

A = 115 mm
Lv = 400-510 mm
H = 310 mm

Lv (mm)	H (mm)
400	310
500	320
1000	345
1500	370
2000	395

■ Engineering

General

The installation of flue ducts must be carried out in accordance with all local and national regulations and directives.

Measure opening

Each supply and exhaust pipe must be equipped with a testing vent (already included in the construction sets). These should be placed in such a way that they can conveniently be reached to perform a measurement.

Length adjustment

The concentric length elements should not be shortened. In order to obtain the desired length the length compensation pieces or the reducing lengths should be used. The basic flue pipes can be reduced in length to fit. However, the cut ends must be carefully smoothed to avoid damage to the gas kit of the connecting piece.

Distant holder

When installing the pipes in a shaft a spacer must be used at least every 2 metres. To provide support for the chimney stack the lowest element must be fixed (bearing rail or pipe clip).

Flue gas temperature

The Hoval flue duct systems E100 PP, E100 Flex PP and C100/150 PP are long-term temperature resistant to 120 °C.

Connecting pipes

Horizontal connecting pipes must be installed with an inclination of at least 50 mm per metre of their length installed in the direction of the boiler to allow free return flow of condensation water towards the boiler. The whole exhaust system must be installed so that condensate can never collect at any point. The flue gas lines must be secured against unwanted loosening of the plug connections.

Condensate drain

Condensation water accumulating in the flue can be drained via the boiler.

Chimney shaft

For a concentric chimney connection in which the combustion air is fed through the chimney the following minimum chimney cross-sections must be observed:

cross-section 150 mm x 150 mm for rectangular chimneys, Ø 170 mm diameter for round chimneys.

In determining the chimney dimensions the installation of the spacers should be taken into account.

With simple chimney connections a grille must be installed for the purpose of back ventilation in the shaft.

Sizing basis

The following diagrams were computed assuming a geographic altitude of 1000 m above sea level.

**Maximum flue gas pipe length
Chimney connection and flue gas pipe in chimney stack**

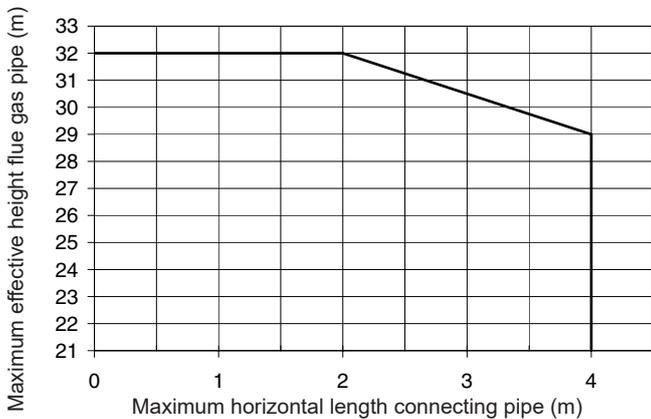
Note:

The data contained in the following diagrams represent guide values. An exact calculation for the flue gas duct must be made on-site.

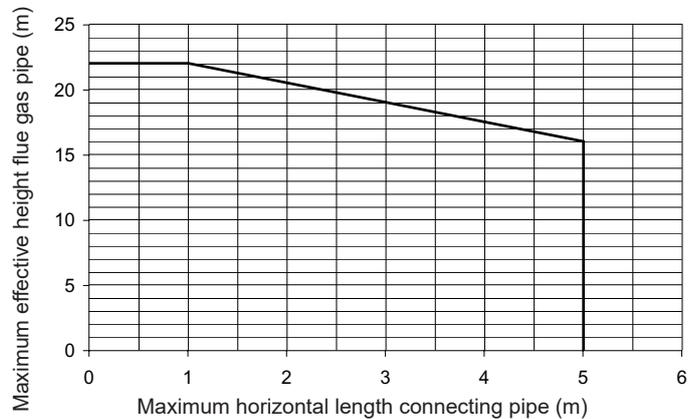
Note:

The data contained in the following diagrams represent guide values calculated at maximum output. An exact calculation for the flue gas duct must be made on-site.

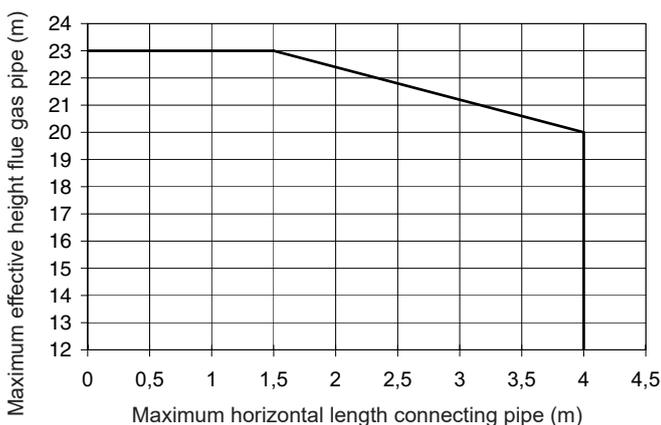
**TopGas® classic (35,45)
Assembly kit TG K2 E100 PP-A
Assembly kit TG K2 E100 Flex PP-A**



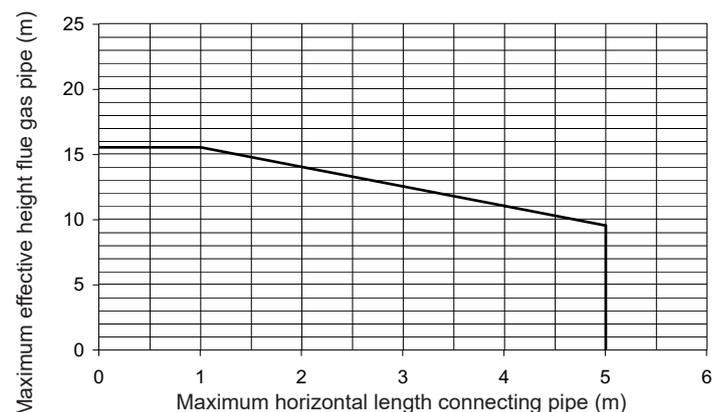
**TopGas® classic (35,45)
Assembly kit TG K2 C100/150 PP-A
Assembly kit TG K2 C100/150 Flex PP-A**



**TopGas® classic (60,80)
Assembly kit TG K2 E100 PP-A
Assembly kit TG K2 E100 Flex PP-A**



**TopGas® classic (60,80)
Assembly kit TG K2 C100/150 PP-A
Assembly kit TG K2 C100/150 Flex PP-A**



■ Engineering

The following form pieces have already been taken into account:

1 T-piece 90° for connection to the boiler and 1 support arch 90° for supporting the flue pipe in the shaft, 1 component for the end of the chimney.

For all other form pieces in the connecting sections to the chimney the following lengths must be deducted from the maximum chimney heights for TopGas® classic (35-80):

Form piece in the connecting duct	PP-pipes flexible pipes
1 arch 90° E100	2.5 m
1 arch 45° E100	1.5 m
1 T-piece 90° E100	4.0 m
1 arch 90° C100/150	2.5 m
1 arch 45° C100/150	1.5 m
1 T-piece 90° C100/150	4.0 m

Separate ducting of flue gas and combustion air

By fitting the separator C100/150 PP -> 2 x E100 PP the flue gas and the combustion air can be ducted separately.

To determine the total length of PP flue gas tube and combustion air duct the total lengths can be obtained from the diagrams and calculated for the simple chimney installation.

For the remaining form pieces which have to be installed the lengths to be removed must be read off from the table.

Maximum flue gas pipe length for heating control on roof (DHZ) / wall duct (MD)

	DHZ	MD
TopGas® classic (35)	16 m	14 m
TopGas® classic (45)	19 m	17 m
TopGas® classic (60)	11 m	9 m
TopGas® classic (80)	6 m	5 m

Roof heating centre C100/150
No form pieces taken into account

For all other form pieces the following lengths must be deducted from the flue pipe lengths:

1 arch 90° C100/150	2.5 m
1 arch 45° C100/150	1.5 m
1 T-piece 90° C100/150	3.0 m

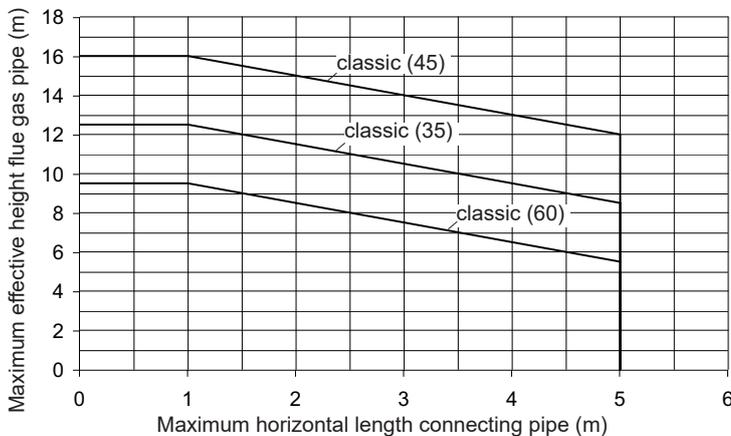
**Maximum flue gas pipe length, Outside wall systems
Assembly TG AW2 C100/150 PP black**

Note:

The data contained in the following diagrams represent guide values calculated at maximum output. An exact calculation for the flue gas duct must be made on-site.

1 T-piece and 1 90° support arch C100/150 as well as the chimney cowl are included as form pieces.

TopGas® classic (35-60)



**Flue gas system in shaft
ambient air independent operation**

The connecting pipe and the vertical flue pipe in the shaft are also to be installed concentrically in C100/150.

This results in the following maximum permitted lengths for flue pipes:
1 T-piece and 1 90° support arch C100/150 as well as the chimney cowl are included as form pieces.

■ Description

Flue gas system Type E80 PP

- Air supply and flue gas system in precast construction method for quick installation.
- Specially suited to oil and gas fired condensing systems.
- 80 mm diameter PP pipe for flue gas with practical plug-in sleeve connection with Viton sealing ring for joining the individual system components.
- PP: permanent temperature resistance up to 120 °C.
- All long elements can be shortened. The cut edges must be smoothed to avoid damage to sealing.

Concentric supply air / flue gas system LAS Type C80/125 PP

- Air supply and flue gas system in precast construction method for quick installation.
- Specially suited to oil and gas fired condensing systems.
- 80 mm diameter PP pipe for flue gas concentrically mounted in the supply pipe with practical plug-in sleeve connection with Viton sealing ring for joining the individual system components.
- PP: permanent temperature resistance up to 120 °C.
- Concentrically mounted supply air pipe with 125 mm diameter made of steel, white lacquer (RAL 9016).
- System components to be joined using plug-in connectors with sealing ring and clamp tape.
- For ambient air independent operation.

Flexible flue gas system Type E80 Flex PP

- Flexible flue gas system in precast construction method for quick installation.
- Specially suited to oil and gas fired condensing systems.
- The system can be installed in existing angled shafts without the need for extra masonry work.
- Flexible PP flue pipe with internal diameter D = 80 mm with double walls to prevent damage during installation and to reduce the flow resistance on the flue gas side.
- PP: permanent temperature resistance up to 120 °C.

Assembly kits

The installation kits contain all the components shown in the drawings. All other components such as length elements, form pieces and fixing components must be ordered separately.

The gas outlet shown in the drawing is intended as an example of a possible installation. In practice the configuration must be adapted to the individual situation, taking account of local regulations.

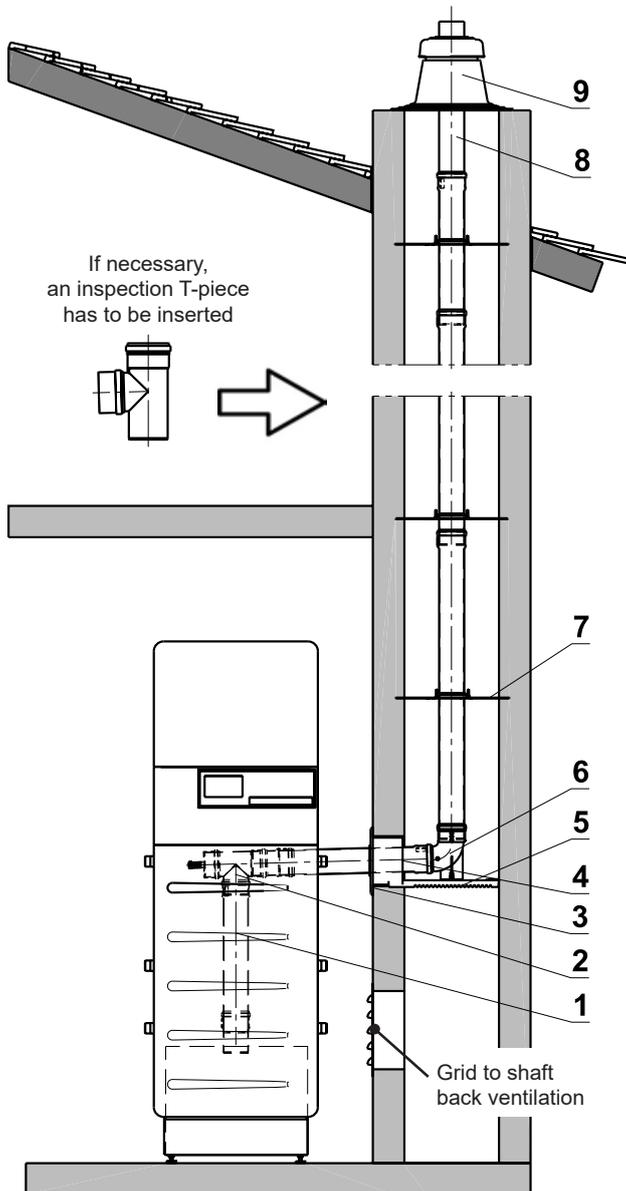
Individual parts

A detailed list of all the parts used in the flue pipe systems and construction sets can be found in the section following the assembly kits.

■ Part No.

Room air dependent operation

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VKF-No. Z 14604
CE 0432BPR220556



Part No.

Assembly kit UG K1 E80 PP to UltraGas® (15-50):

	Part No.
6007 284	Assembly kit UG K1 E80 PP to UltraGas® (15-50):
2001 446	1 Length element E80 L = 200 mm PP
2001 457	2 T-piece with measure opening E80 - 90° PP
2001 466	3 Duct E80 Wall plate 220 x 220 mm with seal ring and casing tube D = 150 mm, L = 300 mm
2001 447	4 Length element E80 L = 450 mm PP
619 303	5 Bearing rail E Flue gas tube support in shaft
2001 455	6 Support arch E80 - 90° PP
2001 462	7 Set (2 pieces) distant holder E80 of polypropylene for tube centering in shaft; 3 sets
2001 465	8 End tube E80 L = 500 mm to top part 80; high grade steel
2001 464	9 Top part 80 for chimney end for back ventilation with shaft cover 400 x 400 mm, clamp tape and seal ring

Additional parts to be ordered if necessary:

2001 447	Length element E80 L = 450 mm PP
2001 448	Length element E80 L = 950 mm PP
2001 449	Length element E80 L = 1950 mm PP
2001 458	Inspection T-piece E80-90°
618 749	Pipe clip for wall mounting E80
2001 462	Set (2 pieces) distant holder E80 of polypropylene for tube centering in shaft
2018 530	Viton seal ring D = 80 mm to flue gas tube PP
619 304	Grid, aluminium to shaft back ventilation

Further components see section following the assembly kits.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

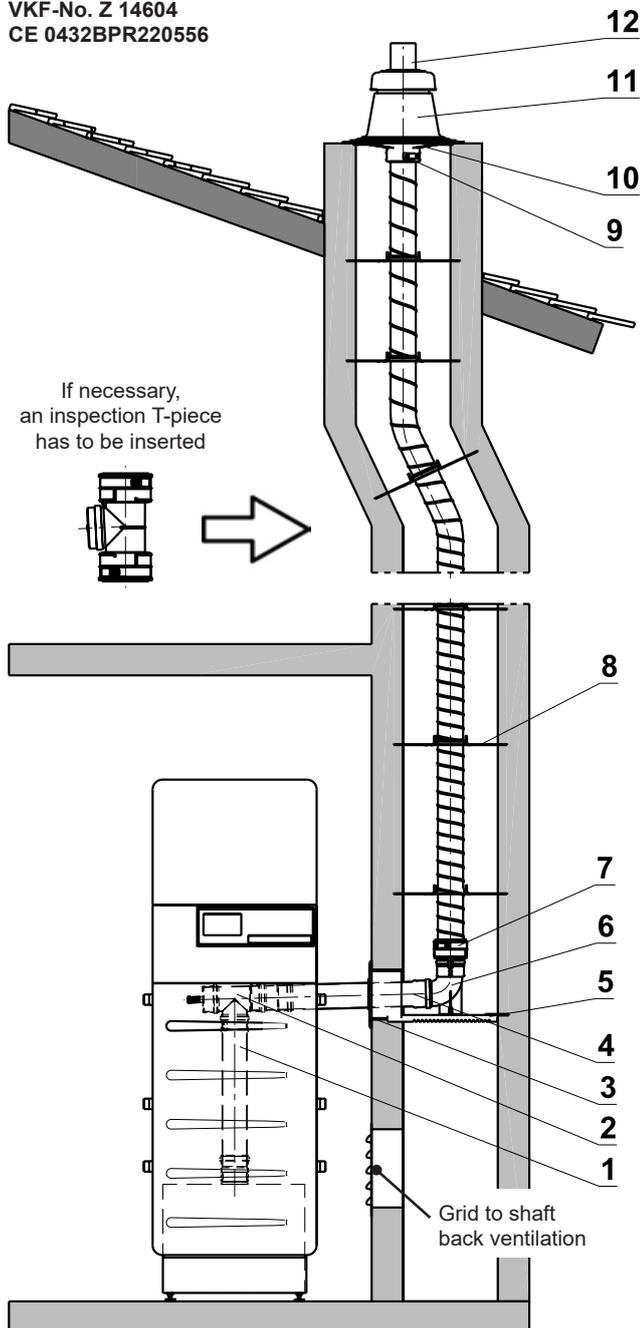
Approval sticker

must be ordered separately, see individual parts

■ Part No.

Room air independent operation

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If necessary,
an inspection T-piece
has to be inserted

Grid to shaft
back ventilation

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

Approval sticker

must be ordered separately, see individual parts

Part No.

Assembly kit UG K1 E80 Flex PP to UltraGas® (15-50):

Part No.	Description	Part No.
1	Length element E80 L = 200 mm PP	2001 446
2	T-piece with measure opening E80 - 90° PP	2001 457
3	Duct E80 Wall plate 220 x 220 mm with seal ring and casing tube D = 150 mm, L = 300 mm	2001 466
4	Length element E80 L = 450 mm PP	2001 447
5	Bearing rail E Flue gas tube support in shaft	619 303
6	Support arch E80 - 90° PP	2001 455
7	Connection piece below E80 Flex-PP	2008 126
8	Distant holder E80 Flex-PP, 3 pieces	2008 138
9	Mouth-connection piece E80 Flex-PP	2008 124
10	Assembly cross E80 Flex-PP, high grade steel	2008 125
11	Top part 80 for chimney end for back ventilation with shaft cover 400 x 400 mm, clamp tape and seal ring	2001 464
12	End tube E80 L = 500 mm to top part 80; high grade steel	2001 465

Additional parts to be ordered if necessary:

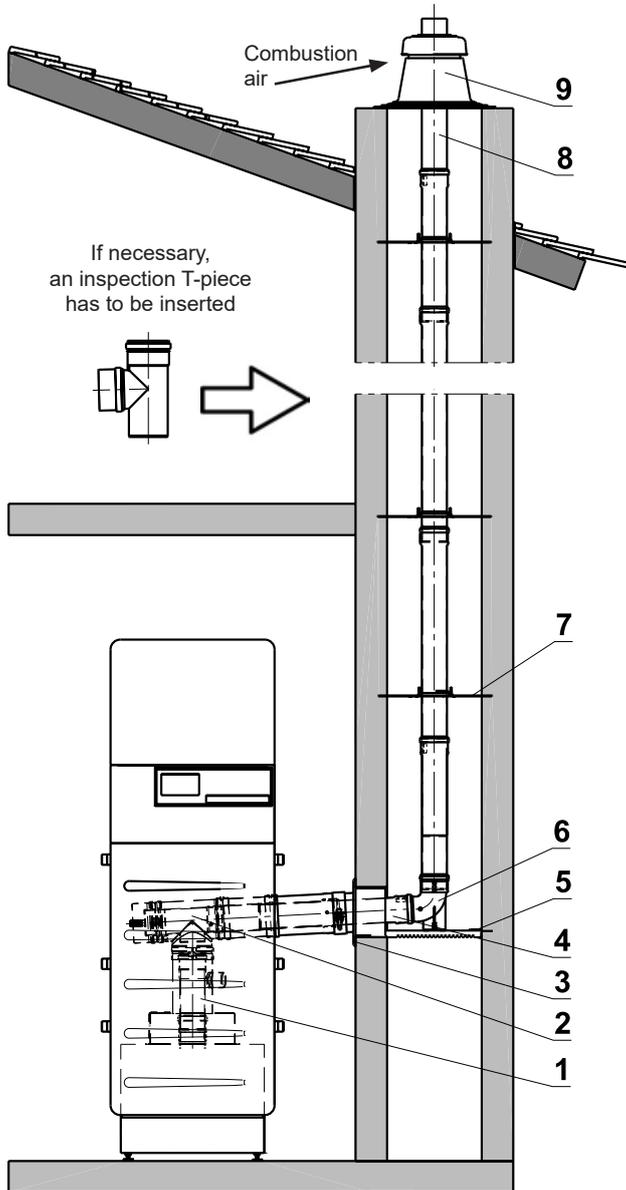
Length element E80 L = 450 mm PP	2001 447
Length element E80 L = 950 mm PP	2001 448
Length element E80 L = 1950 mm PP	2001 449
Inspection T-piece E80 Flex-PP	2008 127
Pipe clip for wall mounting E80	618 749
Viton seal ring D = 80 mm to flue gas tube PP	2018 530
Wave tube E80 Flex-PP; Price per metre	2008 131
Distant holder E80 Flex-PP, 1 piece	2008 138
Viton seal ring E80 Flex-PP	2008 130
Grid, aluminium to shaft back ventilation	619 304

Further components see end of this section.

■ Part No.

Room air independent operation

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This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker
must be ordered separately, see individual parts

Part No.

Assembly kit UG K3 C80/125 PP to UltraGas® (15-50) 6025 139

- | | | |
|---|---|----------|
| 1 | Connecting assembly kit LAS to UltraGas® (15-50) and Boiler connection piece E80 ->C80/125 PP, L = 200 mm | 6027 510 |
| 2 | Inspection T-piece C80/125 PP with measure opening | 2010 165 |
| 3 | Duct C80/125
Wall plate with splice 220 x 220 mm
Scabbard tube D = 150 mm, L = 300 mm | 618737 |
| 4 | Length element E80 L = 450 mm PP | 2001 447 |
| 5 | Bearing rail E
Flue gas tube support in shaft | 619 303 |
| 6 | Support arch E80 - 90° PP | 2001 455 |
| 7 | Set (2 pieces) distant holder E80 of polypropylene for tube centering in shaft; 3 sets | 2001 462 |
| 8 | End tube E80 L = 500 mm to top part 80; high grade steel | 2001 465 |
| 9 | Top part 80 for chimney end for back ventilation with shaft cover 400 x 400 mm, clamp tape and seal ring | 2001 464 |

Additional parts to be ordered if necessary:

- | | |
|---|----------|
| Length element C80/125 PP L = 200 | 2010 154 |
| Length element C80/125 PP L = 450 | 2010 155 |
| Length element C80/125 PP L = 950 | 2010 156 |
| Length element C80/125 PP L = 1950 | 2010 157 |
| Length adjustment piece C80/125 L = 315-440 mm | 2010 159 |
| Length element, can be shortened C80/125 PP L = 100-1000 mm | 2010 158 |
| Inspection T-piece E80-90° | 2001 458 |
| Pipe clip for wall mounting C125 | 618 736 |
| Clamp tape D = 125 mm with integrated seal ring | 618 758 |

- | | |
|--|----------|
| Length element E80 L = 450 mm PP | 2001 447 |
| Length element E80 L = 950 mm PP | 2001 448 |
| Length element E80 L = 1950 mm PP | 2001 449 |
| Set (2 pieces) distant holder E80 of polypropylene for tube centering in shaft | 2001 462 |
| Viton seal ring D = 80 mm to flue gas tube PP | 2018 530 |

Further components see end of this section.

