

		Page		
Flue gas line systems Gas condensing boiler		DN80 to TopGas® comfort, combi, classic (12-45)		
		<ul style="list-style-type: none"> ■ Description ■ Part numbers ■ Dimensions ■ Engineering 	219 220 243 246	
		<hr/>		
			DN100 to TopGas® classic (35-80)	
			<ul style="list-style-type: none"> ■ Description ■ Part numbers ■ Dimensions ■ Engineering 	248 249 257 258
<hr/>				
	DN80 to UltraGas® (15-50)			
	<ul style="list-style-type: none"> ■ Description ■ Part numbers ■ Dimensions ■ Engineering 	261 262 271 272		
	<hr/>			
		DN100 to UltraGas® (35-100)		
<ul style="list-style-type: none"> ■ Description ■ Part numbers ■ Dimensions ■ Engineering 		274 275 285 288		
<hr/>				
		DN130, DN150, DN200 to UltraGas® (125-300)		
	<ul style="list-style-type: none"> ■ Description ■ Part numbers ■ Engineering 	290 291 294		
	<hr/>			
	Individual parts			
<ul style="list-style-type: none"> ■ E 80 mm ■ C 80/125 mm ■ E 100 mm ■ C 100/150 mm ■ E 130 mm ■ E 150 mm ■ E 200 mm 		295 300 307 311 316 319 322		

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

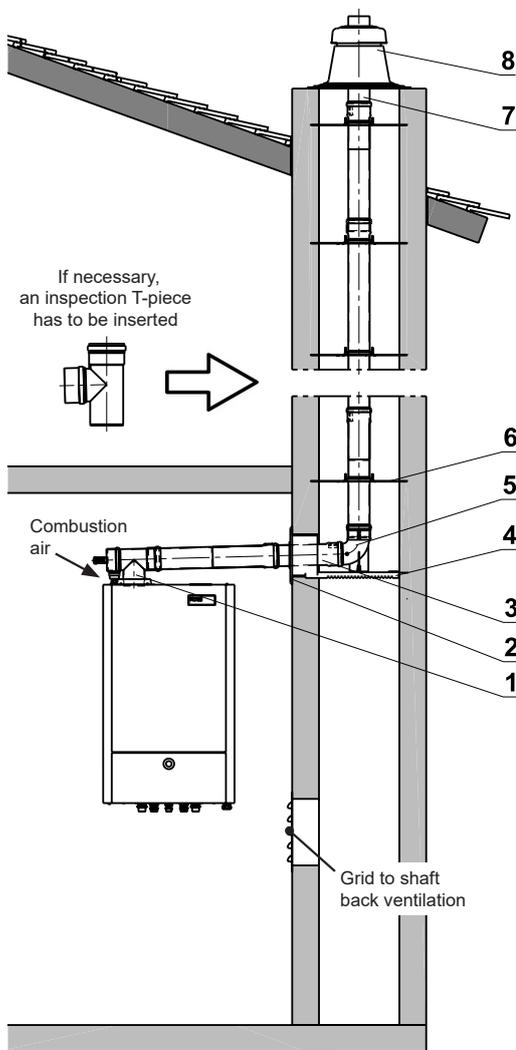
to TopGas® TopGas® comfort, combi, classic (12-30)
E80 PP, Ø 80 mm Plastic PP

Part numbers

Room air dependent operation

Approval

VKF-No. Z 14604
CE 0432BPR220556



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

- | | Part No. |
|--|-----------------|
| 1 T-piece with measure opening
E80 - 90° PP | 6007 983 |
| 2 Duct E80
Wall plate 220 x 220 mm
with seal ring and casing tube
Ø 150 mm, L = 300 mm | 2001 457 |
| 3 Length element E80, L = 450 mm PP | 2001 466 |
| 4 Bearing rail E
Flue gas tube support in shaft | 2001 447 |
| 5 Support arch E80 - 90° PP | 619 303 |
| 6 Set (2 pieces) distant holder E80
of polypropylene for tube centering
in shaft; 3 sets | 2001 455 |
| 7 End tube E80 L = 500 mm to top E80
High grade steel | 2001 462 |
| 8 Top part E80 for chimney end
for back ventilation with
shaft cover 400 x 400 mm,
clamp tape and seal ring | 2001 465 |
| | 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".

Approval sticker incl. working drawings
must be ordered separately,
see individual parts

Hoval flue gas system in shaft

to TopGas® TopGas® classic (35,45)

E80 PP, Ø 80 mm Plastic PP

Part numbers

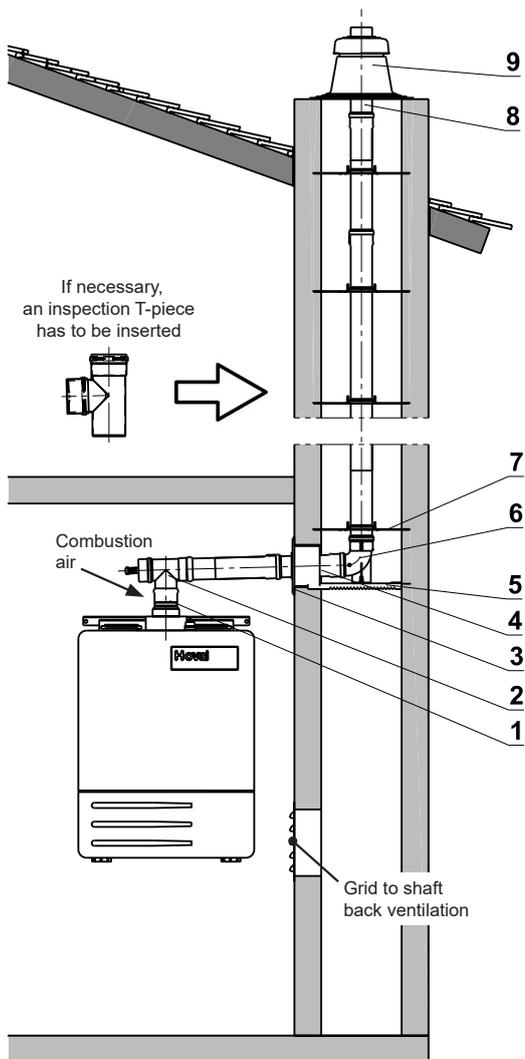
Room air dependent operation

Approval

VKF-No. Z 14604

CE 0432BPR220556

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 |

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!

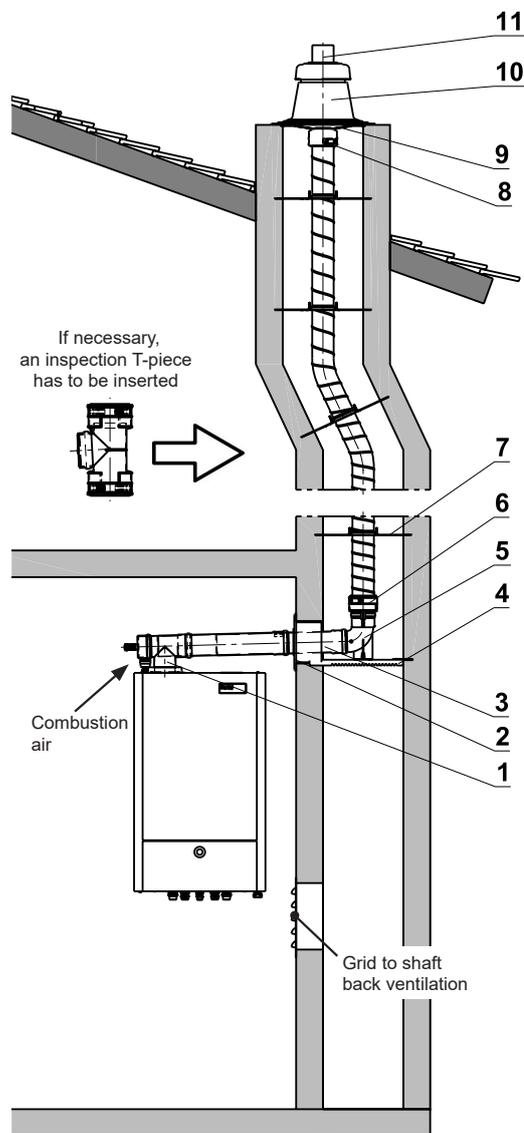
The connection situation and the dimensions are shown on chapter "Dimensions".

Approval sticker incl. working drawings
must be ordered separately,
see individual parts

Further components see section following the assembly kits.

Room air dependent operation

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VKF-No. Z 14604
CE 0432BPR220556



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 |

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 incl. working drawings must be ordered separately, see individual parts

Hoval flue gas system in shaft

to TopGas® classic (35,45)

E80 Flex PP, Ø 80 mm Plastic PP/Flex

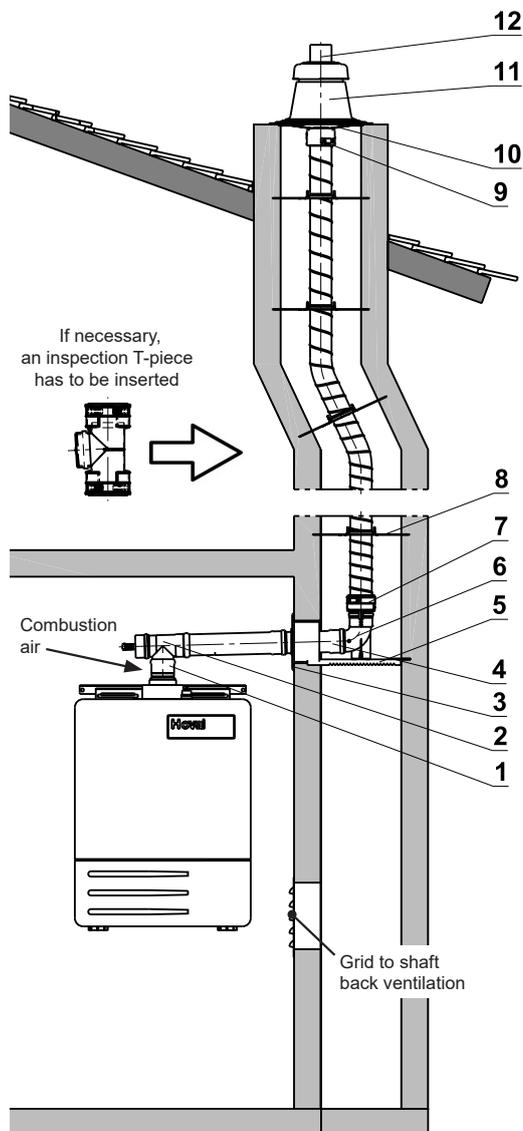
Part numbers

Room air dependent operation

Approval

VKF-No. Z 14604

CE 0432BPR220556



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.

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 incl. working drawings must be ordered separately, see individual parts

Part No.

Hoval supply air / flue gas system in shaft

to TopGas® comfort, combi, classic (12-30)

C80/125 PP, Ø 80/125 mm Plastic PP

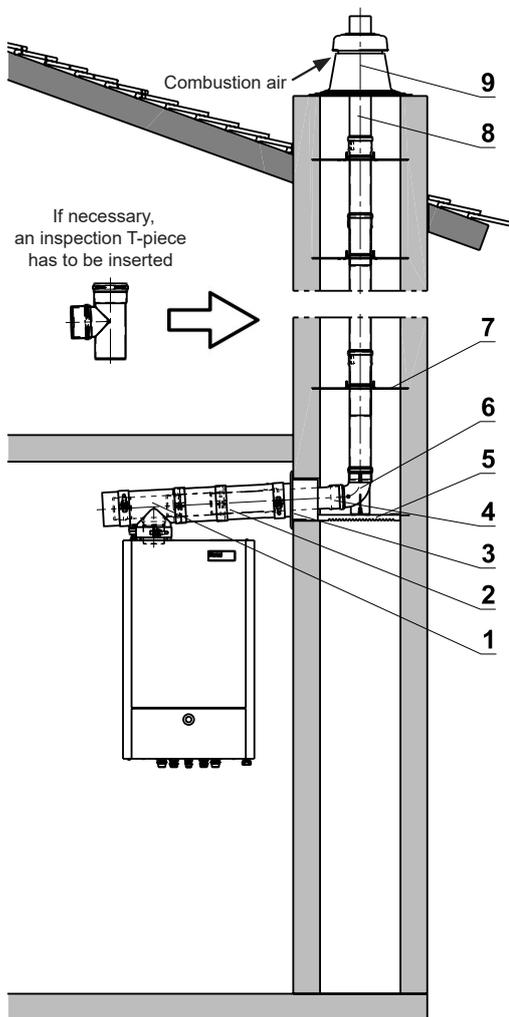
Part numbers

Room air independent operation

Approval

VKF-No. Z 14603 / 14604

CE 0432BPR220556



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

	Part No.
1 Inspection T-piece with measure opening C80/125 PP	6007 988
2 Length adjustment piece C80/125 L = 515 - 440 mm	2010 165
3 Duct C80/125 Wall plate with splice 220 x 220 mm and casing tube Ø 150 mm, L = 300 mm	2010 159
4 Length element E80 L = 450 mm PP	618 737
5 Bearing rail E Flue gas tube support in shaft	2001 447
6 Support arch E80 - 90° PP	619 303
7 Garnitur (2 pieces) distant holder E80 of Polypropylene for tube centering in shaft; 3 sets	2001 455
8 End tube E80 L = 500 mm to top E80 High grade steel	2001 462
9 Top part 80 for chimney end for back ventilation with shaft cover 400 x 400 mm, clamp tape and seal ring	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 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.

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 incl. working drawings must be ordered separately, see individual parts

Hoval supply air / flue gas system in shaft

to TopGas® classic (35,45)

C80/125 PP, Ø 80/125 mm Plastic PP

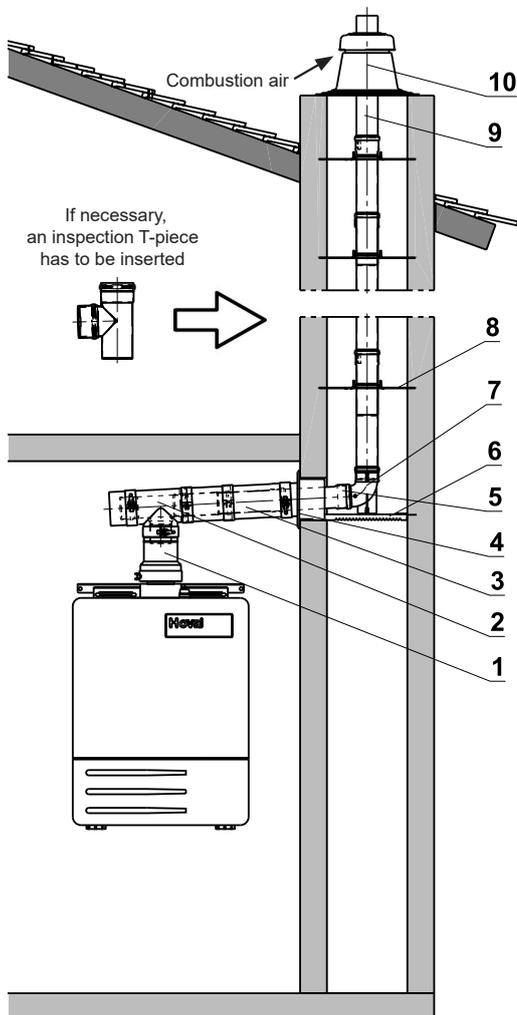
Part numbers

Room air independent operation

Approval

VKF-No. Z 14603 / 14604

CE 0432BPR220556



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.

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 incl. working drawings must be ordered separately, see individual parts

Part No.

Hoval supply air / flue gas system in shaft

to TopGas® comfort, combi, classic (12-30)

C80/125 Flex PP, Ø 80/125 mm Plastic PP/Flex

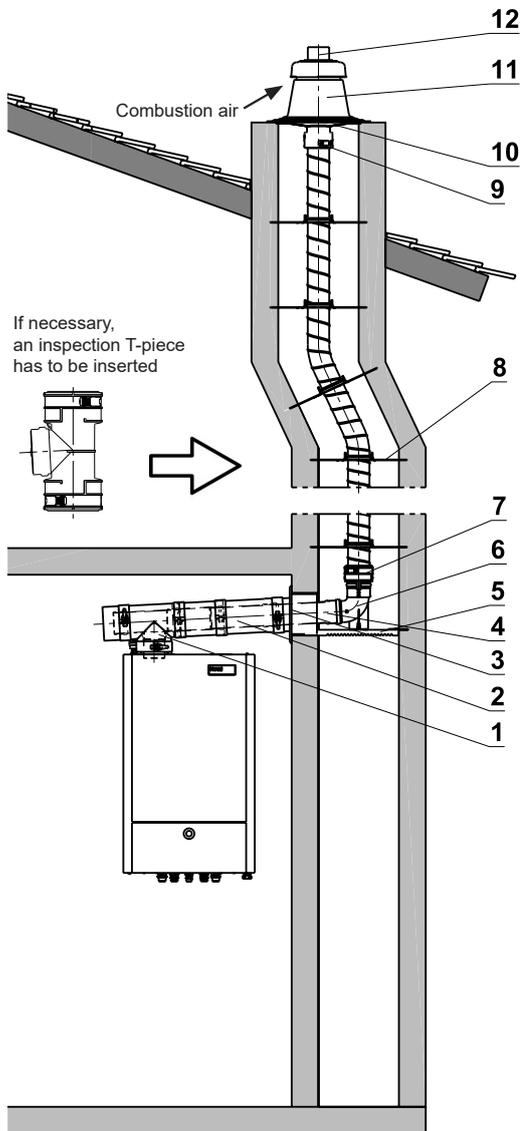
Part numbers

Room air independent operation

Approval

VKF-No. Z 14603 / 14604

CE 0432BPR220556



Assembly kit TG K1 C80/125 Flex PP 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 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 Connection piece below E80 Flex PP	2008 126
8 Distant holder E80 Flex PP 3 Piece	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 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

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.

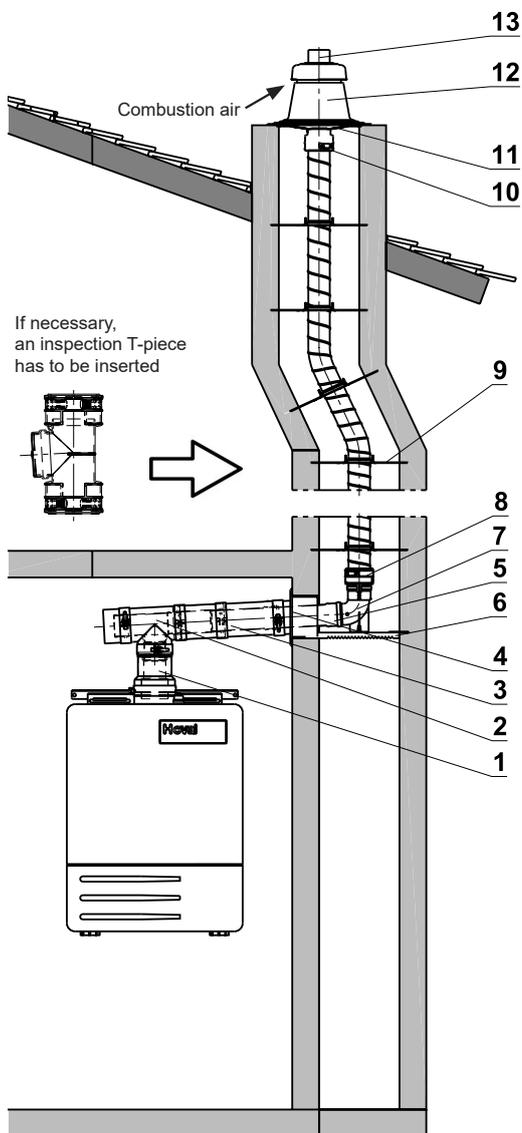
Approval sticker incl. working drawings must be ordered separately, see individual parts

Room air independent operation

Approval

VKF-No. Z 14603 / 14604

CE 0432BPR220556



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.

Approval sticker incl. working drawings must be ordered separately, see individual parts

Part No.

Hoval supply air / flue gas system in shaft

to TopGas® comfort, combi, classic (12-30)

C80/125 PP, Ø 80/125 mm Plastic PP

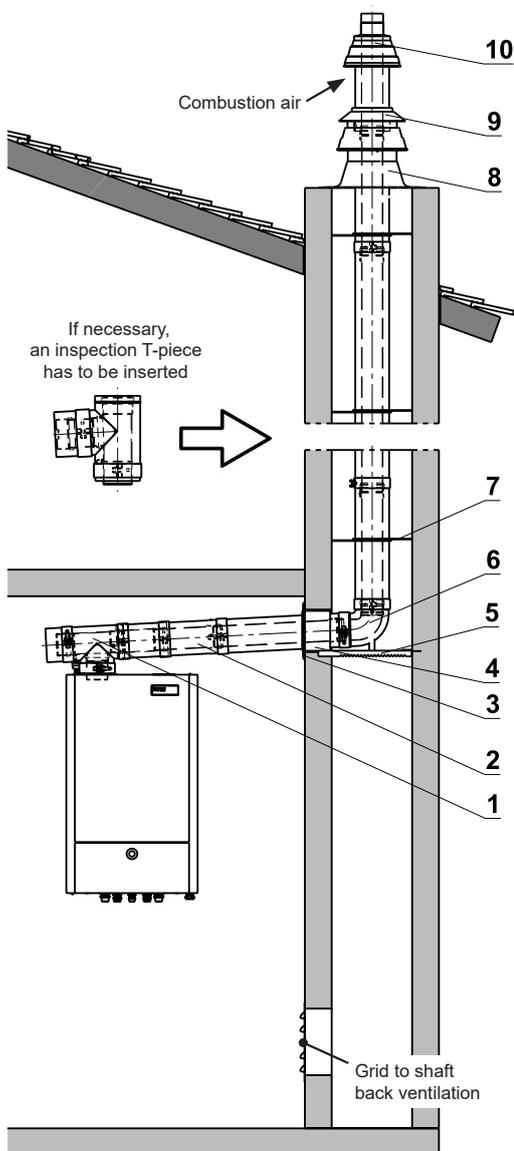
Part numbers

Room air independent operation

Approval

VKF-No. Z 14603

CE 0432BPR220556



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 pice 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!

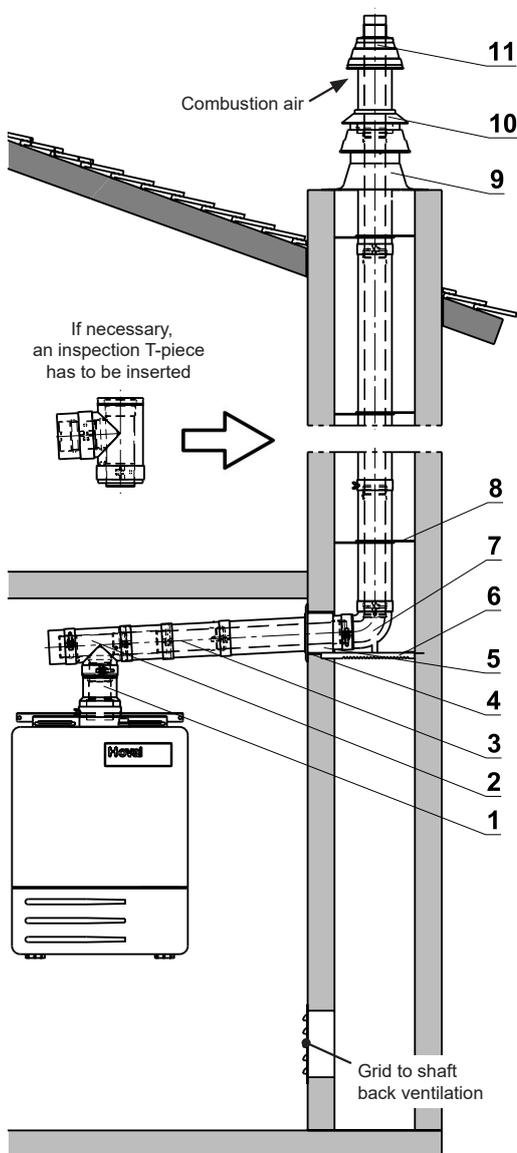
The connection situation and the dimensions are shown on chapter "Dimensions".

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.

Approval sticker incl. working drawings must be ordered separately, see individual parts

Room air independent operation

Approval
VKF-No. Z 14603
CE 0432BPR220556



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, 220 x 220 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.

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 mea-
sure opening must be planned directly at the
boiler connecting piece.

Approval sticker incl. working drawings
must be ordered separately,
see individual parts

Hoval supply air / flue gas system in shaft

to TopGas® comfort, combi, classic (12-30)

C80/125 PP, Ø 80/125 mm PP, roof duct black

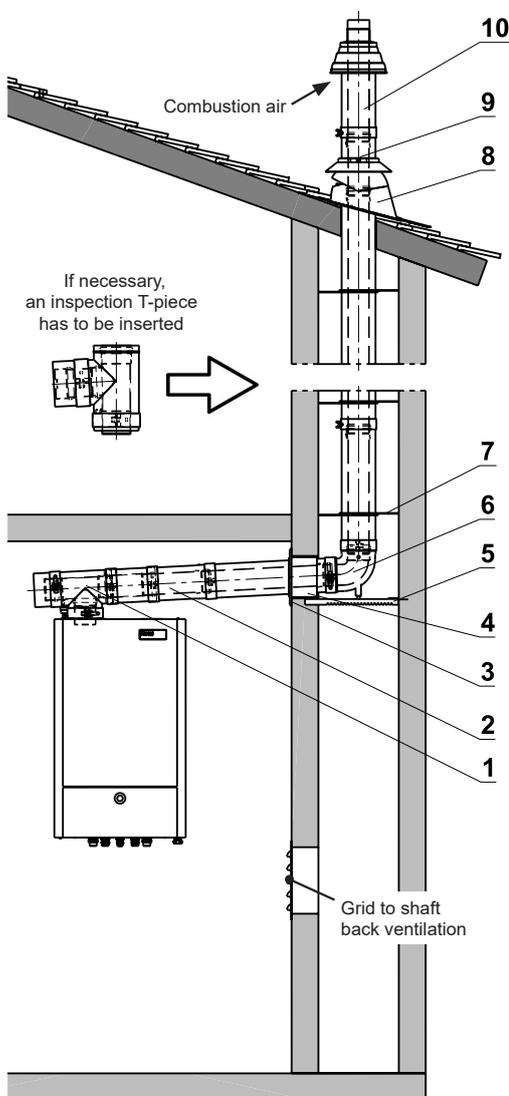
Part numbers

Room air independent operation

Approval

VKF-No. Z 14603

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, black coated | 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 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".

