



SINGLE-WALL AND INSULATED ACS
(AERIAL COMBUSTION SYSTEM) FOR POSITIVE
PRESSURE BURNING HEATING APPLIANCES
BURNING GAS OR OIL

KS KKK ZSS LMK PMP D
KZD **KK** SWR DKDKNSWR
SLIMKZD **KKD** KBKOKD
KPKDKTNKADKKDKZ
KPD SWRKNKAKKDKZD
KZDKTKDSLIMKDSWR
KKDKPMKPKZDKAKKD
SWRDKAKPM SLIMKPD
NKADKPMKKDKPKTKS
SLIMKKKZDKBKZDKKD
KTKPMKKDSWRKTDKN
KKSWRDKZDKPKBKZS



KK / KKD

Characteristics of KK / KKD system

KK and KKD system- pipes and fittings exhaust system for closed chamber heating appliances burning gas and fuel oil. KK system is produced from stainless steel of proper chemical composition, that guarantees its condensate-resistance. Silicone gaskets are to provide perfect tightness of connections. In addition to exhaust gas discharge, the KK system can also be used to supply air to the boiler. **The KKD system have 30 mm thermal insulation made of mineral wool.**

The main features of the KK / KKD system



The best quality



Resistance to corrosion caused by acids



Design and manufacturing accuracy



Easy installation

When KK / KKD system is to be used and what are its advantages

Condensate boiler is the very first and most relevant aspect that decides whether to choose that system. The specification of such a boilers requires application of chimney system of special material parameters as well as proper structure. First of all the system must be made of stainless steel, because during the combustion process of gas or fuel oil, some acidic oxides coming into existence and react with water to form an acid. Tightness of connections constitutes another relevant aspect. It should be provided by silicone gaskets. The tightness of the system is important because of following two reasons. As in every chimney system it is important that poisonous post-combustions do not get out of chimney ducts in places where it is considered as forbidden. Connection of elements should constitute a permanent barrier for condensates flowing off the walls of chimney shaft. Getting out condensates can lead to so called runs on the wall that is situated near the chimney duct, what is rather unwanted from the users' point of view.

External chimney is especially exposed to every temperature changes. As a result of chimney walls over chilling, it comes to fuel cooling and chimney draught disturbance. An insulation in KKD system is to protect from such an effect.

KK and KKD system was designed regarding to above mentioned aspects in such a way that it can work for years as well as preserve its elementary functions. Stainless steel of a proper composition and high technological parameters guarantees corrosion resistance caused by acids. Thanks to applying of gaskets of proper strength the system ensures 100 per cent of its tightness and users safety.

KK

Technical data



| | |
|-----------------------|-----------------------------------------------------------|
| Destination | Closed chamber heating appliances |
| Fuel type | Gas/ fuel oil |
| Available diameters | Dn 60-Dn 300, larger diameters upon individual request |
| Steel thickness | 0,5 mm |
| Type of steel | 1.4301, 1.4404, 1.4301 or other according to PN-EN 1856-1 |
| Type of connection | Socket with gasket |
| Temperature class | T 200 |
| Pressure class | P2 (pressure of 200Pa) |
| Operation mode | Positive pressure |
| Condensate resistance | W |
| Corrosion resistance | Vm |