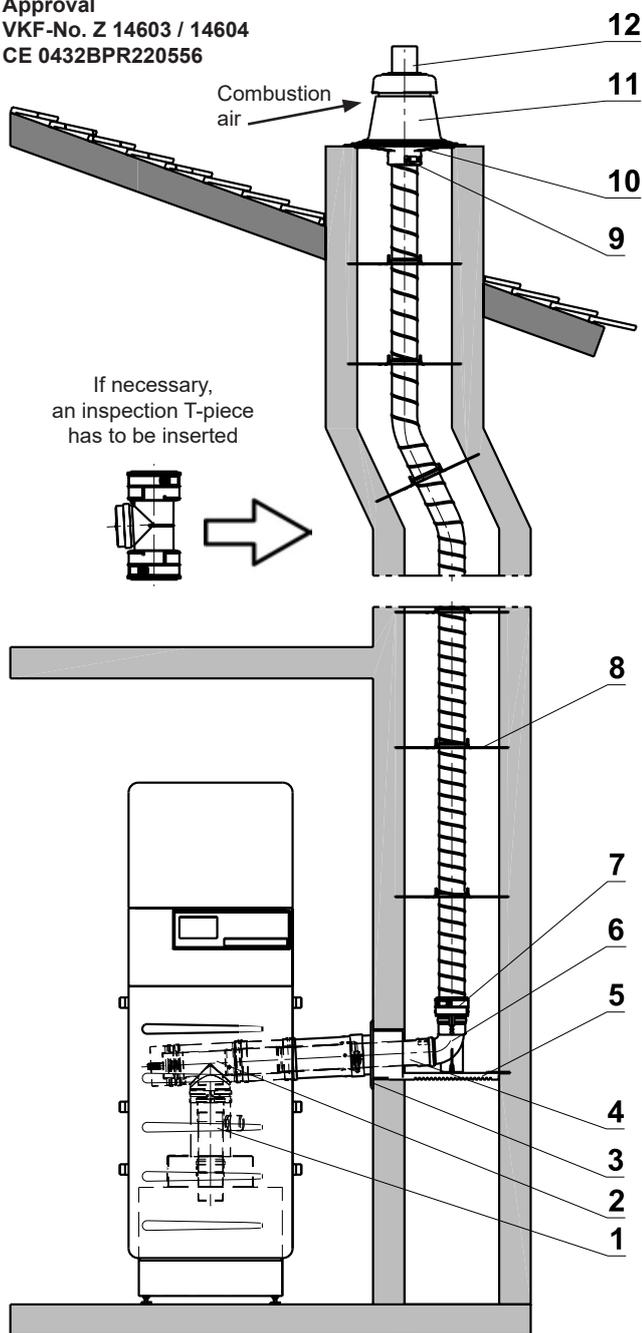
Before assembly of flue gas system the chimney shaft must be cleaned.

■ Part No.

Part No.

Room air independent operation

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Example UG K3 C80/125 Flex PP to UltraGas® (15-50):

1	Connecting assembly kit LAS to UltraGas® (15-50) and Boiler connection piece E80 -> C80/125 PP, L = 200 mm	6027 510
2	Inspection T-piece C80/125 PP with measure opening	2010 165
3	Duct C80/125 Wall plate with splice 220 x 220 mm Scabbard tube D = 150 mm, L = 300 mm	618 737
4	Length element E80 L = 450 mm PP	2001 447
5	Bearing rail E Flue gas tube support in shaft	619 303
6	Support arch E80 - 90° PP	2001 455
7	Connection piece below E80 Flex-PP	2008 126
8	Distant holder E80 Flex-PP; 1 piece, a distant holder must be used at least every 2 metres	2008 138
9	Mouth-connection piece E80 Flex-PP	2008 124
10	Assembly cross E80 Flex-PP, high grade steel	2008 125
11	Top part 80 for chimney end for back ventilation with shaft cover 400 x 400 mm, clamp tape and seal ring	2001 464
12	End tube E80 L = 500 mm to top part 80; high grade steel	2001 465

Additional parts to be ordered if necessary:

Length element C80/125 PP L = 200	2010 154
Length element C80/125 PP L = 450	2010 155
Length element C80/125 PP L = 950	2010 156
Length element C80/125 PP L = 1950	2010 157
Length adjustment piece C80/125 L = 315-440 mm	2010 159
Length element, can be shortened C80/125 PP L = 100-1000 mm	2010 158
Inspection T-piece E80 Flex-PP	2008 127
Pipe clip for wall mounting C125	618 736
Clamp tape D = 125 mm with integrated seal ring	618 758
Wave tube E80 Flex-PP	2008 131
Price per metre	
Distant holder E80 Flex-PP, 1 piece	2008 138
Viton seal ring E80 Flex PP	2008 130

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker
must be ordered separately, see individual parts

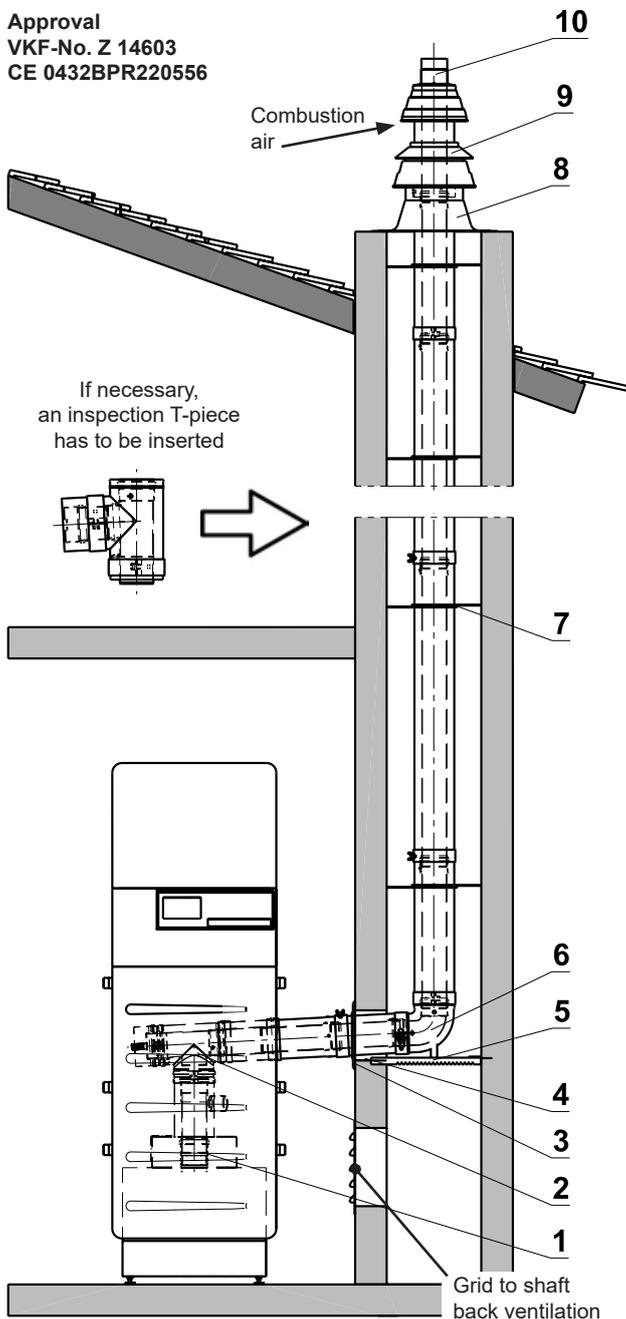
Further components see end of this section.

Before assembly of flue gas system the chimney shaft must be cleaned.

■ Part No.

Room air independent operation

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VKF-No. Z 14603
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Example UG K3-LAS C80/125 PP to UltraGas® (15-35):

	Part No.
1 Connection assembly kit LAS to UltraGas® (15-35) and Boiler connection piece E80 -> C80/125 PP, L = 200 mm	6027 510
2 Inspection T-piece C80/125 PP with measure opening	2010 165
3 Wall plate to wall duct C80/125; 220 x 220 mm	2029 322
4 Wall socket D = 150 mm, L = 300 mm to wall duct	2001 419
5 Bearing rail E Flue gas tube support in shaft	619 303
6 Support arch C80/125 - 90° PP	2018 526
7 Set (2 pieces) distant holder E130 of spring steel; a distant holder must be used at least every 2 metres	2010 495
8 Top part E130 for chimney end for back ventilation with shaft cover	2025 747
9 Rain keep-off rail D = 125 black (RAL 9005)	2018 554
10 LAS-mouth piece C80/125 PP Flue gas tube of high grade steel white coated	2018 528

Additional parts to be ordered if necessary:

Length element C80/125 PP L = 200	2010 154
Length element C80/125 PP L = 450	2010 155
Length element C80/125 PP L = 950	2010 156
Length element C80/125 PP L = 1950	2010 157
Length adjustment piece C80/125 L = 315-440 mm	2010 159
Length element, can be shortened C80/125 PP L = 100-1000 mm	2010 158
Inspection T-piece C80/125 PP	2010 164
Pipe clip for wall mounting C125	618 736
Clamp tape D = 125 mm with integrated seal ring	618 758

Set (2 pieces) distant holder E 130 of spring steel	2010 495
---	----------

Viton seal ring D = 80 mm to flue gas tube PP	2018 530
---	----------

Further components see end of this section.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

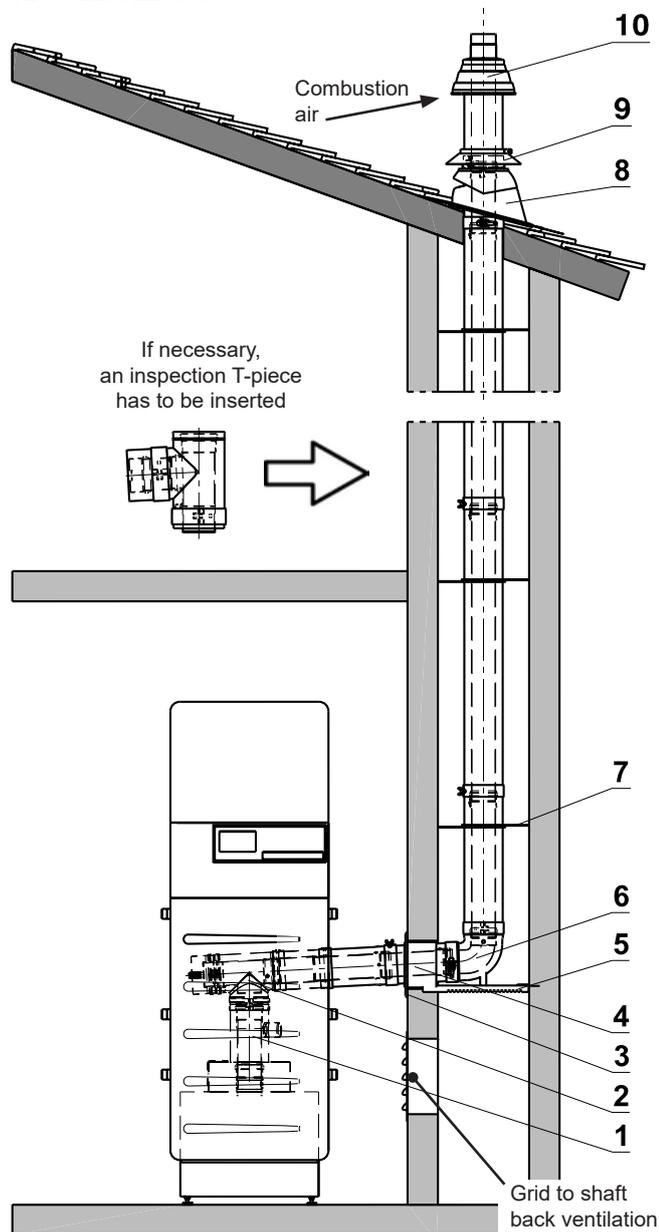
Approval sticker

must be ordered separately, see individual parts

■ Part No.

Room air independent operation

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This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker
must be ordered separately, see individual parts

Part No.

Example UG KD3-LAS C80/125 PP black, to UltraGas® (15-35):

1	Connection assembly kit LAS to UltraGas® (15-35) and Boiler connection piece E80 -> C80/125 PP, L = 200 mm	6027 510
2	Inspection T-piece C80/125 PP with measure opening	2010 165
3	Wall plate to wall duct C80/125; 220 x 220 mm	2029 322
4	Wall socket D = 150 mm, L = 300 mm to wall duct	2001 419
5	Bearing rail E Flue gas tube support in shaft	619 303
6	Support arch C80/125 - 90° PP	2018 526
7	Set (2 pieces) distant holder E130 of spring steel; a distant holder must be used at least every 2 metres	2010 495
8	Lead pan with bowl C80/125 for roof execution (gradient 25-55° adjustable), ground plate 500 x 500 mm, black coated	618 756
9	Rain keep-off rail black coated (RAL 9005)	2018 554
10	LAS-mouth piece C80/125 PP Flue gas tube of high grade steel white coated	2018 528

Additional parts to be ordered if necessary:

	Length element C80/125 PP L = 200	2010 154
	Length element C80/125 PP L = 450	2010 155
	Length element C80/125 PP L = 950	2010 156
	Length element C80/125 PP L = 1950	2010 157
	Length adjustment piece C80/125 L = 315-440 mm	2010 159
	Length element, can be shortened C80/125 PP L = 100-1000 mm	2010 158
	Inspection T-piece C80/125 PP	2010 164
	Pipe clip for wall mounting C125	618 736
	Clamp tape D = 125 mm with integrated seal ring	618 758

Set (2 pieces) distant holder E 130 of spring steel 2010 495

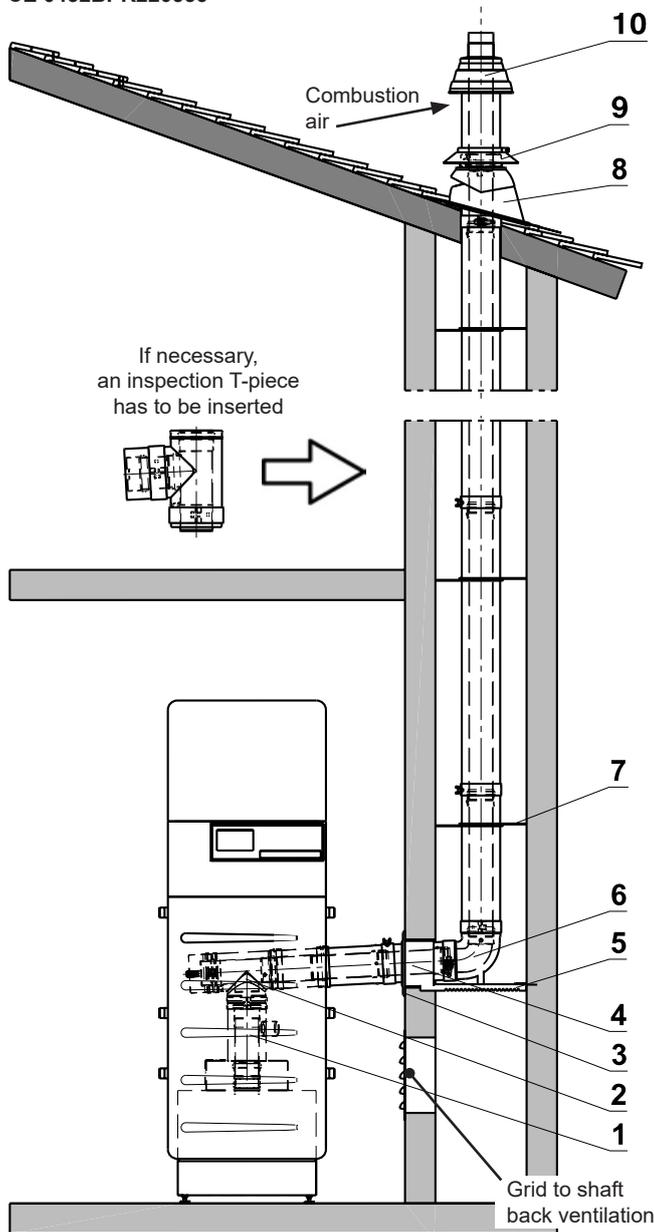
Viton seal ring D = 80 mm to flue gas tube PP 2018 530

Further components see end of this section.

■ Part No.

Room air independent operation

Approval
VKF-No. Z 14603
CE 0432BPR220556



This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker

must be ordered separately, see individual parts

Part No.

Example UG KD3-LAS C80/125 PP red, to UltraGas® (15-35):

1	Connection assembly kit LAS to UltraGas® (15-35) and Boiler connection piece E80 -> C80/125 PP, L = 200 mm	6027 510
2	Inspection T-piece C80/125 PP with measure opening	2010 165
3	Wall plate to wall duct C80/125; 220 x 220 mm	2029 322
4	Wall socket D = 150 mm, L = 300 mm to wall duct	2001 419
5	Bearing rail E Flue gas tube support in shaft	619 303
6	Support arch C80/125 - 90° PP	2018 526
7	Set (2 pieces) distant holder E130 of spring steel; a distant holder must be used at least every 2 metres	2010 495
8	Lead pan with bowl C80/125 for roof duct (gradient 25-55° adjustable), ground plate 500 x 500 mm, brick-red coated	2001 421
9	Rain keep-off rail brick-red coated (RAL 8023)	2018 555
10	LAS-mouth piece C80/125 PP Flue gas tube of high grade steel white coated	2018 528

Additional parts to be ordered if necessary:

Length element C80/125 PP L = 200	2010 154
Length element C80/125 PP L = 450	2010 155
Length element C80/125 PP L = 950	2010 156
Length element C80/125 PP L = 1950	2010 157
Length adjustment piece C80/125 L = 315-440 mm	2010 159
Length element, can be shortened C80/125 PP L = 100-1000 mm	2010 158
Inspection T-piece C80/125 PP	2010 164
Pipe clip for wall mounting C125	618 736
Clamp tape D = 125 mm with integrated seal ring	618 758

Set (2 pieces) distant holder E 130 of spring steel 2010 495

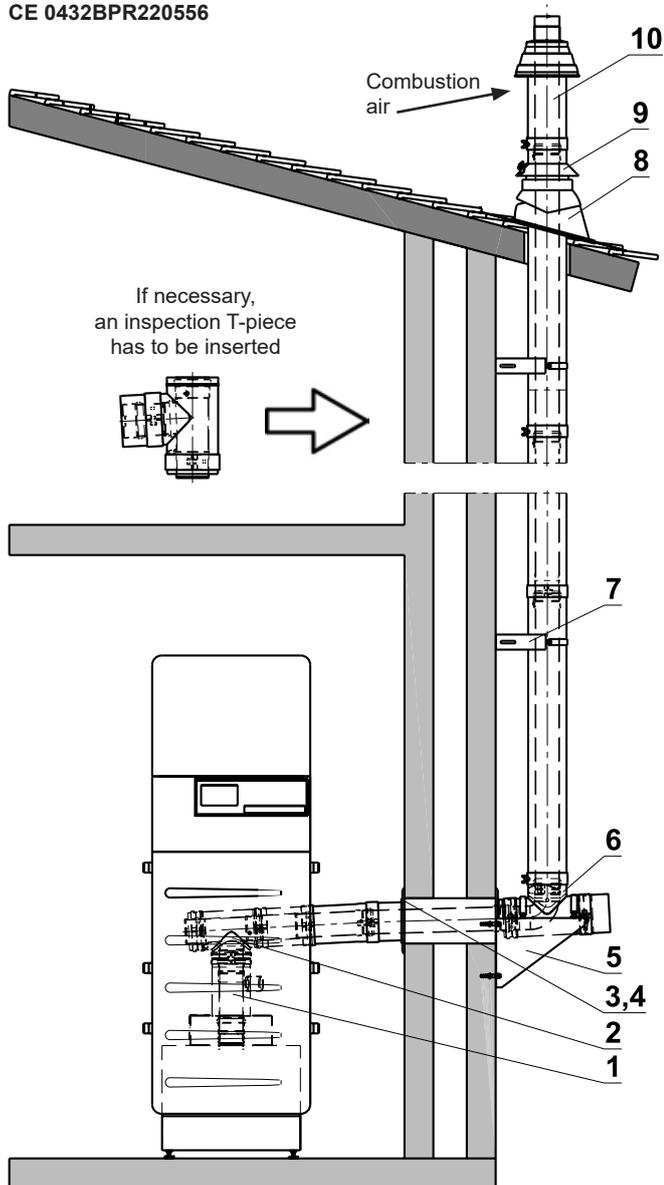
Viton seal ring D = 80 mm to flue gas tube PP 2018 530

Further components see end of this section.

■ Part No.

Room air independent operation

Approval
VKF-No. Z 14603
CE 0432BPR220556



This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker

must be ordered separately, see individual parts

Part No.

Example UG AW3 C80/125 PP black to UltraGas® (15-35):

1	Connection assembly kit LAS to UltraGas® (15-35) and Boiler connection piece E80 -> C80/125 PP, L = 200 mm	6027 510
2	Inspection T-piece C80/125 PP with measure opening	2010 165
3	Wall plate to wall duct C80/125; 220 x 220 mm	2029 322
4	Wall socket D = 150 mm, L = 300 mm to wall duct	2001 419
5	Outside wall support console D = 125 mm incl. mounting material; high grade steel	2004 114
6	Arch T-piece C80/125 PP	2038 104
7	Outside wall distant holder D = 125 mm; high grade steel	2004 116
8	Lead pan with bowl C80/125 for roof duct (gradient 25-55° adjustable), ground plate 500 x 500 mm, black coated	618 756
9	Rain keep-off rail, black coated (RAL 9005)	2018 554
10	LAS-mouth piece C80/125 PP Flue gas tube of high grade steel white coated	2018 528

Additional parts to be ordered if necessary:

Length element C80/125 PP L = 200	2010 154
Length element C80/125 PP L = 450	2010 155
Length element C80/125 PP L = 950	2010 156
Length element C80/125 PP L = 1950	2010 157
Length adjustment piece C80/125 L = 315-440 mm	2010 159
Length element, can be shortened C80/125 PP L = 100-1000 mm	2010 158
Inspection T-piece C80/125 PP	2010 164
Pipe clip for wall mounting C125	618 736
Clamp tape D = 125 mm with integrated seal ring	618 758

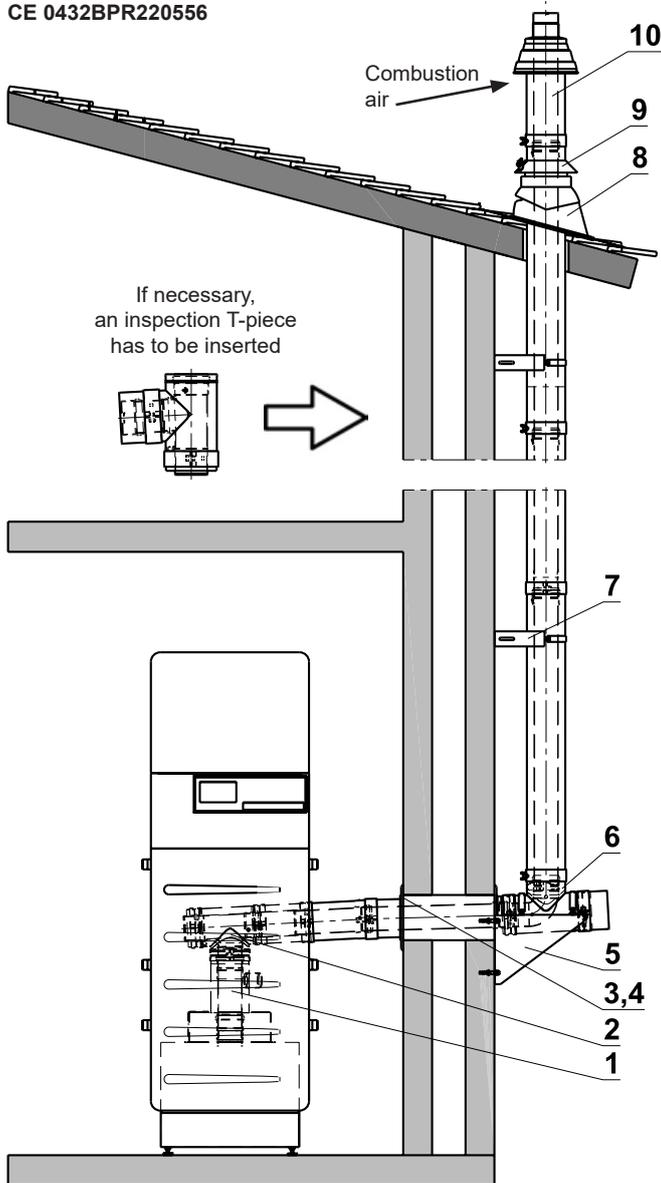
Outside wall distant holder D = 125 mm high grade steel	2004 116
Viton seal ring D = 80 mm to flue gas tube PP	2018 530

Further components see section following the assembly kits.