Approval sticker incl. working drawings

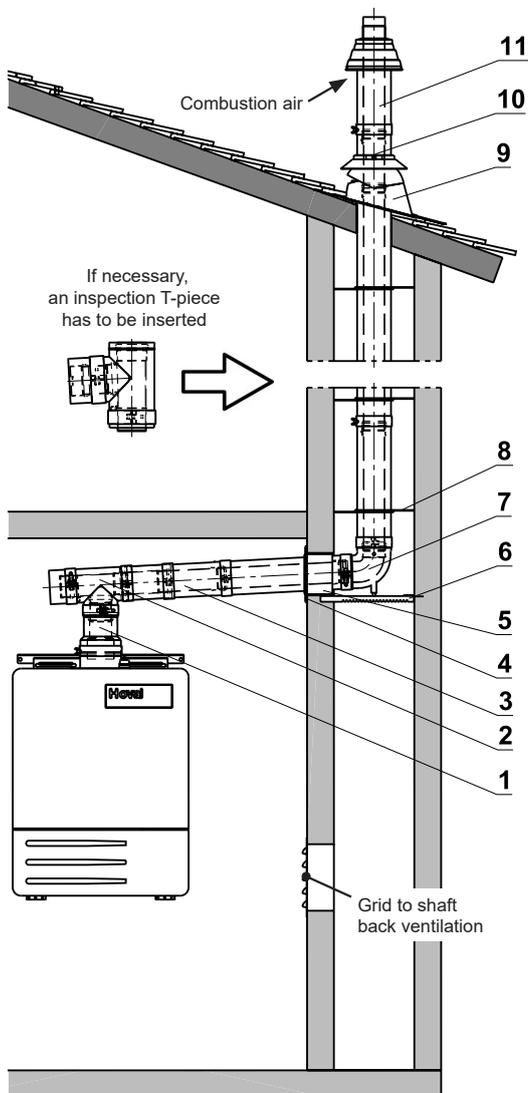
must be ordered separately, see individual parts

Room air independent operation

Approval

VKF-No. Z 14603

CE 0432BPR220556



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 | 618 756 |
| 10 | Rain keep-off rail black coated,
(RAL 9005) | 2018 554 |
| 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".

Approval sticker incl. working drawings
must be ordered separately,
see individual parts

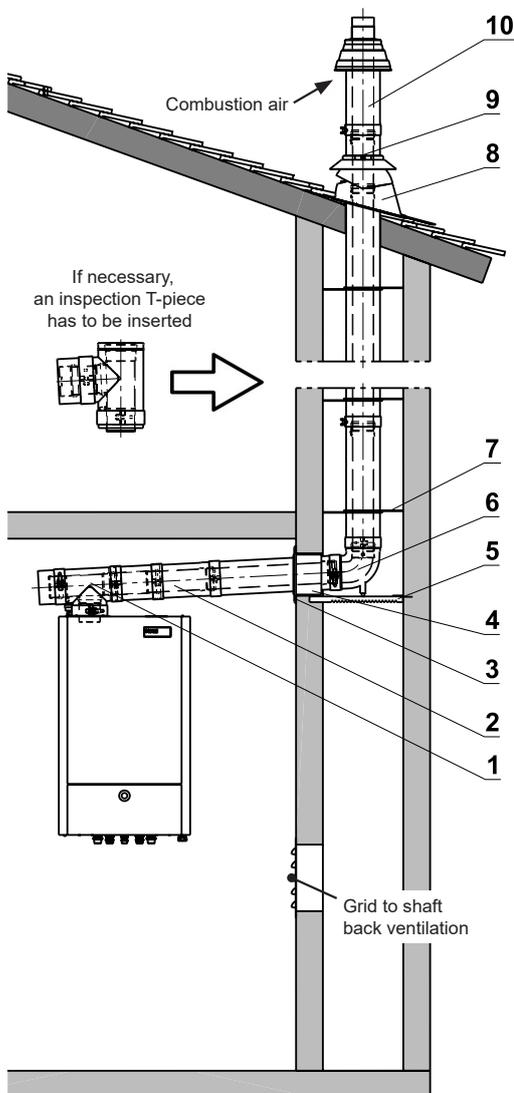
Hoval supply air / flue gas system in shaft

to TopGas® comfort, combi, classic (12-30)
C80/125 PP, Ø 80/125 mm PP, roof duct red

Part numbers

Room air independent operation

Approval
VKF-No Z 14603
CE 0432BPR220556



Example TG KD-LAS1
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 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.

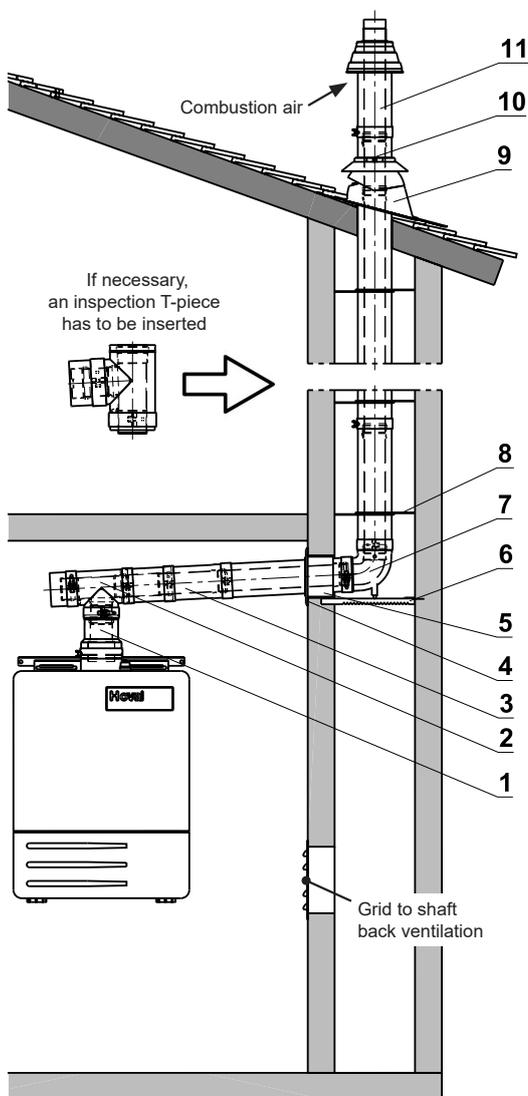
The Hoval engineering and installation regulations have to be met strictly!

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

Approval sticker incl. working drawings must be ordered separately, see individual parts

Room air independent operation

Approval
VKF-No Z 14603
CE 0432BPR220556



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

	Part No.
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".

Approval sticker incl. working drawings must be ordered separately, see individual parts

Hoval supply air / flue gas system, roof heating centre

to TopGas® comfort, combi, classic TopGas® (12-30)

C80/125 PP, Ø 80/125 mm PP, roof duct black

Part numbers

Room air independent operation

Approval

VKF-No. Z 14603/ 14606

CE 0432BPR220556

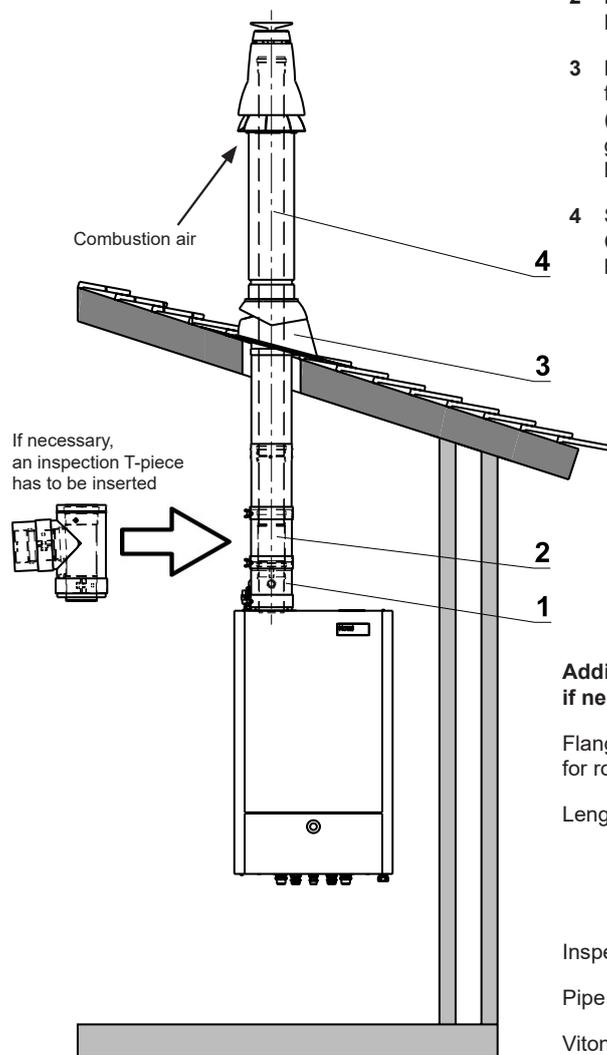
Assembly kit TG DHZ1

C80/125 PP black to

TopGas® comfort, combi, classic (12-30)

consisting of parts:

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



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 incl. working drawings

must be ordered separately, see individual parts

Part No.

6007 993

2010 160

2010 159

618 756

618 755

Room air independent operation

Approval

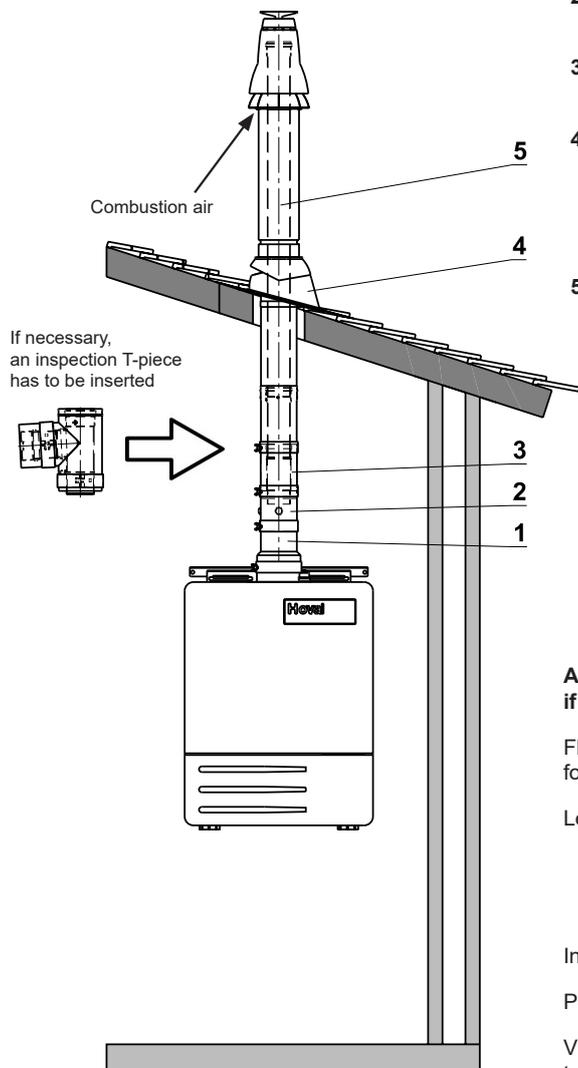
VKF-No. Z 14603/ 14606

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
white coated | 2025 334 |
| 2 | Length element C80/125 PP
with measure opening L = 115 mm | 2010 160 |
| 3 | Length adjustment piece C80/125
L = 315 - 440 mm | 2010 159 |
| 4 | Lead pan with bowl C80/125
for roof execution
(gradient 25 - 55° adjustable),
ground plate 500 x 500 mm,
black coated | 618 756 |
| 5 | 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 |

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 incl. working drawings
must be ordered separately,
see individual parts

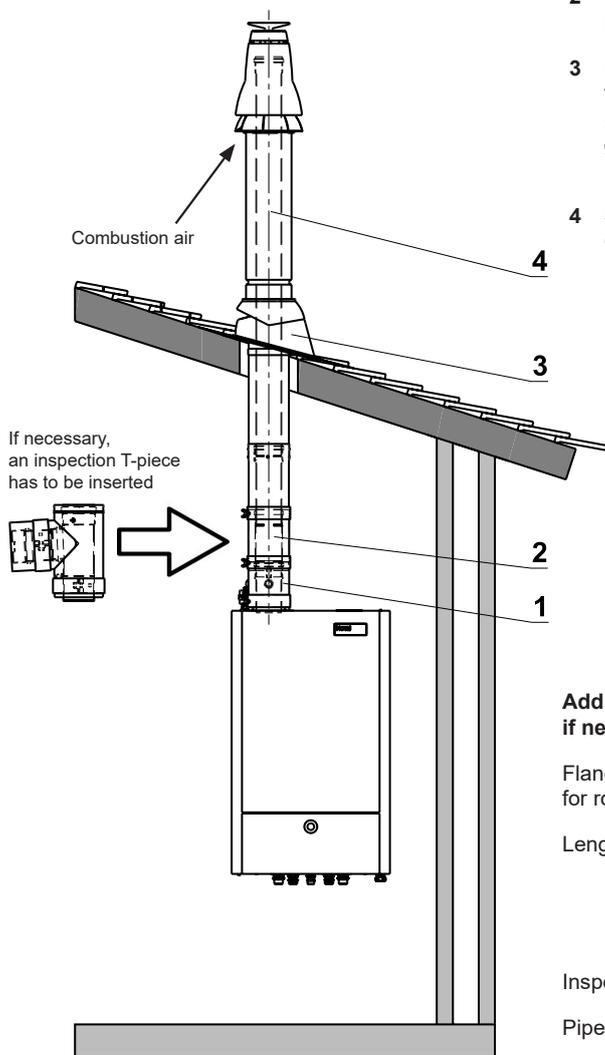
Part No.

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:

- | | | |
|---|---|----------|
| 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 incl. working drawings
must be ordered separately,
see individual parts

Part No.

6007 995

2010 160

2010 159

2001 421

2001 420

2001 422

2010 154

2010 155

2010 156

2010 157

2010 164

618 736

2018 530

618 758

Room air independent operation

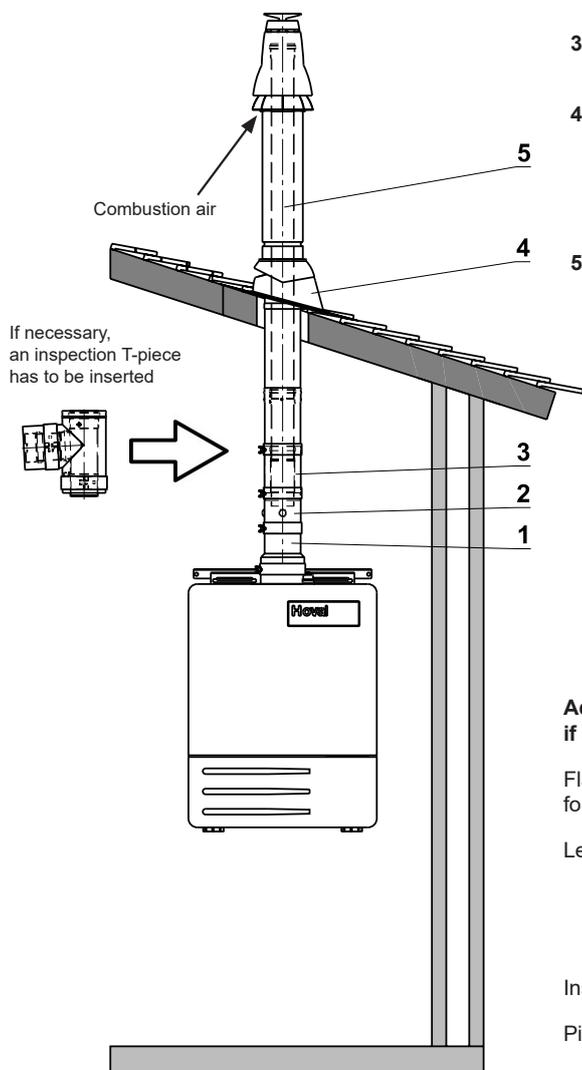
Approval

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 white coated | 2025 334 |
| 2 | Length element C80/125 PP with measure opening L = 115 mm | 2010 160 |
| 3 | Length adjustment piece C80/125 L = 315 - 440 mm | 2010 159 |
| 4 | Lead pan with bowl C80/125 for roof execution (gradient 25 - 55° adjustable), ground plate 500 x 500 mm, brick-red coated | 2001 421 |
| 5 | 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.

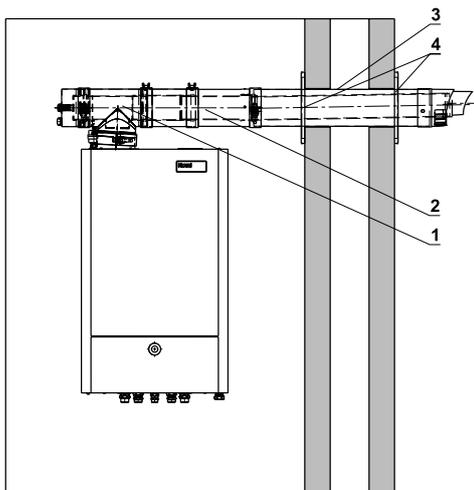
The Hoval engineering and installation regulations have to be met strictly!

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

Approval sticker incl. working drawings must be ordered separately, see individual parts

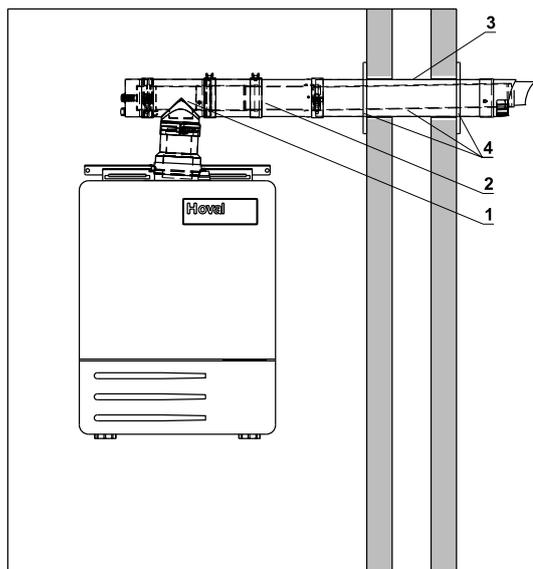
Part No.

Room air independent operation



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

Part No.	Description
6007 997	Assembly kit TG MD1 C80/125 PP to TopGas® comfort, combi, classic (12-30) consisting of parts:
2010 165	1 Inspection T-piece with measure opening C80/125 PP
2010 159	2 Length adjustment piece C80/125 L = 315 - 440 mm
2001 419	3 Wall socket to wall duct D = 150 mm, L = 300 mm
618 752	4 Supply air/Flue gas-roof execution C80/125 L = 600 mm incl. wall plate 220 x 220 mm



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

Part No.	Description
2025 334	1 Concentric reducing part C100/150 -> C80/125 PP white coated
2010 165	2 Inspection T-piece with measure opening C80/125 PP
2010 159	3 Length adjustment piece C80/125 L = 315 - 440 mm
2001 419	4 Wall socket to wall duct D = 150 mm, L = 300 mm
618 752	5 Supply air/Flue gas-roof execution C80/125 L = 600 mm incl. wall plate 220 x 220 mm

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 incl. working drawings must be ordered separately, see individual parts

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.

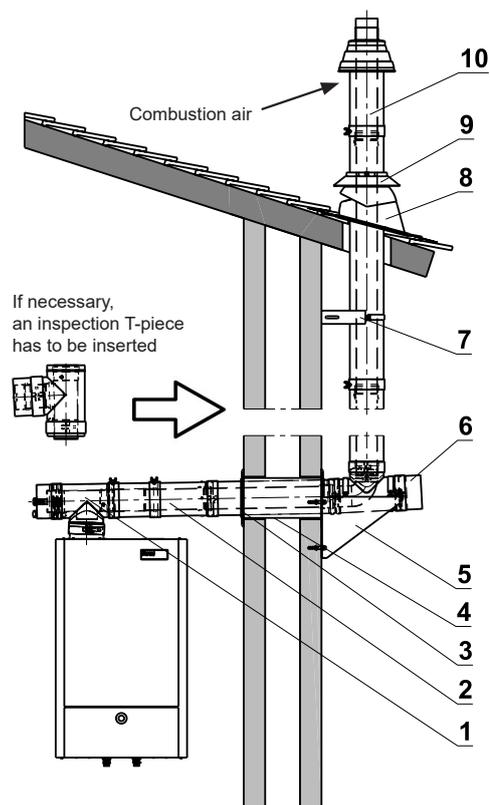
Hoval supply air / flue gas system, on outside wall

to TopGas® comfort, combi, classic (12-30)
C80/125 PP, Ø 80/125 mm PP, roof duct black

Part numbers

Room air independent operation

Approval
VKF-No. Z 14603
CE 0432BPR220556



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.

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.

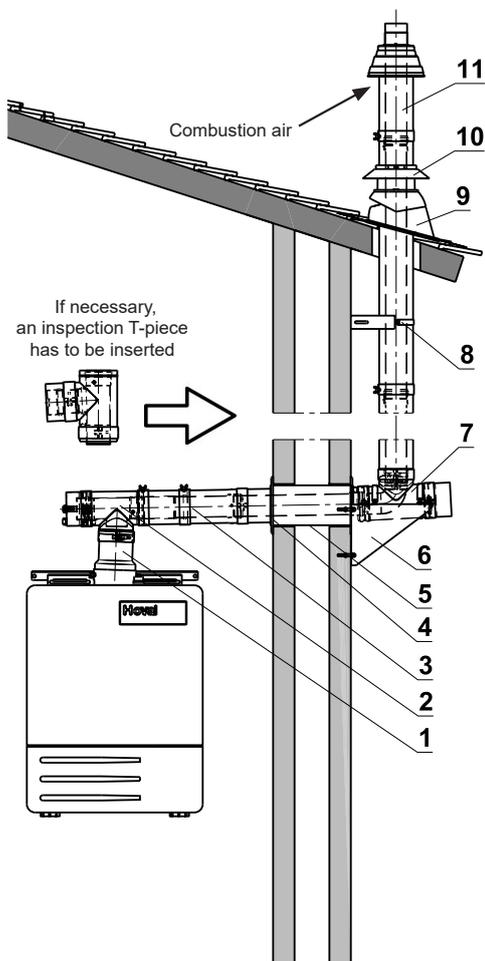
Approval sticker incl. working drawings must be ordered separately, see individual parts

Room air independent operation

Approval

VKF-No. Z 14603

CE 0432BPR220556



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

	Part No.
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.

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 incl. working drawings must be ordered separately, see individual parts

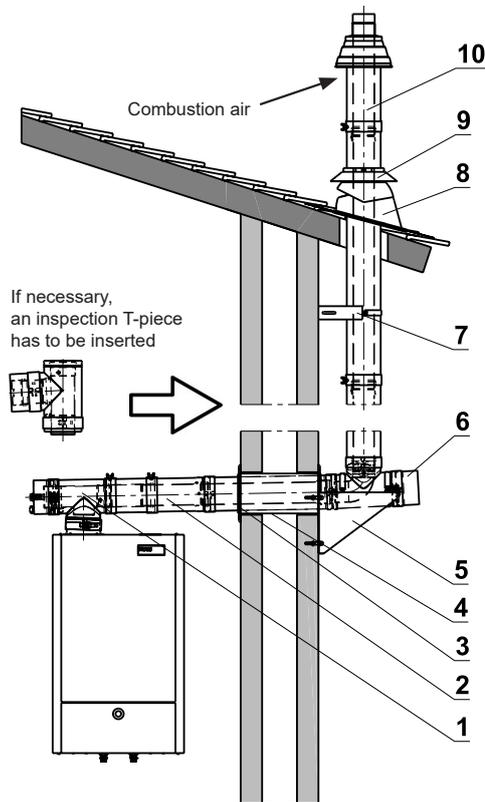
Hoval supply air / flue gas system on outside wall

to TopGas® comfort, combi, classic (12-30)
C80/125 PP, Ø 80/125 mm PP, roof duct red

Part numbers

Room air independent operation

Approval
VKF-No. Z 14603
CE 0432BPR220556



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.

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 incl. working drawings must be ordered separately, see individual parts

Part No.

Hoval supply air / flue gas system on outside wall

to TopGas® classic (35)

C80/125 PP, Ø 80/125 mm PP, roof duct red

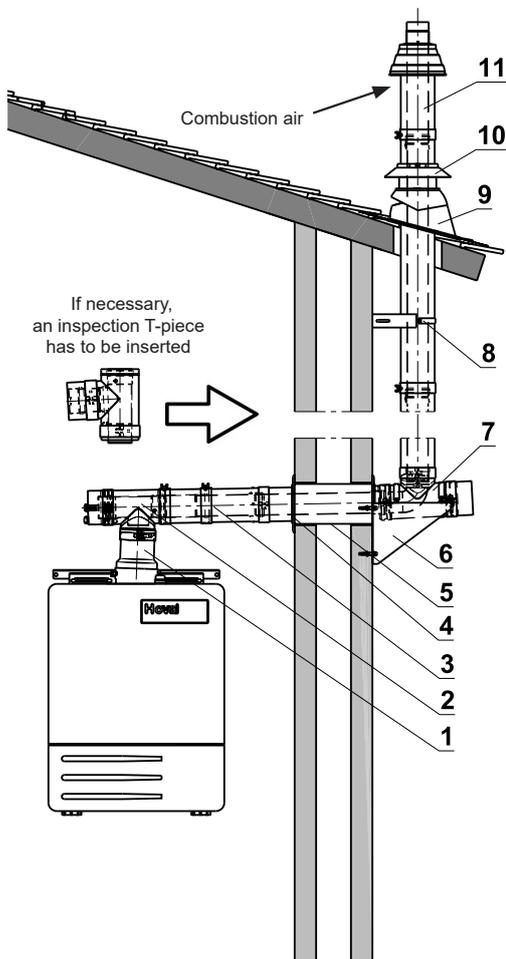
Part numbers

Room air independent operation

Approval

VKF-No. Z 14603

CE 0432BPR220556



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.

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

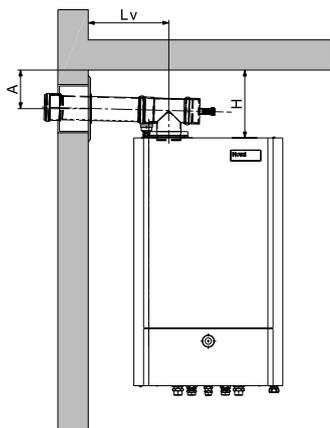
The Hoval engineering and installation regulations have to be met strictly!