KKD

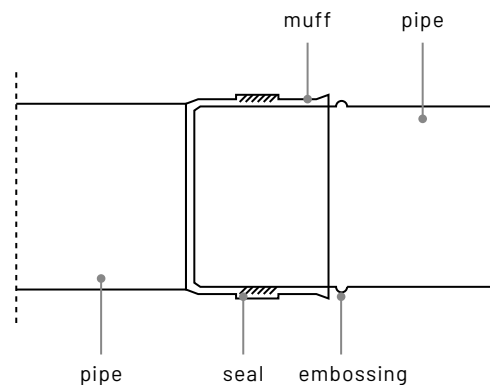
Technical data



| | |
|---------------------------|----------------------------------------------------------------------------------------------|
| Destination | Closed chamber heating appliances |
| Fuel type | Gas/ fuel oil |
| Available diameters | Dn 60-Dn 300, larger diameters upon individual request |
| Core steel thickness | 0,5 mm |
| Thickness of jacket steel | 0,5 mm |
| Insulation | Mineral wool, thickness 30mm, density 100 kg/m ³ , other upon individual request. |
| Type of steel | 1.4301, 1.4404, 1.4301 or other according to PN-EN 1856-1 |
| Type of connection | Socket with gasket |
| Temperature class | T 200 |
| Pressure class | P2 (pressure of 200Pa) |
| Operation mode | Positive pressure |
| Condensate resistance | W |
| Corrosion resistance | Vm |

Connection of KK / KKD system components

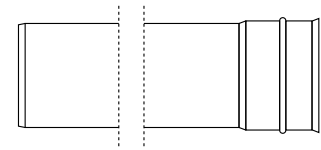
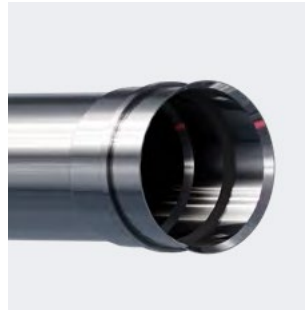
KK / KKD system components are connected by socket system. Thanks to such connection the structure of the liner is stiff and connections are tight



Pipe

| | | | | |
|-------|------|--------|--------|--------|
| Index | | KK-R10 | KK-R05 | KK-R02 |
| L | [mm] | 1000 | 500 | 250 |

| | | | | |
|------------|------|---------|---------|---------|
| Index | | KKD-R10 | KKD-R05 | KKD-R02 |
| L | [mm] | 1000 | 500 | 250 |
| Insulation | [mm] | 30 | 30 | 30 |



L=1000



L=500



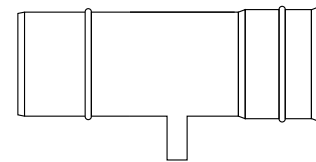
L=250

| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Pipe with condenser

| | |
|-------|----------|
| Index | KK-R02-0 |
|-------|----------|

| | |
|-----------------|-----------|
| Index | KKD-R02-0 |
| Insulation [mm] | 30 |

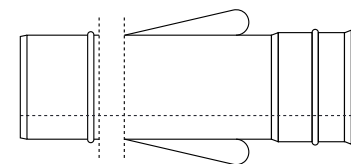


| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Pipe with stabilizer

| | | | | |
|-------|------|---------|---------|---------|
| Index | | KK-RU10 | KK-RU05 | KK-RU02 |
| L | [mm] | 1000 | 500 | 250 |

| | | | | |
|------------|------|----------|----------|----------|
| Index | | KKD-RU10 | KKD-RU05 | KKD-RU02 |
| L | [mm] | 1000 | 500 | 250 |
| Insulation | [mm] | 30 | 30 | 30 |

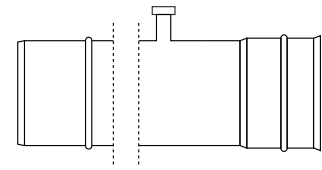


| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Pipe with connection 1/2"

| | | | | |
|-----------------|--|----------|----------|----------|
| Index | | KK-RKC10 | KK-RKC05 | KK-RKC02 |
| Długość L2 [mm] | | 1000 | 500 | 250 |

| | | | | |
|-----------------|--|-----------|-----------|-----------|
| Index | | KKD-RKC10 | KKD-RKC05 | KKD-RKC02 |
| L [mm] | | 1000 | 500 | 250 |
| Insulation [mm] | | 30 | 30 | 30 |