■ Part No.

Room air independent operation

Approval
VKF-No. Z 14603
CE 0432BPR220556



This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker

must be ordered separately, see individual parts

Part No.

Example UG AW3 C80/125 PP red to UltraGas® (15-35):

1	Connection assembly kit LAS to UltraGas® (15-35) and Boiler connection piece E80 -> C80/125 PP, L = 200 mm	6027 510
2	Inspection T-piece C80/125 PP with measure opening	2010 165
3	Wall plate to wall duct C80/125; 220 x 220 mm	2029 322
4	Wall socket D = 150 mm, L = 300 mm to wall duct	2001 419
5	Outside wall support console D = 125 mm incl. mounting material; high grade steel	2004 114
6	Arch T-piece C80/125 PP	2038 104
7	Outside wall distant holder D = 125 mm; high grade steel	2004 116
8	Lead pan with bowl C80/125 for roof duct (gradient 25-55° adjustable), ground plate 500 x 500 mm, brick-red coated	2001 421
9	Rain keep-off rail, brick-red coated (RAL 8023)	2018 555
10	LAS-mouth piece C80/125 PP Flue gas tube of high grade steel white coated	2018 528

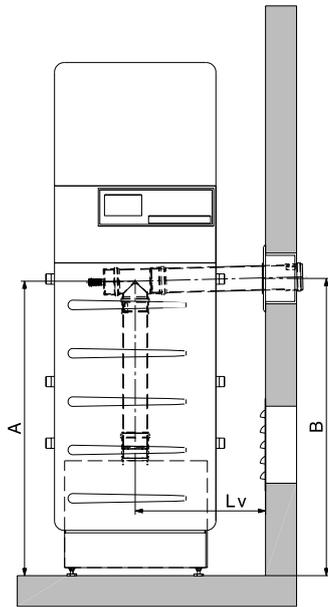
Additional parts to be ordered if necessary:

Length element C80/125 PP L = 200	2010 154
Length element C80/125 PP L = 450	2010 155
Length element C80/125 PP L = 950	2010 156
Length element C80/125 PP L = 1950	2010 157
Length adjustment piece C80/125 L = 315-440 mm	2010 159
Length element, can be shortened C80/125 PP L = 100-1000 mm	2010 158
Inspection T-piece C80/125 PP	2010 164
Pipe clip for wall mounting C125	618 736
Clamp tape D = 125 mm with integrated seal ring	618 758
Outside wall distant holder D = 125 mm high grade steel	2004 116
Viton seal ring D = 80 mm to flue gas tube PP	2018 530

Further components see section following the assembly kits.

■ Dimensions

Assembly kit UG K1 E80 PP
Assembly kit UG K1 E80 Flex PP

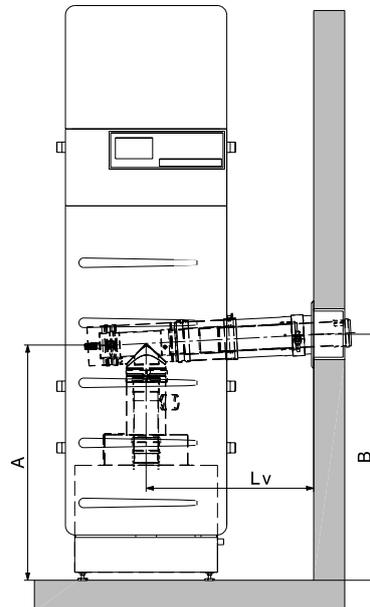


Minimum dimensions:
A = 520 mm
Lv = 410 mm
B = 540 mm

Lv (mm)	B (mm)
500	545
1000	570
1500	595
2000	620

Dimensions apply to both left-hand and right-hand installation.

Assembly kit UG K3 C80/125 PP
Assembly kit UG K3 C80/125 Flex PP

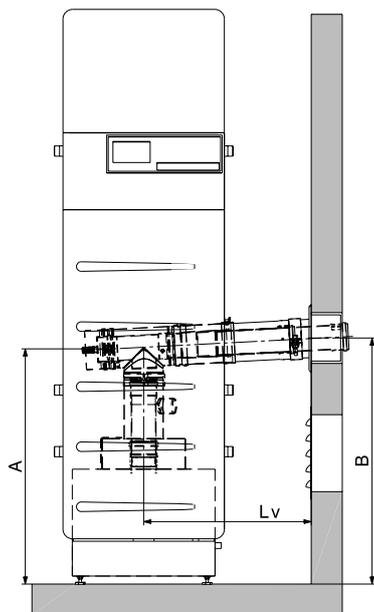


Minimum dimensions:
A = 750 mm
Lv = 410 mm
B = 760 mm

Lv (mm)	B (mm)
500	775
1000	800
1500	825
2000	850

Dimensions apply to both left-hand and right-hand installation.

Assembly kit UG K3 LAS C80/125 PP
Assembly kit UG KD3 LAS C80/125 PP black/red

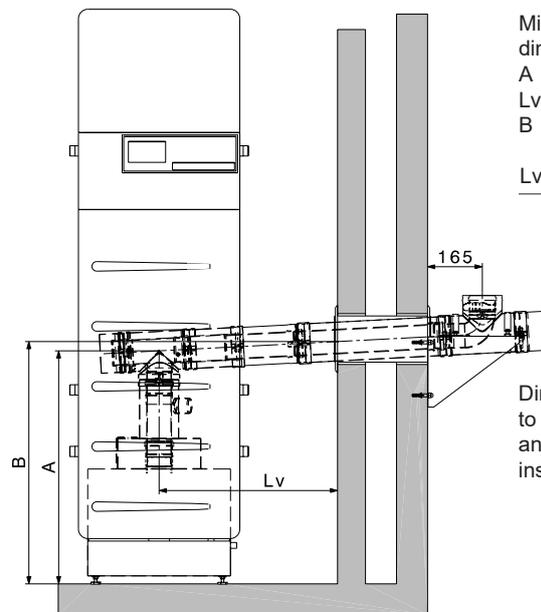


Minimum dimensions:
A = 750 mm
Lv = 410 mm
B = 770 mm

Lv (mm)	B (mm)
500	775
1000	800
1500	825
2000	850

Dimensions apply to both left-hand and right-hand installation.

Assembly kit UG AW3 C80/125 PP black
Assembly kit UG AW3 C80/125 PP red



Minimum dimensions:
A = 750 mm
Lv = 410 mm
B = 770 mm

Lv (mm)	B (mm)
500	775
1000	800
1500	825
2000	850

Dimensions apply to both left-hand and right-hand installation.

■ Engineering

General

The installation of flue ducts must be carried out in accordance with all local and national regulations and directives.

Measure opening

Each supply and exhaust pipe must be equipped with a testing vent (already included in the construction sets). These should be placed in such a way that they can conveniently be reached to perform a measurement.

Length adjustment

The concentric length elements should not be shortened. In order to obtain the desired length the length compensation pieces or the reducing lengths should be used. The basic flue pipes can be reduced in length to fit. However, the cut ends must be carefully smoothed to avoid damage to the gas kit of the connecting piece.

Distant holder

When installing the pipes in a shaft a spacer must be used at least every 2 metres. To provide support for the chimney stack the lowest element must be fixed (bearing rail or pipe clip).

Flue gas temperature

The Hoval flue duct systems E80 PP, E80 Flex PP and C80/125 PP are long-term temperature resistant to 120 °C.

Connecting pipes

Horizontal connecting pipes must be installed with an inclination of at least 50 mm per metre of their length installed in the direction of the boiler to allow free return flow of condensation water towards the boiler. The whole exhaust system must be installed so that condensate can never collect at any point. The flue gas lines must be secured against unwanted loosening of the plug connections.

Condensate drain

Condensation water accumulating in the flue gas pipe can be drained via the boiler.

Chimney shaft

For a concentric chimney connection in which the combustion air is fed through the chimney the following minimum chimney cross-sections must be observed:

cross-section Ø 150 x 150 mm for rectangular chimneys, Ø 170 mm diameter for round chimneys.

In determining the chimney dimensions the installation of the spacers should be taken into account.

With simple chimney connections a grille must be installed for the purpose of back ventilation in the shaft.

Sizing basis

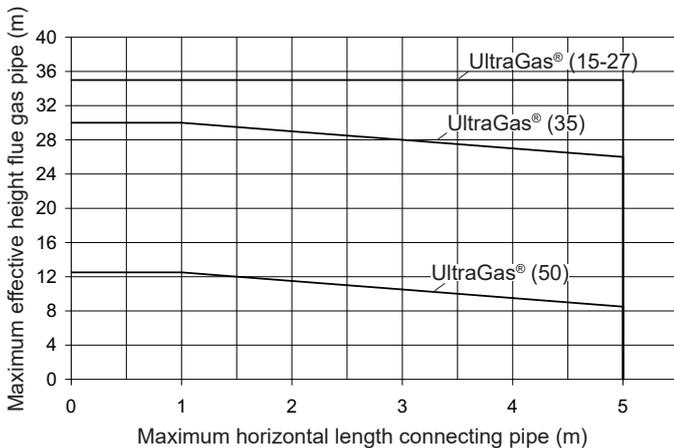
The following diagrams were computed assuming a geographic altitude of 1000 m above sea level.

Maximum flue gas pipe length chimney connection and flue gas pipe in chimney stack

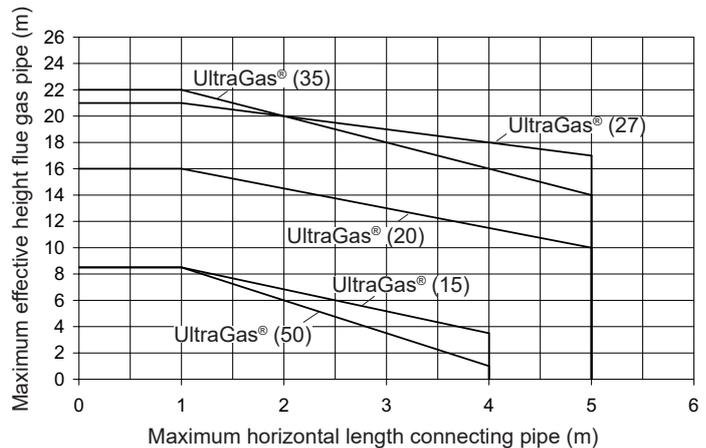
Note:

The data contained in the following diagrams represent guide values calculated at maximum output. An exact calculation for the flue gas duct must be made on-site.

**Assembly kit
UG K E80 PP
UG K E80 Flex PP**



**Assembly kit
UG K C80/125 PP
UG K C80/125 Flex PP**



The following form pieces have already been taken into account:

1 T-piece 90° for connection to the boiler and 1 support arch 90° for supporting the flue pipe in the shaft, 1 component for the end of the chimney.

For all other form pieces in the connecting sections to the chimney the following lengths must be deducted from the maximum chimney heights:

Form piece in the connecting duct	PP-pipes flexible pipes
1 arch 90° E80	2.0 m
1 arch 45° E80	1.0 m
1 T-piece 90° E80	2.5 m
1 arch 90° C80/125	2.5 m
1 arch 45° C80/125	1.5 m
1 T-piece 90° C80/125	3.0 m

■ Engineering

Separate ducting of flue gas and combustion air

By fitting the separator C80/125 PP -> 2 x E80 PP the flue gas and the combustion air can be ducted separately.

To determine the total length of PP flue gas tube and combustion air duct the total lengths can be obtained from the diagrams and calculated for the simple chimney installation. For the remaining form pieces which have to be installed the lengths to be removed must be read off from the table.

Note:

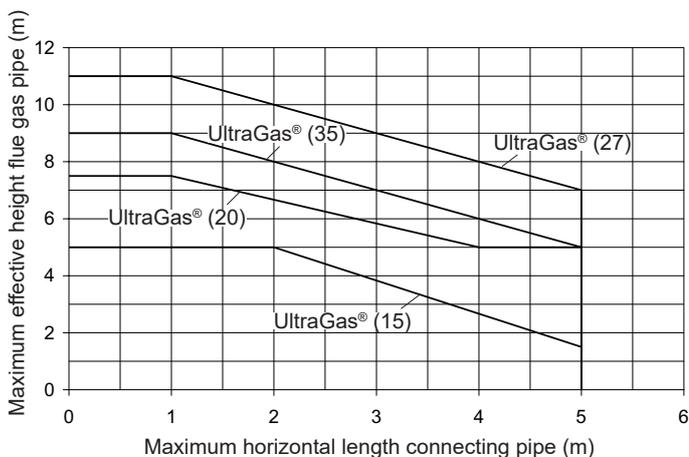
The data contained in the following diagrams represent guide values. An exact calculation for the flue gas duct must be made on-site.

**Maximum flue gas pipe length
Outside wall systems**

**Assembly kit
UG AW C80/125 PP black/red**

Note:

The data contained in the following diagrams represent guide values calculated at maximum output. An exact calculation for the flue gas duct must be made on-site.



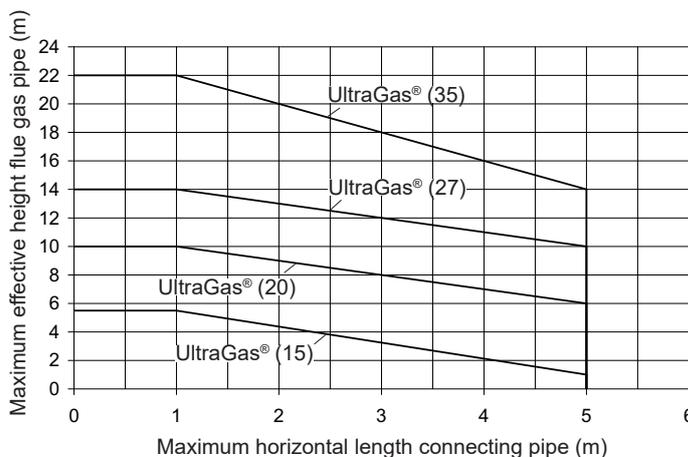
1 T-piece and 1 90° support arch C80/125 as well as the chimney cowl are included as form pieces.

**Flue gas system in shaft
ambient air independent operation**

**Assembly kit
UG K-LAS C80/125 PP
UG KD-LAS C80/125 PP black/red**

The connecting pipe and the vertical flue pipe in the shaft are to be installed concentrically in C 80/125.

This results in the following maximum permitted lengths for flue pipes:



1 T-piece and 1 90° support arch C80/125 as well as the chimney cowl are included as form pieces.

For all other form pieces in the connecting sections to the chimney the following lengths must be removed from the maximum chimney heights:

1 arch 90° C80/125	2.5 m
1 arch 45° C80/125	1.5 m
1 T-piece 90° C80/125	3.0 m

■ Description

**Flue gas system
Type E100 PP**

- Air supply and flue gas system in precast construction method for quick installation.
- Specially suited to oil and gas fired condensing systems.
- 100 mm diameter PP pipe for flue gas with practical plug-in sleeve connection with Viton sealing ring for joining the individual system components.
- PP: permanent temperature resistance up to 120 °C.
- All long elements can be shortened. The cut edges must be smoothed to avoid damage to sealing.

**Concentric supply air /
flue gas system LAS
Type C100/150 PP**

- Air supply and flue gas system in precast construction method for quick installation.
- Specially suited to oil and gas fired condensing systems.
- 100 mm diameter PP pipe for flue gas concentrically mounted in the supply pipe with practical plug-in sleeve connection with Viton sealing ring for joining the individual system components.
- PP: permanent temperature resistance up to 120 °C.
- Concentrically mounted supply air pipe with 150 mm diameter made of steel, white lacquer (RAL 9016).
- System components to be joined using plug-in connectors with sealing ring and clamp tape.
- For ambient air independent operation.

**Flexible flue gas system
Type E100 Flex PP**

- Flexible flue gas system in precast construction method for quick installation.
- Specially suited to oil and gas fired condensing systems.
- The system can be installed in existing angled shafts without the need for extra masonry work.
- Flexible PP flue pipe with internal diameter D = 100 mm with double walls to prevent damage during installation and to reduce the flow resistance on the flue gas side.
- PP: permanent temperature resistance up to 120 °C.

Assembly kits

The installation kits contain all the components shown in the drawings. All other components such as length elements, form pieces and fixing components must be ordered separately.

The gas outlet shown in the drawing is intended as an example of a possible installation. In practice the configuration must be adapted to the individual situation, taking account of local regulations.

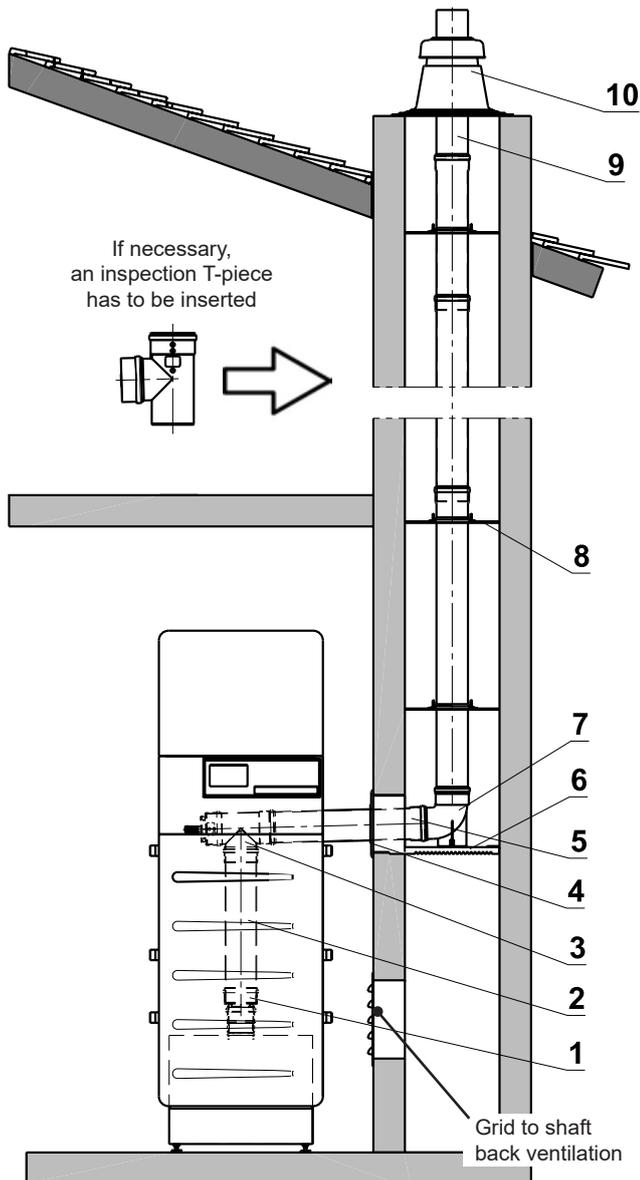
Individual parts

A detailed list of all the parts used in the flue pipe systems and construction sets can be found in the section following the assembly kits.

■ Part No.

Room air independent operation

Approval
VKF No. Z 14604
CE 0432BPR220556



This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

Approval sticker
must be ordered separately, see individual parts

Part No.

Example UG K E100 PP
to UltraGas® (35,50):

1	Adapter piece E80 - E100PP	2018 532
2	Length element E100 L = 450 mm PP	2001 480
3	T-piece with measure opening E100 - 90° PP	2004 169
4	Duct E100 Wall plate 220 x 220 mm with seal ring and casing tube D = 150 mm, L = 300 mm	2001 507
5	Length element E100 L = 450 mm PP	2001 480
6	Bearing rail E Flue gas tube support in shaft	619 303
7	Support arch E100 - 90° PP	2001 493
8	Set (2 pieces) distant holder E100 of polypropylene for tube centering in shaft	2001 501
9	End tube E100 L = 500 mm to top part 100 high grade steel	2001 505
10	Top part 100 for chimney end for back ventilation with shaft cover 385 x 385 mm, clamp tape and seal ring	2001 504

Additional parts to be ordered
if necessary:

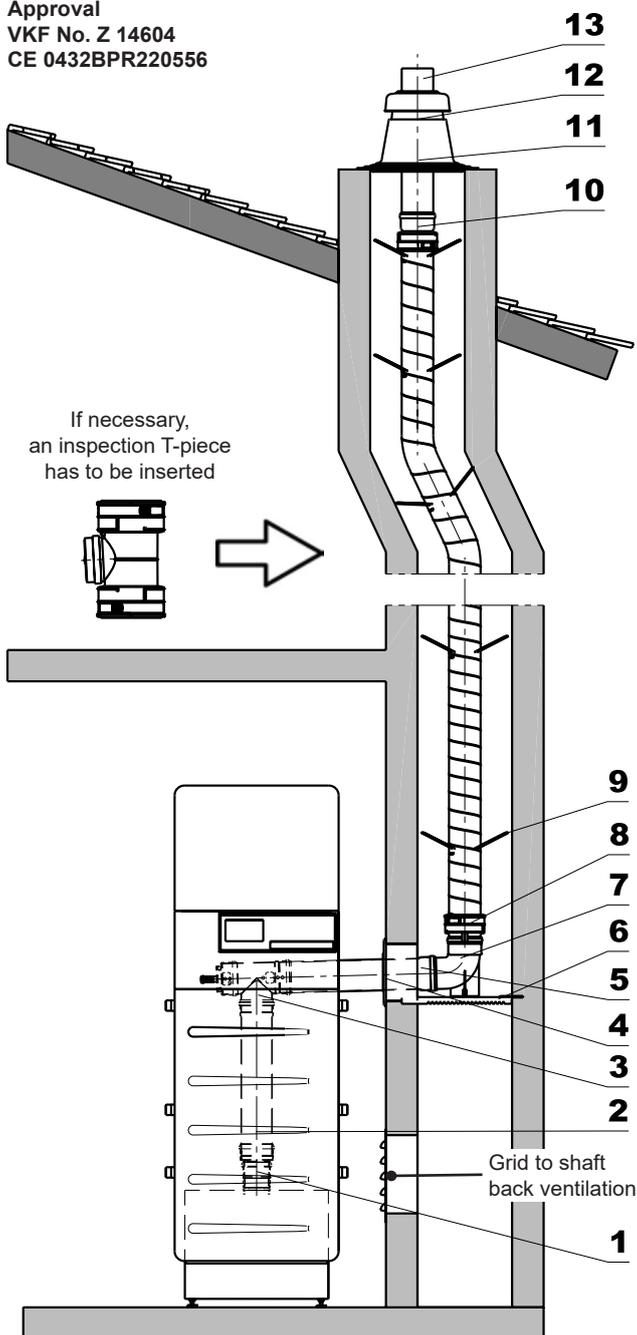
Length element	E100 L = 450 mm	2001 480
	E100 L = 950 mm	2001 481
	E100 L = 1950 mm	2001 482
Inspection T-piece E100-90°		2001 497
Pipe clip for attachment E100		2001 502
Set (2 pieces) distant holder E100 of polypropylene for tube centering in shaft		2001 501
Viton seal ring Ø 100 mm to flue gas tube		2018 531

Further components see end of this section.

■ Part No.