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 incl. working drawings must be ordered separately, see individual parts

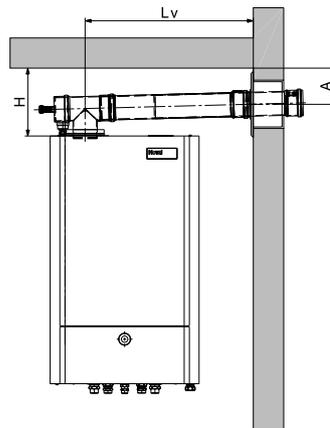
Assembly kit TG K1 E80 PP
Assembly kit TG K1 E80 Flex PP



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

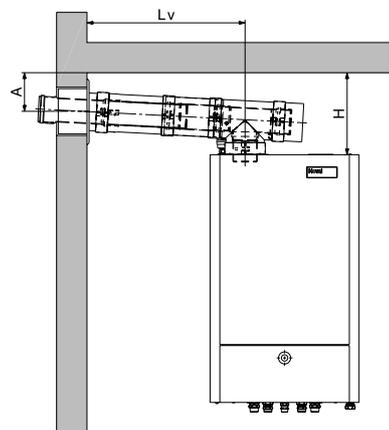
Assembly kit TG K1 E80 PP
Assembly kit TG K1 E80 Flex PP



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

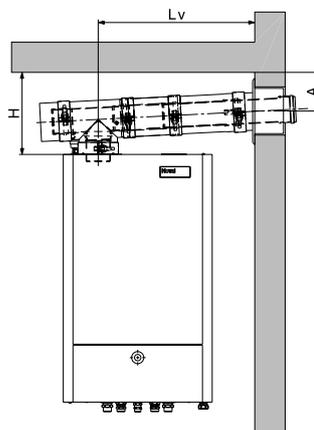
Assembly kit TG K1 C80/125 PP
Assembly kit TG K1 C80/125 Flex PP



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

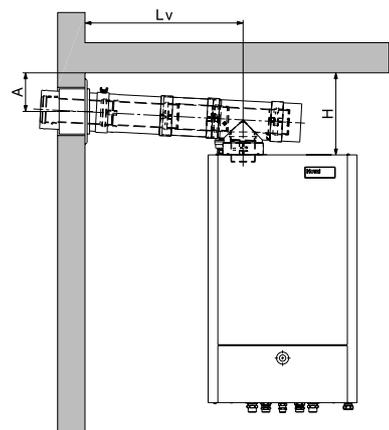
Assembly kit TG K1 C80/125 PP
Assembly kit TG K1 C80/125 Flex PP



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

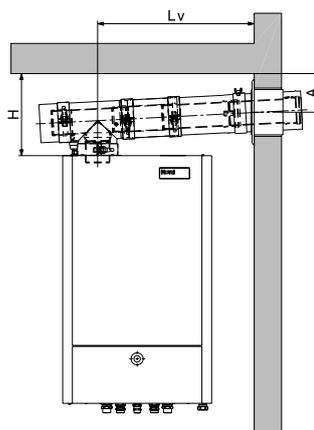
Assembly kit TG K-LAS1 C80/125 PP
Assembly kit TG KD-LAS1 C80/125 PP black/red



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



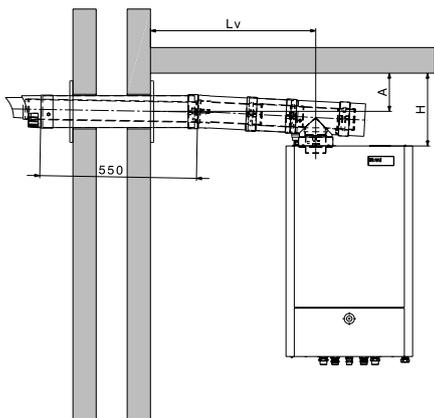
Minimum dimensions:
A = 115 mm
Lv = 500 mm

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"

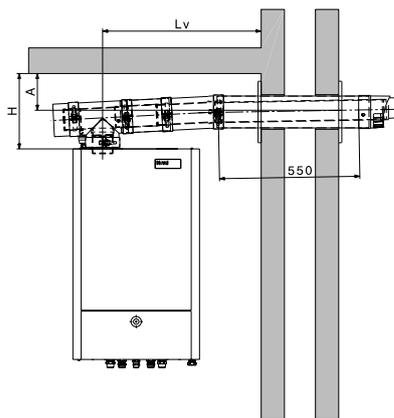
Assembly kit TG MD C80/125 PP



Minimum dimensions:
A = 115 mm
Lv = 385 mm

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

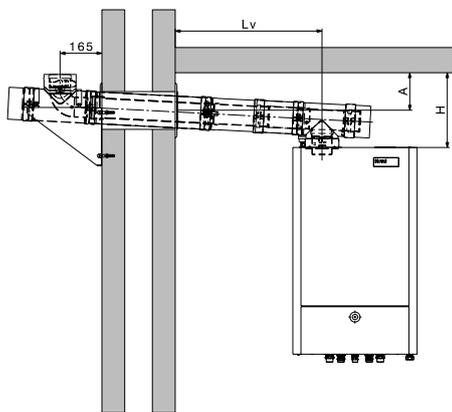
Assembly kit TG MD C80/125 PP



Minimum dimensions:
A = 115 mm
Lv = 500 mm

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

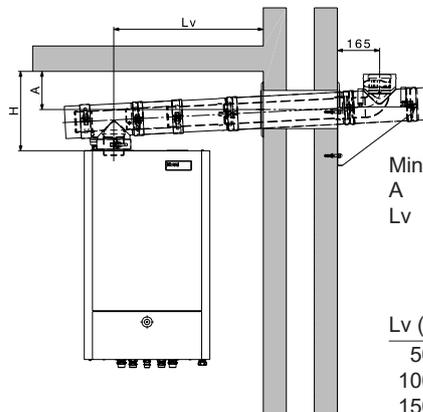
Assembly kit TG AW1 C80/125 PP black
Assembly kit TG AW1 C80/125 PP red



Minimum dimensions:
A = 115 mm
Lv = 385 mm

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

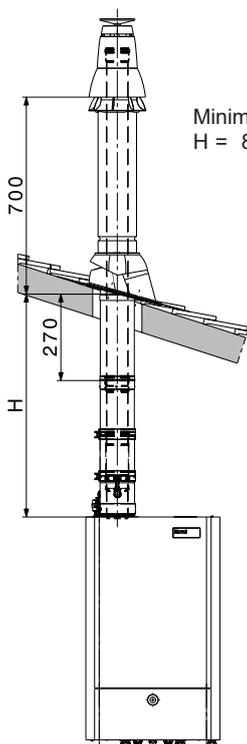
Assembly kit TG AW1 C80/125 PP black
Assembly kit TG AW1 C80/125 PP red



Minimum dimensions:
A = 115 mm
Lv = 500 mm

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

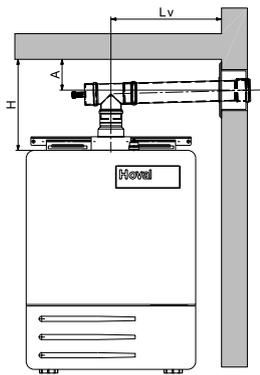
Assembly kit TG DHZ1 C80/125 PP black
Assembly kit TG DHZ1 C80/125 PP red



Minimum dimensions:
H = 860-980 mm

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

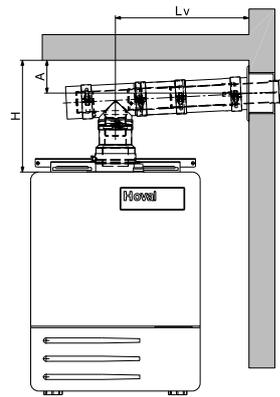
Assembly kit TG K1 E80 PP
Assembly kit TG K1 E80 Flex PP



Minimum dimensions:
A = 115 mm
Lv = 390 mm

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

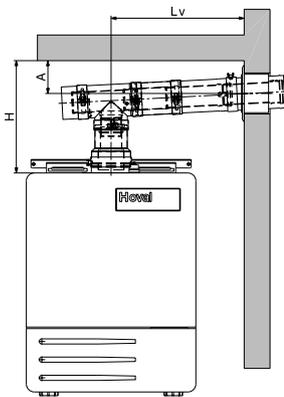
Assembly kit TG K1 C80/125 PP
Assembly kit TG K1 C80/125 Flex PP



Minimum dimensions:
A = 115 mm
Lv = 400 mm

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

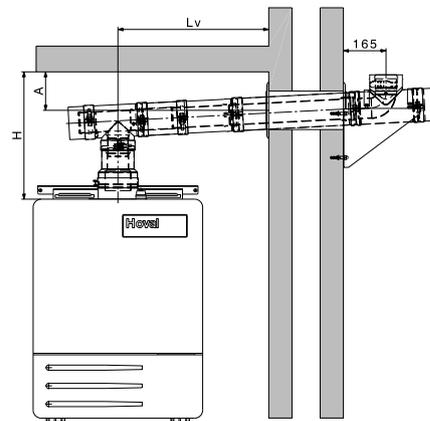
Assembly kit TG K-LAS1 C80/125 PP
Assembly kit TG KD-LAS1 C80/125 PP black/red



Minimum dimensions:
A = 115 mm
Lv = 400 mm

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

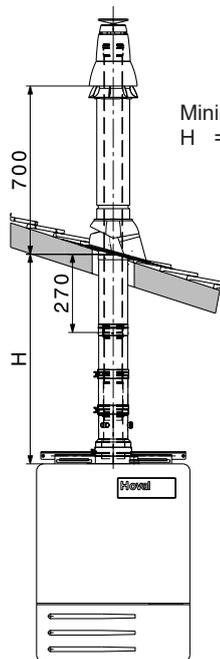
Assembly kit TG AW1 C80/125 PP grey
Assembly kit TG AW1 C80/125 PP red



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.

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 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.

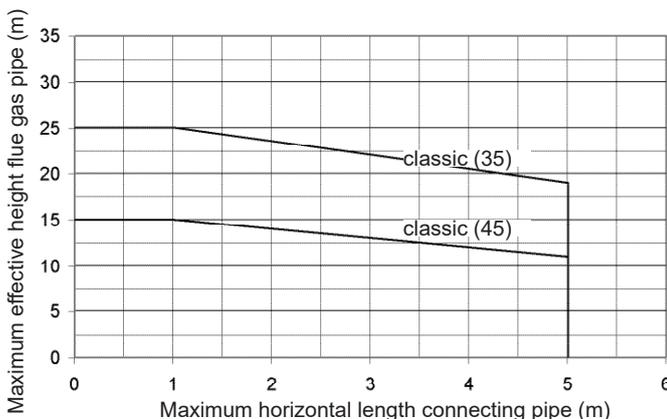
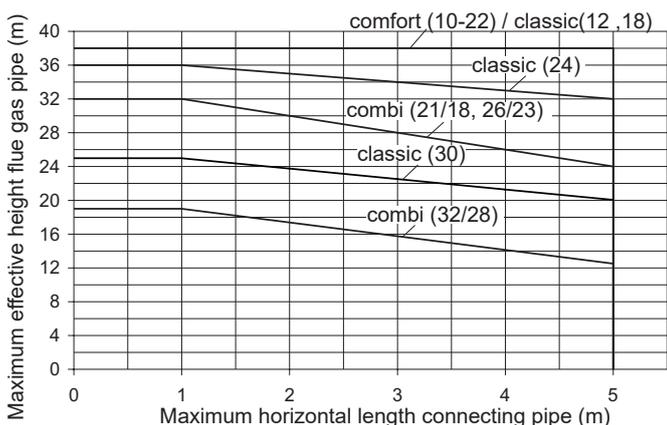
With simple chimney connections a grille must be installed for the purpose of back ventilation in the shaft.

Sizing basis

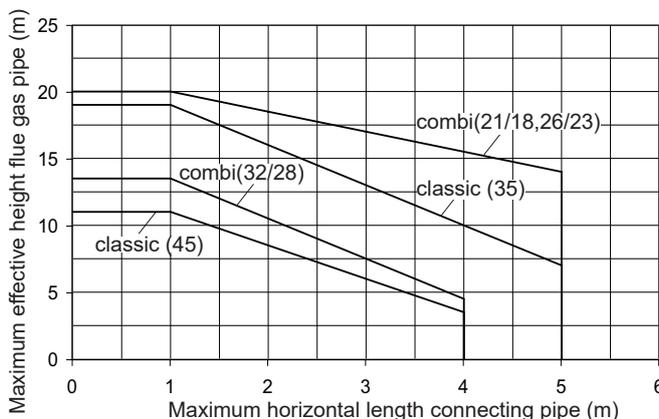
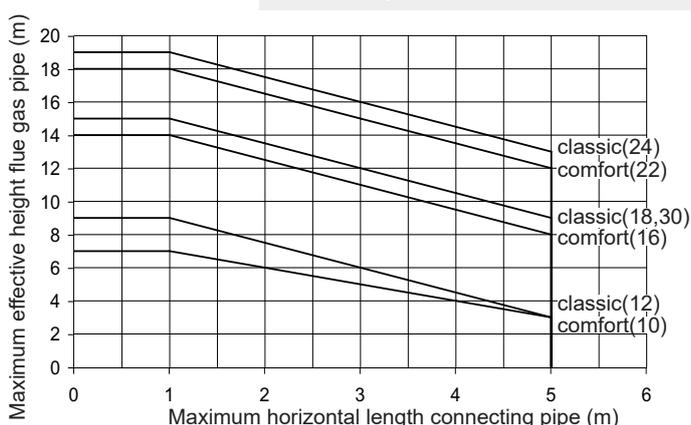
The following diagrams were computed assuming a geographic altitude of 1000 m above sea level.

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

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

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.

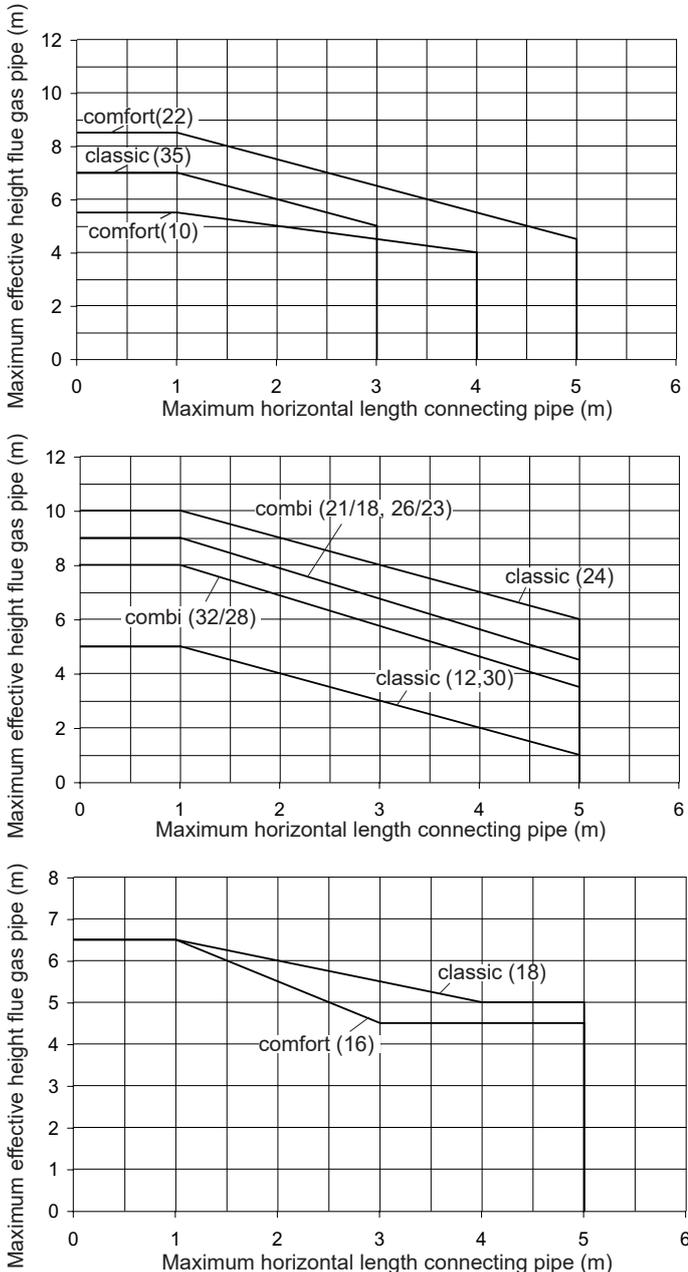
Maximum flue gas pipe length

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

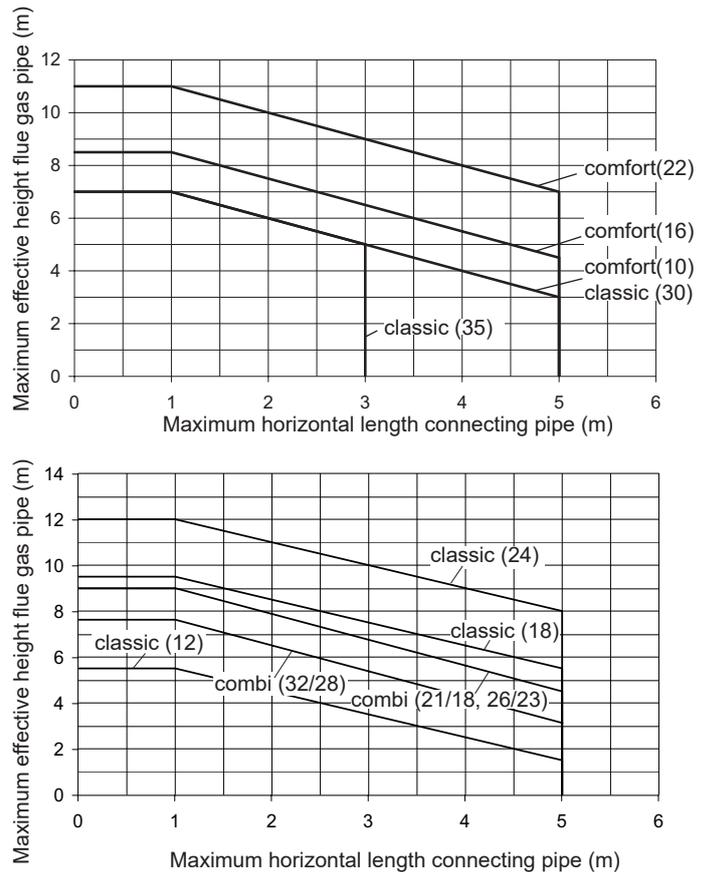
Assembly kit

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

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.

Hoval flue gas system in shaft

to Hoval TopGas® classic (35-80)

E100 PP, Ø 100 mm Plastic PP

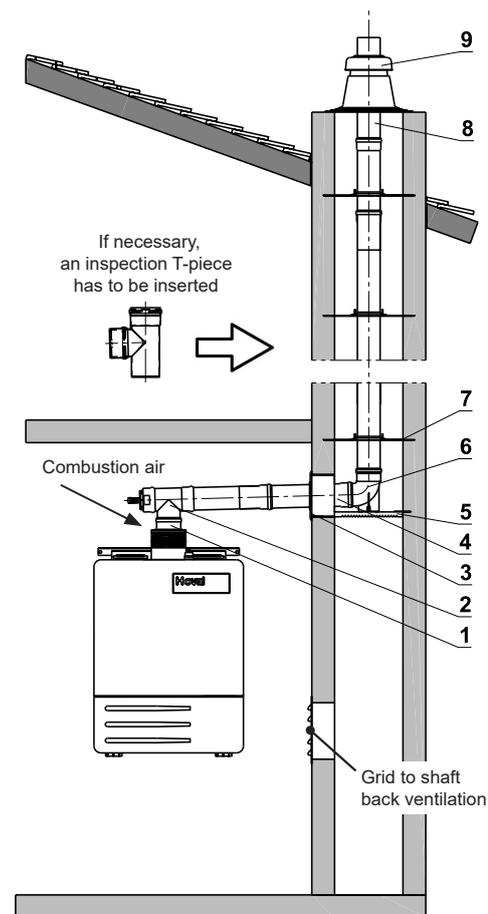
Part numbers

Room air dependent operation

Approval

VKF-No. Z 14604

CE 0432BPR220556



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.

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

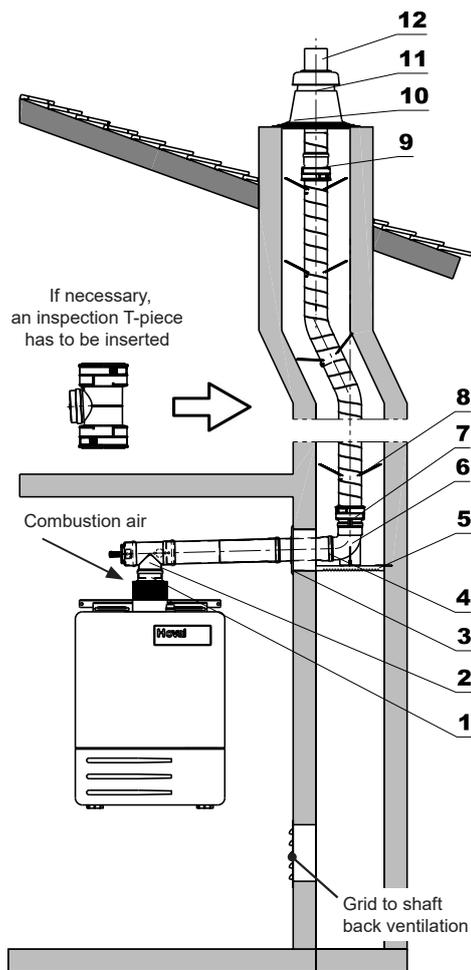
The Hoval engineering and installation
regulations have to be met strictly!

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

Approval sticker incl. working drawings
must be ordered separately,
see individual parts

Room air dependent operation

Approval
VKF-No. Z 14604
CE 0432BPR220556



Example TG K2 E100 Flex PP-A 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	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".

Approval sticker incl. working drawings must be ordered separately, see individual parts

Hoval supply air / flue gas system in shaft

to Hoval TopGas® classic (35-80)

C100/150 PP, Ø 100/150 mm Plastic PP

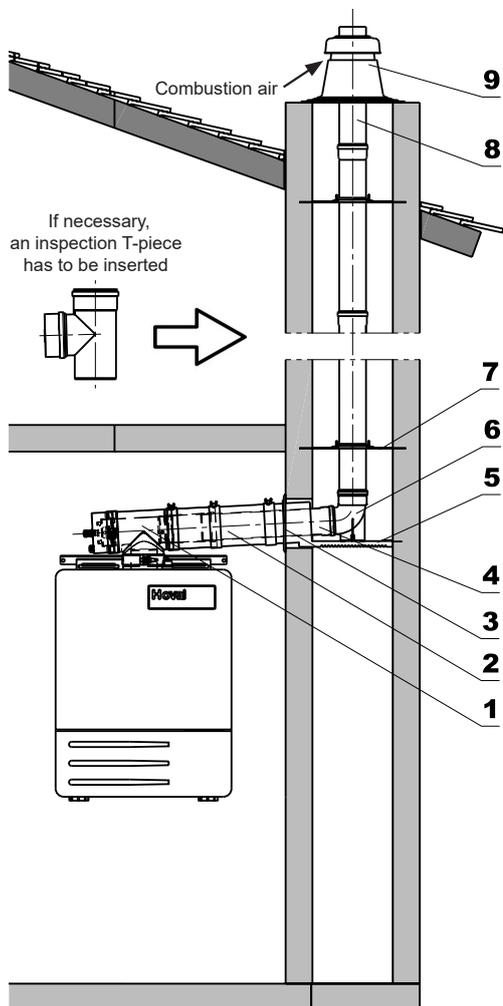
Part numbers

Room air independent operation

Approval

VKF-No. Z 14603 / 14604

CE 0432BPR220556



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

	Part No.
1 Inspection T-piece with measure opening C100/150 PP	6008 124
2 Length adjustment piece C100/150 L = 315 - 440 mm	2015 257
3 Duct C100/150 Wall plate with splice 220 x 220 mm and casing tube Ø 180 mm, L = 300 mm	2015 251
4 Length element E100, L = 450 mm PP	2001 434
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 set	2001 493
8 End tube E100 L = 500 mm to top 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 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 integreted 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.

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!

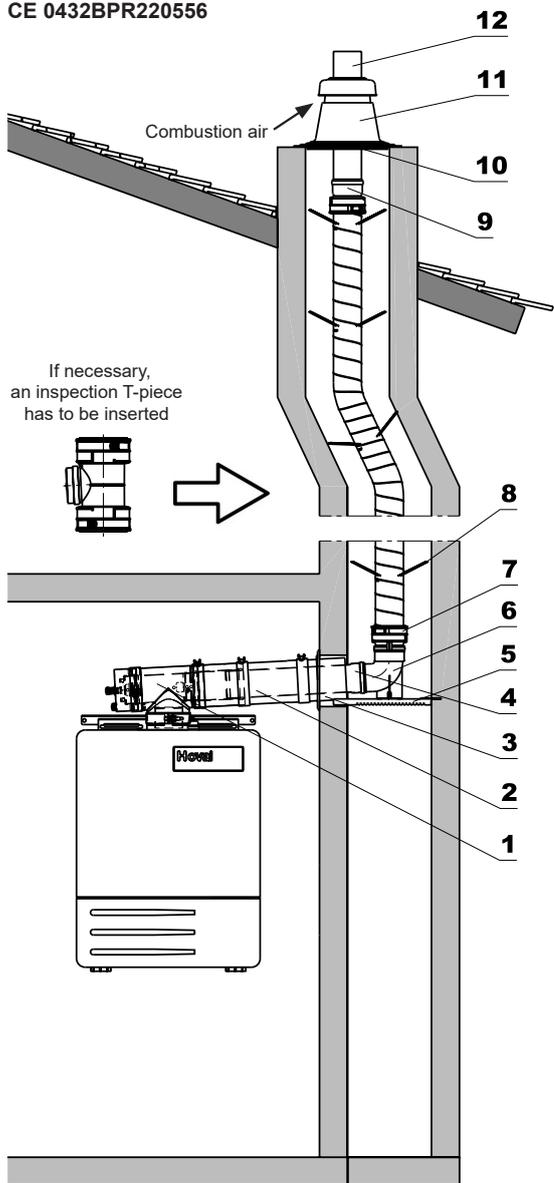
The connection situation and the dimensions are shown on chapter "Dimensions".

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 incl. working drawings must be ordered separately, see individual parts

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 incl. working drawings must be ordered separately, see individual parts

Hoval supply air / flue gas system, roof heating centre

to Hoval TopGas® classic (35-80)

C100/150 PP, Ø 100/150 mm PP, roof duct black

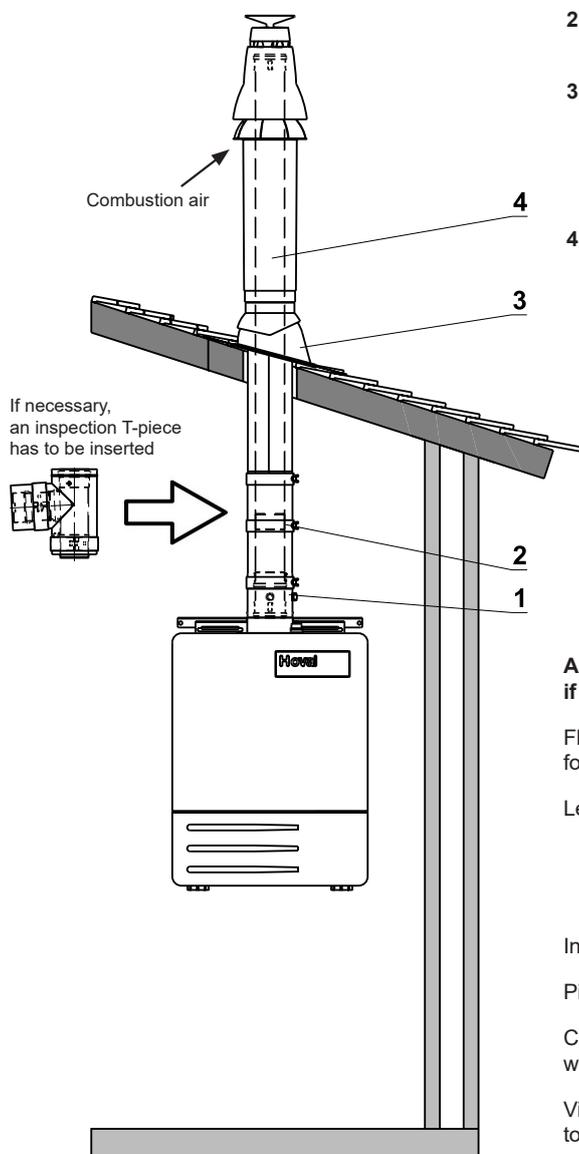
Part numbers

Room air independent operation

Approval

VKF-No. Z 14603 / 14606

CE 0432BPR220556



Example TG DH22 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 incl. working drawings must be ordered separately, see individual parts

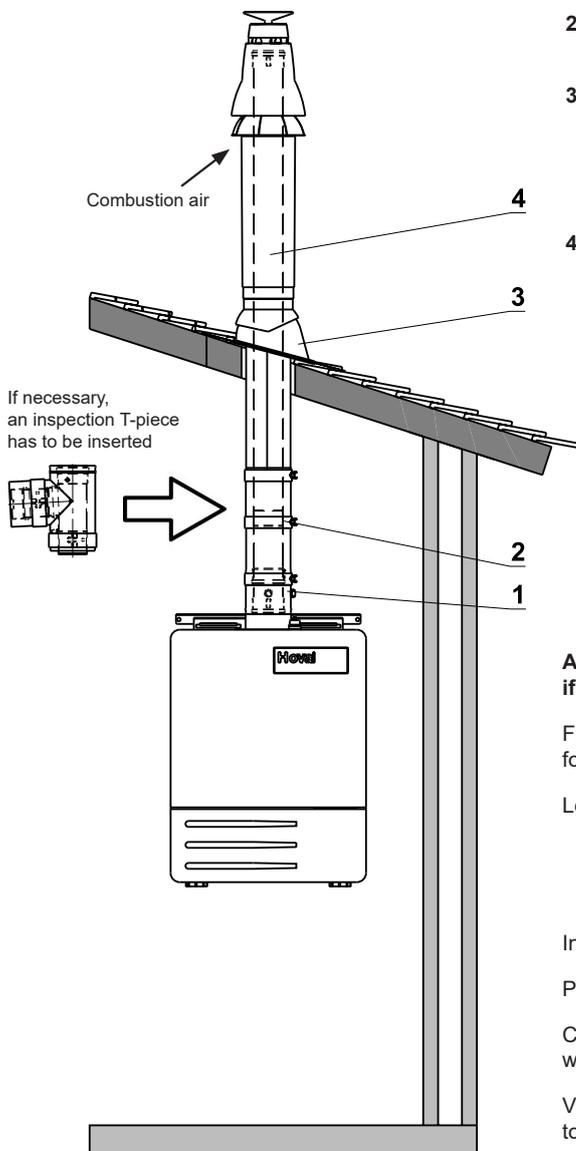
Part No.