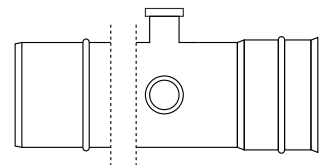


| | | | | | | | | | | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Pipe with connection M64x4

| | | | | |
|-----------------|--|----------|----------|----------|
| Index | | KK-RKM10 | KK-RKM05 | KK-RKM02 |
| Długość L2 [mm] | | 1000 | 500 | 250 |

| | | | | |
|-----------------|--|-----------|-----------|-----------|
| Index | | KKD-RKM10 | KKD-RKM05 | KKD-RKM02 |
| L [mm] | | 1000 | 500 | 250 |
| Insulation [mm] | | 30 | 30 | 30 |

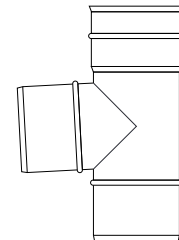


| | | | | | | | | | | | | | | |
|--------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters [mm] | - | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness [mm] | - | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Tee-pipe 87°

| | | |
|-------|--|---------|
| Index | | KK-TR87 |
|-------|--|---------|

| | | |
|-----------------|--|----------|
| Index | | KKD-TR87 |
| Insulation [mm] | | 30 |

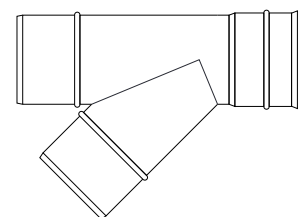


| | | | | | | | | | | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Tee-pipe 45°

| | | |
|-------|--|---------|
| Index | | KK-TR45 |
|-------|--|---------|

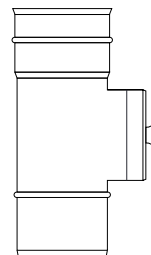
| | | |
|-----------------|--|----------|
| Index | | KKD-TR45 |
| Insulation [mm] | | 30 |



| | | | | | | | | | | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Cleanout tee with cover

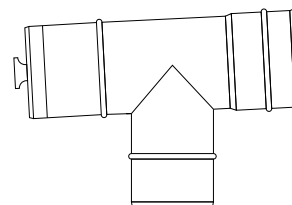
| | |
|-----------------|---------|
| Index | KK-WTD |
| Index | KKD-WTD |
| Insulation [mm] | 30 |



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Horizontal cleanout tee with cover 87°

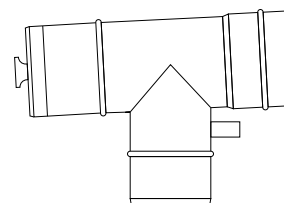
| | |
|-----------------|------------|
| Index | KK-WTDP87 |
| Index | KKD-WTDP87 |
| Insulation [mm] | 30 |



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Horizontal cleanout tee with cover and condenser 87°

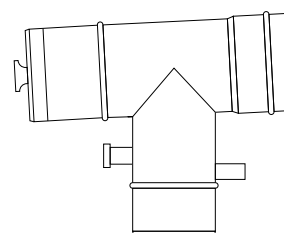
| | |
|-----------------|--------------|
| Index | KK-WTDP87-0 |
| Index | KKD-WTDP87-0 |
| Insulation [mm] | 30 |



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Horizontal cleanout tee with cover, condenser and connection 87°

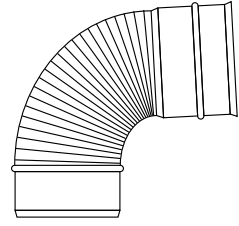
| | |
|-----------------|----------------|
| Index | KK-WTDPKC87-0 |
| Index | KKD-WTDPKC87-0 |
| Insulation [mm] | 30 |



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Elbow 87°

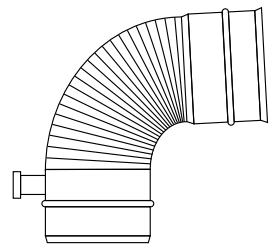
| | |
|-----------------|---------|
| Index | KK-K87 |
| Index | KKD-K87 |
| Insulation [mm] | 30 |