Room air independent operation

Approval
VKF No. Z 14604
CE 0432BPR220556



If necessary,
an inspection T-piece
has to be inserted

Example UG K E100 Flex PP to UltraGas® (35,50):

	Part No.
1 Adapter piece E80 - E100 PP	2018 532
2 Length element E100 L = 450 mm PP	2001 480
3 T-piece with measure opening E100 - 90° PP	2004 169
4 Duct E100 Wall plate 220 x 220 mm with seal ring and casing tube D = 150 mm, L = 300 mm	2001 507
5 Length element E100 L = 450 mm PP	2001 480
6 Bearing rail E Flue gas tube support in shaft	619 303
7 Support arch E100 - 90° PP	2001 493
8 Connection piece below E100 Flex-PP	2008 135
9 Distant holder E100 Flex-PP, 1 piece, a distant holder must be used at least every 2 metres	2008 138
10 Mouth-connection piece E100 Flex-PP	2008 133
11 Assembly cross E100 Flex-PP, high grade steel	2008 134
12 Top part E100 for chimney end for back ventilation with shaft cover 385 x 385 mm, clamp tape and seal ring	2001 504
13 End tube E100 L = 500 mm to top part E100 high grade steel	2001 505

Additional parts to be ordered if necessary:

Length element E100 L = 450 mm	2001 480
E100 L = 950 mm	2001 481
E100 L = 1950 mm	2001 482
Inspection T-piece E100 Flex-PP	2008 136
Pipe clip for attachment E100	2001 502
Viton seal ring Ø 100 mm to flue gas tube	2018 531

Wave tube E100 Flex PP Price per metre	2008 140
Distant holder E100 Flex PP, 1 piece	2008 138
Viton seal ring E100 Flex PP	2008 139

Further components see
end of this section.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

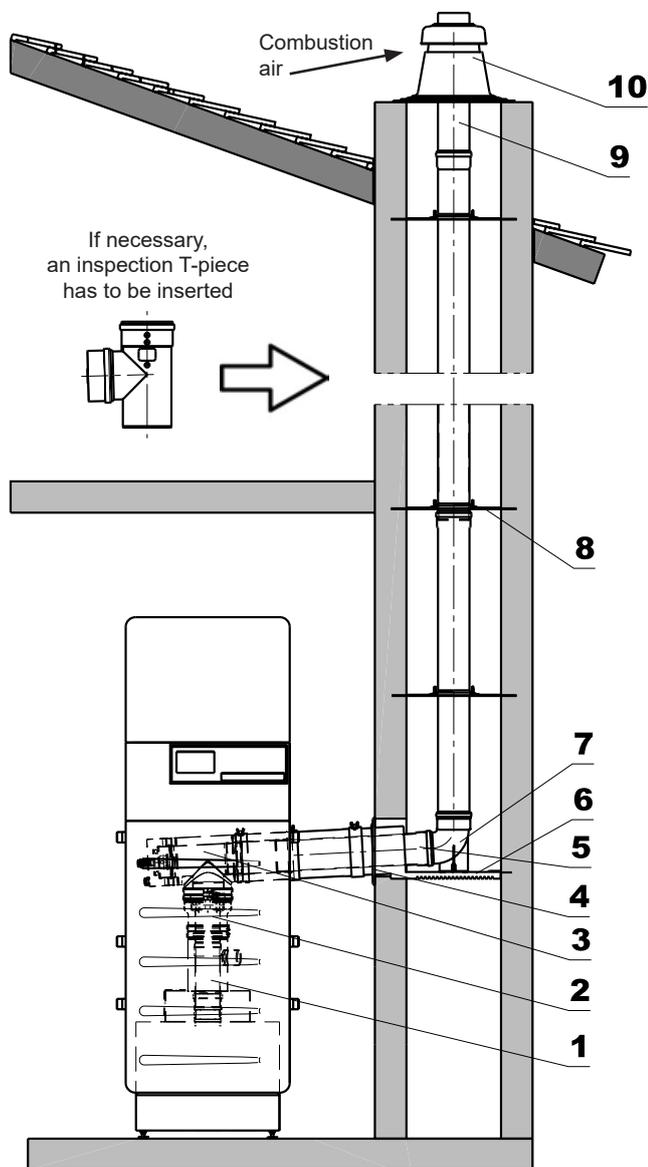
Approval sticker

must be ordered separately, see individual parts

■ Part No.

Room air independent operation

Approval
VKF No. Z 14603 / 14604
CE 0432BPR220556



This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker

must be ordered separately, see individual parts

Part No.

Example UG K3 C100/150PP to UltraGas® (35,50):

1	Connection assembly kit LAS to UltraGas® (35,50) and Boiler connection piece E80 -> C80/ 125 PP, L = 200	6027 510
2	Adapter piece C80/125 -> C100/150	2018 533
3	Inspection T-piece with measure opening C100/150 PP	2015 257
4	Duct C100/150 Wall plate with splice 220 x 220 mm and scabbard tube Ø 180 mm, L = 300 mm	2001 434
5	Length element E100 L = 450 mm PP	2001 480
6	Bearing rail E Flue gas tube support in shaft	619 303
7	Support arch E100 - 90° PP	2001 493
8	Set (2 pieces) distant holder E100 of polypropylene for tube centering in shaft	2001 501
9	End tube E100 L = 500 mm to top part E100; high grade steel	2001 505
10	Top part 100 for chimney end for back ventilation 385 x 385 mm, clamp tape and seal ring	2001 504

Additional parts to be ordered if necessary:

Length element	C100/150 L = 200 mm	2015 246
	C100/150 L = 450 mm	2015 247
	C100/150 L = 950 mm	2015 248
	C100/150 L = 1950 mm	2015 249

Length adjustment piece C100/150 PP L = 315-440 mm 2015 251

Length element, can be shortened C100/150 PP, L = 100-1000 mm 2015 250

Inspection T-piece E100-90° 2001 497

Pipe clip for wall mounting C150 2001 433

Clamp tape D = 150 mm with integrated seal ring 2001 444

Length element	E100 L = 450 mm	2001 480
	E100 L = 950 mm	2001 481
	E100 L = 1950 mm	2001 482

Set (2 pieces) E100 of polypropylene for tube centering in shaft 2001 501

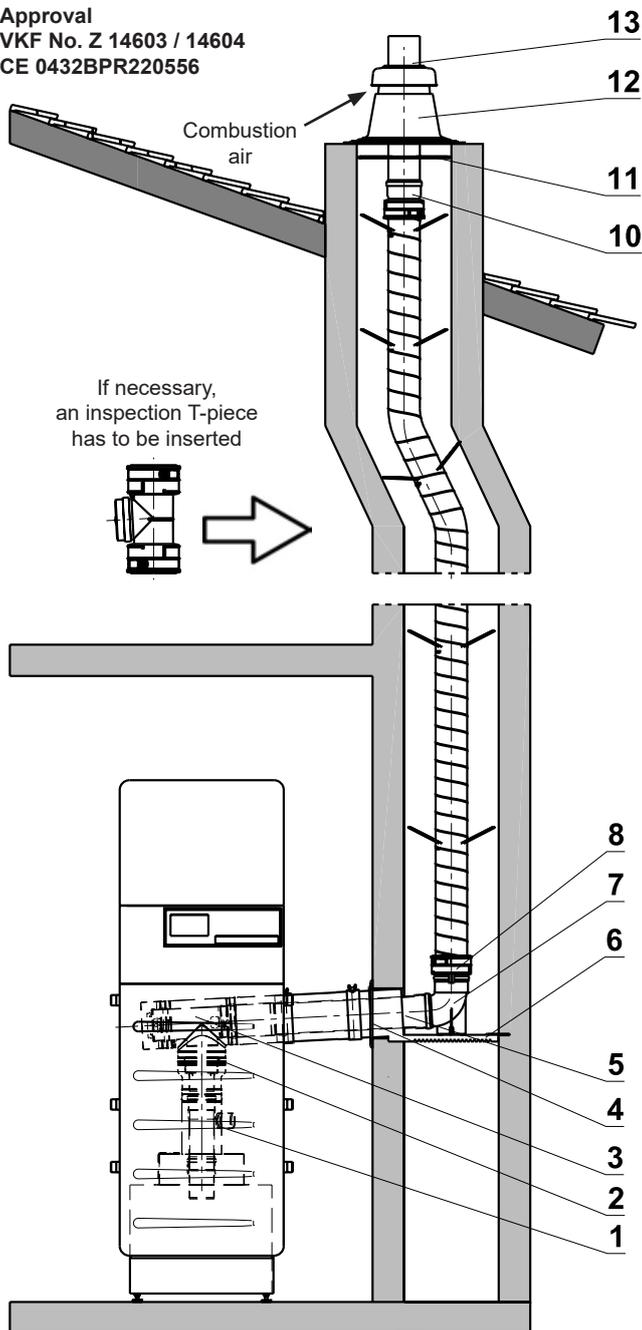
Viton seal ring Ø 100 mm to flue gas tube 2018 531

Further components see end of this section.

■ Part No.

Room air independent operation

Approval
VKF No. Z 14603 / 14604
CE 0432BPR220556



This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker

must be ordered separately, see individual parts

Part No.

Example UG K3 C100/150 Flex PP to UltraGas® (35,50):

- | | | |
|----|--|----------|
| 1 | Connection assembly kit LAS to UltraGas® (35,50) and boiler connection piece E80 -> C80/125 PP, L = 200 | 6027 510 |
| 2 | Adapter piece C80/125 -> C100/150 | 2018 533 |
| 3 | Inspection T-piece with measure opening C100/150 PP | 2015 257 |
| 4 | Duct C100/150 Wall plate with splice 220 x 220 mm and casing tube Ø 180 mm, L = 300 mm | 2001 434 |
| 5 | Length element E100, L = 450 mm, PP | 2001 480 |
| 6 | Bearing rail E Flue gas tube support in shaft | 619 303 |
| 7 | Support arch E100 - 90°, PP | 2001 493 |
| 8 | Connection piece below E100 Flex PP | 2008 135 |
| 9 | Distant holder E10 Flex PP (1 piece) a distant holder must be used at least every 2 metres | 2008 138 |
| 10 | Mouth connection piece E100 Flex PP | 2008 133 |
| 11 | Assembly cross E100 Flex PP, high grade steel | 2008 134 |
| 12 | Top part E100 for chimney end for back ventilation with shaft cover 385 x 385 mm, clamp tape and seal ring | 2001 504 |
| 13 | End tube E100, L = 500 mm to top E100 High grade steel | 2001 505 |

Additional parts to be ordered if necessary:

- | | | |
|----------------|----------------------|----------|
| Length element | C100/150 L = 200 mm | 2015 246 |
| | C100/150 L = 450 mm | 2015 247 |
| | C100/150 L = 950 mm | 2015 248 |
| | C100/150 L = 1950 mm | 2015 249 |

Length adjustment piece C100/150 PP L = 315-440 mm 2015 251

Length element, can be shortened C100/150 PP, L = 100-1000 mm 2015 250

Inspection T-piece E100 Flex-PP 2008 136

Pipe clip for wall mounting C150 2001 433

Clamp tape D = 150 mm with integrated seal ring 2001 444

Wave tube E100 Flex PP Price per metre 2008 140

Distant holder E100 Flex PP (1 piece) 2008 138

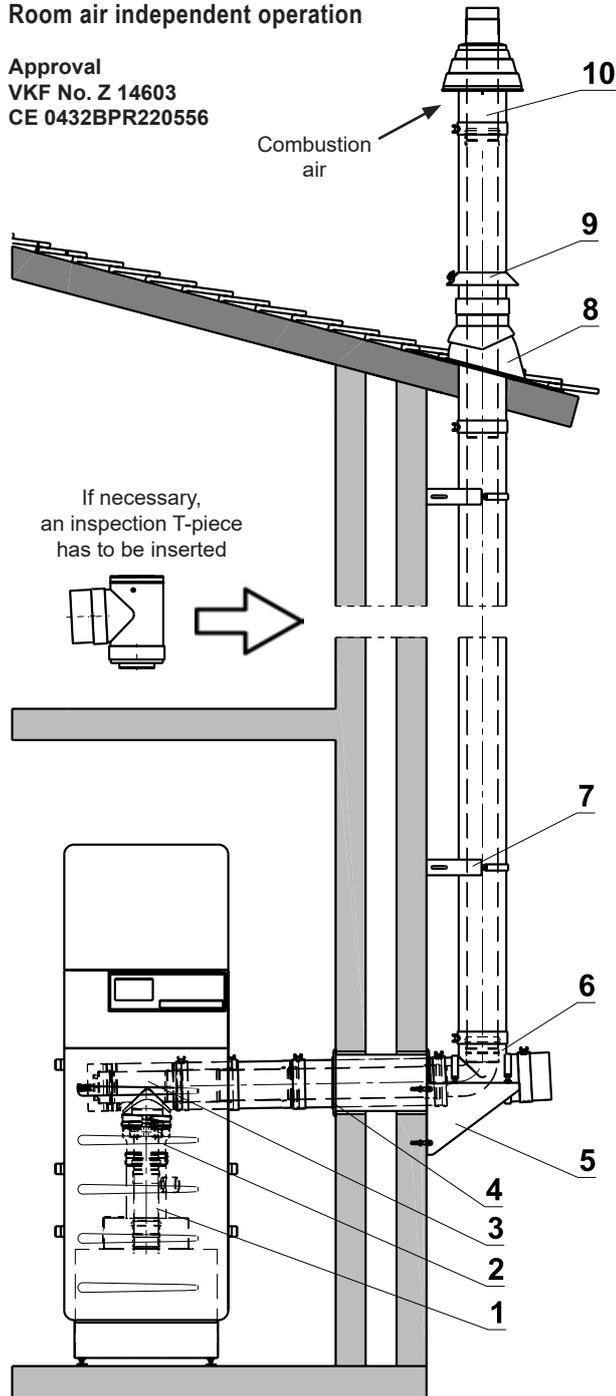
Viton seal ring E100 Flex PP 2008 139

Further components see end of this section.

■ Part No.

Room air independent operation

Approval
VKF No. Z 14603
CE 0432BPR220556



This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker
must be ordered separately, see individual parts

Part No.

Example UG AW C100/150 PP black, to UltraGas® (35,50):

1	Connection assembly kit LAS to UltraGas® (35,50) and boiler connection piece E80 -> C80/125 PP, L = 200	6027 510
2	Adapter piece C80/125 -> C100/150	2018 533
3	Inspection T-piece with measure opening C100/150 PP	2015 257
4	Concentric wall duct with wall plate 220 x 220 mm C100/150 white coated (RAL 9016)	2025 704
5	Outside wall distant holder Ø 150 mm incl. mounting material, high grade steel	2025 705
6	Arch T-piece C100/150	2038 105
7	Outside wall distant holder Ø 150 mm stainless steel	2025 707
8	Lead pan with bowl C100/150 for roof execution (gradient 25-55° adjustable), ground plate 500 x 500 mm	2001 440
9	Rain keep-off rail, black (RAL 9005)	2030 067
10	LAS-mouth piece C100/150 PP Flue gas tube of high grade steel white coated	2025 708

Additional parts to be ordered if necessary:

Length element	C100/150 L = 200 mm	2015 246
	C100/150 L = 450 mm	2015 247
	C100/150 L = 950 mm	2015 248
	C100/150 L = 1950 mm	2015 249

Length adjustment piece C100/150 PP L = 315-440 mm 2015 251

Length element, can be shortened C100/150 PP, L = 100-1000 mm 2015 250

Inspection T-piece C100/150 PP 2015 256

Pipe clip for wall mounting C150 2001 433

Clamp tape D = 150 mm with integrated seal ring 2001 444

Outside wall distant holder Ø 150 mm, stainless steel 2025 707

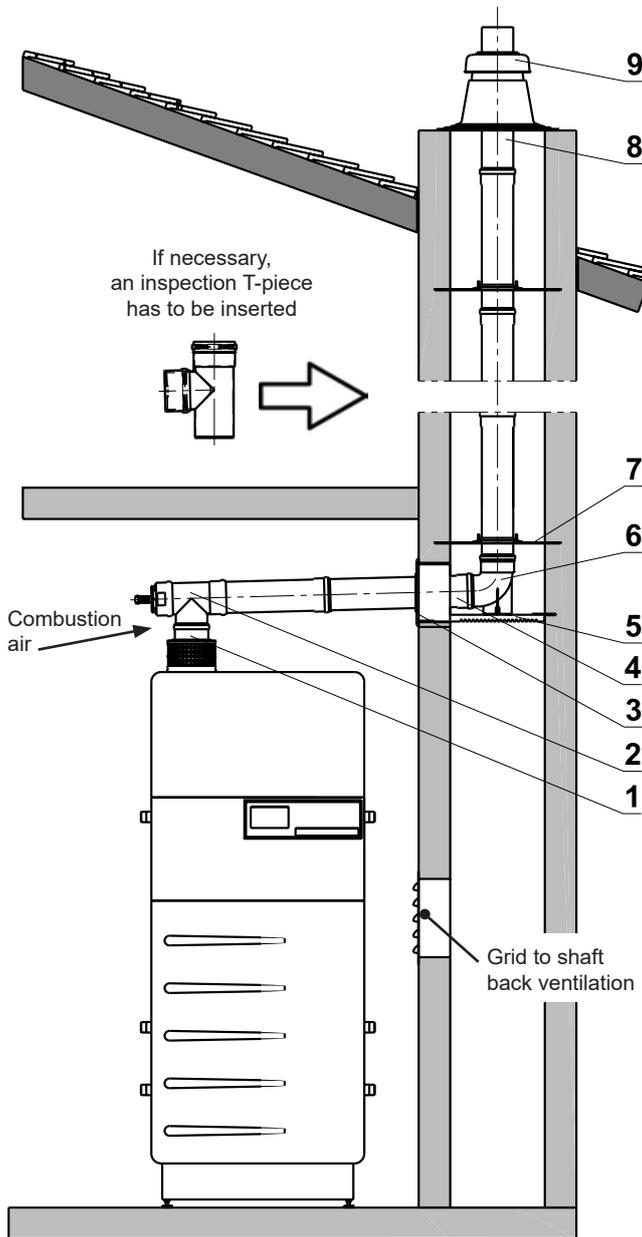
Viton seal ring Ø 100 mm to flue gas tube 2018 531

Further components see end of this section.

■ Part No.

Room air dependent operation

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Assembly kit UG K E100 PP to UltraGas® (70,100):

consisting of parts:

- | | Part No. |
|--|----------|
| 1 Air supply grille E100 incl. tube, L = 115 mm, PP | 6002 996 |
| 2 T-piece with measure opening E100 – 90° PP | 2004 168 |
| 3 Duct E100 Wall plate 220 x 220 mm with seal ring and scabbard tube Ø 150 mm, L = 300 mm | 2004 169 |
| 4 Length element E100 L = 450 mm PP | 2001 507 |
| 5 Bearing rail E Flue gas tube support in shaft | 2001 480 |
| 6 Support arch E100 - 90° PP | 619 303 |
| 7 Set (2 pieces) distant holder E100 of polypropylene for tube centering in shaft; 3 sets | 2001 493 |
| 8 End tube E100 L = 500 mm to top part E100 High grade steel | 2001 501 |
| 9 Top part E100 for chimney end for back ventilation with shaft cover 385 x 385 mm, clamp tape and seal ring | 2001 505 |
| | 2001 504 |

Additional parts to be ordered if necessary:

- | | |
|---|----------|
| Length element E100 L = 450 mm | 2001 480 |
| E100 L = 950 mm | 2001 481 |
| E100 L = 1950 mm | 2001 482 |
| Inspection T-piece E100-90° | 2001 497 |
| Pipe clip for attachment E100 | 2001 502 |
| Set (2 pieces) distant holder E100 of polypropylene for centering tube in shaft | 2001 501 |
| Viton seal ring Ø 100 mm to flue gas tube | 2018 531 |

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

Further components see section following the assembly kits.

Approval sticker

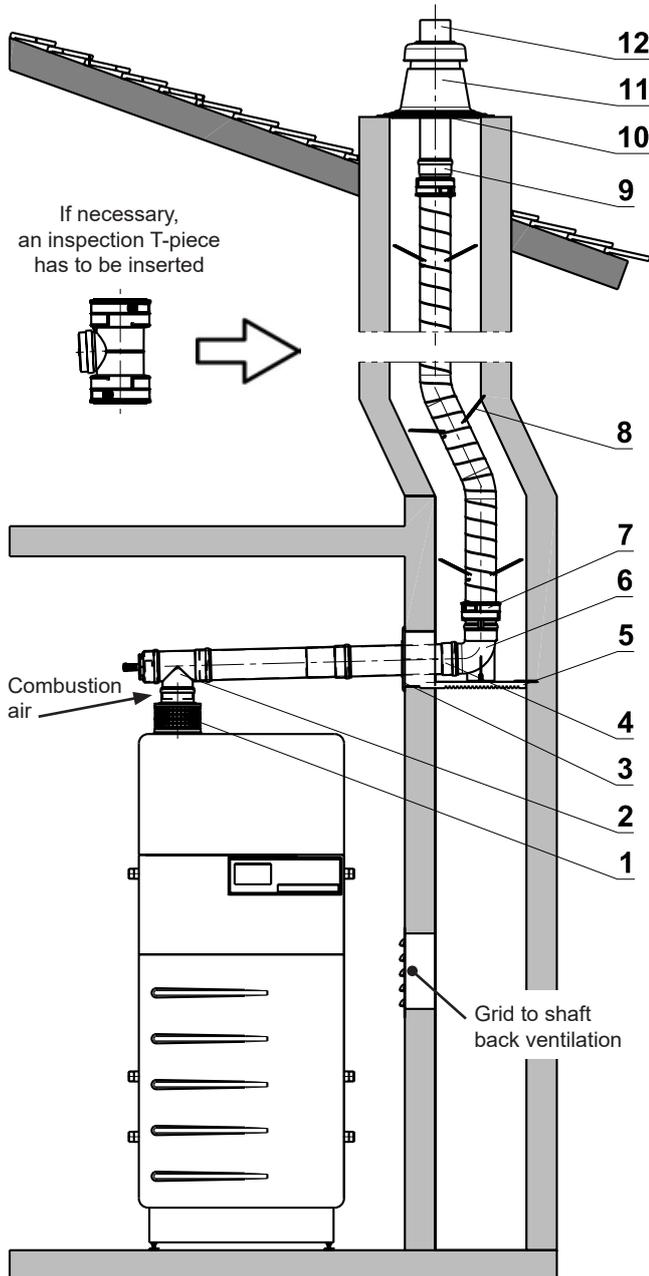
must be ordered separately, see individual parts

■ **Part No.**

Part No.

Room air dependent operation

Approval
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CE 0432BPR220556



Example UG K E100 Flex PP to UltraGas® (70,100):

- | | | |
|----|---|----------|
| 1 | Air supply grille E100
incl. tube, L = 115 mm, PP | 2004 168 |
| 2 | T-piece with measure opening
E100 – 90° PP | 2004 169 |
| 3 | Duct E100
Wall plate 220 x 220 mm
with seal ring and scabbard tube
Ø 150 mm, L = 300 mm | 2001 507 |
| 4 | Length element E100 L = 450 mm
PP | 2001 480 |
| 5 | Bearing rail E
Flue gas tube support in shaft | 619 303 |
| 6 | Support arch E100 – 90° PP | 2001 493 |
| 7 | Connection piece below E100 Flex PP | 2008 135 |
| 8 | Distant holder E100 Flex PP (1 piece)
a distant holder must be used at least
every 2 metres | 2008 138 |
| 9 | Mouth-connection piece
E100 Flex PP | 2008 133 |
| 10 | Assembly cross E100 Flex PP,
high grade steel | 2008 134 |
| 11 | Top part E100 for chimney end for
back ventilation with shaft cover
385 x 385 mm, clamp tape and
seal ring | 2001 504 |
| 12 | End tube E100 L = 500 mm
to top part E100
High grade steel | 2001 505 |

Additional parts to be ordered if necessary:

- | | | |
|--------------------------|------------------------------|----------|
| Length element | E100 L = 450 mm | 2001 480 |
| | E100 L = 950 mm | 2001 481 |
| | E100 L = 1950 mm | 2001 482 |
| Inspection T-piece | E100 Flex-PP | 2008 136 |
| Pipe clip for attachment | E100 | 2001 502 |
| Viton seal ring | Ø 100 mm
to flue gas tube | 2018 531 |

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

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must be ordered separately, see individual parts

- | | | |
|-----------|---------------------------------|----------|
| Wave tube | E100 Flex PP
Price per metre | 2008 140 |
|-----------|---------------------------------|----------|

- | | | |
|----------------|-----------------------|----------|
| Distant holder | E100 Flex PP, 1 piece | 2008 138 |
|----------------|-----------------------|----------|

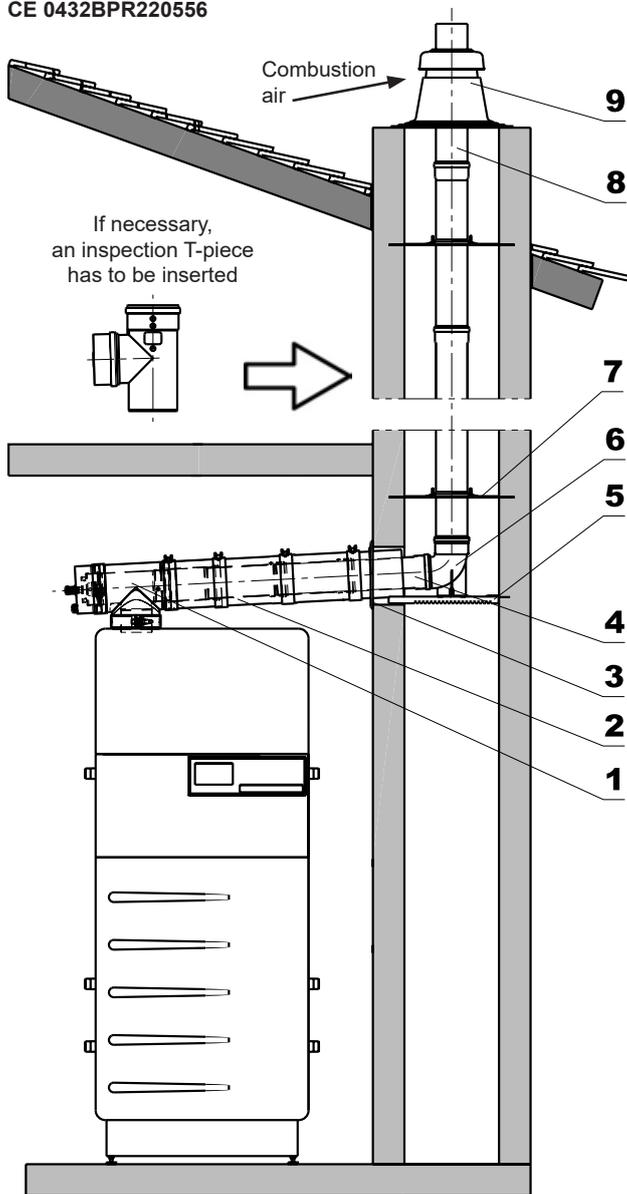
- | | | |
|-----------------|--------------|----------|
| Viton seal ring | E100 Flex PP | 2008 139 |
|-----------------|--------------|----------|

Further components see section following the assembly kits.