Room air independent operation

Approval

VKF-No. Z 14603 / 14606

CE 0432BPR220556



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.

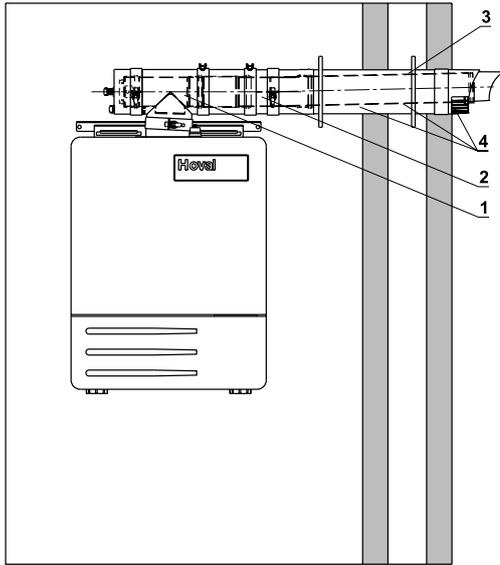
This flue gas lead is a construction example. The precise requirements conform with the local conditions and regulations.

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

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

Approval sticker incl. working drawings must be ordered separately, see individual parts

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 incl. working drawings must be ordered separately, see individual parts

Part No.

Hoval supply air / flue gas system on outside wall

to Hoval TopGas® classic (35-80)

C100/150 PP, Ø 100/150 mm PP, roof duct black

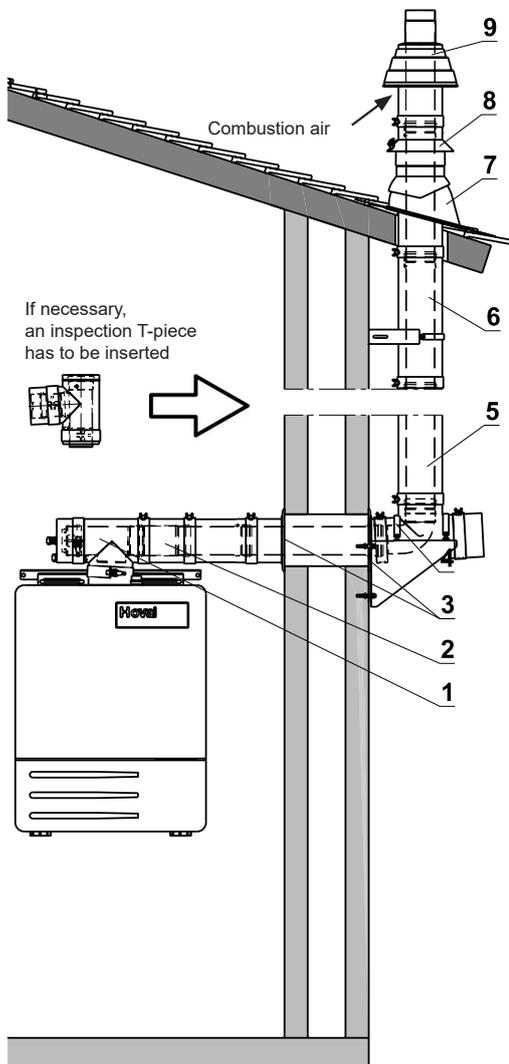
Part numbers

Room air independent operation

Approval

VKF-No. Z 14603

CE 0432BPR220556



Example TG AW2 C100/150 PP black 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 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.

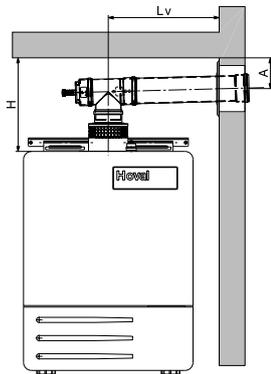
The Hoval engineering and installation regulations have to be met strictly!

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 incl. working drawings must be ordered separately, see individual parts

Assembly kit
TG K2 E100 PP
TG K2 E100 Flex PP

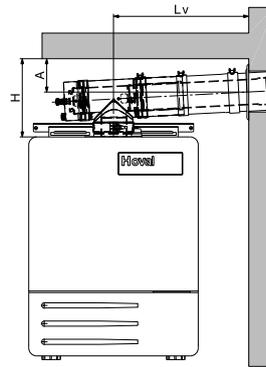


Minimum dimensions:

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



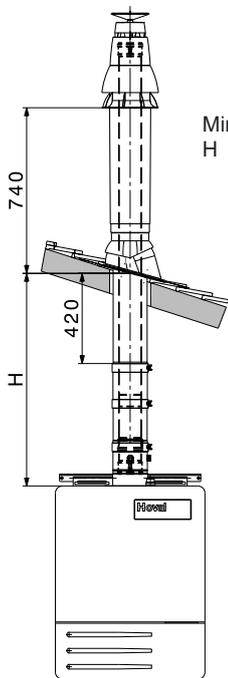
Minimum dimensions:

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

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

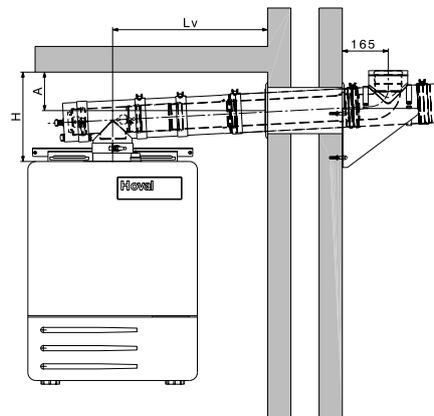
All dimensions apply to both left hand and right hand connection.

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

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.

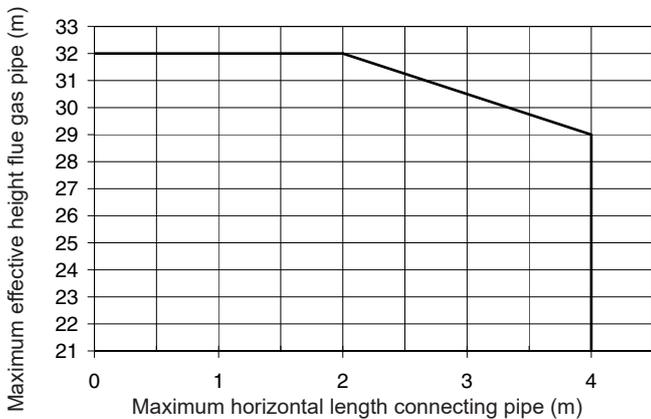
Note:

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

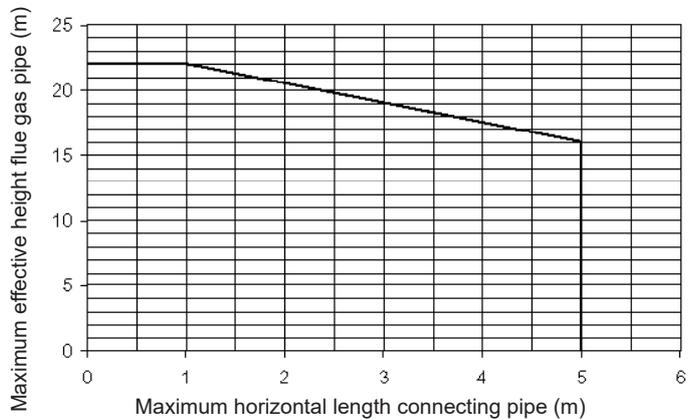
Assembly kit TG K2 E100 Flex PP-A



TopGas® classic (35,45)

Assembly kit TG K2 C100/150 PP-A

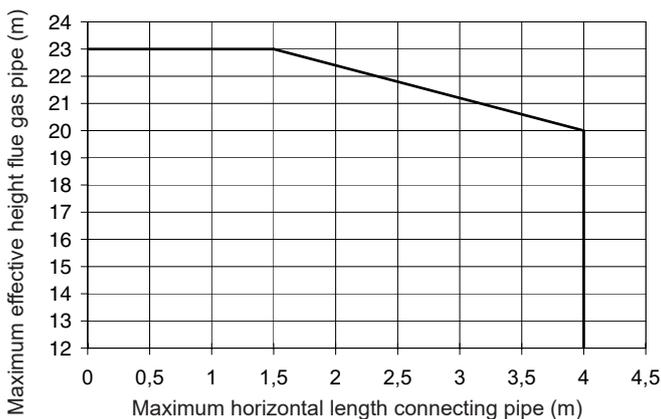
Assembly kit TG K2 C100/150 Flex PP-A



TopGas® classic (60,80)

Assembly kit TG K2 E100 PP-A

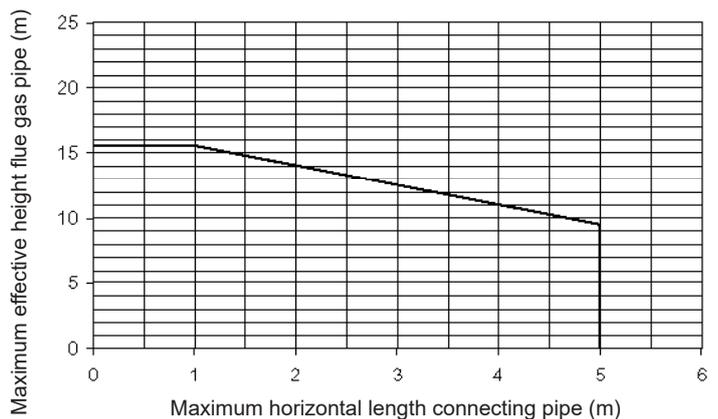
Assembly kit TG K2 E100 Flex PP-A



TopGas® classic (60,80)

Assembly kit TG K2 C100/150 PP-A

Assembly kit TG K2 C100/150 Flex PP-A



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

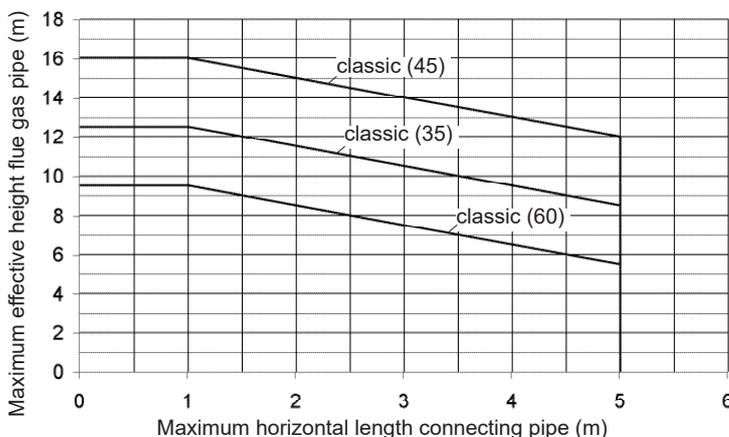
Maximum flue gas pipe length, Outside wall systems Assembly TG AW2 C100/150 PP black

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.

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

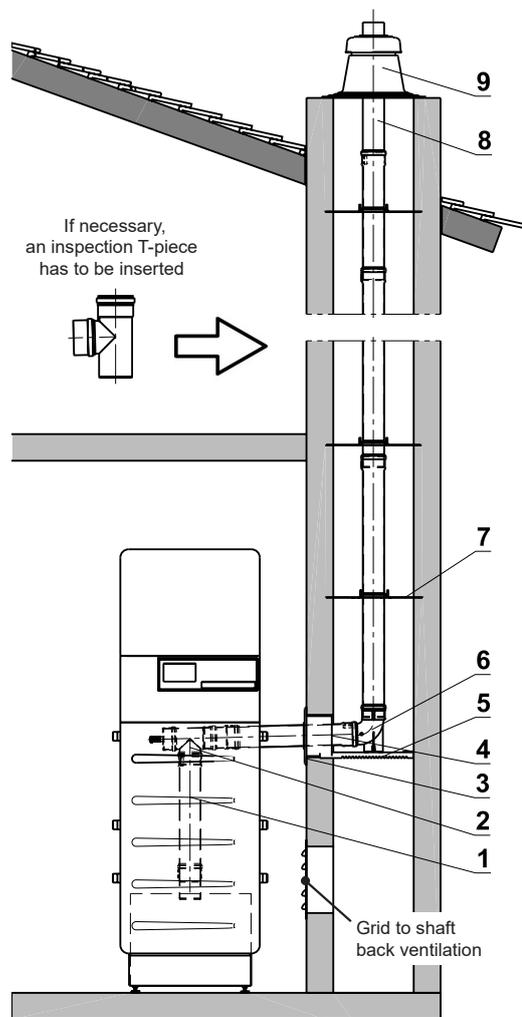
to Hoval UltraGas® (15-50)
E80 PP, Ø 80 mm plastic PP

Part numbers

Room air dependent operation

Approval

VKF-No. Z 14604
CE 0432BPR220556



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

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	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 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 - 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 D = 80 mm to flue gas tube PP	2018 530
Grid, aluminium to shaft back ventilation	619 304

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 incl. working drawings must be ordered separately, see individual parts

Hoval flue gas system in shaft

to Hoval UltraGas® (15-50)

E80 Flex PP, Ø 80 mm plastic PP/Flex

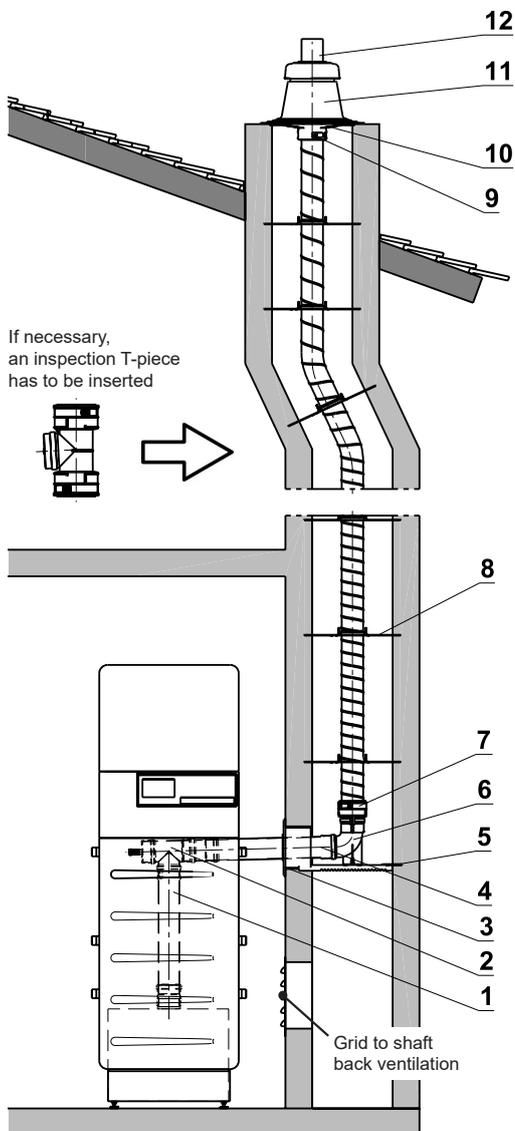
Part numbers

Room air independent operation

Approval

VKF-No. Z 14604

CE 0432BPR220556



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

- | | | |
|----|--|----------|
| 1 | Length element E80 L = 200 mm PP | 6007 285 |
| 2 | T-piece with measure opening E80 - 90° PP | 2001 446 |
| 3 | Duct E80
Wall plate 220 x 220 mm
with seal ring and casing tube
D = 150 mm, L = 300 mm | 2001 457 |
| 4 | Length element E80 L = 450 mm PP | 2001 466 |
| 5 | Bearing rail E
Flue gas tube support in shaft | 2001 447 |
| 6 | Support arch E80 - 90° PP | 619 303 |
| 7 | Connection piece below E80 Flex-PP | 2001 455 |
| 8 | Distant holder E80 Flex-PP, 3 pieces | 2008 126 |
| 9 | Mouth-connection piece E80 Flex-PP | 2008 138 |
| 10 | Assembly cross E80 Flex-PP, high grade steel | 2008 124 |
| 11 | Top part 80 for chimney end for back ventilation with shaft cover 400 x 400 mm, clamp tape and seal ring | 2008 125 |
| 12 | End tube E80 L = 500 mm to top part 80; high grade steel | 2001 464 |

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 |

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 incl. working drawings must be ordered separately, see individual parts

Further components see section following the assembly kits.

Hoval supply air / flue gas system in shaft

to Hoval UltraGas® (15-50)

C80/125 PP, Ø 80/125 mm plastic PP

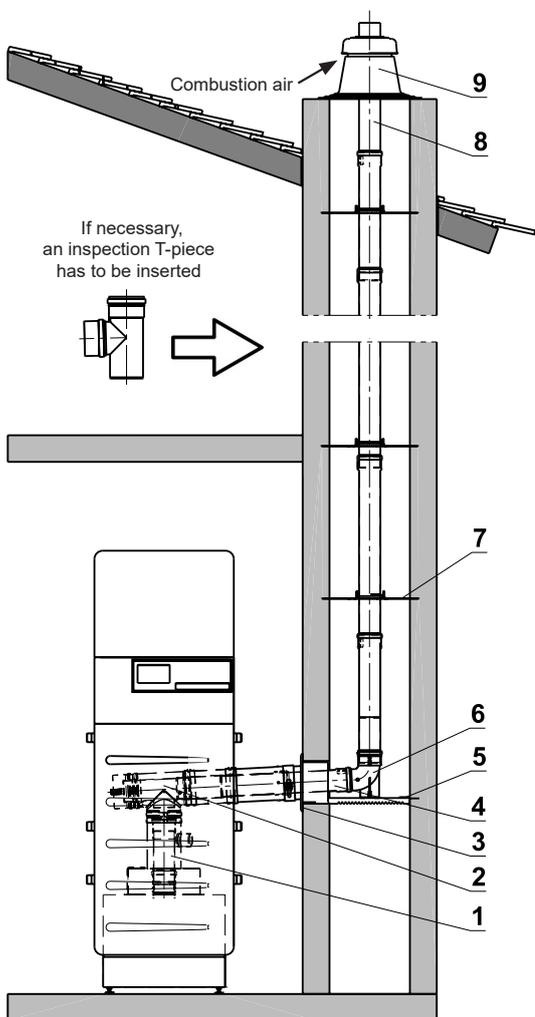
Part numbers

Room air independent operation

Approval

VKF-No. Z 14603 / 14604

CE 0432BPR220556



Assembly kit UG K3 C80/125 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 | 6025 139 |
| 2 | Inspection T-piece C80/125 PP with measure opening | 6027 510 |
| 3 | Duct C80/125 Wall plate with splice 220 x 220 mm Scabbard tube D = 150 mm, L = 300 mm | 2010 165 |
| 4 | Length element E80 L = 450 mm PP | 618 737 |
| 5 | Bearing rail E Flue gas tube support in shaft | 2001 447 |
| 6 | Support arch E80 - 90° PP | 619 303 |
| 7 | Set (2 pieces) distant holder E80 of polypropylene for tube centering in shaft; 3 sets | 2001 455 |
| 8 | End tube E80 L = 500 mm to top part 80; high grade steel | 2001 462 |
| 9 | Top part 80 for chimney end for back ventilation with shaft cover 400 x 400 mm, clamp tape and seal ring | 2001 465 |
| | | 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 |

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.

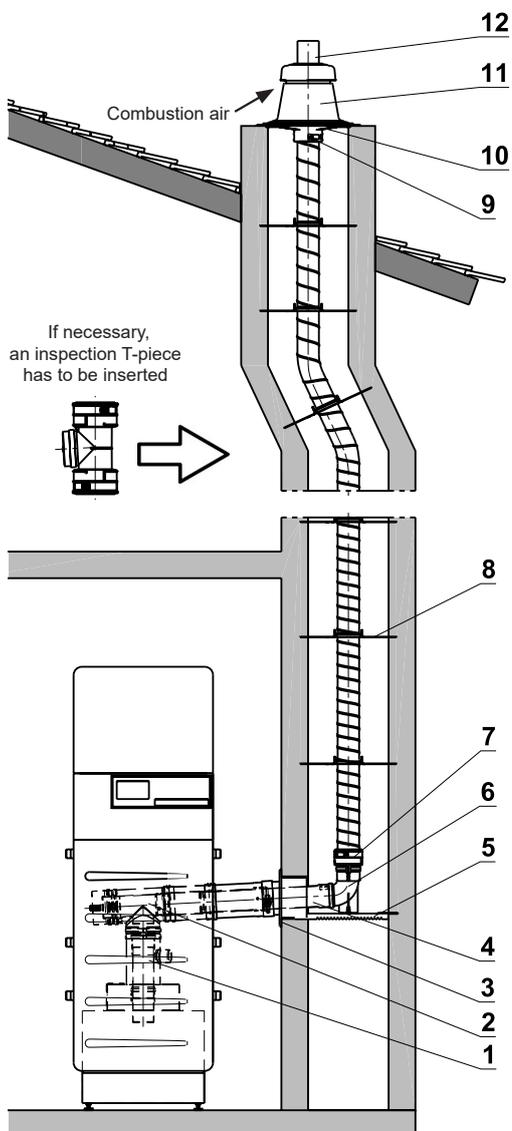
Approval sticker incl. working drawings must be ordered separately, see individual parts

Further components see end of this section.

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

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 incl. working drawings must be ordered separately, see individual parts

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 |

Further components see end of this section.

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

Part No.

Hoval supply air / flue gas system in shaft

to Hoval UltraGas® (15-35)

C80/125 PP, Ø 80/125 mm plastic PP

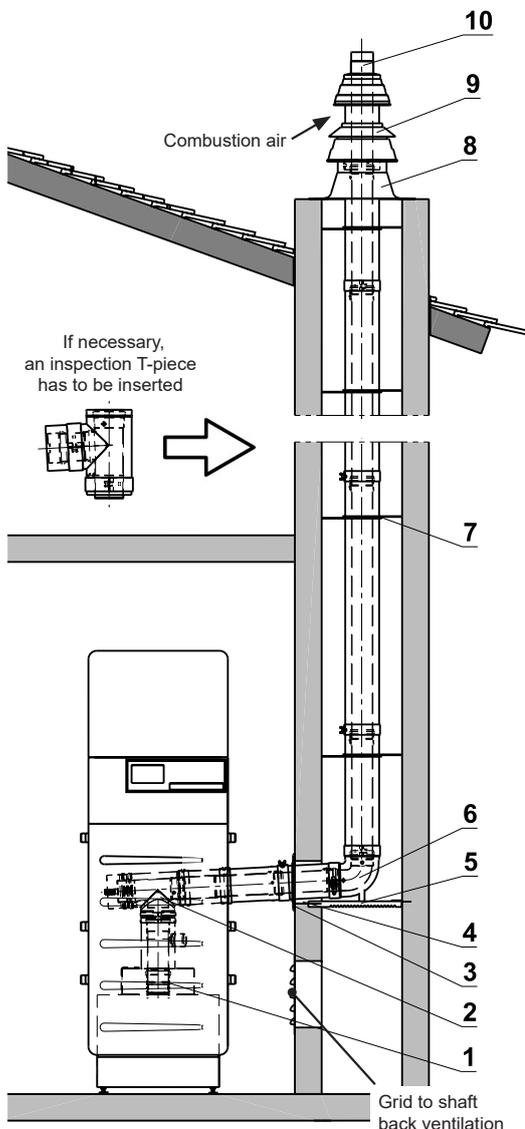
Part numbers

Room air independent operation

Approval

VKF-No. Z 14603

CE 0432BPR220556



Example UG K3-LAS C80/125 PP 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 E 130 of spring steel; a distant holder must be used at least every 2 metres | 2010 495 |
| 8 | Top part E 130 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 |

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 incl. working drawings must be ordered separately, see individual parts

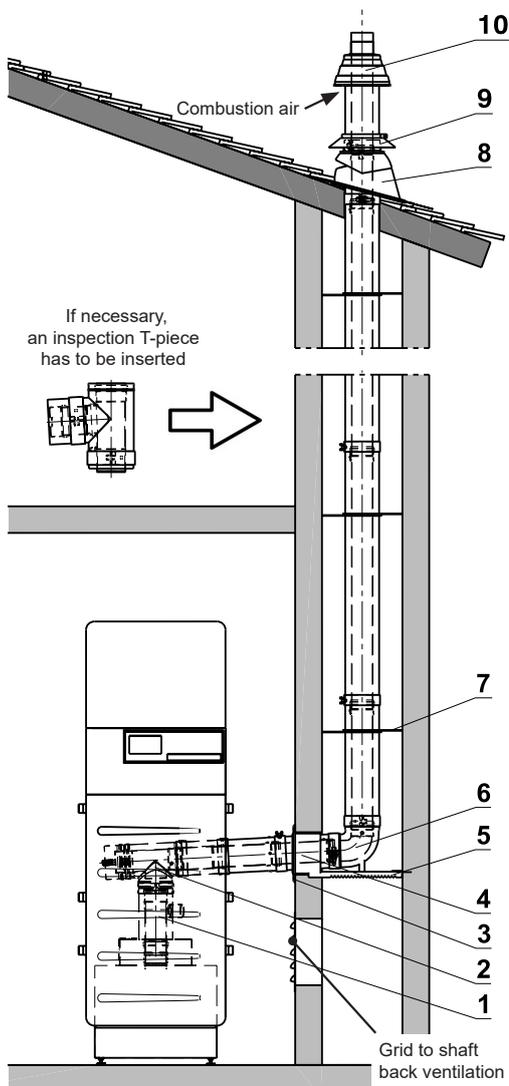
Further components see end of this section.