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Elbow 87° with connection

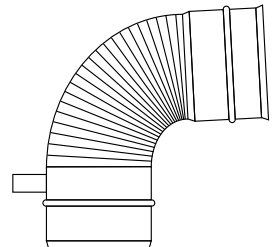
| | |
|-----------------|-----------|
| Index | KK-KKC87 |
| Index | KKD-KKC87 |
| Insulation [mm] | 30 |



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Elbow 87° with condenser

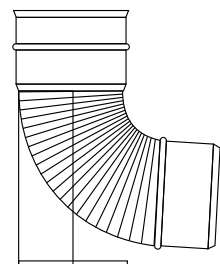
| | |
|-----------------|-----------|
| Index | KK-K87-0 |
| Index | KKD-K87-0 |
| Insulation [mm] | 30 |



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Elbow 87° with foot

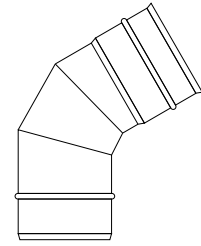
| | |
|-----------------|----------|
| Index | KK-KS87 |
| Index | KKD-KS87 |
| Insulation [mm] | 30 |



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Elbow 60°

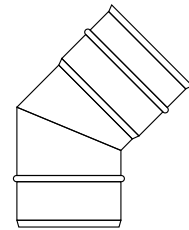
| | |
|-----------------|---------|
| Index | KK-K60 |
| Index | KKD-K60 |
| Insulation [mm] | 30 |



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Elbow 45°

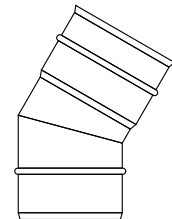
| | |
|-----------------|---------|
| Index | KK-K45 |
| Index | KKD-K45 |
| Insulation [mm] | 30 |



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Elbow 30°

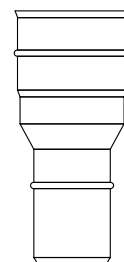
| | |
|-----------------|---------|
| Index | KK-K30 |
| Index | KKD-K30 |
| Insulation [mm] | 30 |



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Conical reduction

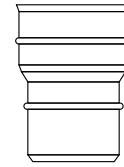
| | |
|-----------------|--------|
| Index | KK-RS |
| Index | KKD-RS |
| Insulation [mm] | 30 |



| | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Stamped reduction

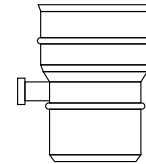
Index KK-RR



| | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Stamped reduction with connection

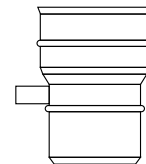
Index KK-RRKC



| | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Stamped reduction with condenser

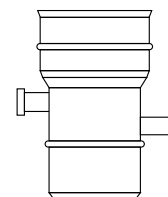
Index KK-RR-0



| | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Stamped reduction with connection and condenser

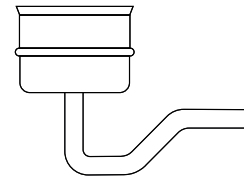
Index KK-RRKC-0



| | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Condensate collector with siphon

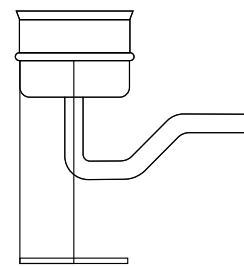
| | |
|-----------------|-------|
| Index | KK-0 |
| Index | KKD-0 |
| Insulation [mm] | 30 |



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Condensate collector with siphon and foot

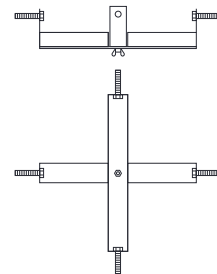
| | |
|-----------------|---------|
| Index | KK-OSS |
| Index | KKD-OSS |
| Insulation [mm] | 30 |