■ Part No.

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Assembly kit UG K3 C100/150 PP to UltraGas® (70):

consisting of parts:

	Part No.
1 Inspection T-piece with measure opening C100/150 PP	2015 257
2 Length adjustment piece C100/150 L = 315-440 mm	2015 251
3 Duct C100/150 Wall plate with splice 220 x 220 mm and scabbard tube Ø 180 mm, L = 300 mm	2001 434
4 Length element E100, L = 450 mm PP	2001 480
5 Bearing rail E Flue gas tube support in shaft	619 303
6 Support arch E100 – 90° PP	2001 493
7 Set (2 pieces) distant holder E100 of polypropylene for centering tube in shaft; 3 sets	2001 501
8 End tube E100, L = 500 mm to top part E100 High grade steel	2001 505
9 Top part 100 for chimney end for back ventilation with shaft cover 385 x 385 mm, clamp tape and seal ring	2001 504

Additional parts to be ordered if necessary:

Length element C100/150 L = 200 mm	2015 246
C100/150 L = 450 mm	2015 247
C100/150 L = 950 mm	2015 248
C100/150 L = 1950 mm	2015 249
Inspection T-piece E100-90°	2001 497
Pipe clip for wall mounting C150	2001 433
Clamp tape D = 150 mm with integrated seal ring	2001 444
Length element E100 L = 450 mm	2001 480
E100 L = 950 mm	2001 481
E100 L = 1950 mm	2001 482
Set (2 pieces) distant holder E100 of polypropylene for centering tube in shaft	2001 501
Viton seal ring Ø 100 mm for flue gas tube	2018 531

Further components see section following the assembly kits.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

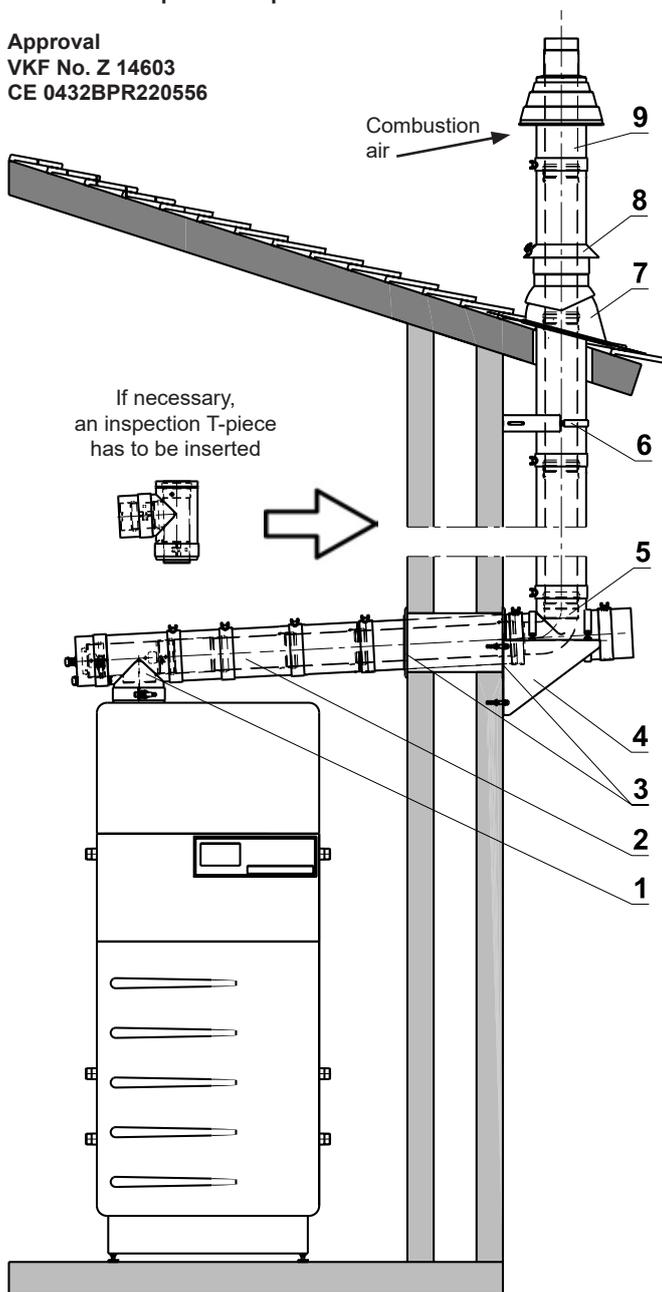
Approval sticker

must be ordered separately, see individual parts

■ Part No.

Room air independent operation

Approval
VKF No. Z 14603
CE 0432BPR220556



Example UG AW C100/150 PP black to UltraGas® (70):

	Part No.
1 Inspection T-piece with measure opening C100/150 PP	2015 257
2 Length adjustment piece C100/150 L = 315-440 mm	2015 251
3 Concentric wall lead-through C100/150 with 2 wall plates 220 x 220 mm and wall box 180 x 300 mm, C100/150, white (RAL 9016)	2025 704
4 Outside wall distant holder Ø 150 mm, incl. mounting material, high steel grade	2025 705
5 Arch T-piece C100/150	2038 105
6 Outside wall distant holder Ø 150 mm high grade steel	2025 707
7 Lead pan with bowl C100/150 for roof duct (gradient 25-55° adjustable), ground plate 500 x 500 mm, black coated	2001 440
8 Rain keep-off rail, black coated (RAL 9005)	2030 067
9 LAS-mouth piece C100/150 PP flue gas tube of high grade steel white coated	2025 708

Additional parts to be ordered if necessary:

Length element C100/150 L = 200 mm	2015 246
C100/150 L = 450 mm	2015 247
C100/150 L = 950 mm	2015 248
C100/150 L = 1950 mm	2015 249

Inspection T-piece C100/150 PP 2015 256

Pipe clip for wall mounting C150 2001 433

Clamp tape D = 150 mm with integrated seal ring 2001 444

Outside-distant holder Ø 150 mm High grade steel 2025 707

Viton seal ring Ø 100 mm to flue gas tube 2018 531

Further components see section following the assembly kits.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

The connection situation and the dimensions are shown on chapter "Dimensions".

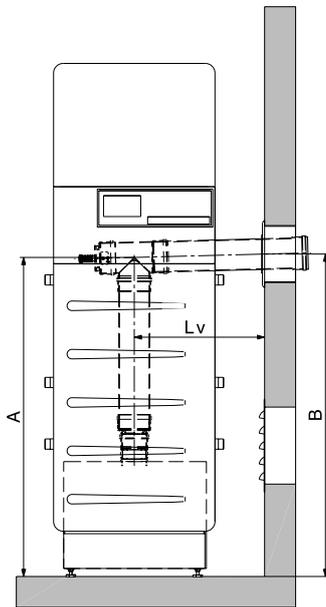
If an inspection T-piece with measure opening is not immediately installed to the boiler connecting piece, a length element with measure opening must be planned directly at the boiler connecting piece.

Approval sticker

must be ordered separately, see individual parts

■ Dimensions

Assembly kit UG K E100 PP
Assembly kit UG K E100 Flex PP

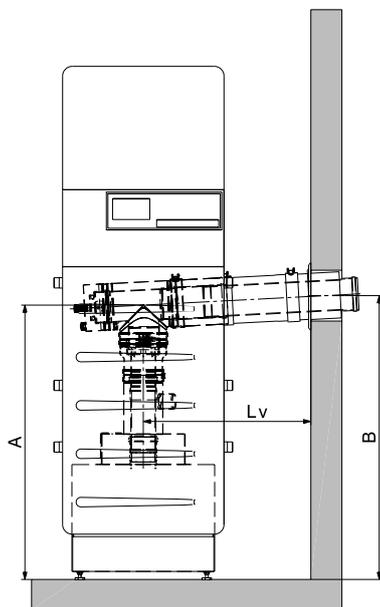


UltraGas® (35,50)
Minimum dimensions:
A = 520 mm
Lv = 410 mm
H = 540 mm

Lv (mm)	B (mm)
500	555
1000	580
1500	605
2000	630

Dimensions apply to both left-hand and right-hand installation.

Assembly kit UG K3 C100/150 PP
Assembly kit UG K3 C100/150 Flex PP

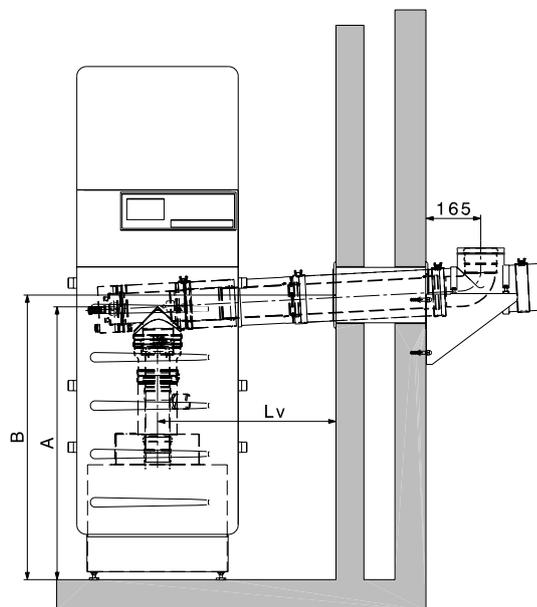


UltraGas® (35,50)
Minimum dimensions:
A = 880 mm
Lv = 410 mm
H = 900 mm

Lv (mm)	B (mm)
500	905
1000	930
1500	955
2000	980

Dimensions apply to both left-hand and right-hand installation.

Assembly kit UG AW3 C80/150 PP black
Assembly kit UG AW3 C80/150 PP red



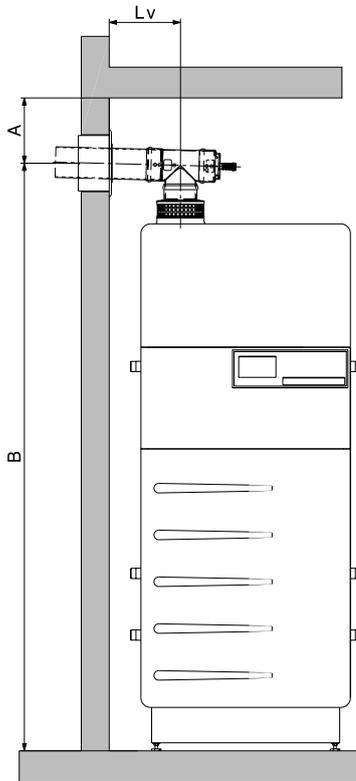
UltraGas® (35,50)
Minimum dimensions:
A = 740 mm
Lv = 360 mm
H = 900 mm

Lv (mm)	B (mm)
500	865
1000	890
1500	915
2000	940

Dimensions apply to both left-hand and right-hand installation.

■ Dimensions

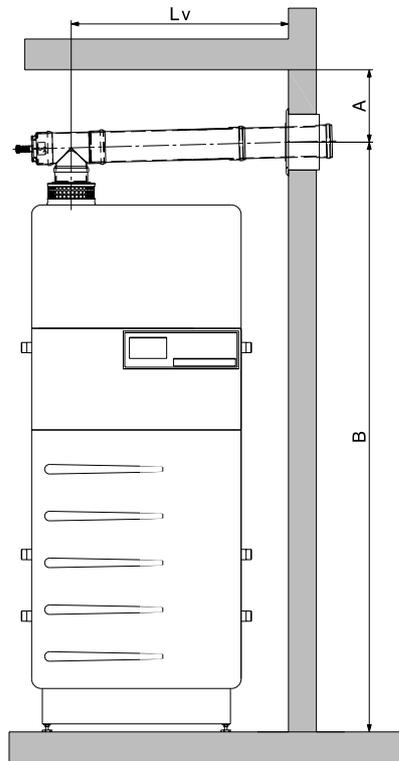
Assembly kit UG K E100 PP
Assembly kit UG K E100 Flex PP



UltraGas® (70,100)
Minimum dimensions:
A = 115 mm
Lv = 280 mm
H = 1940 mm

Lv (mm)	B (mm)
280	1940
500	1950
1000	1975
1500	2000
2000	2025

Assembly kit UG K E100 PP
Assembly kit UG K E100 Flex PP

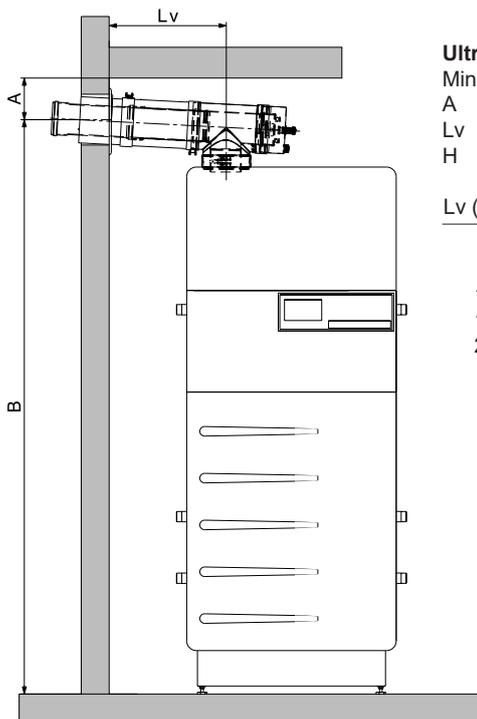


UltraGas® (70,100)
Minimum dimensions:
A = 115 mm
Lv = 700 mm
H = 1960 mm

Lv (mm)	B* (mm)
700	1960
1000	1975
1500	2000
2000	2025

* Dimension B without
air supply grille less-
ened by 115 mm

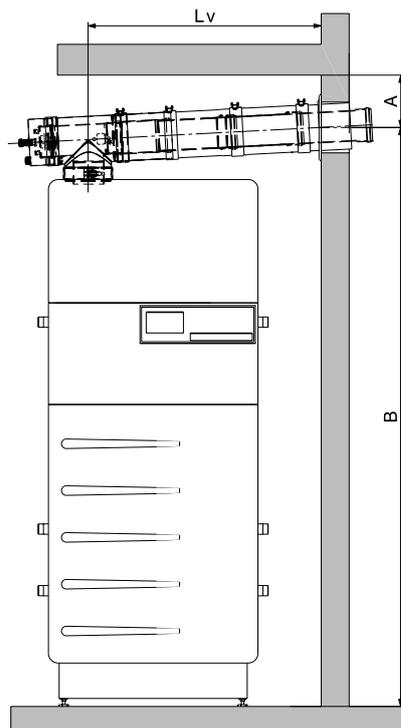
Assembly kit UG K C100/150 PP
Assembly kit UG K1 C100/150 Flex PP



UltraGas® (70)
Minimum dimensions:
A = 115 mm
Lv = 320 mm
H = 1840 mm

Lv (mm)	B (mm)
320	1840
500	1850
1000	1875
1500	1900
2000	1925

Assembly kit UG K C100/150 PP
Assembly kit UG K C100/150 Flex PP

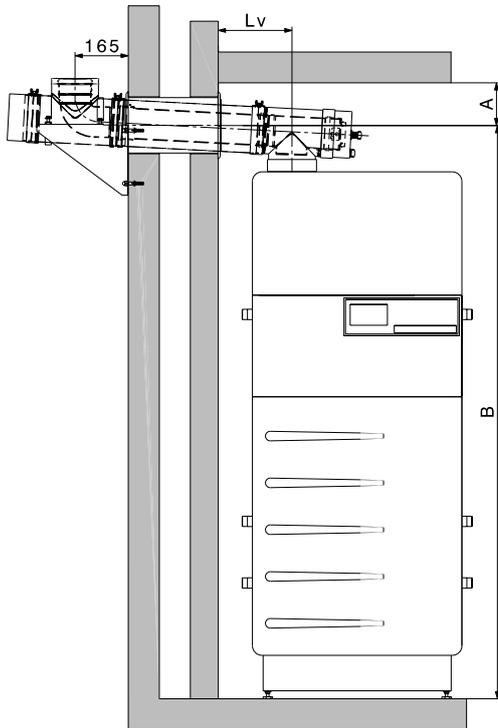


UltraGas® (70)
Minimum dimensions:
A = 115 mm
Lv = 700 mm
H = 1860 mm

Lv (mm)	B (mm)
700	1860
1000	1875
1500	1900
2000	1925

■ Dimensions

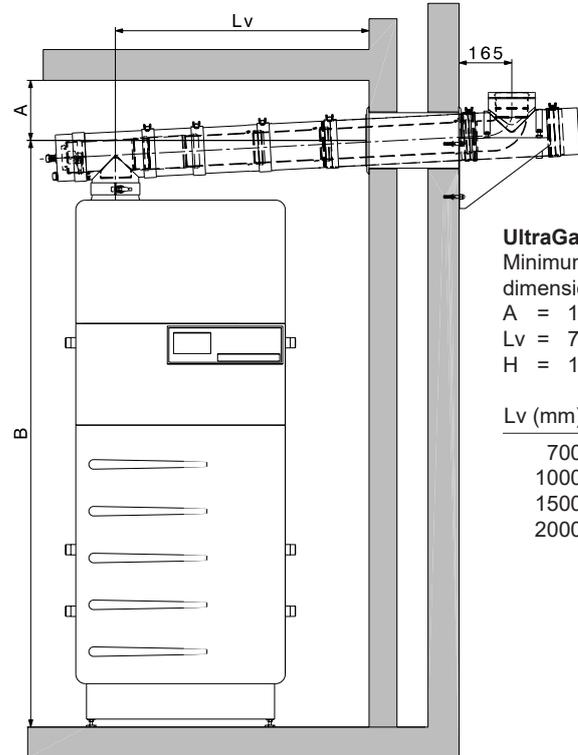
Assembly kit UG AW C100/150 PP black



UltraGas® (70)
Minimum
dimensions:
A = 115 mm
Lv = 320 mm
H = 1840 mm

Lv (mm)	H (mm)
320	1840
500	1850
1000	1875
1500	1900
2000	1925

Assembly kit UG AW C100/150 PP black



UltraGas® (70)
Minimum
dimensions:
A = 115 mm
Lv = 700 mm
H = 1860 mm

Lv (mm)	H (mm)
700	1860
1000	1875
1500	1900
2000	1925

■ Engineering

General

The installation of flue ducts must be carried out in accordance with all local and national regulations and directives.

Measure opening

Each supply and exhaust pipe must be equipped with a testing vent (already included in the construction sets). These should be placed in such a way that they can conveniently be reached to perform a measurement.

Length adjustment

The concentric length elements should not be shortened. In order to obtain the desired length the length compensation pieces or the reducing lengths should be used. The basic flue pipes can be reduced in length to fit. However, the cut ends must be carefully smoothed to avoid damage to the gas kit of the connecting piece.

Distant holder

When installing the pipes in a shaft a spacer must be used at least every 2 metres. To provide support for the chimney stack the lowest element must be fixed (bearing rail or pipe clip).

Flue gas temperature

The Hoval flue duct systems E100 PP, E100 Flex PP and C100/150 PP are long-term temperature resistant to 120 °C.

Connecting pipes

Horizontal connecting pipes must be installed with an inclination of at least 50 mm per metre of their length installed in the direction of the boiler to allow free return flow of condensation water towards the boiler. The whole exhaust system must be installed so that condensate can never collect at any point. The flue gas lines must be secured against unwanted loosening of the plug connections.

Condensate drain

Condensation water accumulating in the flue gas pipe can be drained via the boiler.

Chimney shaft

For a concentric chimney connection in which the combustion air is fed through the chimney the following minimum chimney cross-sections must be observed:

cross-section 150 mm x 150 mm for rectangular chimneys, Ø 170 mm diameter for round chimneys.

In determining the chimney dimensions the installation of the spacers should be taken into account.

With simple chimney connections a grille must be installed for the purpose of back ventilation in the shaft.

Sizing basis

The following diagrams were computed assuming a geographic altitude of 1000 m above sea level.

Maximum flue gas pipe length

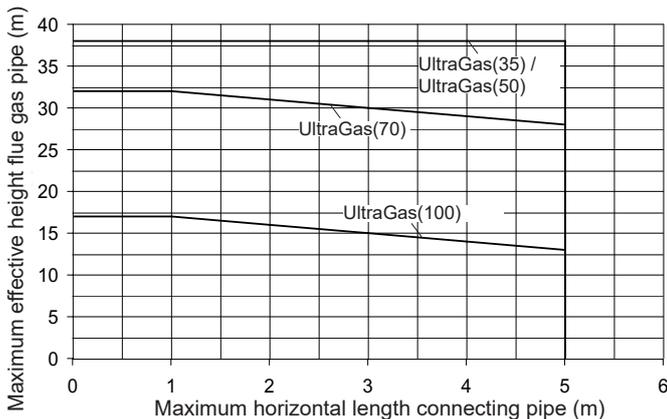
Chimney connection and flue gas pipe in chimney stack

Note:

The data contained in the following diagrams represent guide values calculated at maximum output. An exact calculation for the flue gas duct must be made on-site.

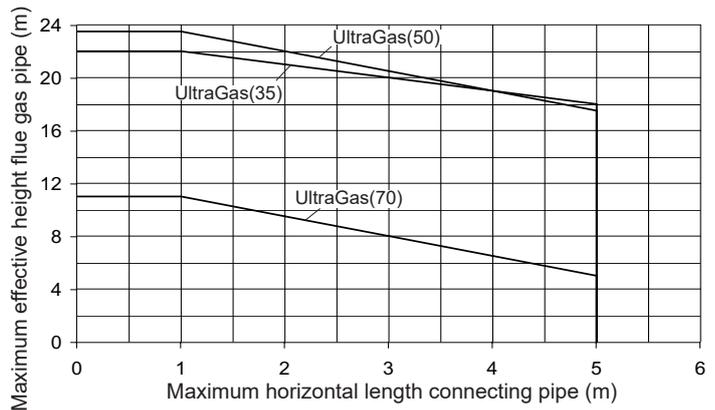
UltraGas® (35-100)

Assembly kit UG K E100 PP
Example UG K E100 Flex PP



UltraGas® (35-70)

Assembly kit/ Example UG K3 C100/150 PP
Example UG K3 C100/150 Flex PP



The following form pieces have already been taken into account:

1 T-piece 90° for connection to the boiler and 1 support arch 90° for supporting the flue pipe in the shaft, 1 component for the end of the chimney.

For all other form pieces in the connecting sections to the chimney the following lengths must be deducted from the maximum chimney heights for UltraGas® (35-100)

Form piece in the connecting duct

- 1 arch 90° E100
- 1 arch 45° E100
- 1 T-piece 90° E100
- 1 arch 90° C100/150
- 1 arch 45° C100/150
- 1 T-piece 90° C100/150

PP-pipes flexible pipes

- 2.5 m
- 1.5 m
- 4.0 m
- 2.5 m
- 1.5 m
- 4.0 m

■ Engineering

Separate ducting of flue gas and combustion air

By fitting the separator C100/150 PP -> 2 x E100 PP the flue gas and the combustion air can be ducted separately.