Room air independent operation

Approval

VKF-No. Z 14603

CE 0432BPR220556



Example UG KD3-LAS

C80/125 PP black,

to UltraGas® (15-35):

- | | | | | | | | | | | | |
|--|---|----------|----------|----------|----------|---------|----------|----------|---------|----------|----------|
| <ol style="list-style-type: none"> 1 Connection assembly kit LAS to UltraGas® (15-35) and Boiler connection piece E80 -> C80/125 PP, L = 200 mm 2 Inspection T-piece C80/125 PP with measure opening 3 Wall plate to wall duct C80/125; 220 x 220 mm 4 Wall socket D = 150 mm, L = 300 mm to wall duct 5 Bearing rail E Flue gas tube support in shaft 6 Support arch C80/125 - 90° PP 7 Set (2 pieces) distant holder E130 of spring steel; a distant holder must be used at least every 2 metres 8 Lead pan with bowl C80/125 for roof execution (gradient 25 - 55° adjustable), ground plate 500 x 500 mm, black coated 9 Rain keep-off rail black coated (RAL 9005) 10 LAS-mouth piece C80/125 PP Flue gas tube of high grade steel, white coated | <table border="0"> <tr><td>6027 510</td></tr> <tr><td>2010 165</td></tr> <tr><td>2029 322</td></tr> <tr><td>2001 419</td></tr> <tr><td>619 303</td></tr> <tr><td>2018 526</td></tr> <tr><td>2010 495</td></tr> <tr><td>618 756</td></tr> <tr><td>2018 554</td></tr> <tr><td>2018 528</td></tr> </table> | 6027 510 | 2010 165 | 2029 322 | 2001 419 | 619 303 | 2018 526 | 2010 495 | 618 756 | 2018 554 | 2018 528 |
| 6027 510 | | | | | | | | | | | |
| 2010 165 | | | | | | | | | | | |
| 2029 322 | | | | | | | | | | | |
| 2001 419 | | | | | | | | | | | |
| 619 303 | | | | | | | | | | | |
| 2018 526 | | | | | | | | | | | |
| 2010 495 | | | | | | | | | | | |
| 618 756 | | | | | | | | | | | |
| 2018 554 | | | | | | | | | | | |
| 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 incl. working drawings must be ordered separately, see individual parts

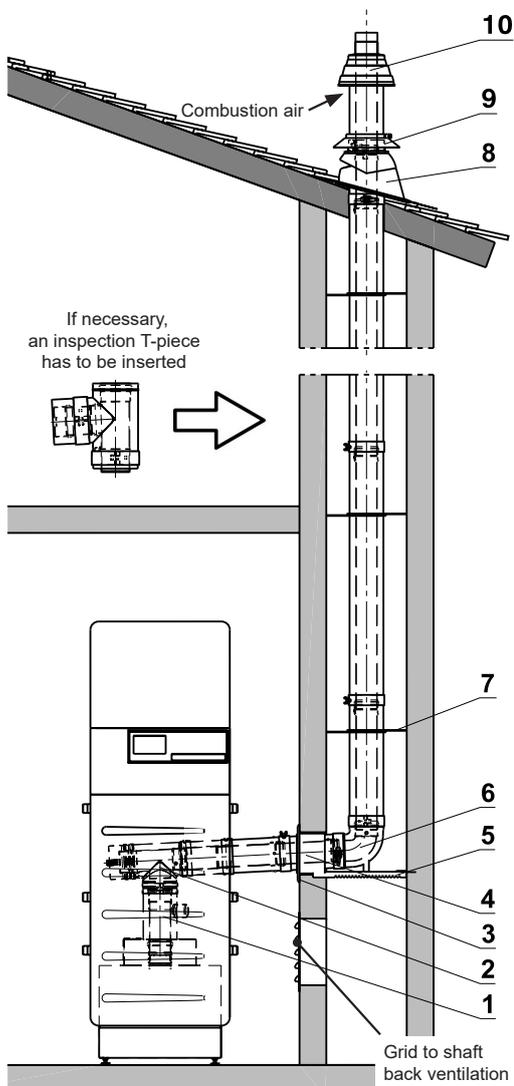
Part No.

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 incl. working drawings must be ordered separately, see individual parts

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

- | | | | | | | | | | | | |
|---|--|----------|----------|----------|----------|---------|----------|----------|----------|----------|----------|
| <ol style="list-style-type: none"> 1 Connection assembly kit LAS to UltraGas® (15-35) and Boiler connection piece E80 -> C80/125 PP, L = 200 mm 2 Inspection T-piece C80/125 PP with measure opening 3 Wall plate to wall duct C80/125; 220 x 220 mm 4 Wall socket D = 150 mm, L = 300 mm to wall duct 5 Bearing rail E Flue gas tube support in shaft 6 Support arch C80/125 - 90° PP 7 Set (2 pieces) distant holder E130 of spring steel; a distant holder must be used at least every 2 metres 8 Lead pan with bowl C80/125 for roof duct (gradient 25 - 55° adjustable), ground plate 500 x 500 mm, brick-red coated 9 Rain keep-off rail brick-red coated (RAL 8023) 10 LAS-mouth piece C80/125 PP Flue gas tube of high grade steel, white coated | <table border="0"> <tr> <td style="width: 100px;">6027 510</td> </tr> <tr> <td>2010 165</td> </tr> <tr> <td>2029 322</td> </tr> <tr> <td>2001 419</td> </tr> <tr> <td>619 303</td> </tr> <tr> <td>2018 526</td> </tr> <tr> <td>2010 495</td> </tr> <tr> <td>2001 421</td> </tr> <tr> <td>2018 555</td> </tr> <tr> <td>2018 528</td> </tr> </table> | 6027 510 | 2010 165 | 2029 322 | 2001 419 | 619 303 | 2018 526 | 2010 495 | 2001 421 | 2018 555 | 2018 528 |
| 6027 510 | | | | | | | | | | | |
| 2010 165 | | | | | | | | | | | |
| 2029 322 | | | | | | | | | | | |
| 2001 419 | | | | | | | | | | | |
| 619 303 | | | | | | | | | | | |
| 2018 526 | | | | | | | | | | | |
| 2010 495 | | | | | | | | | | | |
| 2001 421 | | | | | | | | | | | |
| 2018 555 | | | | | | | | | | | |
| 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.

Hoval supply air / flue gas system on outside wall

to Hoval UltraGas® (15-35)

C80/125 PP, Ø 80/125 mm PP, roof duct black

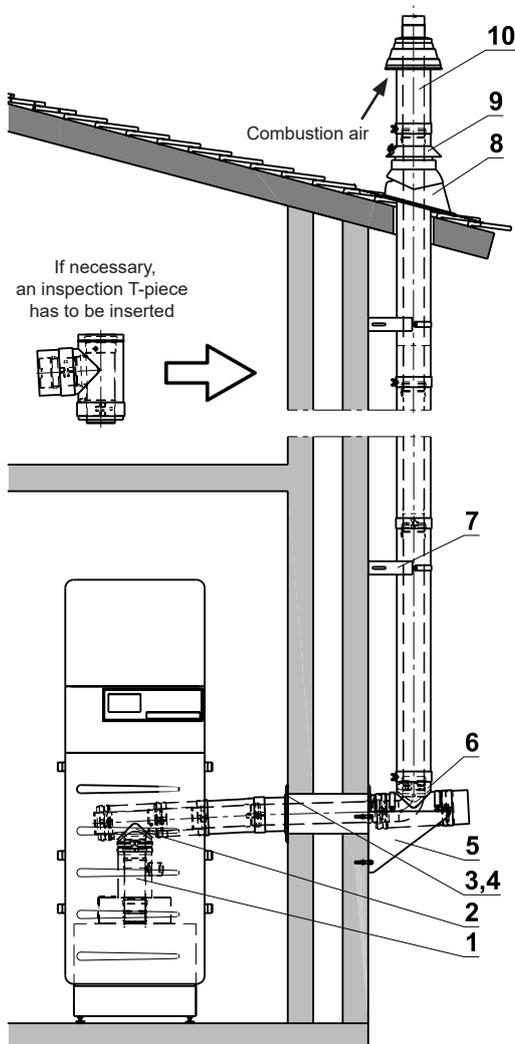
Part numbers

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 incl. working drawings must be ordered separately, see individual parts

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 spring steel | 2004 116 |
| Viton seal ring D = 80 mm to flue gas tube PP | 2018 530 |

Further components see section following the assembly kits.

Hoval supply air / flue gas system on outside wall

to Hoval UltraGas® (15-35)

C80/125 PP, Ø 80/125 mm PP, roof duct red

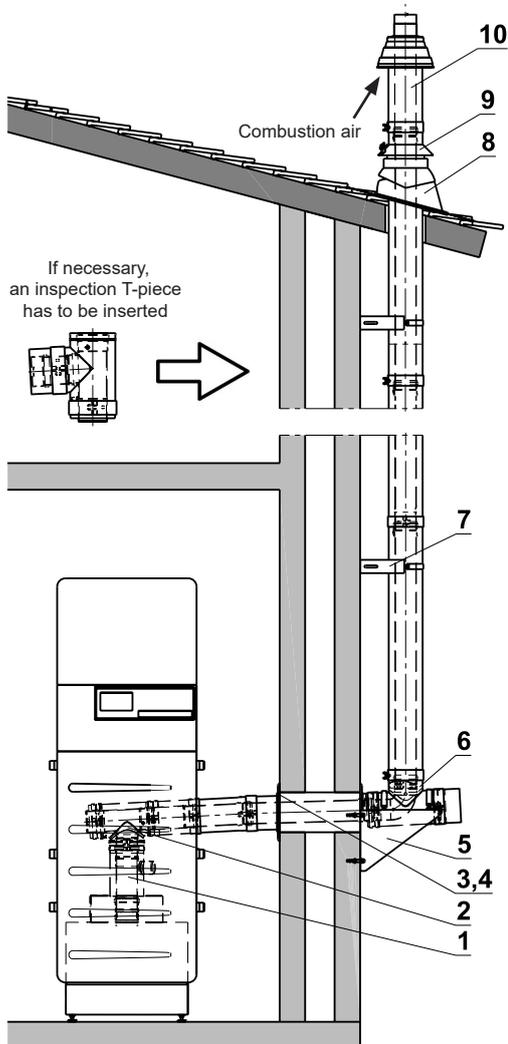
Part numbers

Room air independent operation

Approval

VKF-No. Z 14603

CE 0432BPR220556



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.

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

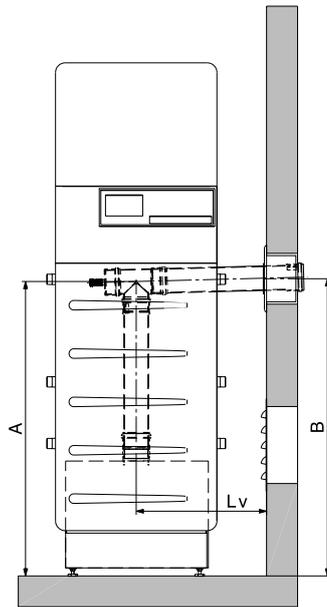
The Hoval engineering and installation regulations have to be met strictly!

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 incl. working drawings must be ordered separately, see individual parts

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

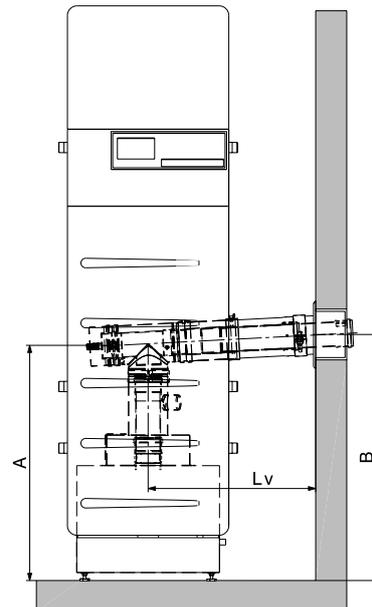


Minimum dimensions:
A = 520 mm
Lv = 410 mm
B = 540 mm

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

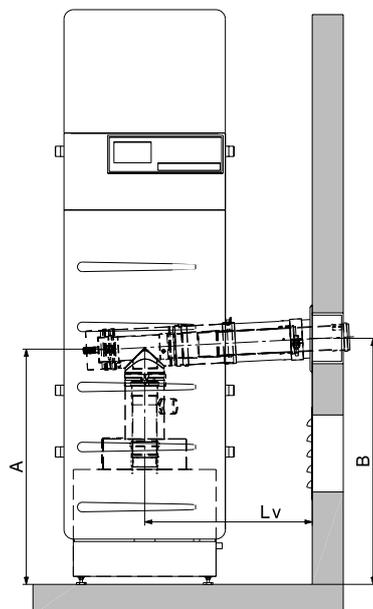


Minimum dimensions:
A = 750 mm
Lv = 410 mm
B = 760 mm

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

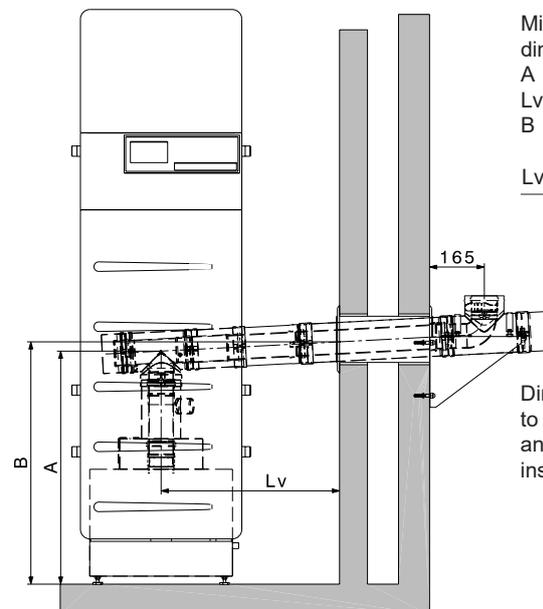


Minimum dimensions:
A = 750 mm
Lv = 410 mm
B = 770 mm

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.

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.

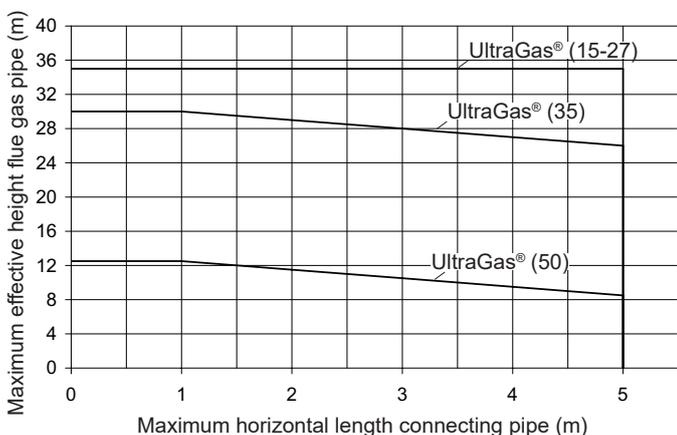
Sizing basis

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

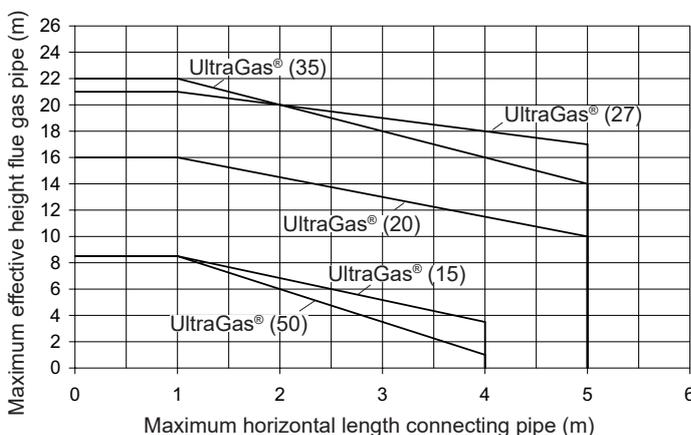
Maximum flue gas pipe length chimney connection and flue gas pipe in chimney stack

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

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:

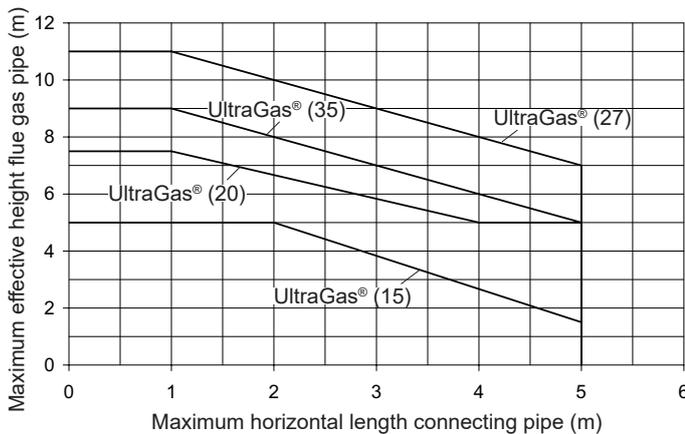
The data contained in the following diagrams represent guide values. An exact calculation for the flue gas duct must be made on-site.

**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.

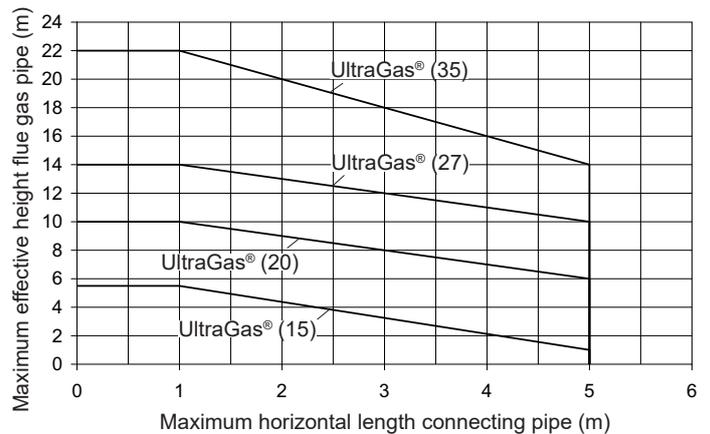


**Flue gas system in shaft
ambient air independent operation**

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.

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

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.

Hoval supply air / flue gas system in shaft

to Hoval UltraGas® (35,50)

E100 PP, Ø 100 mm plastic PP

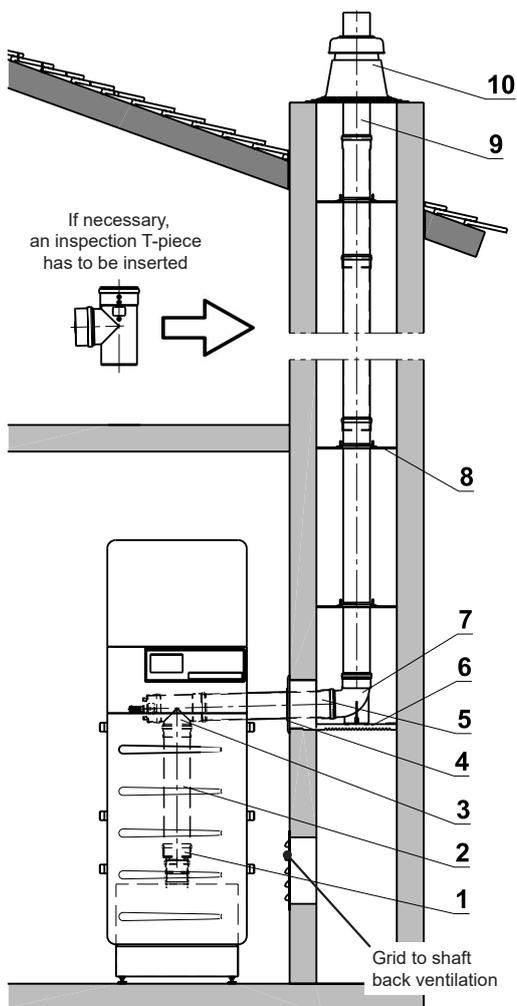
Part numbers

Room air independent operation

Approval

VKF No. Z 14604

CE 0432BPR220556



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

- | | | |
|----|--|----------|
| 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 | 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.

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 incl. working drawings must be ordered separately, see individual parts

Part No.

Hoval supply air / flue gas system in shaft

to Hoval UltraGas® (35,50)

E100 Flex PP, Ø 100 mm plastic PP/Flex

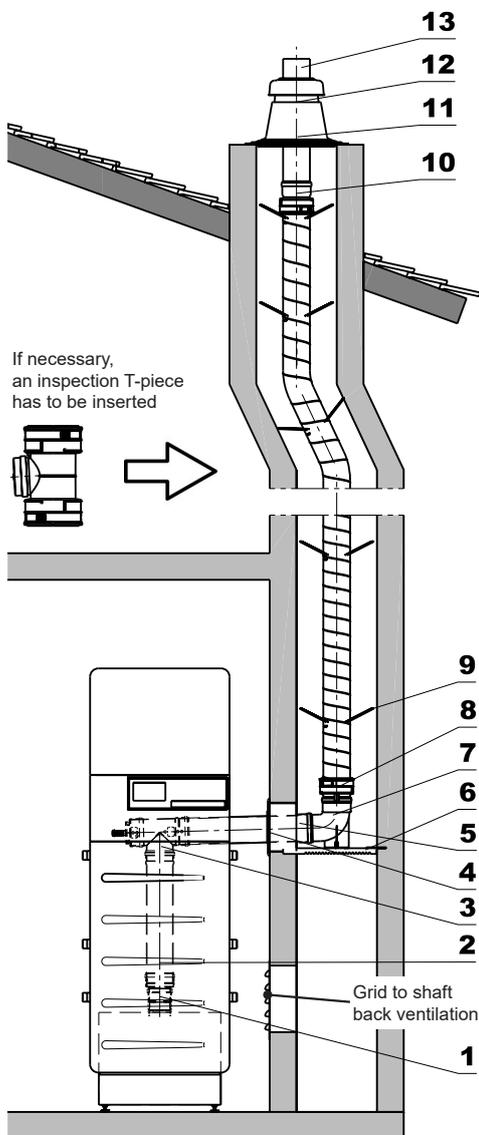
Part numbers

Room air independent operation

Approval

VKF No. Z 14604

CE 0432BPR220556



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

Grid to shaft
back ventilation

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

1	Adapter piece E80 - E100 PP	2018 532
2	Length element E100 L = 450 mm PP	2001 480
3	T-Stück mit Messöffnung 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 2008 140
Price per metre

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".

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

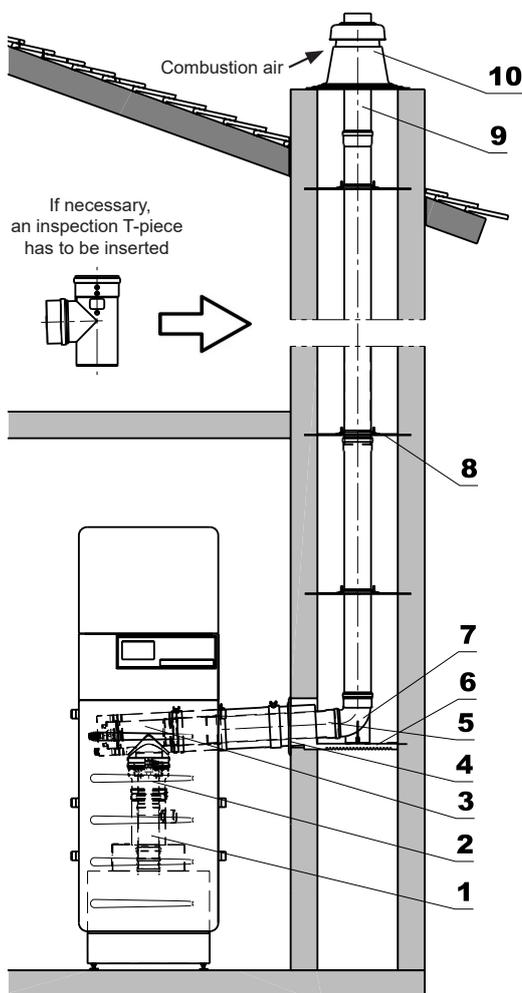
Approval sticker incl. working drawings
must be ordered separately,
see individual parts

Room air independent operation

Approval

VKF No. Z 14603 / 14604

CE 0432BPR220556



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 PP L = 200 mm | 2015 246 |
| C100/150 PP L = 450 mm | 2015 247 |
| C100/150 PP L = 950 mm | 2015 248 |
| C100/150 PP 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 = 450 mm | 2001 480 |
| Length element E100 = 950 mm | 2001 481 |
| Length element E100 = 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. | |

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 incl. working drawings must be ordered separately, see individual parts

Part No.

Hoval supply air / flue gas system in shaft

to Hoval UltraGas® (35,50)

C100/150 Flex PP, Ø 100/150 mm plastic PP/Flex

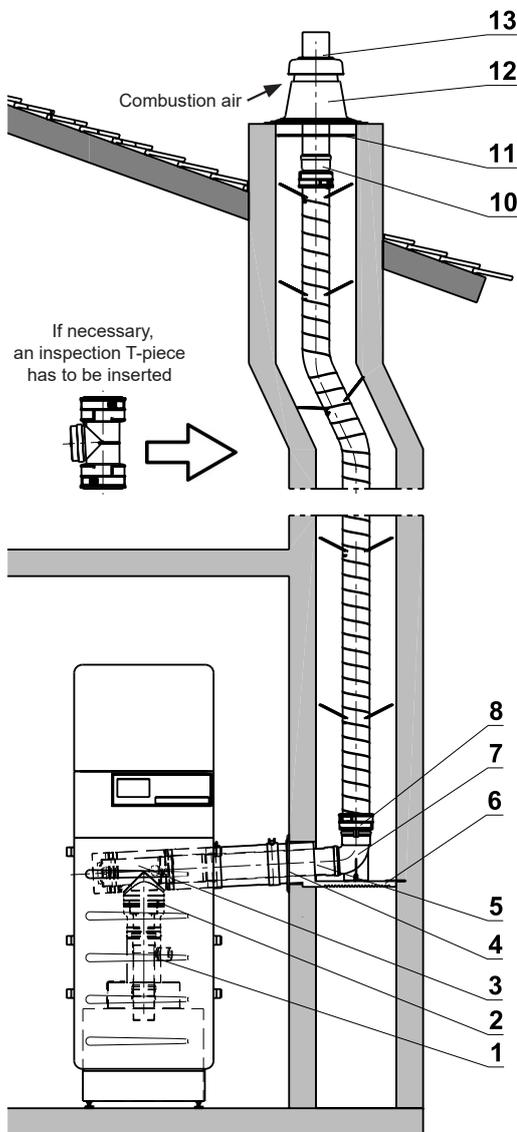
Part numbers

Room air independent operation

Approval

VKF No. Z 14603 / 14604

CE 0432BPR220556



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 PP L = 200 mm | 2015 246 |
| C100/150 PP L = 450 mm | 2015 247 |
| C100/150 PP L = 950 mm | 2015 248 |
| C100/150 PP 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. | |

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 incl. working drawings must be ordered separately, see individual parts

Hoval supply air / flue gas system on outside wall

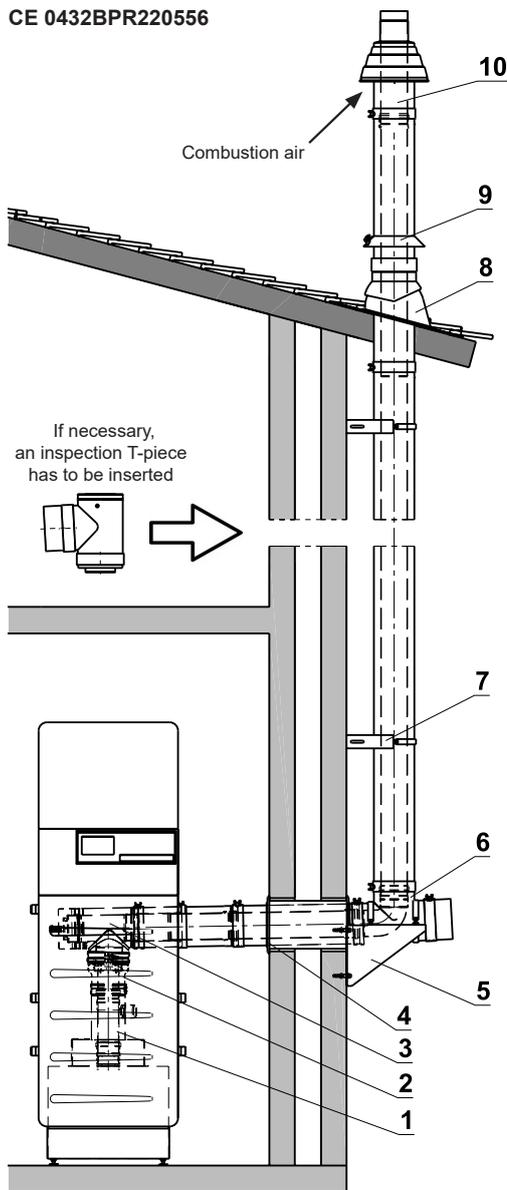
to Hoval UltraGas® (35,50)

C100/150 PP, Ø 100/150 mm PP, roof duct black

Part numbers

Room air independent operation

Approval
VKF No. Z 14603
CE 0432BPR220556



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 coated (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 PP L = 200 mm | 2015 246 |
| C100/150 PP L = 450 mm | 2015 247 |
| C100/150 PP L = 950 mm | 2015 248 |
| C100/150 PP 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.