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Cross base

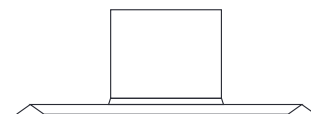
| | |
|-------|--------|
| Index | KK-OPC |
|-------|--------|



| | | |
|---------------------------|------|---------|
| Dimensions | [mm] | 256x256 |
| Available steel thickness | [mm] | 0,5 mm |

Pass-through

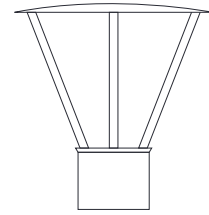
| | |
|-------|-------|
| Index | KK-PR |
|-------|-------|



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Cap

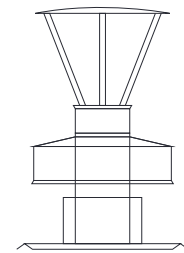
Index KK-D



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Vertical flue gas out with pass-through

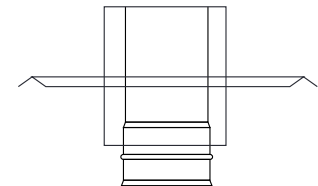
Index KK-PZ



| | | | | |
|---------------------------|------|--------|--------|---------|
| Diameters | [mm] | 60/100 | 80/125 | 100/150 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 |

Connector of system KK and KP

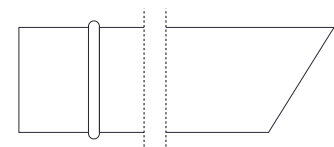
Index KK-ZKP



| | | | | |
|---------------------------|------|--------|--------|---------|
| Diameters | [mm] | 60/100 | 80/125 | 100/150 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 |

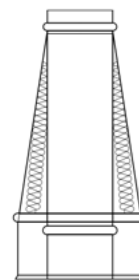
Horizontal flue gas out

Index KK-ZB



Insulated coning

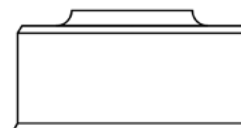
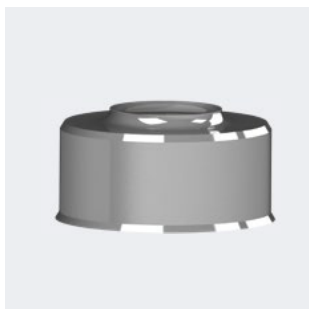
| | |
|-----------------|-------|
| Index | KKD-U |
| Insulation [mm] | 30 |



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Top completion of insulation

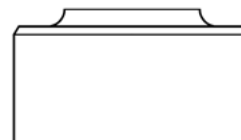
| | |
|-------|---------|
| Index | KKD-ZIG |
|-------|---------|



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Bottom completion of insulation

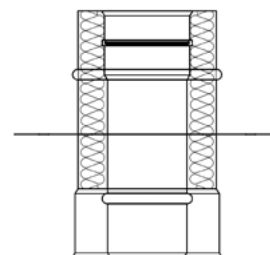
| | |
|-------|---------|
| Index | KKD-ZID |
|-------|---------|



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Supporting construction

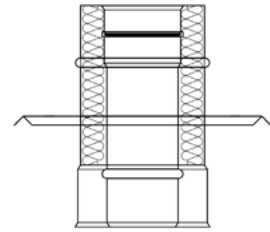
| | |
|-----------------|--------|
| Index | KKD-KO |
| Insulation [mm] | 30 |



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Insulated pass-through

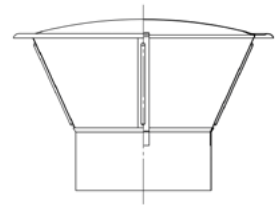
| | |
|-----------------|--------|
| Index | KKD-PD |
| Insulation [mm] | 30 |



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Cap (1)

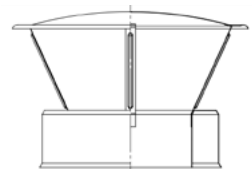
| | |
|-------|-----------|
| Index | KKD-D(W1) |
|-------|-----------|