To determine the total length of PP flue gas tube and combustion air duct the total lengths can be obtained from the diagrams and calculated for the simple chimney installation.

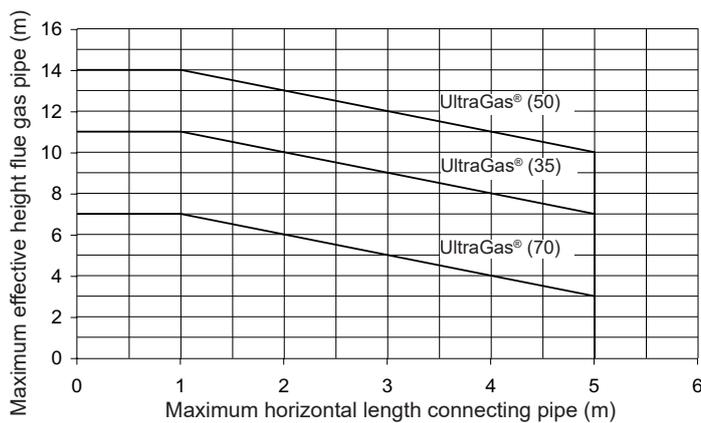
For the remaining form pieces which have to be installed the lengths to be removed must be read off from the table.

**Maximum flue gas pipe length, Out wall systems
Example UG AW C100/150 PP black**

Note:

The data contained in the following diagrams represent guide values calculated at maximum output. An exact calculation for the flue gas duct must be made on-site.

UltraGas® (35-70)



1 T-piece and 1 90° Support arch C80/125 as well as the chimney cowl are included as form pieces.

UltraGas® (35-90)	
1 arch 90° C 100/150	2.0 m
1 arch 45° C 100/150	1.0 m
1 T-piece 90° C 100/150	2.5 m

For all other form pieces in the connecting sections to the chimney the following lengths must be removed from the maximum chimney heights:

■ Description

Flue gas system

Type E130, E150 and E200 PP

- Flue gas system in precast construction method for quick installation.
- Specially suited to oil and gas fired condensing systems.
- Pipe for flue gas made of plastic PP with practical plug-in sleeve connection with Viton sealing ring for joining the individual system components.
- PP: permanent temperature resistance up to 120 °C.
- All long elements can be shortened. The cut edges must be smoothed to avoid damage to sealing.

Examples

The gas outlet shown in the drawing is intended as an example of a possible installation. In practice the configuration must be adapted to the individual situation, taking account of local regulations.

Individual parts

A detailed list of all the parts used in the flue pipe systems and construction sets can be found in the section following the assembly kits.

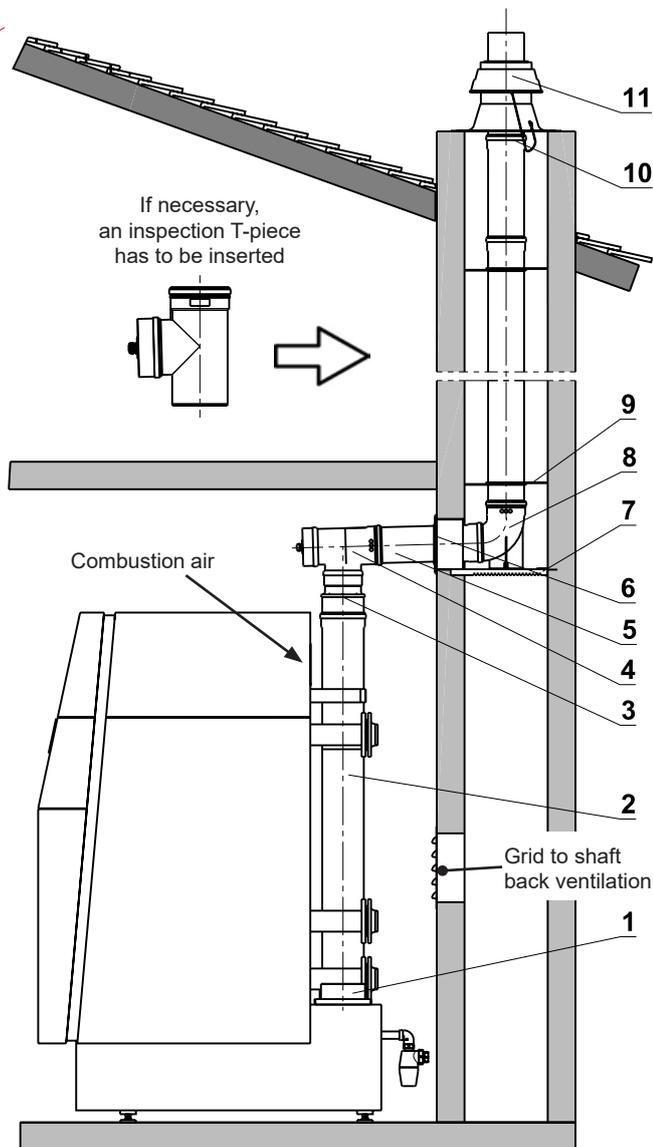
■ Part No.

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Examples to UltraGas® (125-150):



- | | | |
|----|---|-------------|
| 1 | Connection seal with clamping flanges D150 | 2029 956 |
| 2 | Length element E150 PP | as required |
| 3 | Reducing part E150 -> E130 PP | 2025 718 |
| 4 | Inspection T-piece with measure opening E130 PP | 2025 758 |
| 5 | Length element E130 PP | as required |
| 6 | Duct E130 PP
Wall plate with splice
220 x 220 mm, duct tube
D = 180 mm, L = 300 mm | 2010 494 |
| 7 | Bearing rail E | 619 303 |
| 8 | Support arch E130 - 90° | 2025 743 |
| 9 | Distant holder E130
Set (2 pieces) of spring steel | 2010 495 |
| 10 | Muzzle pipe E130 high grade steel | 2025 756 |
| 11 | Top part E130 PP aluminium for chimney end for back ventilation with shaft cover. | 2025 747 |

Additional parts to be ordered if necessary:

- | | |
|-----------------------------------|----------|
| Length element
E130 L = 450 mm | 2025 720 |
| E130 L = 950 mm | 2025 721 |
| E130 L = 1950 mm | 2025 722 |

- | | |
|----------------------------------|----------|
| Pipe clip E130 for wall mounting | 2010 496 |
| Distant holder E130, 2 pieces | 2010 495 |
| Viton seal ring brown Ø 130 mm | 2025 749 |

Further components see end of this section.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

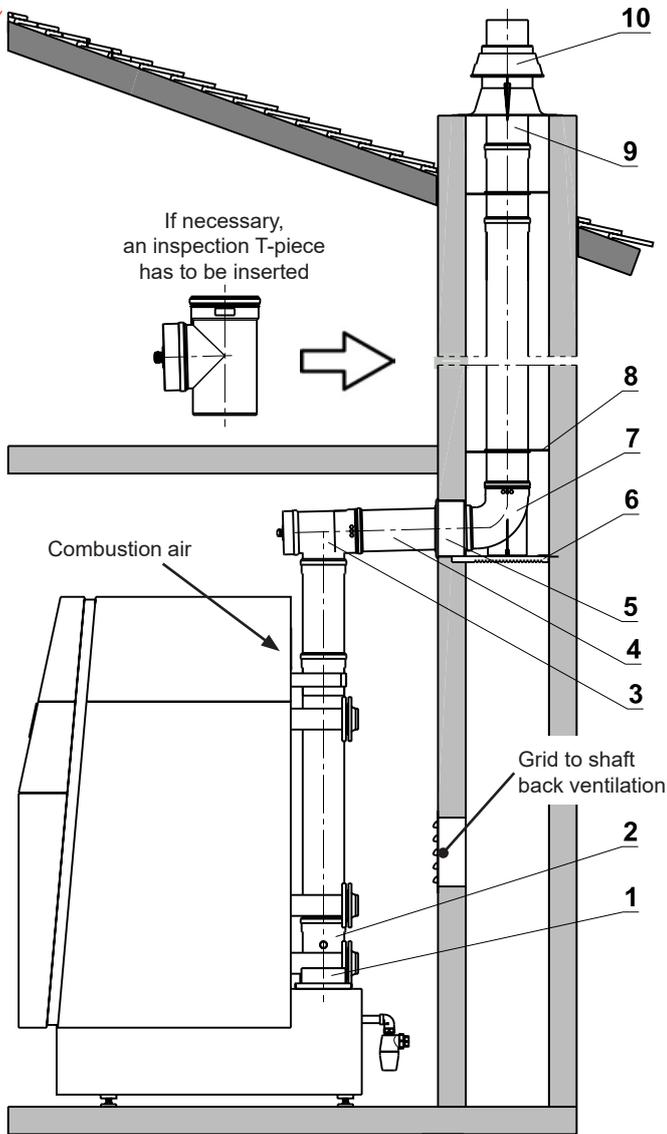
Approval sticker

must be ordered separately, see individual parts

■ Part No.

Room air dependent operation

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CE 0432BPR220556



Part No.

Examples

to UltraGas® (125-150):

1	Connection seal with clamping flanges D150	2029 956
2	Length element with measure opening E150 PP L = 250 mm	2025 753
3	Inspection T-piece with measure opening E150 PP	2025 759
4	Length element E150 PP	as required
5	Duct E150 PP Wall plate with splice 220 x 220 mm, duct tube D = 200 mm, L = 300 mm	2010 512
6	Bearing rail E	619 303
7	Support arch E150 - 90°	2025 744
8	Distant holder E150 Set (2 pieces) of spring steel	2010 506
9	Muzzle pipe E150 high grade steel	2025 757
10	Top part E150 PP aluminium for chimney end for back ventilation with shaft cover	2025 748

Additional parts to be ordered if necessary:

Length element	E150 L = 450 mm	2025 734
	E150 L = 950 mm	2025 735
	E150 L = 1950 mm	2025 736

Pipe clip for wall mounting E150 for wall mounting 2010 507

Distant holder E150 2010 506

Viton seal ring brown Ø 150 mm 2025 750

Further components see end of this section.

This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

Approval sticker

must be ordered separately, see individual parts

■ Part No.

Part No.

Room air dependent operation

Approval
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CE 0432BPR220556

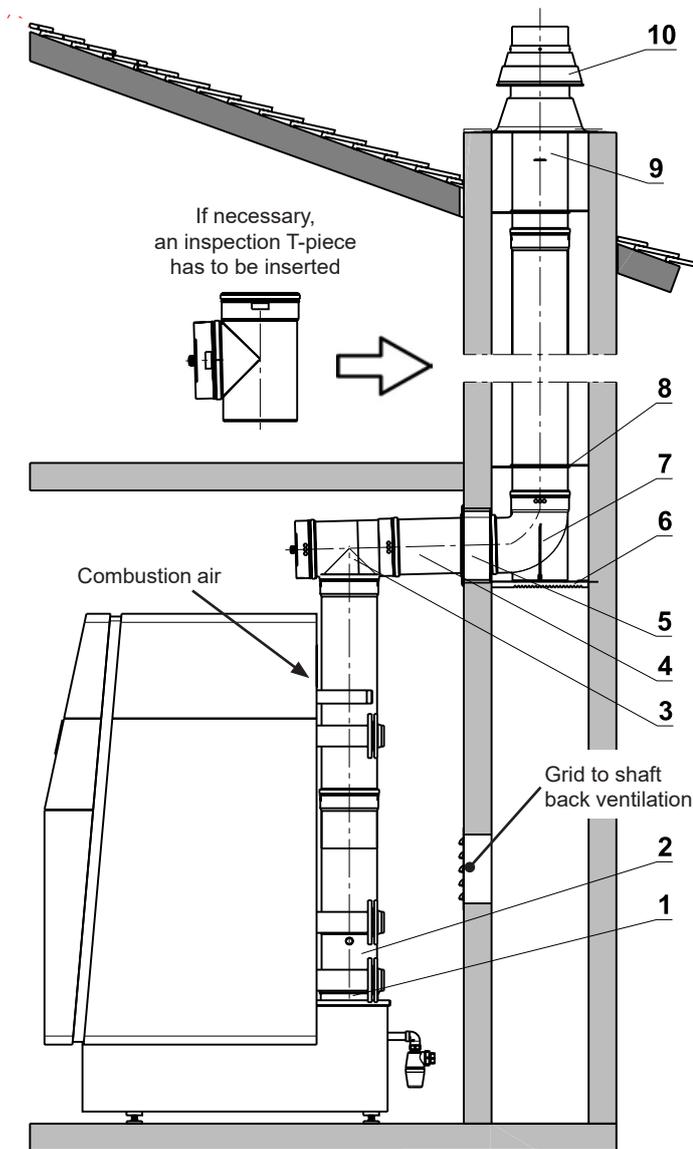
Examples to UltraGas® (200-300):

- | | | |
|----|---|-------------|
| 1 | Flue gas connection D200 clamping flanges with seal D200 | 6021 252 |
| 2 | Length element with measure opening E200 PP L = 250 mm | 2035 940 |
| 3 | Inspection T-piece with measure opening E200 PP | 2035 944 |
| 4 | Length element E200 PP | as required |
| 5 | Duct E200 PP
Wall plate with splice 300 x 300 mm, duct tube D = 250 mm, L = 300 mm | 2035 949 |
| 6 | Bearing rail | 619 303 |
| 7 | Support arch E200 - 90° | 2035 943 |
| 8 | Distant holder E200
Set (2 pieces) of spring steel | 2035 945 |
| 9 | Muzzle pipe E200 high grade steel | 2035 947 |
| 10 | Top part E200 aluminium for chimney end for back ventilation with shaft cover | 2035 946 |

Additional parts to be ordered if necessary:

- | | | |
|----------------------------------|-----------------|----------|
| Length element | E200 L = 430 mm | 2035 937 |
| | E200 L = 930 mm | 2035 938 |
| Pipe clip E200 for wall mounting | | 2035 948 |
| Distant holder E200 | | 2035 945 |
| Viton seal ring brown Ø 200 mm | | 2035 950 |

Further components see end of this section.



This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

The Hoval engineering and installation regulations have to be met strictly!

Approval sticker

must be ordered separately, see individual parts

■ Engineering

General

The installation of flue ducts must be carried out in accordance with all local and national regulations and directives.

Measure opening

Each supply and exhaust pipe must be equipped with a testing vent (already included in the construction sets). These should be placed in such a way that they can conveniently be reached to perform a measurement.

Length adjustment

The basic flue pipes can be reduced in length to fit. However, the cut ends must be carefully smoothed to avoid damage to the gas kit of the connecting piece.

Distant holder

When installing the pipes in a shaft a spacer must be used at least every 2 metres. To provide support for the chimney stack the lowest element must be fixed (bearing rail or pipe clip).

Flue gas temperature

The Hoval flue duct systems term temperature resistant to 120 °C

Connecting pipelines

Horizontal connecting pipes must be installed with an inclination of at least 50 mm per metre of their length installed in the direction of the boiler to allow free return flow of condensation water towards the boiler. The whole exhaust system must be installed so that condensate can never collect at any point.

The flue gas lines must be secured against unwanted loosening of the plug connections.

Condensate drain

Condensation water accumulating in the flue gas pipe can be drained via the boiler.

Chimney shaft

The following minimum chimney cross-sections must be observed:

D = 130 mm

180 x 180 mm for rectangular chimneys,
Ø 200 diameter for round chimneys

D = 150 mm

200 x 200 mm for rectangular chimneys,
Ø 225 diameter for round chimneys

D = 200 mm

250 x 250 mm for rectangular chimneys,
Ø 280 for round chimneys

In determining the chimney dimensions the installation of the spacers should be taken into account.

With simple chimney connections a grille must be installed for the purpose of back ventilation in the shaft.

Sizing basis

The following table was computed assuming a geographic altitude of 1000 m above sea level.

**Maximum flue gas duct length as per usage examples
Chimney connection and flue gas duct in chimney stack**

Flue gas duct dimensions

Boiler		Smooth flue gas line			Number of bows 90° (flue gas + air supply)			
Type UltraGas®	Flue gas dim. inside	Dimension DN	Pipe diameter mm outside	inside	Total pipe length in m (flue gas + air supply)			
					1	2	3	4 ¹⁾
(125)	155	130	130	127	24	23	22	21
(150)	155				15	14	13	12
(125)	155	150	150	147	44	44	44	44
(150)	155				44	44	44	44
(200)	202 ²⁾	200 ³⁾	200	196	50	50	50	50
(250)	202 ²⁾				50	50	50	50
(300)	202 ²⁾				50	50	50	50

- ¹⁾ With 4 bends or more the feed pressure total at the combustion air/flue gas pipe is to be reduced by 30 % and calculation and individual planning of the flue gas ducting is necessary.
- ²⁾ Special flue gas connection D200, see example.
The first 1.5 m of the flue gas pipe must lead straight upward (without bend).
- ³⁾ The vertical length of the flue gas system DN 200 must not exceed 25 m due to the weight load on the support arch.

Notes

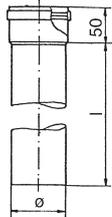
- The data contained in the table represent guide values calculated at maximum output. An exact calculation for the flue gas duct must be made on-site.
- The first 2 m of the flue gas line must be configured with the same dimension as the flue gas connector, after which the size of the flue gas system can be selected according to the table above.

■ Part No.

Part No.

Exhaust and supply Ø 80 mm diameter PP pipe including handy sleeve coupling and double sealing ring for connecting the individual system components. Long term temperature resistance to 120° C.

All long elements can be shortened. The cut edges must be smoothed to avoid damage to gas kit.



Length element E80 PP

L = 450 mm

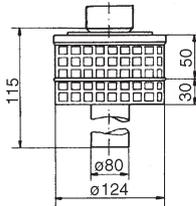
2001 447

L = 950 mm

2001 448

L = 1950 mm

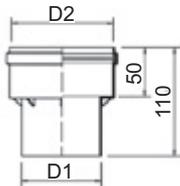
2001 449



Air supply grille E80 PP

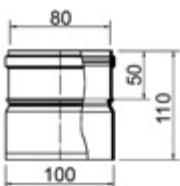
2004 102

incl. tube L = 115 mm



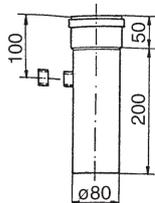
Adapter piece E80 -> E100 PP

2018 532



Reducing part E100 PP -> E80 PP

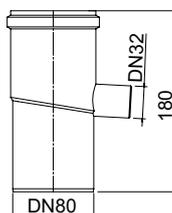
2015 245



Length element E80 PP

2001 451

with measure opening for flue gas
L = 200 mm



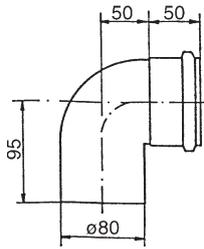
Condensate drain E80 PP

2001 899

horizontal/vertical

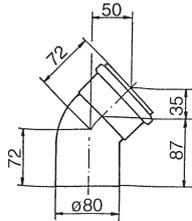
■ Part No.

Part No.



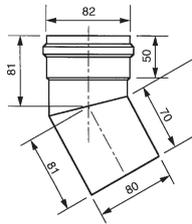
Arch E80 - 90° PP

2001 452



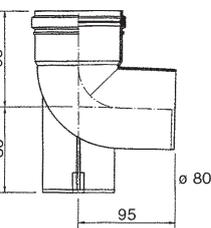
Arch E80 - 45° PP

2001 453



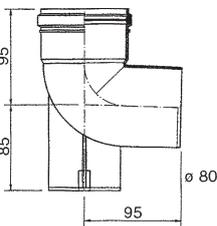
Arch E80 - 30° PP

2001 454



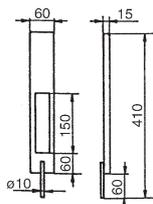
Arch E80 - 15° PP

2003 674



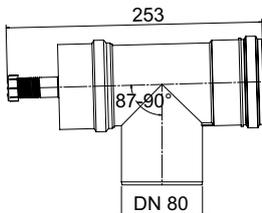
Support arch E80 - 90° PP

2001 455



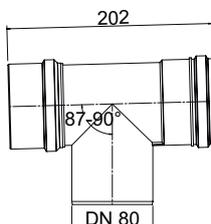
Bearing rail E
Flue gas tube support in shaft

619 303



T-piece E80 - 90° PP
with measure opening

2001 457

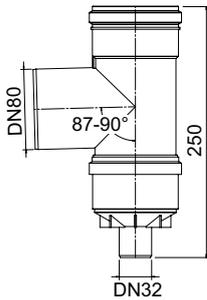


Inspection T-piece E80 - 90° PP

2001 458

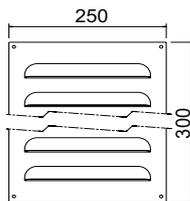
■ Part No.

Part No.



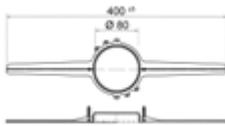
T-piece E80 - 90° PP
as condensate drain
(incl. condensate pan)

2001 460



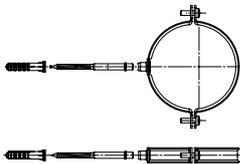
Grid, aluminium
to shaft back ventilation

619 304



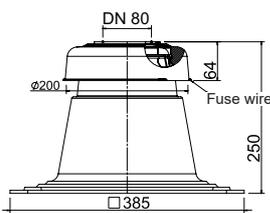
Set (2 pieces)
Distant holder E80
for tube centering

2001 462



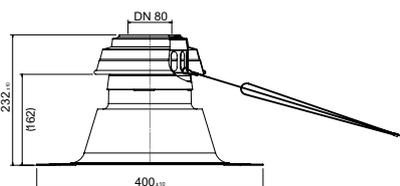
Pipe clip E80
for wall mounting

618 749



Top part 80 PP for chimney end black
for back ventilation with shaft cover
(385 x 385 mm); clamp tape and seal ring

2001 464



**Top part E 80 for chimney end,
of aluminium**
for back ventilation with shaft cover
(Ø 400 mm); clamp tape and seal ring

2038 106

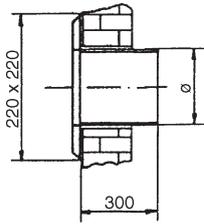


End tube E80
to top part E 80, L = 500 mm
High grade steel

2001 465

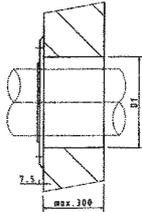
■ Part No.

Part No.



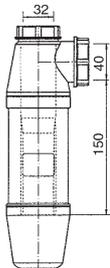
Duct E80
consisting of wall plate
(220 x 220 mm) with seal ring and duct tube
(Ø 150 mm, L = 300 mm)

2001 466



Wall socket
Ø 150 mm, L = 300 mm
for wall duct

2001 419

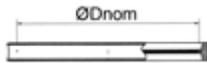


Siphon for condensate removal
Ø 32 mm

2001 471

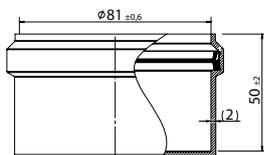
Condensate removal set
Ø 32 mm, 2 arches 90°,
tube L = 500 mm

2001 472



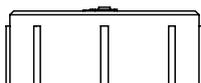
Viton seal ring E80
for PP flue gas tube

2018 530



Flue gas system dummy plug-in sleeve
D80/PP H = 50

2056 797



Measure opening cap grey 1/2"

2060 814

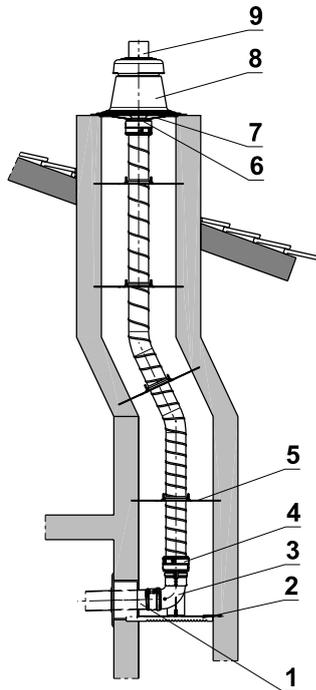


Approval stickers
consisting of the following approval stickers
(contained in a pouch):
- Flue gas tube PP Switzerland
- Flue gas tube PP Germany
- Flue gas tube PP Austria
- Approval notice and installation instructions

6009 755

■ Part No.

Part No.



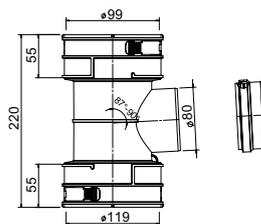
Double walled, flexible PP flue pipe, internal diameter 80 mm, with handy hose connector including Viton sealing rings for connecting the individual system components. Long term temperature resistant to 120 °C. Can easily be combined with the flue system type E80 PP.