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 incl. working drawings must be ordered separately, see individual parts

Part No.

Hoval flue gas system in shaft

to Hoval UltraGas® (70,100)

E100 PP, Ø 100 mm plastic PP

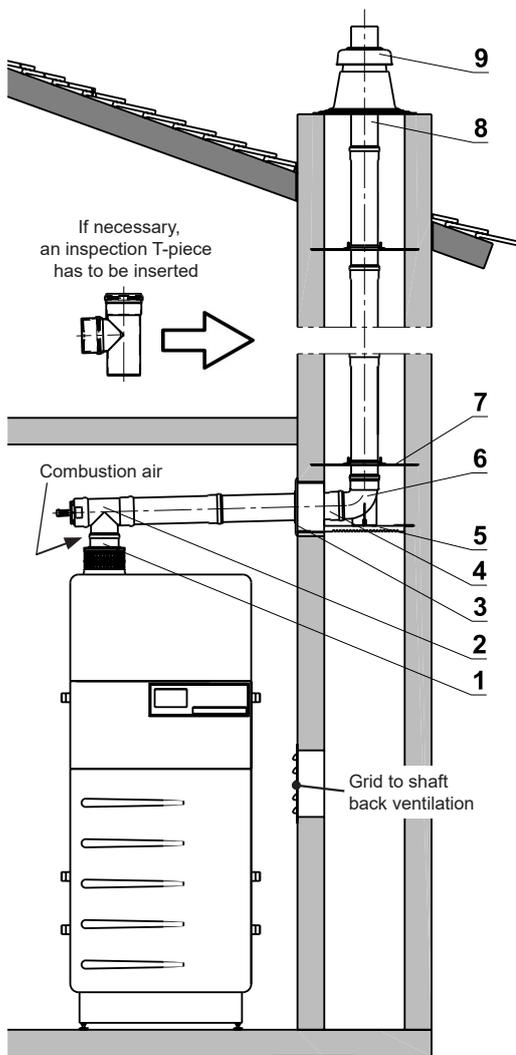
Part numbers

Room air dependent operation

Approval

VKF-No. Z 14604

CE 0432BPR220556



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

consisting of parts:

- | | | |
|---|---|----------|
| 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 | Set (2 pieces) distant holder E100
of polypropylene for tube centering
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 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 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 |

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".

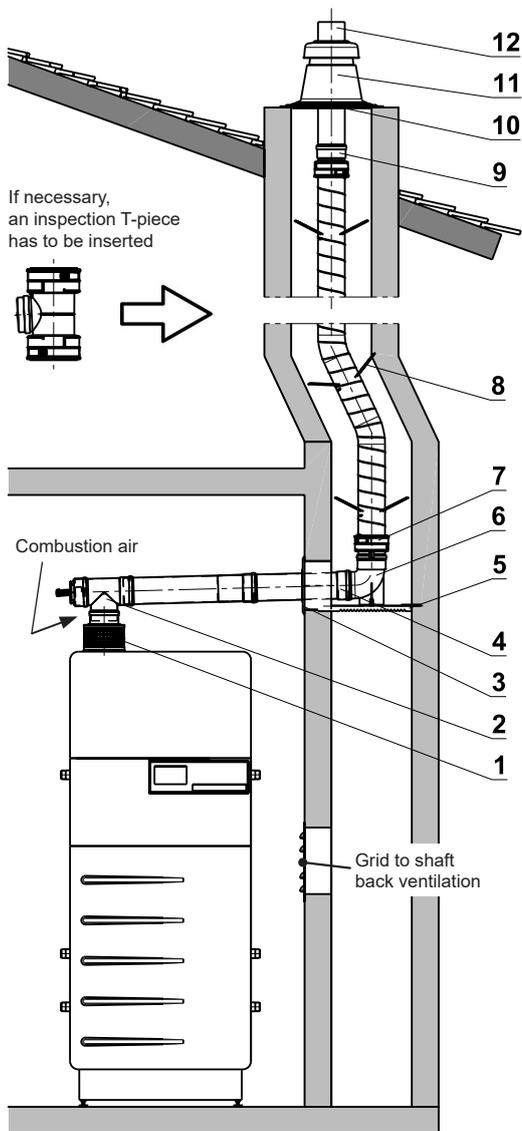
Approval sticker incl. working drawings must be ordered separately, see individual parts

Part No.

6002 996

Room air dependent operation

Approval
VKF-No. Z 14604
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 pice 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 |
| 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".

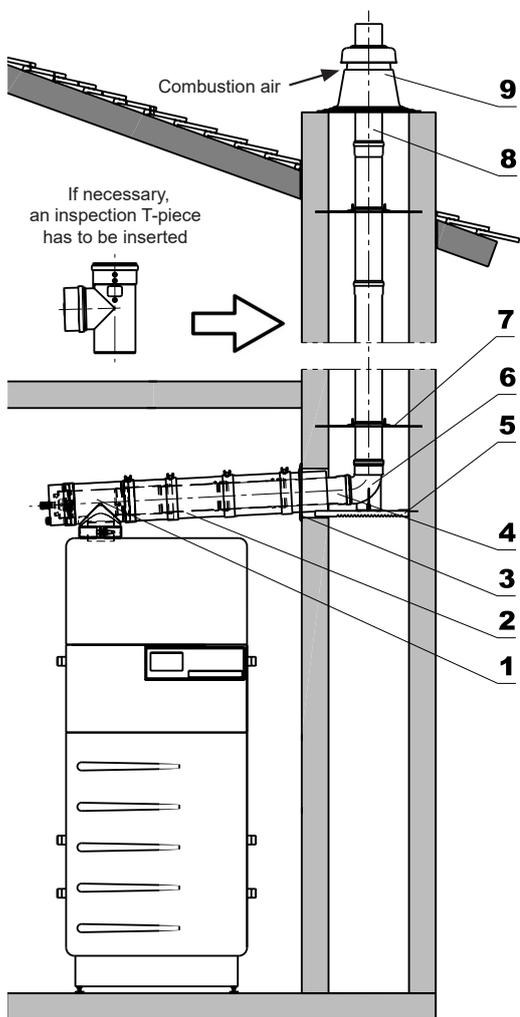
Approval sticker incl. working drawings
must be ordered separately,
see individual parts

Room air independent operation

Approval

VKF-No. Z 14603 / 14604

CE 0432BPR220556



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	6008 124
2 Length adjustment piece C100/150 L = 315 - 440 mm	2015 257
3 Duct C100/150 Wall plate with splice 220 x 220 mm and scabbard tube Ø 180 mm, L = 300 mm	2015 251
4 Length element E100, L = 450 mm PP	2001 434
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 centering tube 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 100 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 C100/150 PP L = 200 mm	2015 246
C100/150 PP L = 450 mm	2015 247
C100/150 PP L = 950 mm	2015 248
C100/150 PP 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 = 450 mm	2001 480
E100 = 950 mm	2001 481
E100 = 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!

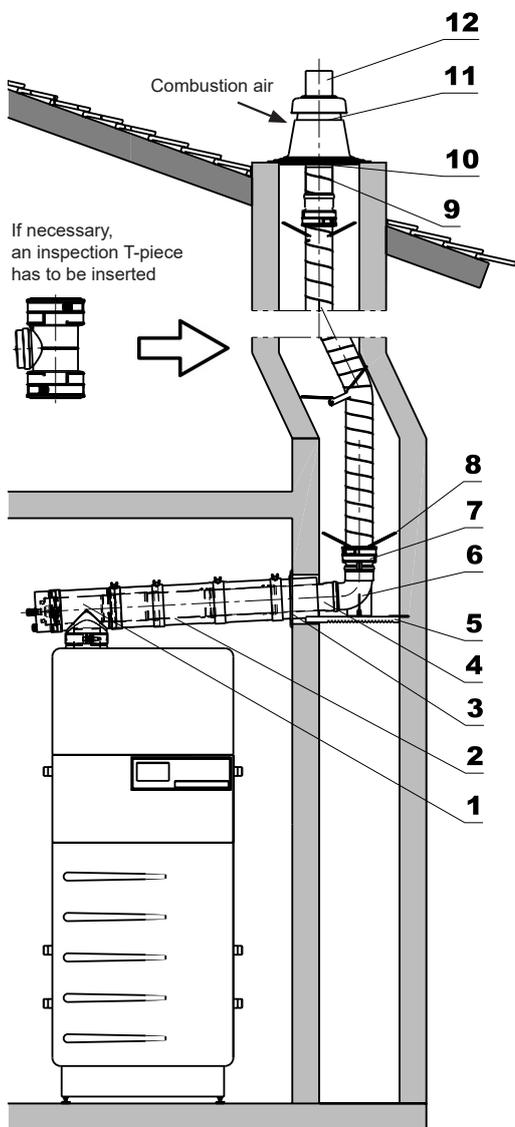
The connection situation and the dimensions are shown on chapter "Dimensions".

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 incl. working drawings must be ordered separately, see individual parts

Room air independent operation

Approval
VKF No. Z 14603 / 14604
CE 0432BPR220556



Example UG K C100/150 Flex PP to UltraGas® (70):

- | | | |
|----|--|----------|
| 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 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 PP, high grade steel | 2001 505 |

Additional parts to be ordered if necessary:

- | | |
|---------------------------------------|----------|
| Length element C100/150 PP L = 200 mm | 2015 246 |
| C100/150 PP L = 450 mm | 2015 247 |
| C100/150 PP L = 950 mm | 2015 248 |
| C100/150 PP 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 incl. working drawings must be ordered separately, see individual parts

Hoval supply air / flue gas system on outside wall

to Hoval UltraGas® (70)

C100/150 PP, Ø 100/150 mm PP, roof duct black

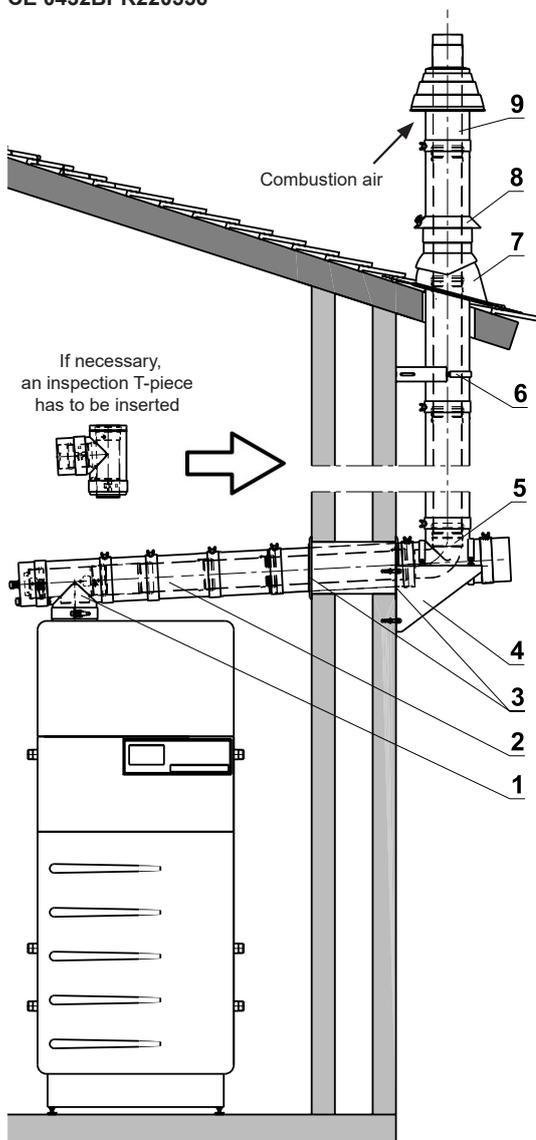
Part numbers

Room air independent operation

Approval

VKF No. Z 14603

CE 0432BPR220556



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

- | | | |
|---|---|----------|
| 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, white coated (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 PP L = 200 mm | 2015 246 |
| C100/150 PP L = 450 mm | 2015 247 |
| C100/150 PP L = 950 mm | 2015 248 |
| C100/150 PP 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.

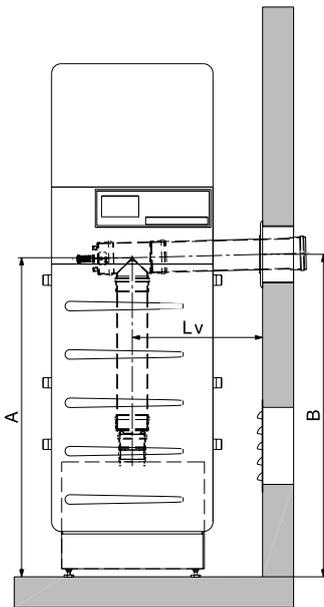
The Hoval engineering and installation regulations have to be met strictly!

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 incl. working drawings must be ordered separately, see individual parts

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

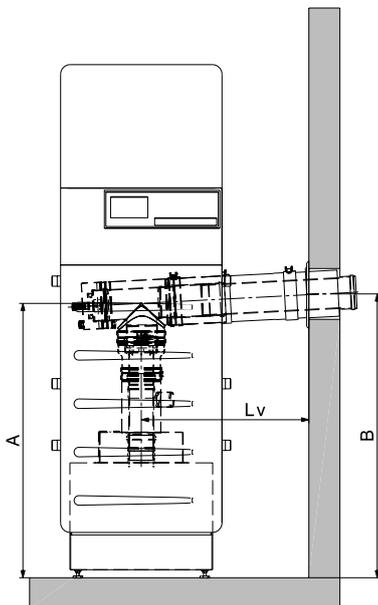


UltraGas® (35,50)
Minimum dimensions:
A = 520 mm
Lv = 410 mm
H = 540 mm

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

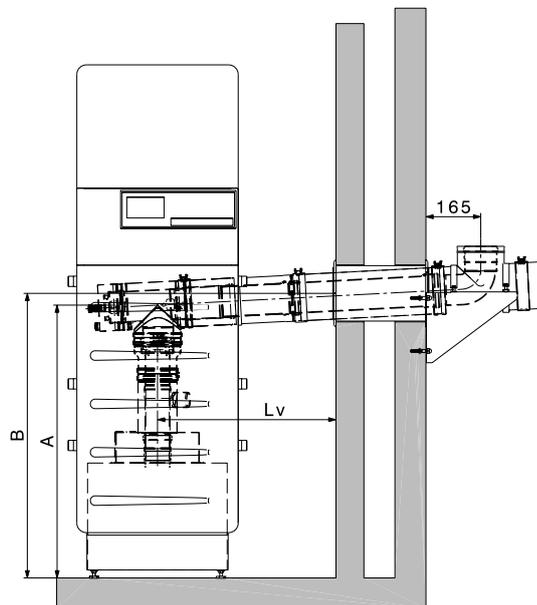


UltraGas® (35,50)
Minimum dimensions:
A = 880 mm
Lv = 410 mm
H = 900 mm

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

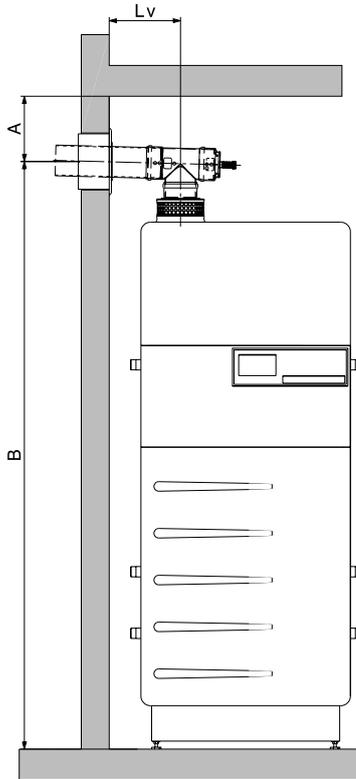


UltraGas® (35,50)
Minimum dimensions:
A = 740 mm
Lv = 360 mm
H = 900 mm

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

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

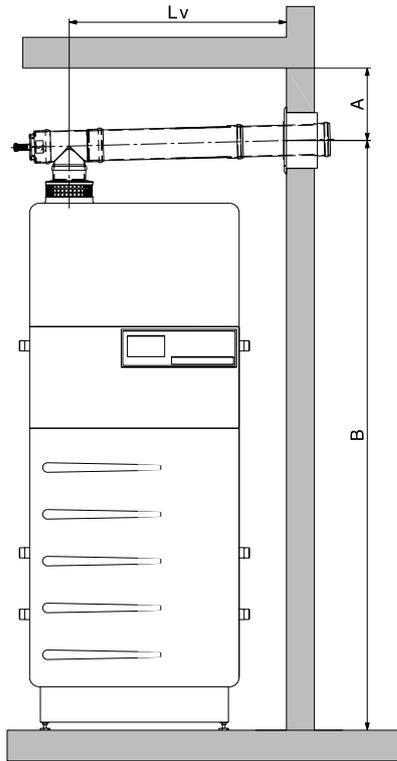
Assembly kit UG K E100 PP
Assembly kit UG K E100 Flex PP



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

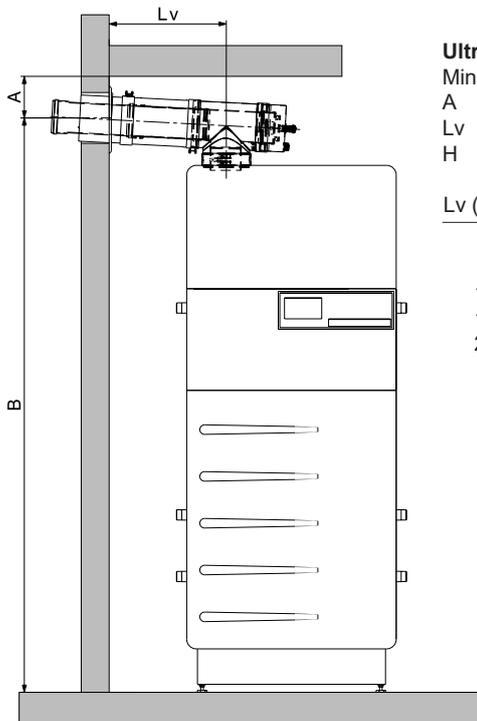


UltraGas® (70,100)
Minimum dimensions:
A = 115 mm
Lv = 700 mm
H = 1960 mm

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

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

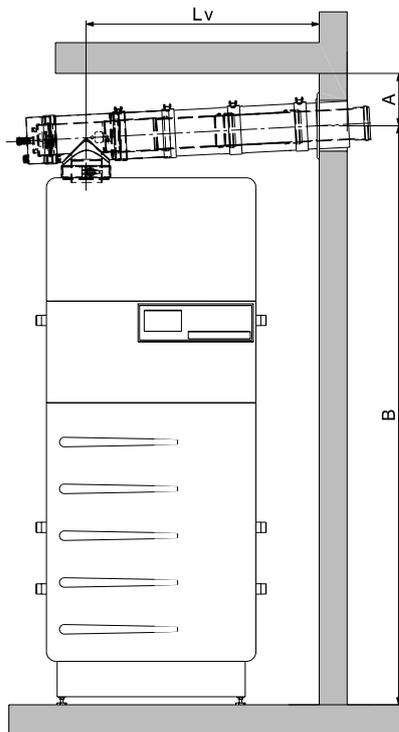
Assembly kit UG K C100/150 PP
Assembly kit UG K1 C100/150 Flex PP



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

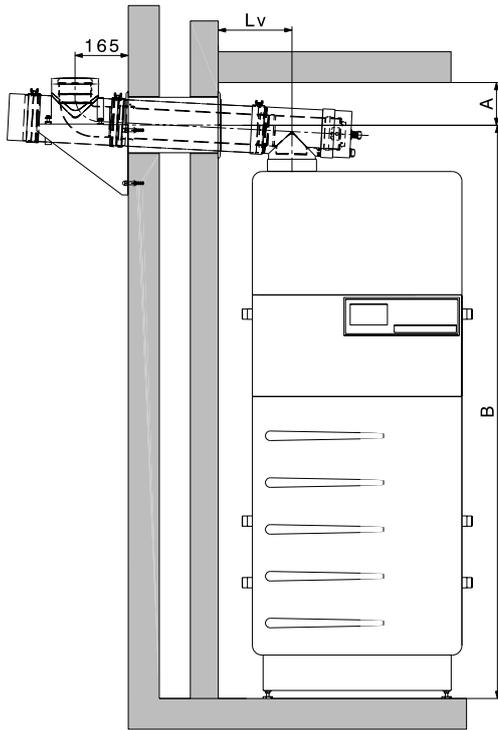
Assembly kit UG K C100/150 PP
Assembly kit UG K C100/150 Flex PP



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

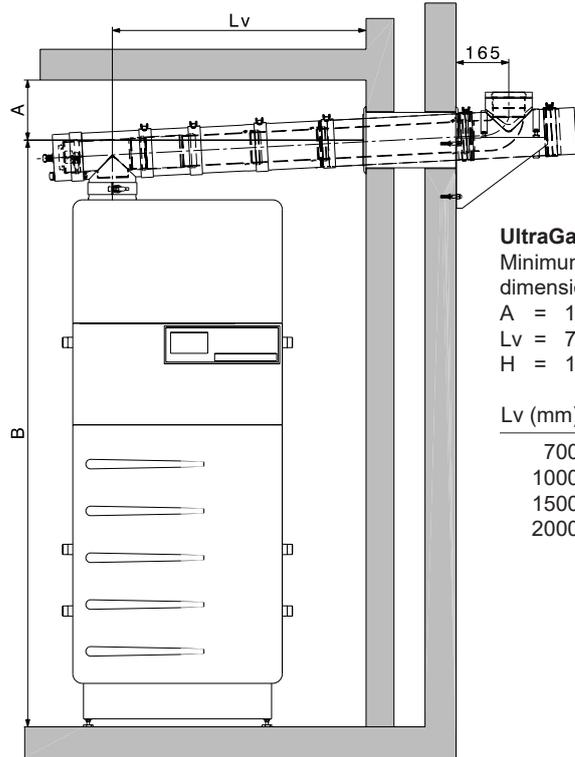
Assembly kit UG AW C100/150 PP black



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

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

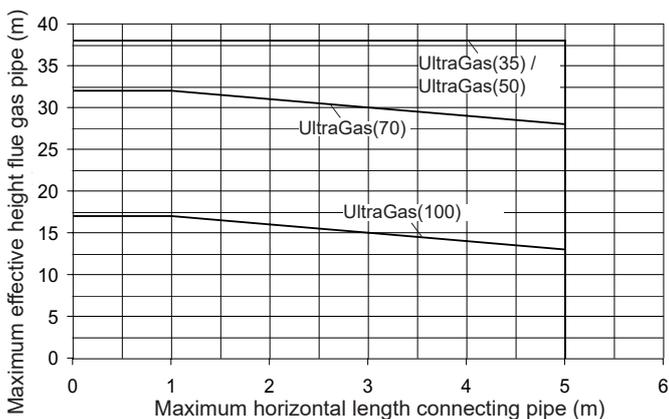
The following diagrams were computed assuming a geographic altitude of 1000 m above sea level.

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

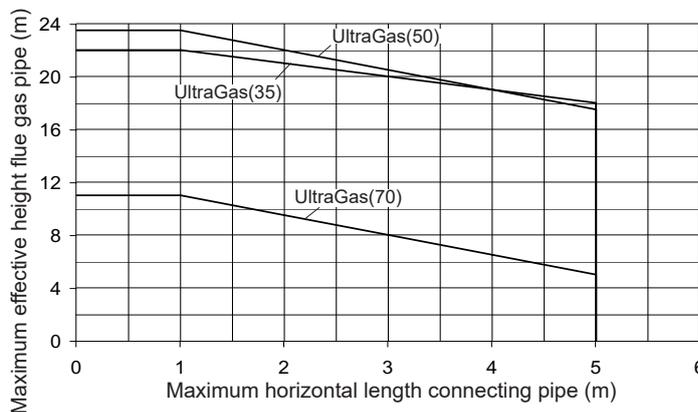
Note:

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

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.

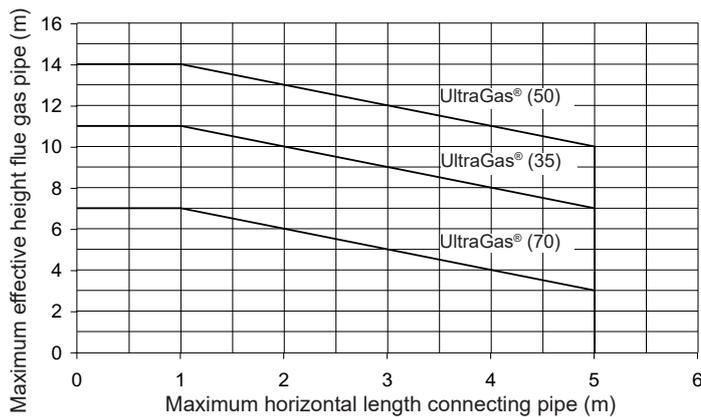
To determine the total length of PP flue gas tube and combustion air duct the total lengths can be obtained from the diagrams and calculated for the simple chimney installation. For the remaining form pieces which have to be installed the lengths to be removed must be read off from the table.

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:

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.

Hoval flue gas system DN 130

to Hoval UltraGas® (125,150)

E130, Ø 130 mm PP

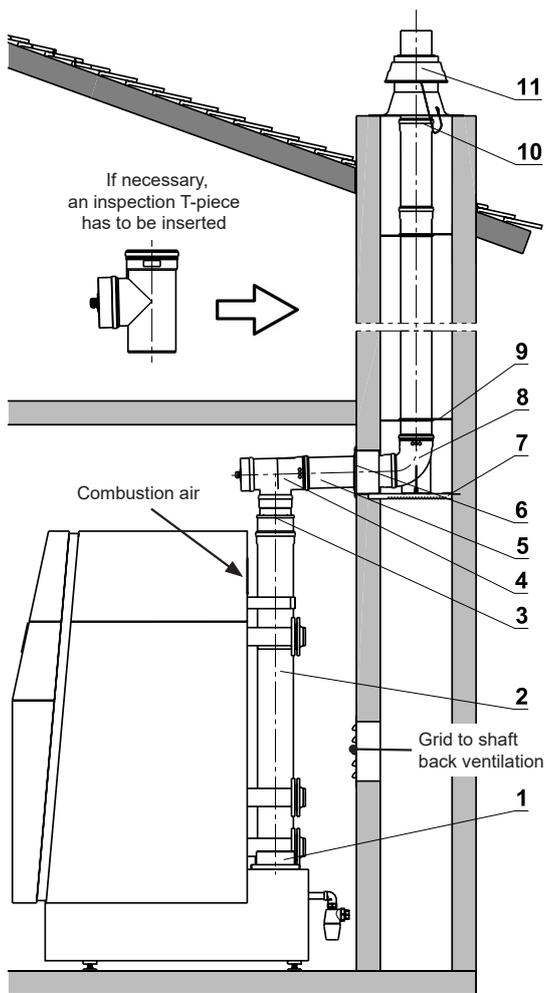
Part numbers

Room air dependent operation

Approval
VKF-No. Z 14604
CE 0432BPR220556

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 | Wall duct E130 PP
Wall plate with splice
220 x 220 mm, casing tube
D = 180 mm, L = 300 mm | 2010 494 |
| 7 | Bearing rail E
Flue gas tube support in shaft | 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 = 500 mm | 2025 720 |
| | E130 L = 1000 mm | 2025 721 |
| | E130 L = 2000 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 incl. working drawings must be ordered separately, see individual parts

Hoval flue gas system DN 150

to Hoval UltraGas® (125,150)

E150, Ø 150 mm PP

Part numbers

Room air dependent operation

Approval

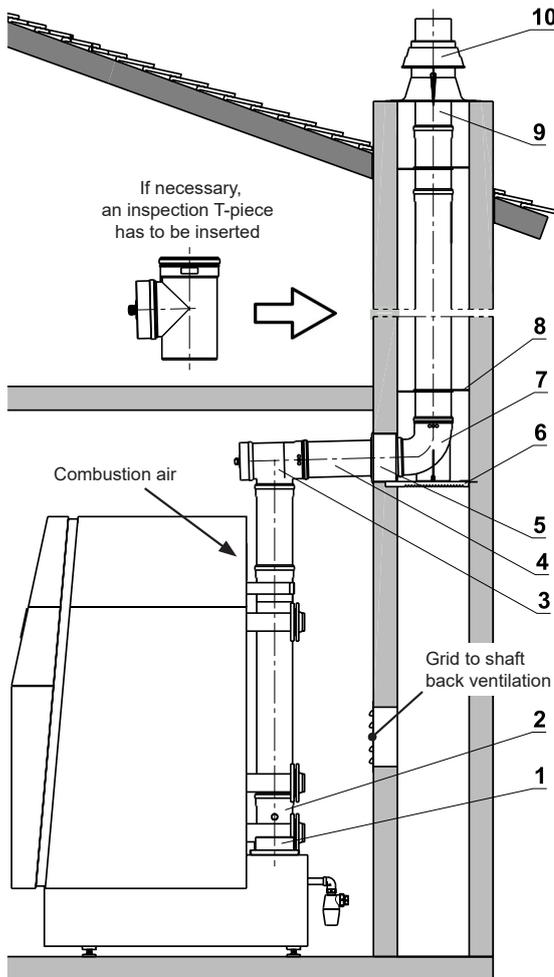
VKF-No. Z 14604

CE 0432BPR220556

Examples to

UltraGas® (125-150):

- 1 Connection seal with clamping flanges D150
- 2 Length element with measure opening E150 PP L = 250 mm
- 3 Inspection T-piece with measure opening E150 PP
- 4 Length element E150 PP
- 5 Wall duct E150 PP
Wall plate with splice 220 x 220 mm, duct tube D = 200 mm, L = 300 mm
- 6 Bearing rail E
Flue gas tube support in shaft
- 7 Support arch E150 - 90°
- 8 Distant holder E150
Set (2 pieces) of spring steel
- 9 Muzzle pipe E150 high grade steel
- 10 Top part E150 PP aluminium for chimney end for back ventilation with shaft cove



Part No.

2029 956

2025 753

2025 759

as required

2010 512

619 303

2025 744

2010 506

2025 757

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.

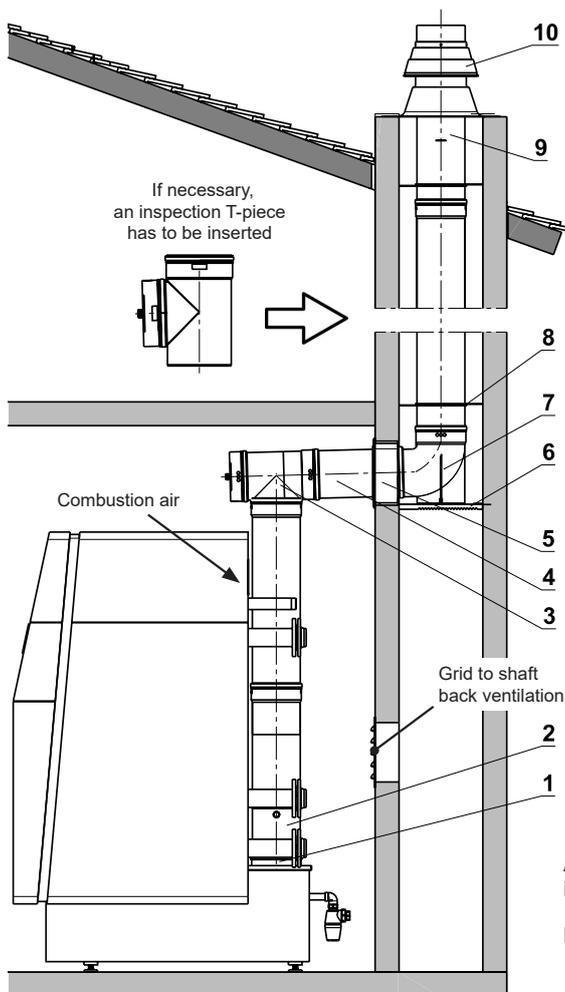
The Hoval engineering and installation regulations have to be met strictly!

Approval sticker incl. working drawings must be ordered separately, see individual parts

Room air dependent operation

Approval
VKF-No. Z 14604
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 | Wall duct E200 PP
Wall plate with splice 300 x 300 mm, casing tube D = 250 mm, L = 300 mm | 2035 949 |
| 6 | Bearing rail E
Flue gas tube support in shaft | 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 = 500 mm | 2035 937 |
| | E200 L = 1000 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 incl. working drawings must be ordered separately, see individual parts

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		Total pipe length in m (flue gas + air supply)			
			outside	inside	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.

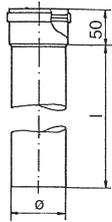
Notes

- 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.

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.

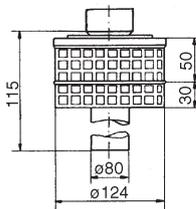
All long elements can be shortened. The cut edges must be smoothed to avoid damage to gas kit.



Length element E80 PP

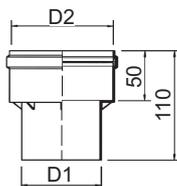
- L = 450 mm
- L = 950 mm
- L = 1950 mm

- 2001 447
- 2001 448
- 2001 449



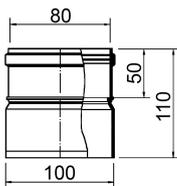
Air supply grille E80 PP
incl. tube L = 115 mm

2004 102



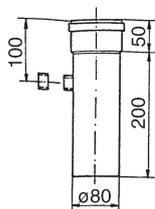
Adapter piece E80 -> E100 PP

2018 532



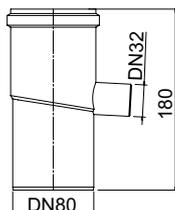
Reducing part E100 PP -> E80 PP

2015 245



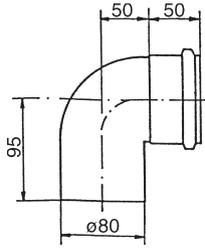
Length element E80 PP
with measure opening for flue gas
L = 200 mm

2001 451



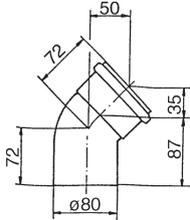
Condensate drain E80 PP
horizontal/vertical

2001 899



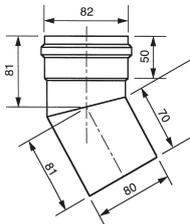
Arch E80 - 90° PP

2001 452



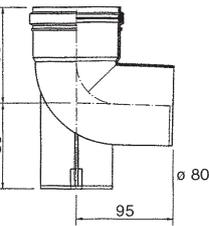
Arch E80 - 45° PP

2001 453



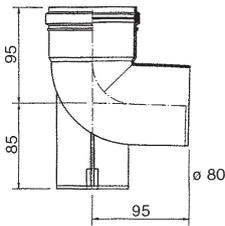
Arch E80 - 30° PP

2001 454



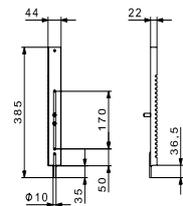
Arch E80 - 15° PP

2003 674



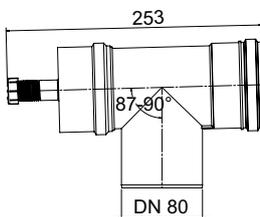
Support arch E80 - 90° PP

2001 455



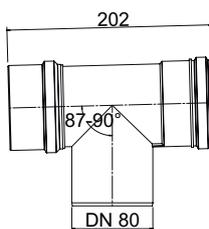
Bearing rail E
Flue gas tube support in shaft

619 303



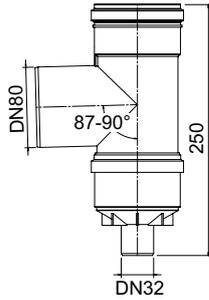
T-piece E80 - 90° PP
with measure opening

2001 457



Inspection T-piece E80 - 90° PP

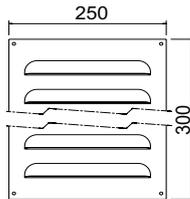
2001 458



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

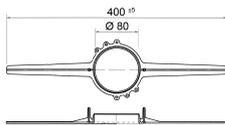
Part No.

2001 460



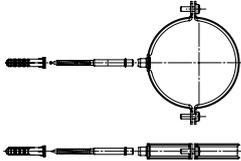
Grid, aluminium
to shaft back ventilation

619 304



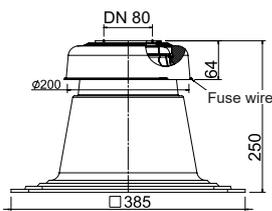
Set (2 pieces)
Distant holder E80
for tube centering

2001 462



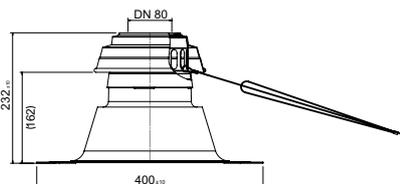
Pipe clip E80
for wall mounting

618 749



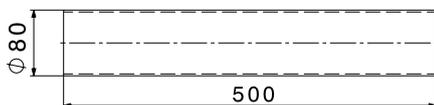
Top part 80 PP for chimney end black
for back ventilation with shaft cover
(385 x 385 mm); clamp tape and seal ring

2001 464



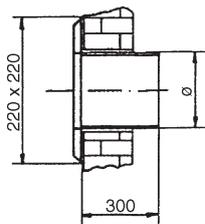
**Top part E 80 for chimney end,
of aluminium**
for back ventilation with shaft cover
(Ø 400 mm); clamp tape and seal ring

2038 106



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

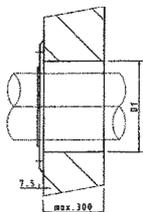
2001 465



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

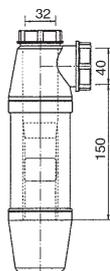
Part No.

2001 466



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

2001 419

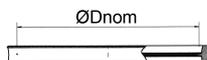


Siphon for condensate removal
Ø 32 mm

2001 471

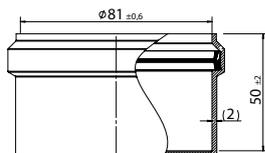
Condensate removal set
Ø 32 mm, 2 arches 90°,
tube L = 500 mm

2001 472



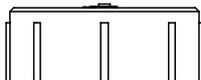
Viton seal ring E80
for PP flue gas tube

2018 530



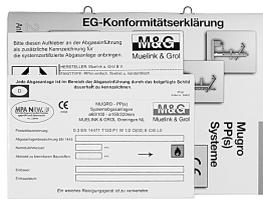
Flue gas system dummy plug-in sleeve
D80/PP H = 50

2056 797



Measure opening cap grey 1/2"

2060 814

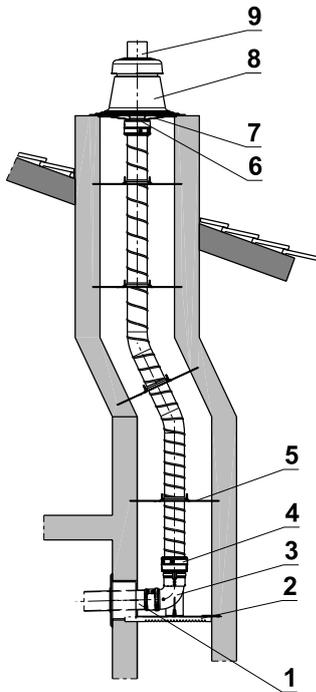


Approval stickers
consisting of the following approval stickers
(contained in a pouch):
- Flue gas tube PP Switzerland
- Flue gas tube PP Germany
- Flue gas tube PP Austria
- Approval notice and working drawings

6009 755

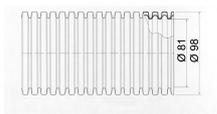
Part No.

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.

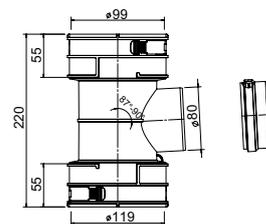


Example K E80 Flex-PP
consisting of parts:

- | | | |
|---|---|----------|
| 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 |

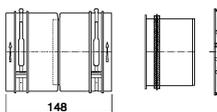


- Wave tube E80 Flex-PP**
Metre ware
Price per metre
Max. length per bundle: 50 m



**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 working drawings

6009 755

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.

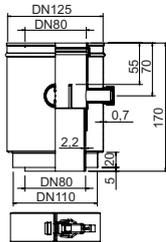


Connection set for ambient air independent operation without sound absorber

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.

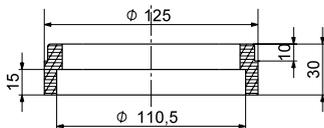
6027 510



Boiler connection piece C80/110 -> C80/125 PP

with measure opening for flue gas and supply air to MultiJet® (12,16)

2009 694

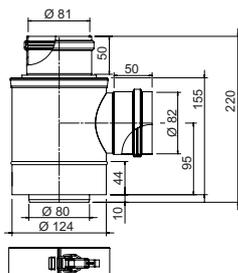


Adapter ring C80/110 -> C80/125

to reduce construction height to MultiJet® (12,16)

Attention:
T-piece with measure opening necessary

5015 274

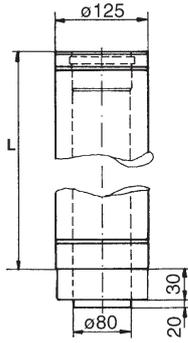


Separating piece C80/125 -> 2 x E80 PP

for separate conduction of flue gas and combustion air

2010 174

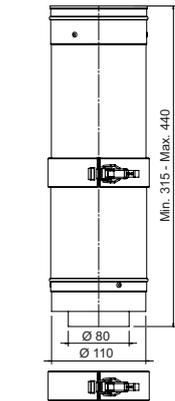
Part No.



Length element C80/125 PP

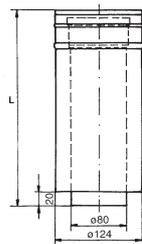
- L = 200 mm
- L = 450 mm
- L = 950 mm
- L = 1950 mm

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



Length adjustment piece C80/125 PP

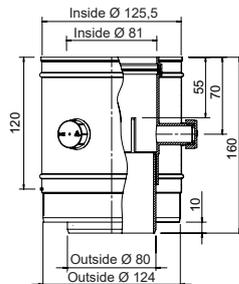
- 2010 159



Length element, can be shortened C80/125 PP

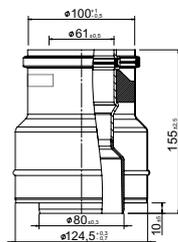
- L = 100 – 1000 mm

- 2010 158



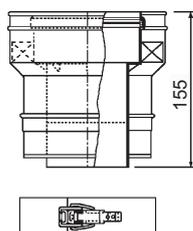
Length element C80/125 PP with measure opening for flue gas and supply air L = 115 mm

- 2010 160



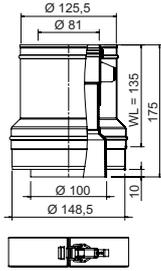
AS reducing part C80/125 -> C60/100 PP white coated

- 2063 475



Adapter piece C80/125 -> C100/150 PP

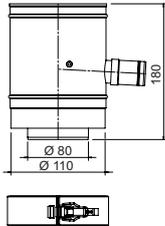
- 2018 533



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

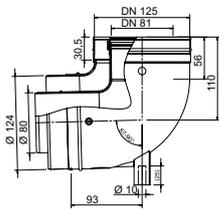
Part No.

2025 334



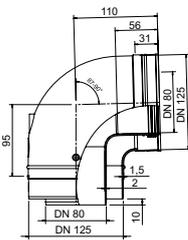
**Condensate drain C80/125 PP
 horizontal/vertical**

2001 901



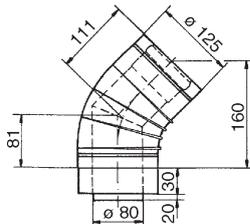
Support arch C80/125 PP - 90°

2018 526



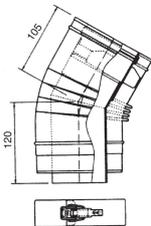
Arch C80/125 PP - 90°

2022 127



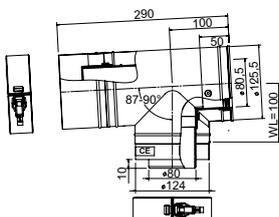
Arch C80/125 PP - 45°

2010 162



Arch C80/125 PP - 30°

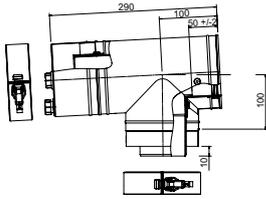
2010 163



**Inspection T-piece
 C80/125 PP**

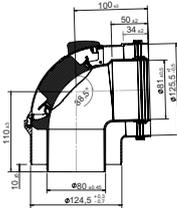
2010 164

Part No.



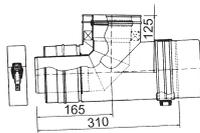
T-piece C80/125 PP
with measure opening

2010 165



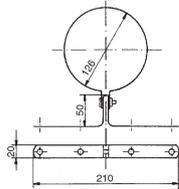
Elbow with access opening C80/125-90°
coated white

2069 576



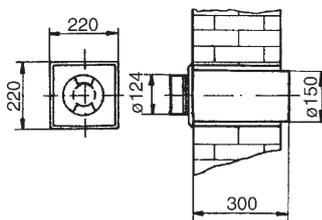
Concentric arch T-piece C80/125 PP
white coated (RAL 9016)

2038 104



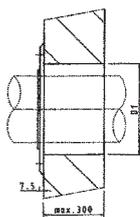
Pipe clip C125
for wall mounting

618 736



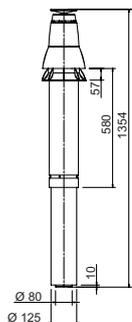
Duct C80/125
consisting of one wall plate with splice
(220 x 220 mm) and one duct tube
(Ø 150 mm, L = 300 mm)

618 737



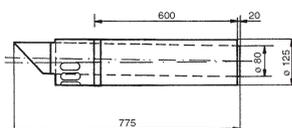
Wall socket
Ø 150 mm, L = 300 mm
for wall duct

2001 419



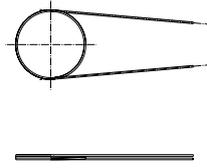
Supply air/flue gas - duct C80/125 PP
to supply air/flue gas system roof centre
incl. pipe clip
grey coated
brick red coated

618 755
2001 420



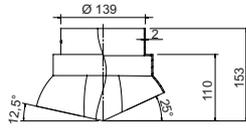
TopGas® condens - Flue gas systems
Supply air/Flue gas-roof execution
C80/125 L = 600 mm
incl. wall plate 220 x 220 mm

618 752



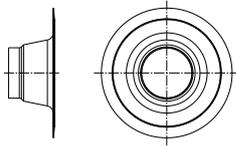
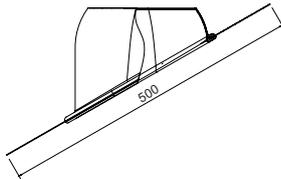
Set (2 pieces)
Distant holder E130
 of spring steel to MultiJet®

2010 495



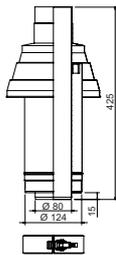
Lead pan with bowl C80/125
 for roof duct (gradient 25-55° adjustable),
 Ground plate (500 x 500 mm),
 black coated (RAL 9005)
 brick red coated (RAL 8023)

618 756
 2001 421



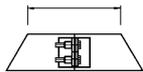
Flange for flat roofs C80/125
 for roof heating centre Ø 390 mm
 aluminium

2001 422



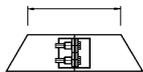
LAS-mouth piece
C80/125 PP flue gas tube
 of high grade steel
 to flue gas line system in shaft

2018 528



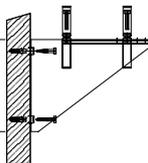
AS-rain keep-off rail
 Ø 125, black coated
 (RAL 9005)

2018 554



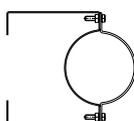
AS-rain keep-off rail D = 125 red

2018 555



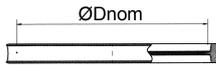
Outside wall-support bracket
 Ø 125 mm

2004 114



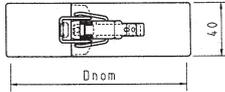
Outside wall-distant holder
 Ø 125 mm
 High grade steel

2004 116



Viton seal ring E80 PP
 for flue gas tube

2018 530



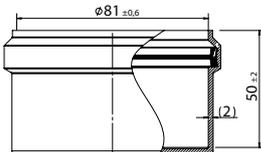
Clamp tape
 Ø 125 mm, with integrated seal ring

618 758



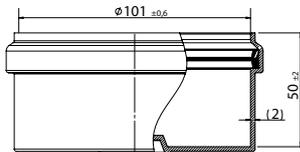
Approval stickers
 consisting of the following approval stickers
 (contained in a pouch):
 - Flue gas tube concentric PP Switzerland
 - Flue gas tube concentric PP Germany
 - Flue gas tube concentric PP Austria
 - Approval notice and working drawings

6009 756



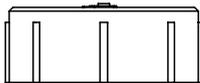
Flue gas system dummy plug-in sleeve
 D80/PP H = 50

2056 797



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

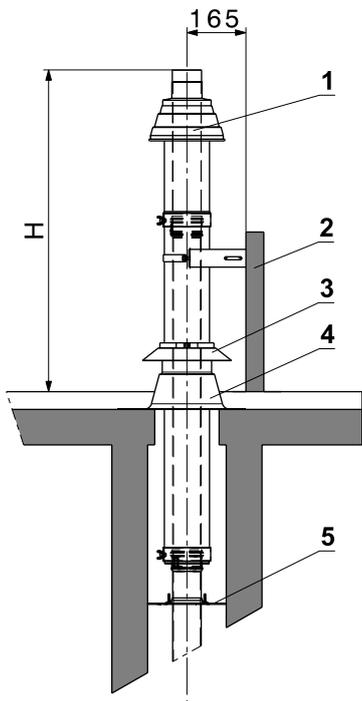
2035 491



Measure opening cap grey 1/2"

2060 814

Flue gas system
Room air dependent operation

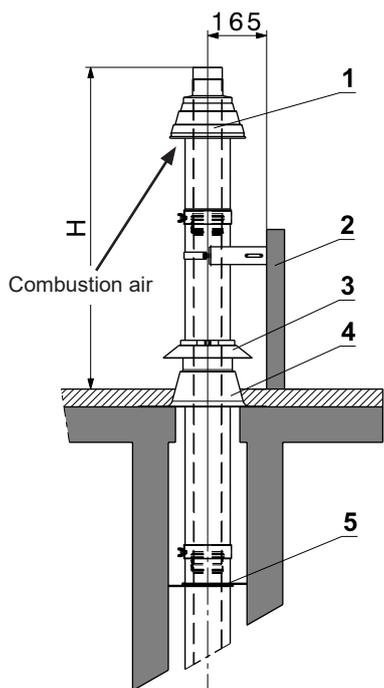


- 1 LAS-mouth piece C80/125 PP, flue gas tube of high grade steel white coated
- 2 Supporting console (at place) with outside distant holder of high grade steel D = 125
- 3 Rain keep-off rail D = 125 black (RAL 9005)
- 4 Flat roof flange C80/125
- 5 Distant holder E80 (set)

Part No.

- 2018 528
- 2004 116
- 2018 554
- 2001 422
- 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
- 2 Supporting console (at place) with outside distant holder of high grade steel D = 125
- 3 Rain keep-off rail D = 125 black (RAL 9005)
- 4 Flat roof flange C80/125
- 5 Distant holder E130 (2 pieces)

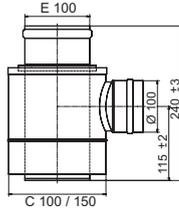
- 2018 528
- 2004 116
- 2018 554
- 2001 422
- 2010 495

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

Part No.

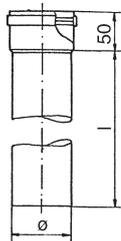
Exhaust and supply 100 mm diameter PP pipe including handy sleeve coupling and double sealing ring for connecting the individual system components. Long term temperature resistance to 120 °C.

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

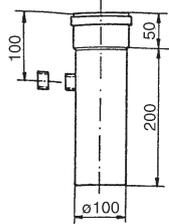
2015 244



Length element E100 PP

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

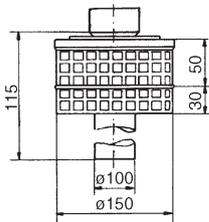
2001 480
2001 481
2001 482



Length element E100 PP

with measure opening for flue gas tube
L = 200 mm

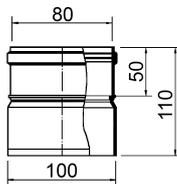
2001 485



Air supply grille E100 PP

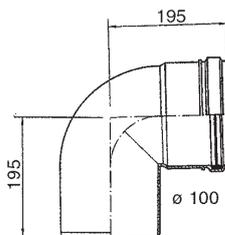
incl. tube, L = 115 mm

2004 168



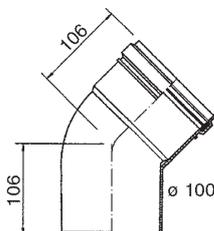
Reducing part E100 PP -> E80 PP

2015 245



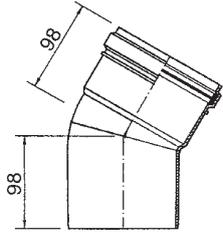
Arch E100 - 90° PP

2001 487



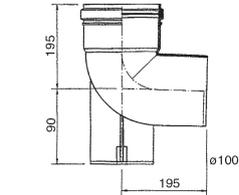
Arch E100 - 45° PP

2001 489



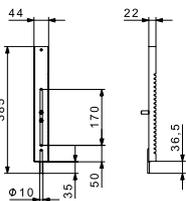
Arch E100 - 30° PP
L = 83 mm

2001 491



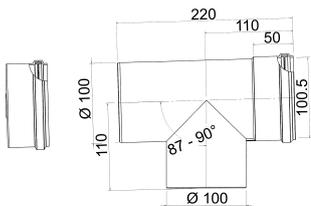
Support arch E100 - 90° PP

2001 493



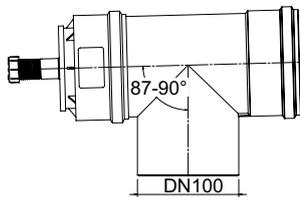
Bearing rail E
Flue gas tube support in shaft

619 303



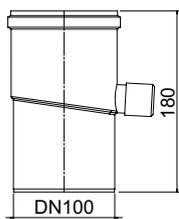
Inspection T-piece E100 - 90° PP

2001 497



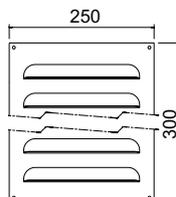
T-piece E100 - 90° PP
with measure opening

2004 169



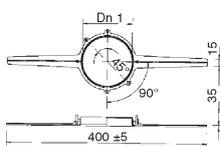
Condensate drainage E100 PP
horizontal/vertical

2004 170



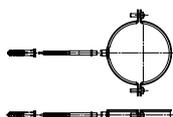
Grid, aluminium
to shaft back ventilation

619 304



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

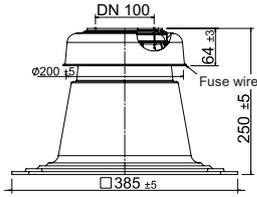
2001 501



Pipe clip E100
for fastening

2001 502

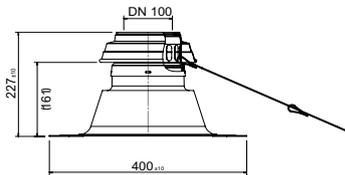
Part No.