Example K E80 Flex-PP
consisting of parts:

- | | |
|---|----------|
| 1 Length element E80
L = 450 mm PP | 2001 447 |
| 2 Bearing rail E
Flue gas tube support in shaft | 619 303 |
| 3 Support arch E80 - 90°, PP | 2001 455 |
| 4 Connection piece below
E80 Flex-PP | 2008 126 |
| 5 Distant holder E80 Flex-PP, 1 piece | 2008 138 |
| 6 Mouth-Connection piece
E80 Flex-PP | 2008 124 |
| 7 Assembly cross E80 Flex-PP,
high grade steel | 2008 125 |
| 8 Top part 80 for chimney end for back
ventilation with shaft cover
(400 x 400 mm),
clamp tape and seal ring | 2001 464 |
| 9 End tube E80 L = 500 mm
to top part E80
High grade steel | 2001 465 |



- | | |
|---|----------|
| Wave tube E80 Flex-PP
Metre ware
Price per metre
Max. length per bundle: 50 m | 2008 131 |
|---|----------|



- | | |
|---|----------|
| Inspection T-piece
E80 Flex-PP | 2008 127 |
|---|----------|



- | | |
|-------------------------------------|----------|
| Connection piece E80 Flex-PP | 2008 128 |
|-------------------------------------|----------|

- | | |
|------------------------------------|----------|
| Viton seal ring E80 Flex-PP | 2008 130 |
|------------------------------------|----------|



- | | |
|---|----------|
| Approval stickers
consisting of the following approval stickers
(contained in a pouch):
- Flue gas tube PP Switzerland
- Flue gas tube PP Germany
- Flue gas tube PP Austria
- Approval notice and installation instructions | 6009 755 |
|---|----------|

■ Part No.

Part No.

Room air dependent operation

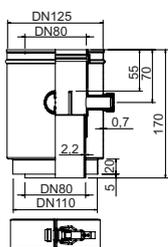
Flue gas pipe Ø 80 mm PP, concentrically mounted in the supply pipe with practical plug-in sleeve connection with Viton sealing ring for joining the individual system components. Long term temperature resistance to 120° C.

Concentrically mounted supply air pipe with 125 mm diameter, made of galvanised sheet steel, white coated (RAL 9016). System components to be joined using plug-in connectors with sealing ring and clamp tape.



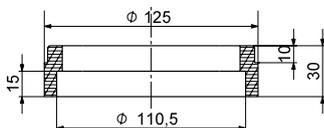
Connection set for ambient air independent operation without sound absorber
 for UltraOil® (16-35), UltraGas® (15-50), MultiJet® (20,25)
 Consisting of:
 corrugated pipe Ø 50 mm for combustion air supply to burner.
 Concentric boiler connection piece E80 -> C80/125 PP for flue gas and supply air.
 Necessary if no Hoval LAS flue gas system is used.

6027 510



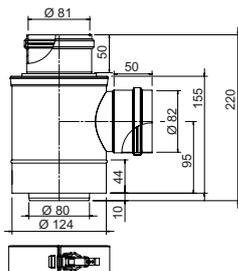
Boiler connection piece C80/110 -> C80/125 PP
 with measure opening for flue gas and supply air to MultiJet® (12,16)

2009 694



Adapter ring C80/110 -> C80/125
 to reduce construction height to MultiJet® (12,16)
 Attention:
 T-piece with measure opening necessary

5015 274

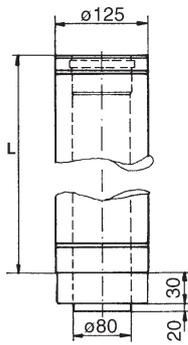


Separating piece C80/125 -> 2 x E80 PP
 for separate conduction of flue gas and combustion air

2010 174

■ Part No.

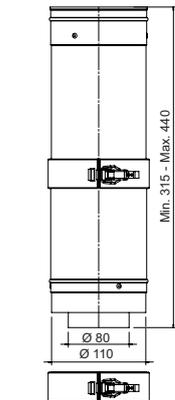
Part No.



Length element C80/125 PP

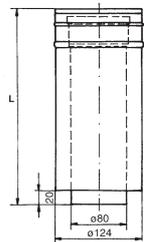
- L = 200 mm
- L = 450 mm
- L = 950 mm
- L = 1950 mm

- 2010 154
- 2010 155
- 2010 156
- 2010 157



Length adjustment piece C80/125 PP

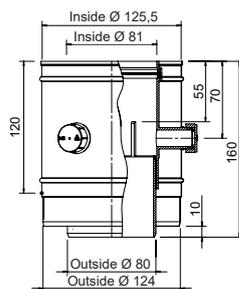
2010 159



Length element, can be shortened C80/125 PP

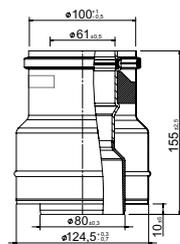
- L = 100 – 1000 mm

2010 158



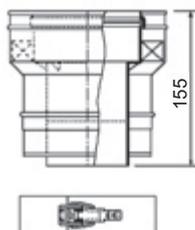
Length element C80/125 PP with measure opening for flue gas and supply air L = 115 mm

2010 160



AS reducing part C80/125 -> C60/100 PP white coated

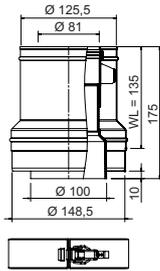
2063 475



Adapter piece C80/125 -> C100/150 PP

2018 533

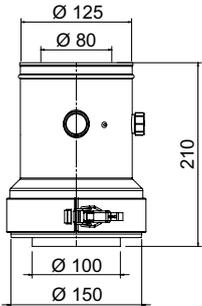
■ Part No.



Part No.

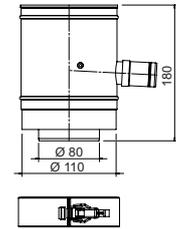
Concentric reducing part
 C100/150 -> C80/125 PP

2025 334



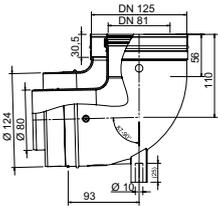
Concentric reducing part
 C100/150 -> C80/125 PP
 with measure opening

2035 934



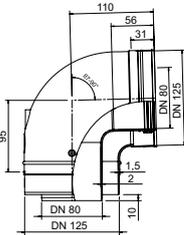
Condensate drain C80/125 PP
 horizontal/vertical

2001 901



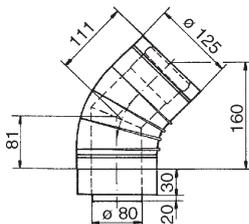
Support arch C80/125 PP - 90°

2018 526



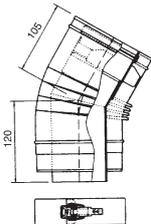
Arch C80/125 PP - 90°

2022 127



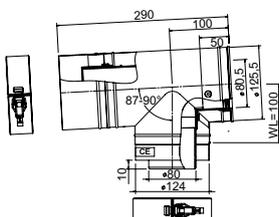
Arch C80/125 PP - 45°

2010 162



Arch C80/125 PP - 30°

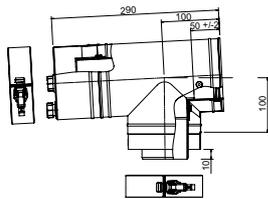
2010 163



Inspection T-piece
 C80/125 PP

2010 164

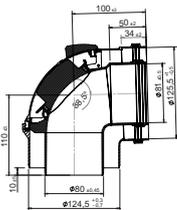
■ Part No.



T-piece C80/125 PP
with measure opening

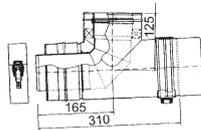
Part No.

2010 165



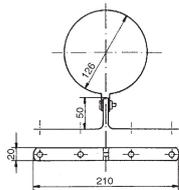
Elbow with access opening C80/125-90°
coated white

2069 576



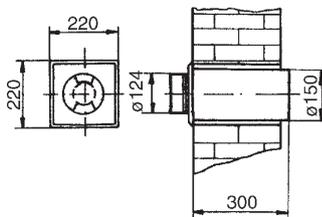
Concentric arch T-piece
C80/125 PP
white coated (RAL 9016)

2038 104



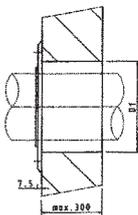
Pipe clip C125
for wall mounting

618 736



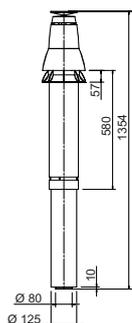
Duct C80/125
consisting of one wall plate with splice
(220 x 220 mm) and one duct tube
(Ø 150 mm, L = 300 mm)

618 737



Wall socket
Ø 150 mm, L = 300 mm
for wall duct

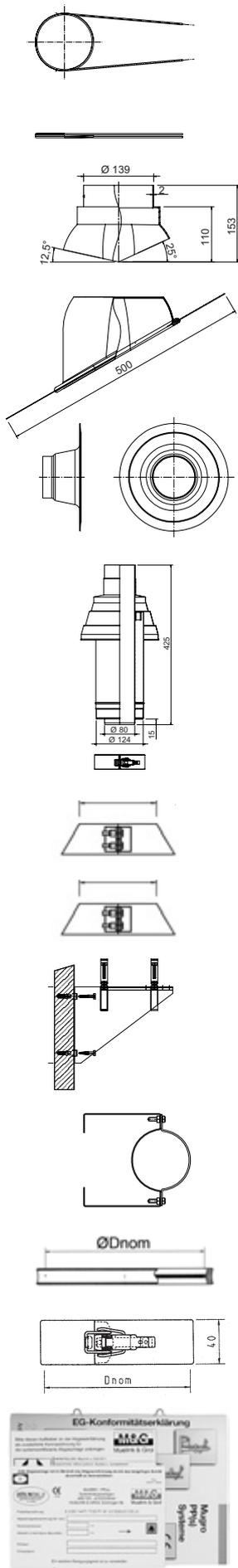
2001 419



Supply air/flue gas - duct
C80/125 PP
to supply air/flue gas system roof centre
incl. pipe clip
grey coated
brick red coated

618 755
2001 420

■ Part No.



Part No.

Set (2 pieces)
Distant holder E130
 of spring steel to MultiJet®

2010 495

Lead pan with bowl C80/125
 for roof duct (gradient 25-55° adjustable),
 Ground plate (500 x 500 mm),
 black coated (RAL 9005)
 brick red coated (RAL 8023)

618 756
 2001 421

Flange for flat roofs C80/125
 for roof heating centre Ø 390 mm
 aluminium

2001 422

LAS-mouth piece
C80/125 PP flue gas tube
of high grade steel
 to flue gas line system in shaft

2018 528

AS-rain keep-off rail
 Ø 125, black coated
 (RAL 9005)

2018 554

AS-rain keep-off rail D = 125 red

2018 555

Outside wall-support bracket
 Ø 125 mm

2004 114

Outside wall-distant holder
 Ø 125 mm
 High grade steel

2004 116

Viton seal ring E80 PP
 for flue gas tube

2018 530

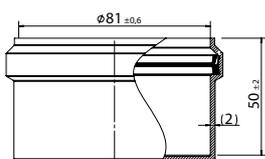
Clamp tape
 Ø 125 mm, with integrated seal ring

618 758

Approval stickers
 consisting of the following approval stickers
 (contained in a pouch):
 - Flue gas tube concentric PP Switzerland
 - Flue gas tube concentric PP Germany
 - Flue gas tube concentric PP Austria
 - Approval notice and installation instructions

6009 756

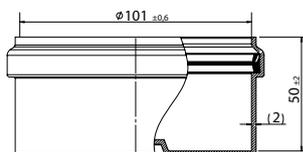
■ Part No.



Flue gas system dummy plug-in sleeve
D80/PP H = 50

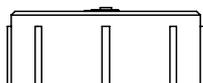
Part No.

2056 797



Flue gas system dummy plug-in sleeve
D100/PP H = 50

2035 491



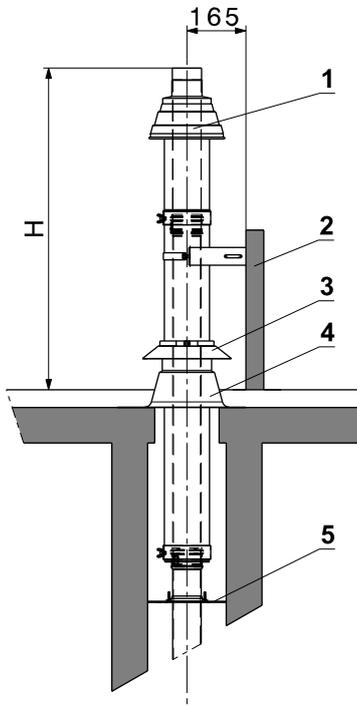
Measure opening cap grey 1/2"

2060 814

■ Part No.

Flue gas system

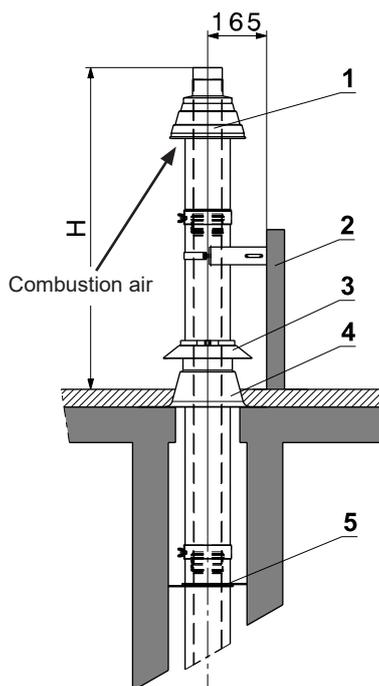
Room air dependent operation



- | | Part No. |
|---|----------|
| 1 LAS-mouth piece C80/125 PP, flue gas tube of high grade steel white coated | 2018 528 |
| 2 Supporting console (at place) with outside distant holder of high grade steel D = 125 | 2004 116 |
| 3 Rain keep-off rail D = 125 black (RAL 9005) | 2018 554 |
| 4 Flat roof flange C80/125 | 2001 422 |
| 5 Distant holder E80 (set) | 2001 462 |

Supply air/flue gas system

Room air independent operation



- | | |
|---|----------|
| 1 LAS-mouth piece C80/125 PP, Flue gas tube of high grade steel white coated | 2018 528 |
| 2 Supporting console (at place) with outside distant holder of high grade steel D = 125 | 2004 116 |
| 3 Rain keep-off rail D = 125 black (RAL 9005) | 2018 554 |
| 4 Flat roof flange C80/125 | 2001 422 |
| 5 Distant holder E130 (2 pieces) | 2010 495 |

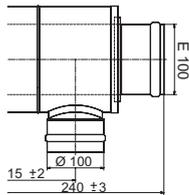
The height H of the flue stack above the roof depends on the local situation and the relevant national regulations.

■ Part No.

Part No.

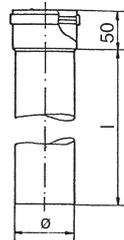
Exhaust and supply 100 mm diameter PP pipe including handy sleeve coupling and double sealing ring for connecting the individual system components. Long term temperature resistance to 120 °C.

All long elements can be shortened. The cut edges must be smoothed to avoid damage to gas kit.



Separating piece
C100/150 -> 2 x E100 PP
for separate conduction of flue gas
and combustion air

2015 244



Length element E100 PP

L = 450 mm

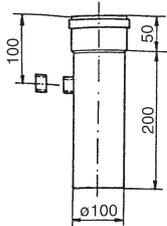
2001 480

L = 950 mm

2001 481

L = 1950 mm

2001 482

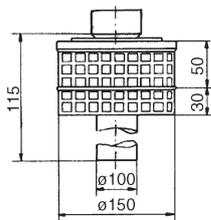


Length element E100 PP

with measure opening for flue gas tube

2001 485

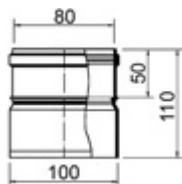
L = 200 mm



Air supply grille E100 PP

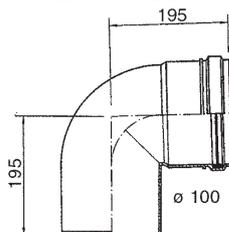
incl. tube, L = 115 mm

2004 168



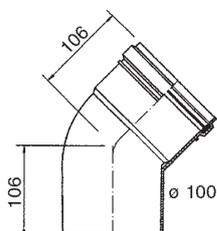
Reducing part E100 PP -> E80 PP

2015 245



Arch E100 - 90° PP

2001 487

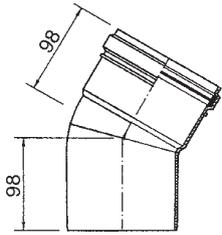


Arch E100 - 45° PP

2001 489

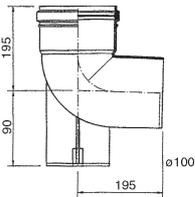
■ Part No.

Part No.



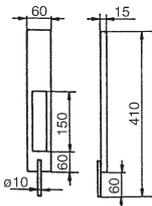
Arch E100 - 30° PP
L = 83 mm

2001 491



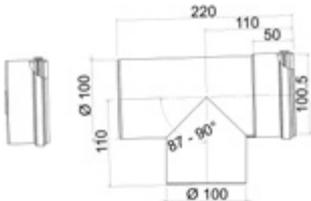
Support arch E100 - 90° PP

2001 493



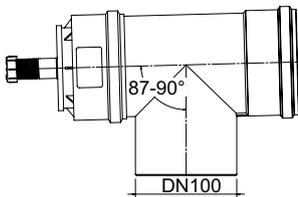
Bearing rail E
Flue gas tube support in shaft

619 303



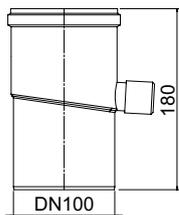
Inspection T-piece E100 - 90° PP

2001 497



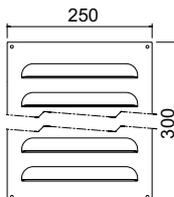
T-piece E100 - 90° PP
with measure opening

2004 169



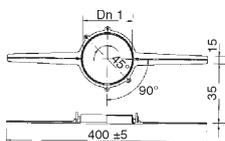
Condensate drainage E100 PP
horizontal/vertical

2004 170



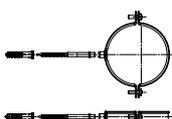
Grid, aluminium
to shaft back ventilation

619 304



Set (2 pieces)
Distant holder E100 PP
of polypropylene for tube centering, black

2001 501

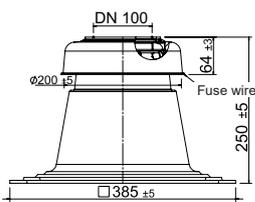


Pipe clip E100
for fastening

2001 502

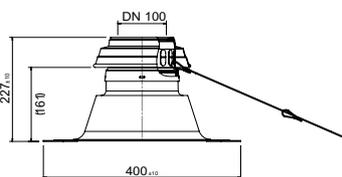
■ Part No.

Part No.



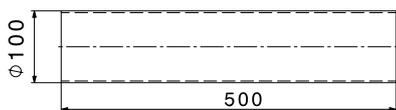
Top part E100 PP for chimney connection, black
for back ventilation with shaft cover (385 x 385 mm); clamp tape and seal ring

2001 504



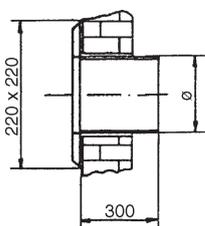
Top part E100 for chimney connection, of aluminium
for back ventilation with shaft cover (Ø 400 mm); clamp tape and seal ring

2038 107



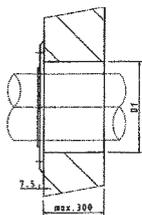
End tube E100
to top part E 100, L = 500 mm
High grade steel

2001 505



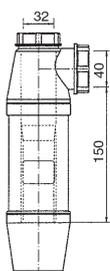
Duct E100
Consisting of wall plate (220 x 220 mm) with seal ring and one duct tube (Ø 150 mm, L = 300 mm)

2001 507



Wall socket
Ø 150 mm, L = 300 mm
for wall duct

2001 419

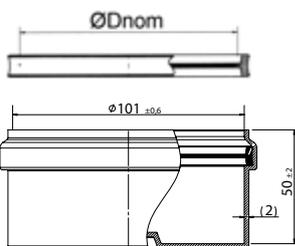


Siphon for condensate removal
Ø 32 mm

2001 471

Condensate removal set
Ø 32 mm, 2 arch 90°, tube 500 mm

2001 472

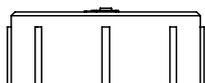


Viton seal ring E100
Ø 100 mm, for PP flue gas tube

2018 531

Flue gas system dummy plug-in sleeve D100/PP H = 50

2035 491



Measure opening cap grey 1/2"

2060 814

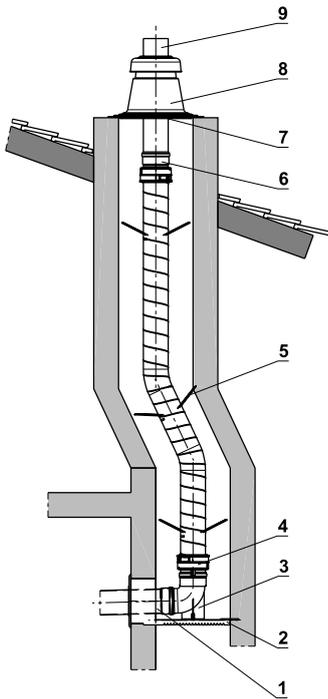


Approval stickers
consisting of the following approval stickers (contained in a pouch):
- Flue gas tube PP Switzerland
- Flue gas tube PP Germany
- Flue gas tube PP Austria
- Approval notice and installation instructions

6009 755

■ Part No.

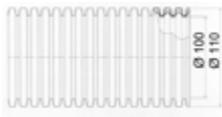
Part No.



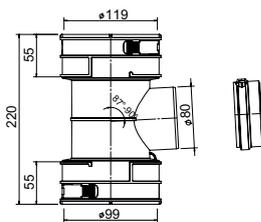
Double walled, flexible PP flue pipe, internal diameter 100 mm, with handy hose connector including Viton sealing rings for connecting the individual system components. Long term temperature resistant to 120° C. Can easily be combined with the flue system type E100 PP.

Example K E100 Flex-PP

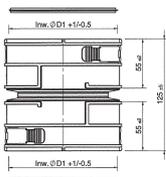
- | | | |
|---|--|----------|
| 1 | Length element E100
L = 450 mm PP | 2001 480 |
| 2 | Bearing rail E
Flue gas tube support in shaft | 619 303 |
| 3 | Support arch E100 - 90°, PP | 2001 493 |
| 4 | Connection piece below
E100 Flex-PP | 2008 135 |
| 5 | Distant holder E100 Flex-PP, 1 piece | 2008 138 |
| 6 | Mouth connection piece E100 Flex-PP | 2008 133 |
| 7 | Assembly cross E100 Flex-PP,
high grade steel | 2008 134 |
| 8 | Top part E100 for chimney end
for back ventilation with shaft cover
(385 x 385 mm), clamp tape and seal ring.
End tube must be ordered separately | 2001 504 |
| 9 | End tube E100 L = 500 mm
to top part E100 PP
High grade steel | 2001 505 |



- | | |
|-------------------------------|----------|
| Wave tube E100 Flex-PP | 2008 140 |
| Metre ware | |
| Price per metre | |
| Max. length per bundle: 50 mm | |



- | | |
|--|----------|
| Inspection T-piece
E100 Flex-PP | 2008 136 |
|--|----------|



- | | |
|--------------------------------------|----------|
| Connection piece E100 Flex-PP | 2008 137 |
|--------------------------------------|----------|



- | | |
|--|----------|
| Approval stickers | 6009 755 |
| consisting of the following approval stickers
(contained in a pouch): | |
| - Flue gas tube PP Switzerland | |
| - Flue gas tube PP Germany | |
| - Flue gas tube PP Austria | |
| - Approval notice and installation instructions | |

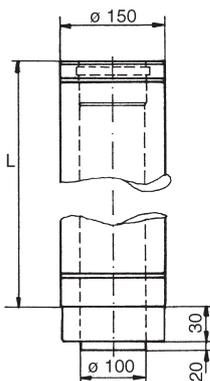
■ Part No.

Part No.

Room air independent operation

100 mm diameter PP pipe for flue gas concentrically mounted in the supply pipe including handy sleeve coupling with double sealing ring for joining the individual system components. Long term temperature resistant PP to 120° C.

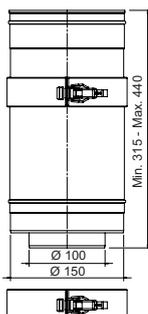
Concentrically mounted supply air pipe with 150 mm diameter made of galvanised steel plate, white (RAL 9016). System components to be joined using plug-in connectors with sealing ring and clamp tape.



Length element C100/150 PP

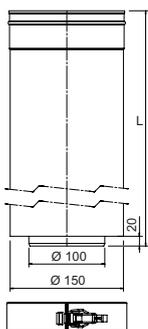
- L = 200 mm
- L = 450 mm
- L = 950 mm
- L = 1950 mm

- 2015 246
- 2015 247
- 2015 248
- 2015 249



Length adjustment piece C100/150 PP

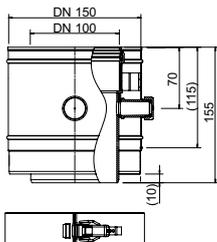
2015 251



Length element, can be shortened C100/150 PP

horizontal/vertical
 L = 100 - 1000 mm

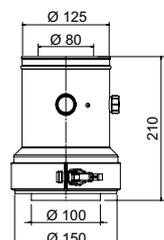
2015 250



Length element C100/150

with measure opening for flue gas and supply air.
 L = 115 mm, PP

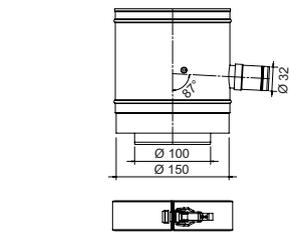
2015 252



Concentric reducing part C100/150 -> C80/125 PP
 with measure opening

2035 934

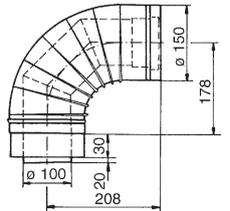
■ Part No.



Condensate drain C100/150 PP
horizontal/vertical

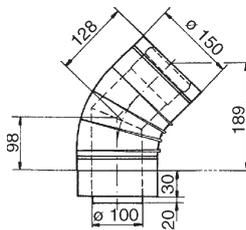
Part No.

2004 171



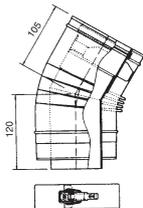
Arch C100/150 PP - 90°

2015 253



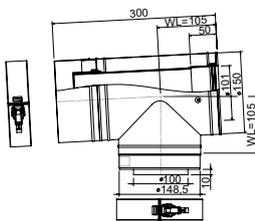
Arch C100/150 PP - 45°

2015 254



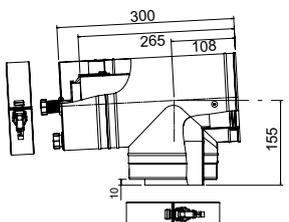
Arch C100/150 PP - 30°

2015 255



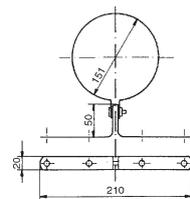
Inspection T-piece
C100/150 PP - 90°

2015 256



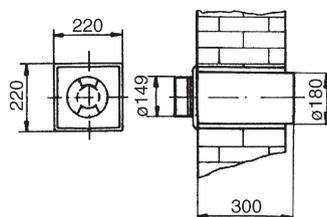
T-piece C100/150 PP
with measure opening
Aluminium
Connection piece

2015 257



Pipe clip C150
for wall mounting

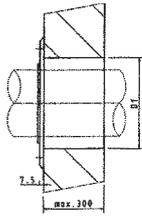
2001 433



Duct C100/150
consisting of a wall plate with splice
(220 x 220 mm) and a duct tube
(Ø 180 mm, L = 300 mm)

2001 434

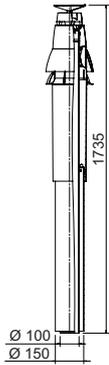
■ Part No.



Wall socket
 Ø 180 mm, L = 300 mm
 for wall duct

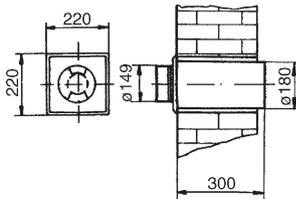
Part No.

2001 437



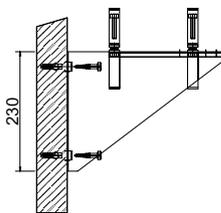
Supply air/Flue gas roof execution
C100/150, PP
 incl. pipe clip
 black coated
 brick coated

2001 438
 2001 439



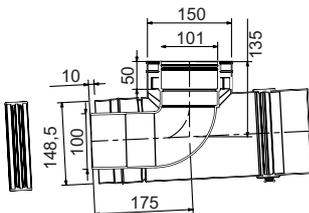
Concentric wall duct C100/150
for outside wall system
 with 2 wall plates 220 x 220 mm
 and wall socket Ø 180 x 300 mm
 white coated (RAL 9016)

2025 704



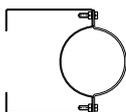
Outside wall support console Ø 150 mm
 incl. mounting material, high grade steel

2025 705



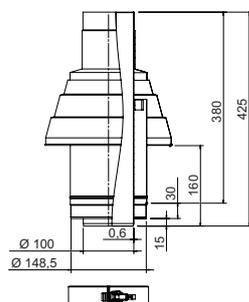
Arch T-piece C100/150
 white coated (RAL 9016)

2038 105



Outside wall distant holder Ø 150 mm,
 incl. mounting material, high grade steel

2025 707

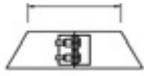


LAS mouth piece C100/150 PP
 Flue gas tube of high grade steel
 white coated (RAL 9016)

2025 708

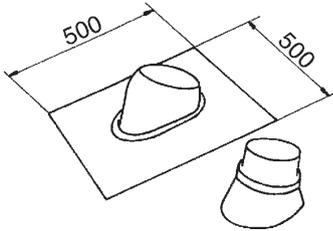
■ Part No.

Part No.



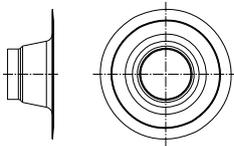
AS rain keep-off rail
Ø 150, black coated
(RAL 9005)

2030 067



Lead pan with bowl C100/150
for roof duct (gradient 25-55° adjustable),
ground plate (500 x 500 mm),
black coated
brick coated

2001 440
2001 441



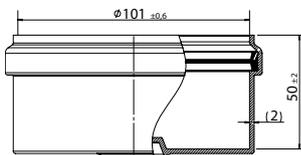
Flange for flat roofs for heating console on roof C100/150,
Ø 390 mm, aluminium

2001 442



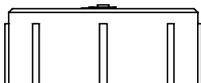
Viton seal ring E100
Ø 100 mm, for flue gas tube

2018 531



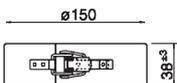
Flue gas system dummy plug-in sleeve D100/PP H = 50

2035 491



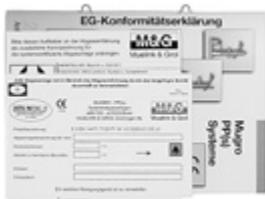
Measure opening cap grey 1/2"

2060 814



Clamp tape
Ø 150 mm, with integrated seal ring

2001 444

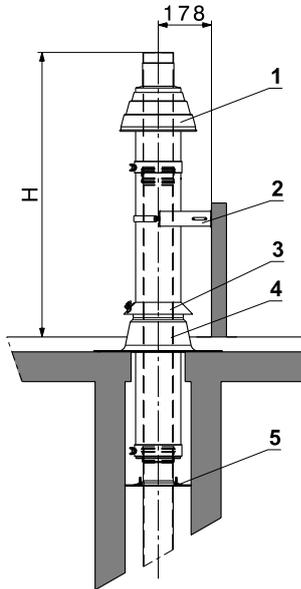


Approval stickers
consisting of the following approval stickers (contained in a pouch):
- Flue gas tube concentric PP Switzerland
- Flue gas tube concentric PP Germany
- Flue gas tube concentric PP Austria
- Approval notice and installation instructions

6009 756

■ Part No.

Room air dependent operation



	Part No.
1 LAS mouth piece C80/125 PP, Flue gas tube of high grade steel white coated (RAL 9016)	2025 708
2 Supporting console (at place) with outside distant holder of high grade steel D = 150	2025 707
3 Rain keep-off rail, black coated D = 150 (RAL 9005)	2030 067
4 Flat roof flange C100/150, aluminium	2001 442
5 Distant holder E100 (set), black	2001 501

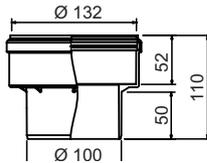
The height H of the flue stack above the roof depends on the local situation and the relevant national regulations.

■ Part No.

Part No.

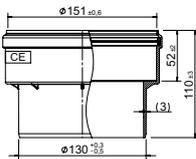
Exhaust and supply Ø 130 mm diameter PP pipe including handy sleeve coupling and double sealing ring for connecting the individual system components. Long term temperature resistance to 120° C.

All long elements can be shortened. The cut edges must be smoothed to avoid damage to gas kit.



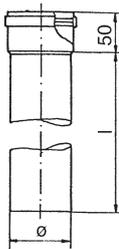
**Connection adapter
E100 -> E130 PP**

2025 751



Expansion piece E130 -> E150 PP

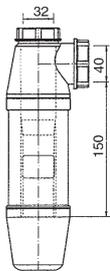
2070 792



Length element E130 PP

L = 450 mm
L = 950 mm
L = 1950 mm

2025 720
2025 721
2025 722

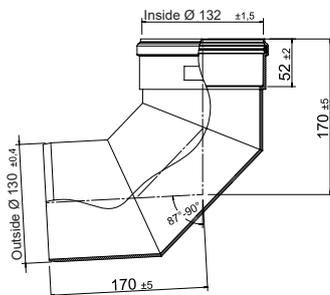


**Siphon for condensate removal
Ø 32 mm**

2001 471

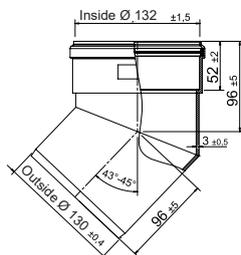
**Condensate removal set
Ø 32 mm, 2 arch 90°, tube 500 mm**

2001 472



Arch E130 - 90°

2025 737

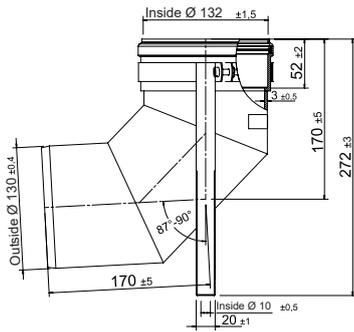


Arch E130 - 45°

2025 738

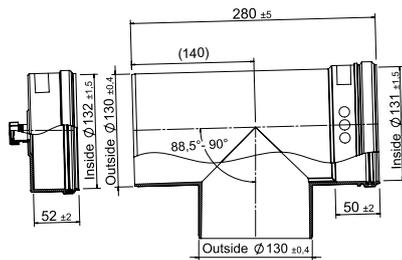
■ Part No.

Part No.



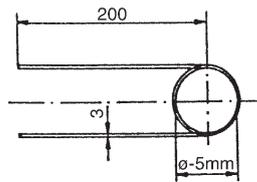
Support arch E130 - 90°

2025 743



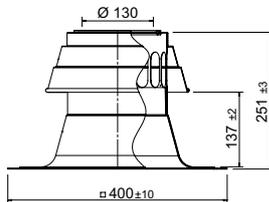
**Inspection T-piece E130 - 90°
with measure opening E 130 PP**

2025 758



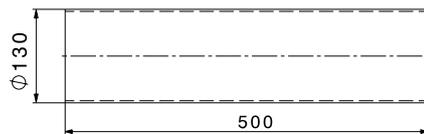
**Set (2 piece)
Distant holder E130
for tube centering**

2010 495



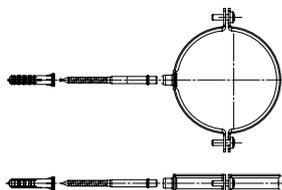
**Top part 130 for chimney end
aluminium
for back ventilation with shaft cover**

2025 747



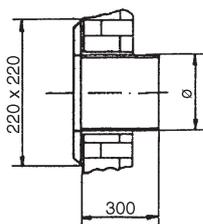
**Mouth tube
High grade steel Ø130, L = 500**

2025 756



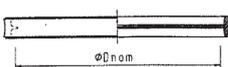
**Pipe clip E130
for wall mounting**

2010 496



**Duct E130
consisting of wall plate
(220 x 220 mm) with seal ring and
a duct tube (Ø 180 mm, L = 300 mm)**

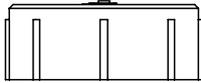
2010 494



**Viton seal ring E130
to flue gas tube**

2025 749

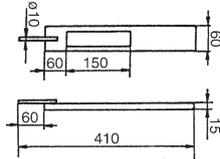
■ Part No.



Measure opening cap grey 1/2"

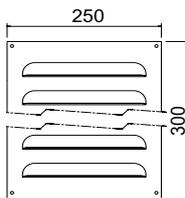
Part No.

2060 814



Bearing rail E
Flue gas tube support in shaft

619 303



Aluminium ventilation grille 300 x 250 mm
to back ventilation in shaft
Ventilation space 175 cm²

619 304



Approval stickers
consisting of the following
approval stickers (contained in a pouch):
- Flue gas tube PP Switzerland
- Flue gas tube PP Germany
- Flue gas tube PP Austria
- Approval notice and installation instructions

6009 755

■ Part No.

Part No.

Exhaust and supply Ø 150 mm diameter PP pipe including handy sleeve coupling and double sealing ring for connecting the individual system components. Long term temperature resistance to 120° C.

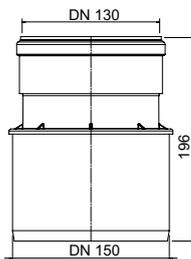
All long elements can be shortened. The cut edges must be smoothed to avoid damage to gas kit.

Connection seal
to UltraGas® (125,150)
clamping flanges D150

2029 956

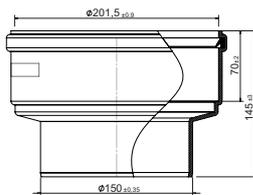
Reducing part
E150 ->130 PP

2025 718



Expansion piece E150 -> E200 PP

2070 793



Length element E150 PP

L = 450 mm

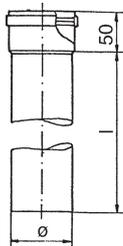
2025 734

L = 950 mm

2025 735

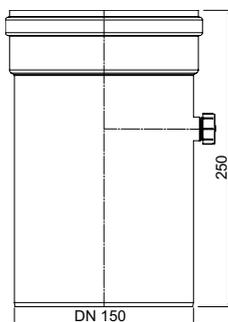
L = 1950 mm

2025 736



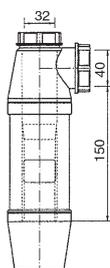
Length element with measure opening
E150 PP L = 250 mm

2025 753



Siphon for condensate removal
Ø 32 mm

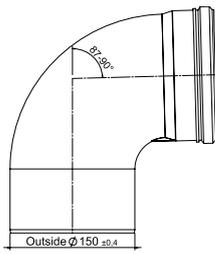
2001 471



Condensate removal set
Ø 32 mm, 2 arch 90°, tube 500 mm

2001 472

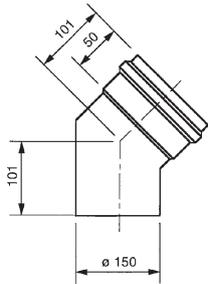
■ Part No.



Arch E150 - 90

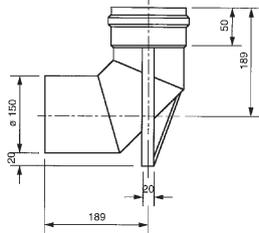
Part No.

2025 740



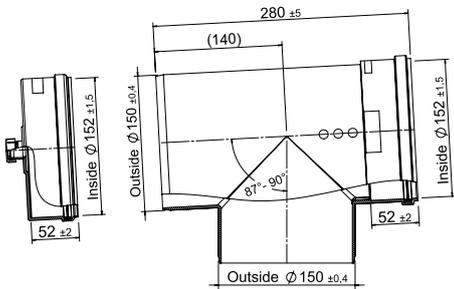
Arch E150 - 45°

2025 741



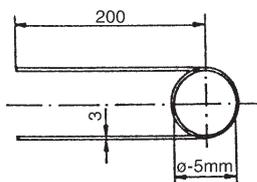
Support arch E150 - 90°

2025 744



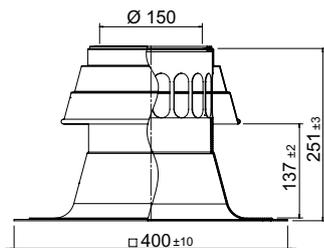
Inspection T-piece E150 - 90°
with measure opening E 150 PP,
L = 280 mm

2025 759



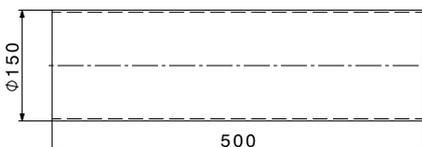
Set (2 piece)
Distant holder E150
for tube centering

2010 506



Top part 150 for chimney end
aluminium
for back ventilation with shaft cover

2025 748

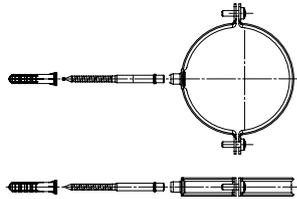


Mouth tube
High grade steel Ø150 L = 500

2025 757

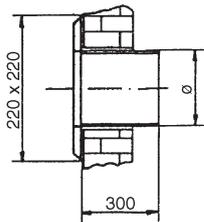
■ Part No.

Part No.



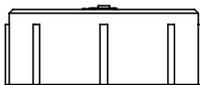
Pipe clip E150
for wall mounting

2010 507



Duct E150
consisting of wall plate
(220x220 mm) with seal ring
and a duct tube (Ø 200 mm, L = 300 mm)

2010 512



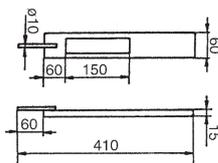
Measure opening cap grey 1/2"

2060 814



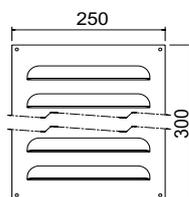
Viton seal ring E150
to flue gas tube

2025 750



Bearing rail E
Flue gas tube support in shaft

619 303



Aluminium ventilation grille 300 x 250 mm
to back ventilation in shaft
Ventilation space 175 cm²

619 304



Approval stickers
consisting of the following
approval stickers (contained in a pouch):
- Flue gas tube PP Switzerland
- Flue gas tube PP Germany
- Flue gas tube PP Austria
- Approval notice and installation instructions

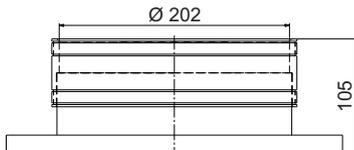
6009 755

■ Part No.

Part No.

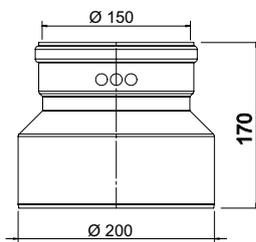
Exhaust and supply Ø 200 mm diameter PP pipe including handy sleeve coupling and double sealing ring for connecting the individual system components. Long term temperature resistance to 120° C.

All long elements can be shortened. The cut edges must be smoothed to avoid damage to gas kit.



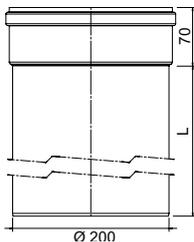
Flue gas connection D200
to UltraGas® (200-300)
Option
consisting of flue gas connection Ø 200 mm
and clamping flange with seal

6021 252



Reducing part
E200 ->150 PP

2035 936



Length element E200 PP

L = 430 mm

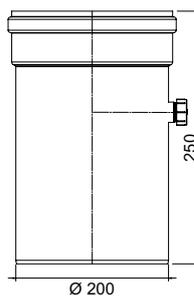
L = 930 mm

L = 1930 mm

2035 937

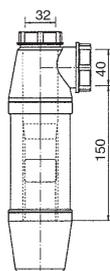
2035 938

2035 939



Length element with measure opening
E200 PP, L = 250 mm

2035 940



Siphon for condensate removal
Ø 32 mm

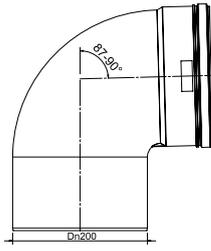
2001 471

Condensate removal set
Ø 32 mm, 2 arch 90°, tube 500 mm

2001 472

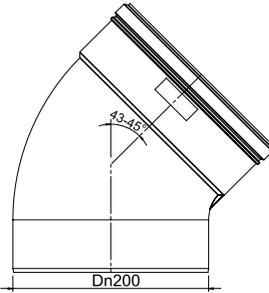
■ Part No.

Part No.



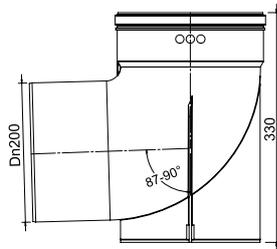
Arch E200 - 90°

2035 941



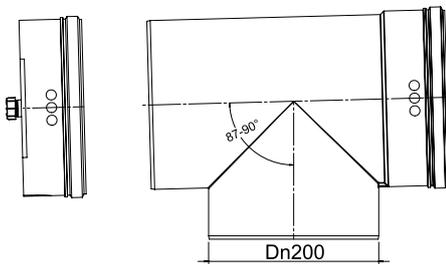
Arch E200 - 45°

2035 942



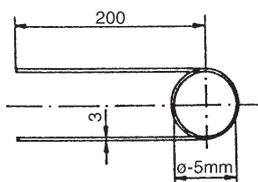
Support arch E200 - 90°

2035 943



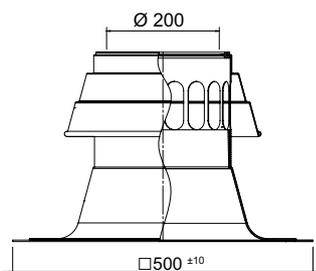
Inspection T-piece E200 - 90°
with measure opening

2035 944



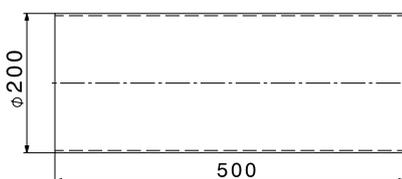
Set (2 pieces)
Distant holder E200
for tube centering

2035 945



Top part 200 for chimney end
aluminium
for back ventilation with shaft cover

2035 946

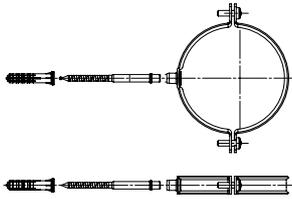


Mouth tube
High grade steel Ø 200 L = 500

2035 947

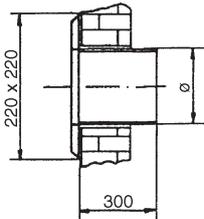
■ Part No.

Part No.



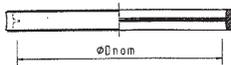
Pipe clip E200
for wall mounting

2035 948



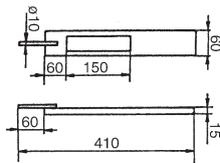
Duct E200
consisting of wall plate
(300 x 300 mm) with seal ring
and duct tube (Ø 250 mm, L = 300 mm)

2035 949



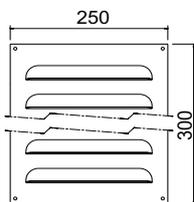
Viton seal ring E200
to flue gas tube

2035 950



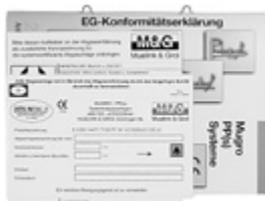
Bearing rail E
Flue gas tube support in shaft

619 303



Aluminium ventilation grille 300 x 250 mm
to back ventilation in shaft
Ventilation space 175 cm²

619 304



Approval stickers
consisting of the following
approval stickers (contained in a pouch):
- Flue gas tube PP Switzerland
- Flue gas tube PP Germany
- Flue gas tube PP Austria
- Approval notice and installation instructions

6009 755