Top part E100 PP for chimney connection, black

for back ventilation with shaft cover (385 x 385 mm); clamp tape and seal ring

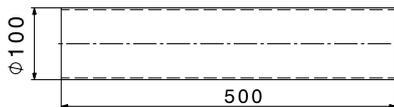
2001 504



Top part E100 for chimney connection, of aluminium

for back ventilation with shaft cover (Ø 400 mm); clamp tape and seal ring

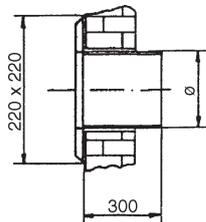
2038 107



End tube E100

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

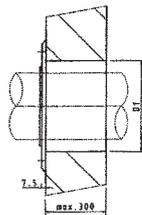
2001 505



Duct E100

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

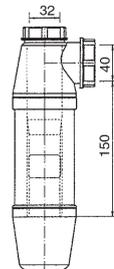
2001 507



Wall socket

Ø 150 mm, L = 300 mm
for wall duct

2001 419



Siphon for condensate removal

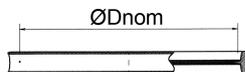
Ø 32 mm

2001 471

Condensate removal set

Ø 32 mm, 2 arch 90°, tube 500 mm

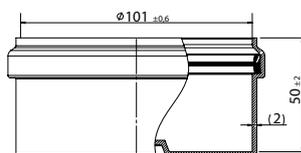
2001 472



Viton seal ring E100

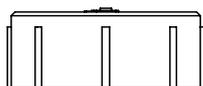
Ø 100 mm, for PP flue gas tube

2018 531



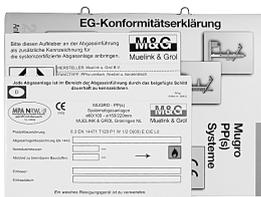
Flue gas system dummy plug-in sleeve D100/PP H = 50

2035 491



Measure opening cap grey 1/2"

2060 814

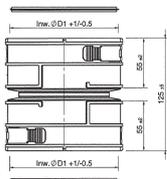
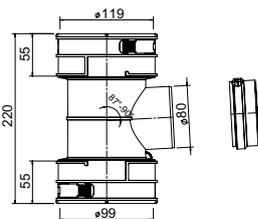
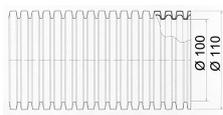
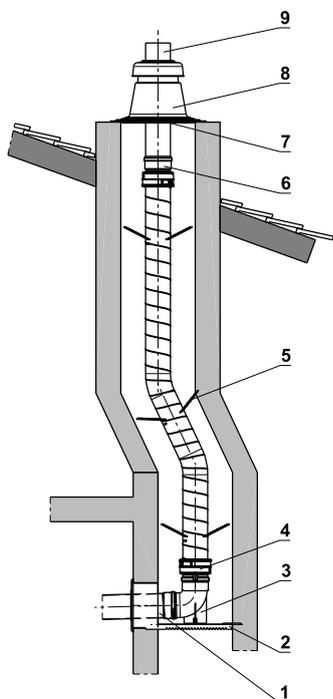


Approval stickers

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 working drawings

6009 755



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
consisting of parts:

- | | | |
|---|--|----------|
| 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
Metre ware
Price per metre
Max. length per bundle: 50 mm

**Inspection T-piece
E100 Flex-PP**

Connection piece E100 Flex-PP

Viton seal ring E100 Flex-PP

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 working drawings

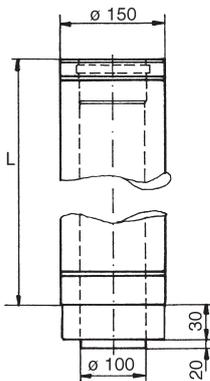
Part No.

- | |
|----------|
| 2001 480 |
| 619 303 |
| 2001 493 |
| 2008 135 |
| 2008 138 |
| 2008 133 |
| 2008 134 |
| 2001 504 |
| 2001 505 |
| 2008 140 |
| 2008 136 |
| 2008 137 |
| 2008 139 |
| 6009 755 |

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.

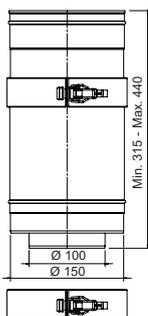
Concentrically mounted supply air pipe with 150 mm diameter made of galvanised steel plate, white (RAL 9016). System components to be joined using plug-in connectors with sealing ring and clamp tape.



Length element C100/150 PP

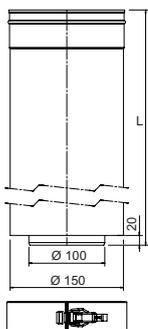
- L = 200 mm
- L = 450 mm
- L = 950 mm
- L = 1950 mm

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



Length adjustment piece C100/150 PP

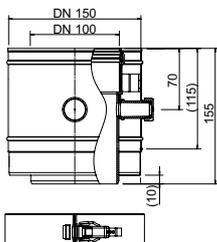
- 2015 251



Length element, can be shortened C100/150 PP

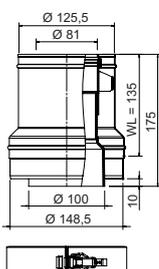
horizontal/vertical
L = 100 - 1000 mm

- 2015 250



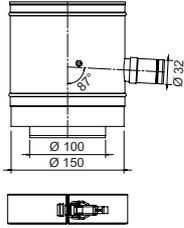
Length element C100/150
with measure opening for flue gas
and supply air.
L = 115 mm, PP

- 2015 252



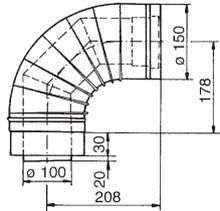
Concentric reducing part
C100/150 -> C80/125 PP
white coated

- 2025 334



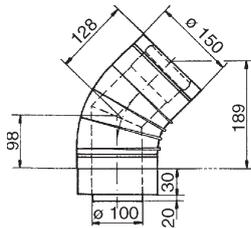
Condensate drain C100/150 PP
horizontal/vertical

2004 171



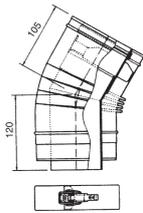
Arch C100/150 PP - 90°

2015 253



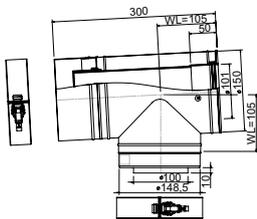
Arch C100/150 PP - 45°

2015 254



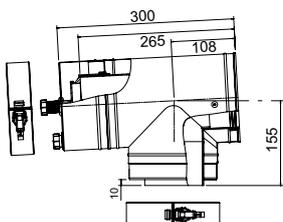
Arch C100/150 PP - 30°

2015 255



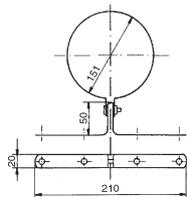
**Inspection T-piece
C100/150 PP - 90°**

2015 256



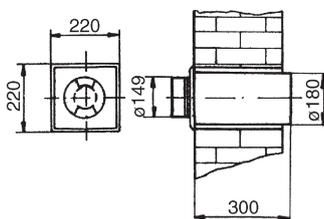
**T-piece C100/150 PP
with measure opening**
Aluminium
Connection piece

2015 257



Pipe clip C150
for wall mounting

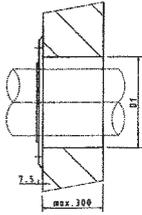
2001 433



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

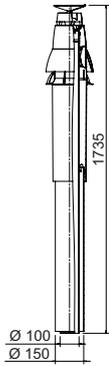
2001 434

Part No.



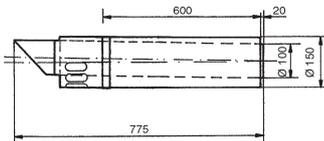
Wall socket
Ø 180 mm, L = 300 mm
for wall duct

2001 437



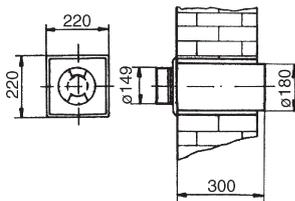
Supply air/Flue gas roof execution
C100/150, PP
incl. pipe clip
black coated
brick coated

2001 438
2001 439



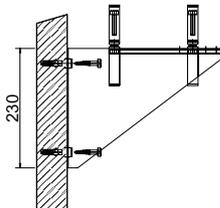
Supply air/Flue gas-roof execution
C100/150
incl. wall plate 220 x 220 mm
L = 600 mm

2001 436



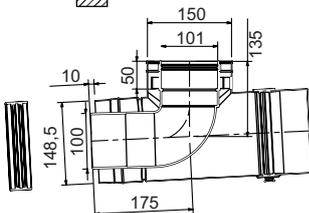
Concentric wall duct C100/150
for outside wall system
with 2 wall plates 220 x 220 mm
and wall socket Ø 180 x 300 mm
white coated (RAL 9016)

2025 704



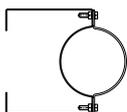
Outside wall support console Ø 150 mm
incl. mounting material, high grade steel

2025 705



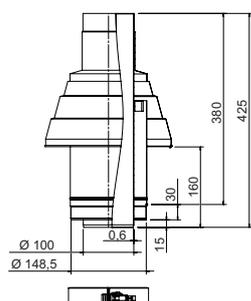
Arch T-piece C100/150
white coated (RAL 9016)

2038 105



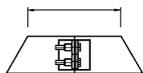
Outside wall distant holder Ø 150 mm,
incl. mounting material, high grade steel

2025 707

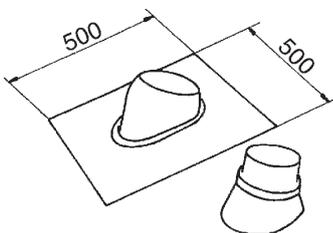


LAS mouth piece C100/150 PP
Flue gas tube of high grade steel
white coated (RAL 9016)

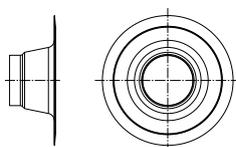
2025 708



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



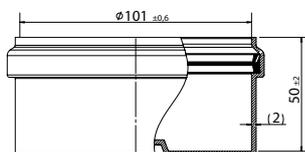
Lead pan with bowl C100/150
for roof duct (gradient 25-55° adjustable),
ground plate (500 x 500 mm),
black coated
brick coated



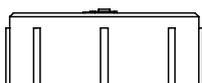
**Flange for flat roofs for
heating console on roof C100/150,**
Ø 390 mm, aluminium



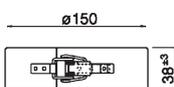
Viton seal ring E100
Ø 100 mm, for flue gas tube



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



Measure opening cap grey 1/2"



Clamp tape
Ø 150 mm, with integrated seal ring



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 working drawings

Part No.

2030 067

2001 440
2001 441

2001 442

2018 531

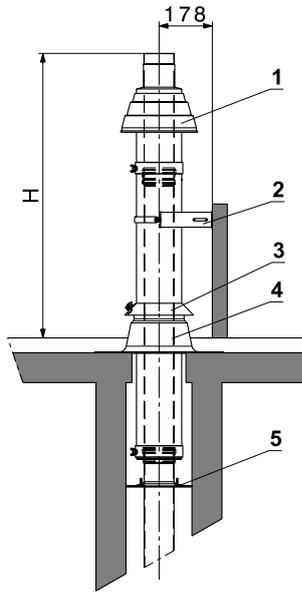
2035 491

2060 814

2001 444

6009 756

Room air dependent operation



- 1 LAS mouth piece C80/125 PP,
Flue gas tube of high grade steel
white coated (RAL 9016)
- 2 Supporting console (at place)
with outside distant holder of
high grade steel D = 150
- 3 Rain keep-off rail, black coated
D = 150 (RAL 9005)
- 4 Flat roof flange C100/150, aluminium
- 5 Distant holder E100 (set), black

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

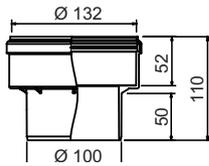
Part No.

2025 708
2025 707
2030 067
2001 442
2001 501

Part No.

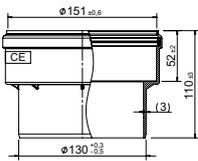
Exhaust and supply Ø 130 mm diameter PP pipe including handy sleeve coupling and double sealing ring for connecting the individual system components. Long term temperature resistance to 120° C.

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



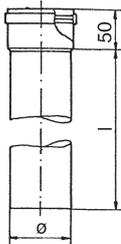
**Connection adapter
E100 -> E130 PP**

2025 751



Expansion piece E130 -> E150 PP

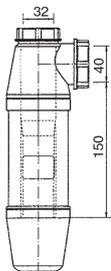
2070 792



Length element E130 PP

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

2025 720
2025 721
2025 722

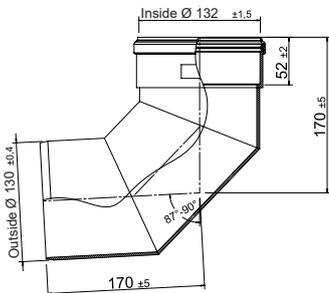


**Siphon for condensate removal
Ø 32 mm**

2001 471

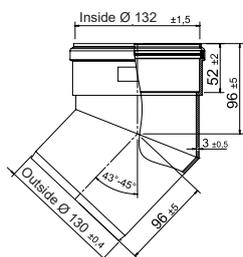
**Condensate removal set
Ø 32 mm, 2 arch 90°, tube 500 mm**

2001 472



Arch E130 - 90°

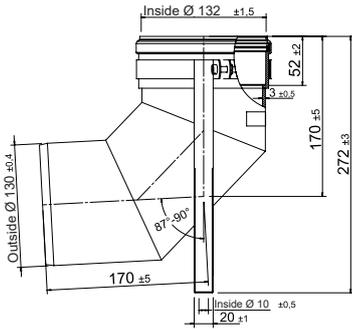
2025 737



Arch E130 - 45°

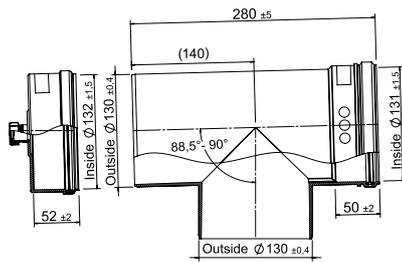
2025 738

Part No.



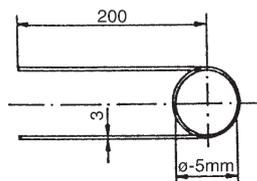
Support arch E130 - 90°

2025 743



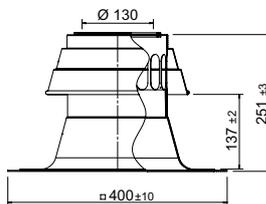
**Inspection T-piece E130 - 90°
with measure opening E 130 PP**

2025 758



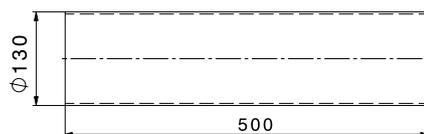
**Set (2 piece)
Distant holder E130
for tube centering**

2010 495



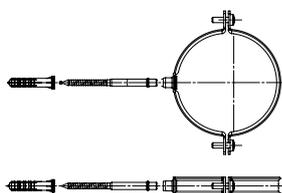
**Top part 130 for chimney end aluminium
for back ventilation with shaft cover**

2025 747



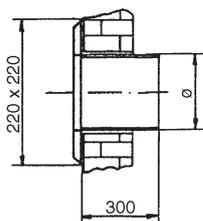
Mouth tube
High grade steel Ø 130, L = 500

2025 756



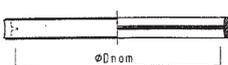
Pipe clip E130
for wall mounting

2010 496



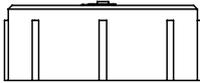
Duct E130
consisting of wall plate
(220 x 220 mm) with seal ring and
a duct tube (Ø 180 mm, L = 300 mm)

2010 494



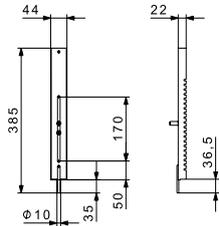
Viton seal ring E130
to flue gas tube

2025 749



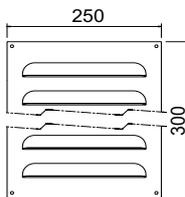
Measure opening cap grey 1/2"

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 working drawings

6009 755

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.

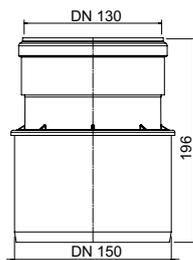
All long elements can be shortened. The cut edges must be smoothed to avoid damage to gas kit.

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

2029 956

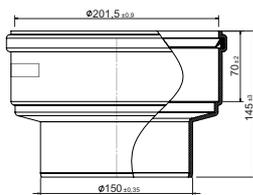
Reducing part
E150 ->130 PP

2025 718



Expansion piece E150 -> E200 PP

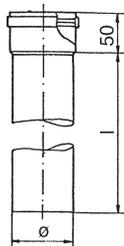
2070 793



Length element E150 PP

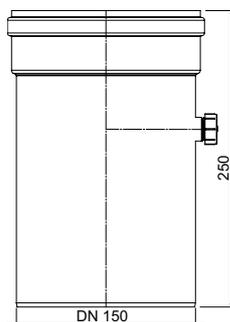
- L = 450 mm
- L = 950 mm
- L = 1950 mm

2025 734
2025 735
2025 736



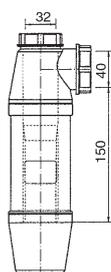
Length element with measure opening
E150 PP L = 250 mm

2025 753



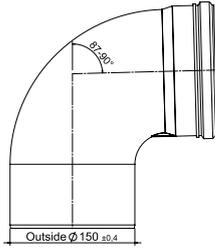
Siphon for condensate removal
Ø 32 mm

2001 471



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

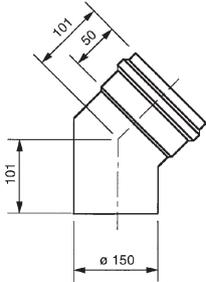
2001 472



Arch E150 - 90

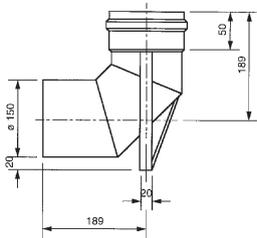
Part No.

2025 740



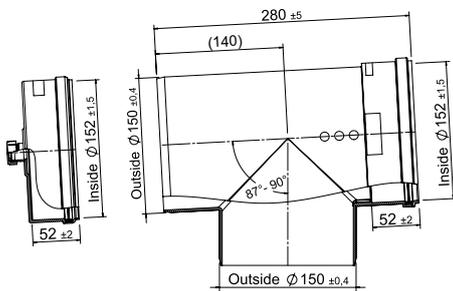
Arch E150 - 45°

2025 741



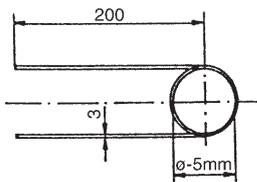
Support arch E150 - 90°

2025 744



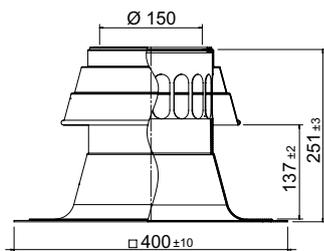
Inspection T-piece E150 - 90°
with measure opening E 150 PP,
L = 280 mm

2025 759



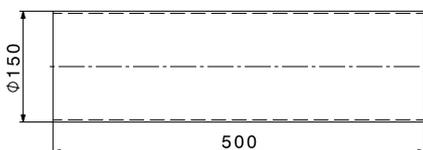
Set (2 piece)
Distant holder E150
for tube centering

2010 506



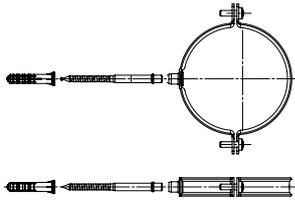
Top part 150 for chimney end aluminium
for back ventilation with shaft cover

2025 748



Mouth tube
High grade steel Ø 150 L = 500

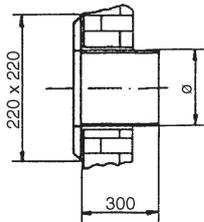
2025 757



Pipe clip E150
for wall mounting

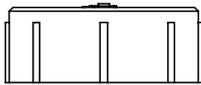
Part No.

2010 507



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

2010 512



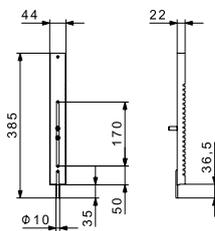
Measure opening cap grey 1/2"

2060 814



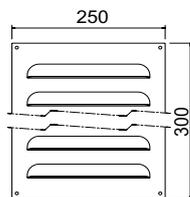
Viton seal ring E150
to flue gas tube

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



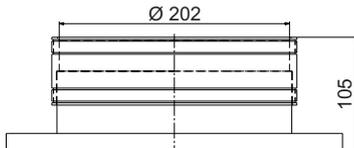
Approval stickers
consisting of the following
approval stickers (contained in a pouch):
- Flue gas tube PP Switzerland
- Flue gas tube PP Germany
- Flue gas tube PP Austria
- Approval notice and working drawings

6009 755

Part No.

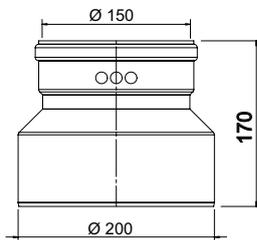
Exhaust and supply Ø 200 mm diameter PP pipe including handy sleeve coupling and double sealing ring for connecting the individual system components. Long term temperature resistance to 120° C.

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



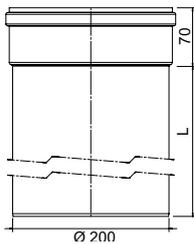
Flue gas connection D200
to UltraGas® (200-300)
Option
consisting of flue gas connection Ø 200 mm
and clamping flange with seal

6021 252



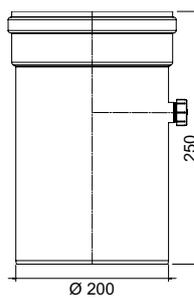
Reducing part
E200 -> 150 PP

2035 936



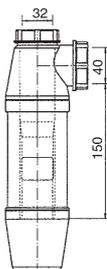
Length element E200 PP
L = 430 mm
L = 930 mm
L = 1930 mm

2035 937
2035 938
2035 939



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

2035 940



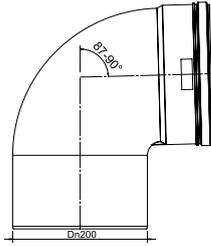
Siphon for condensate removal
Ø 32 mm

2001 471

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

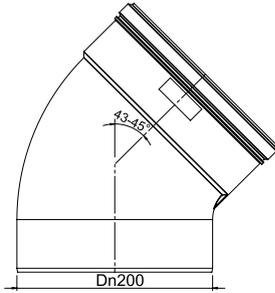
2001 472

Part No.



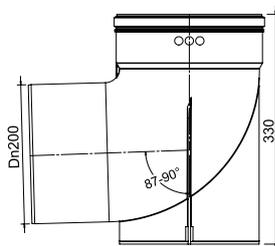
Arch E200 - 90°

2035 941



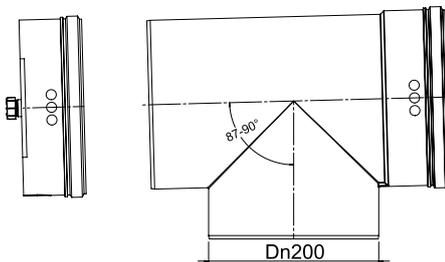
Arch E200 - 45°

2035 942



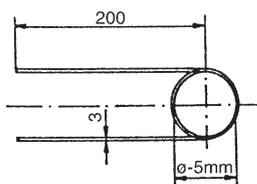
Support arch E200 - 90°

2035 943



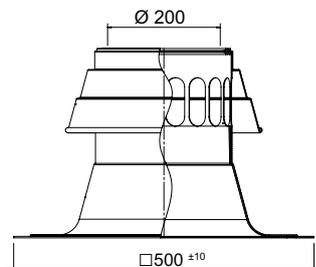
Inspection T-piece E200 - 90°
with measure opening

2035 944



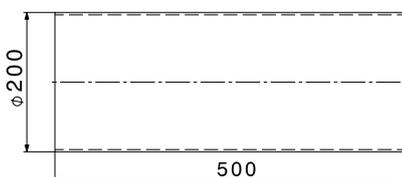
Set (2 pieces)
Distant holder E200
for tube centering

2035 945



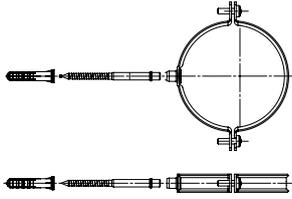
Top part 200 for chimney end aluminium
for back ventilation with shaft cover

2035 946



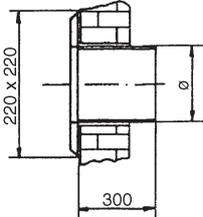
Mouth tube
High grade steel Ø 200 L = 500

2035 947



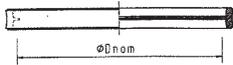
Pipe clip E200
for wall mounting

2035 948



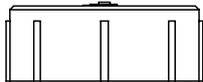
Duct E200
consisting of wall plate
(300 x 300 mm) with seal ring
and duct tube (Ø 250 mm, L = 300 mm)

2035 949



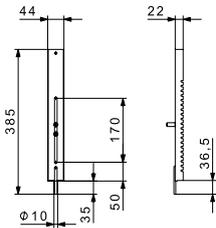
Viton seal ring E200
to flue gas tube

2035 950



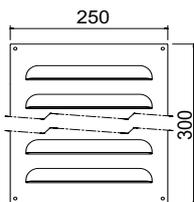
Measure opening cap grey 1/2"

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 working drawings

6009 755