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Cap (2)

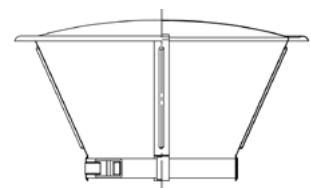
| | |
|-------|-----------|
| Index | KKD-D(W2) |
|-------|-----------|



| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Cap (3)

| | |
|-------|-----------|
| Index | KKD-D(W3) |
|-------|-----------|

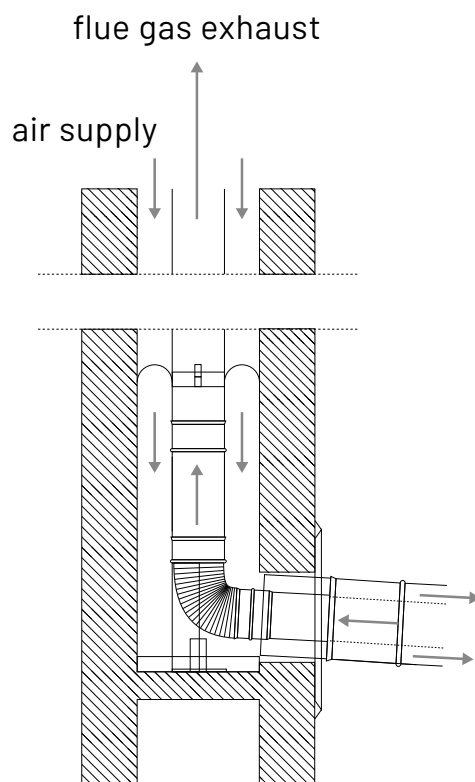


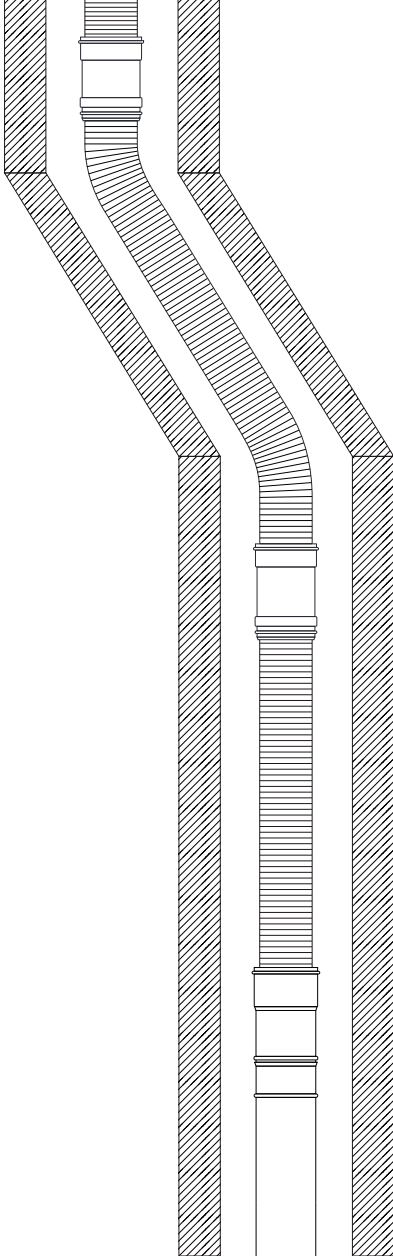
| | | | | | | | | | | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | 60 | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Centering basic set

Index PAK-KK

| Index | Set elements |
|---------|-------------------------------|
| KK-OPC | Cross base |
| KK-KS87 | Elbow 87° with foot |
| KK-ZKP | Connector of system KK and KP |
| KK-R02 | Pipe L=250 mm |





MAXIFLEX®

System of flexible liners with kit of top, bottom and middle adapters.

The system of flexible pipes - **MAXIFLEX®** with the kit of fitting is included to the KK system as its following element.

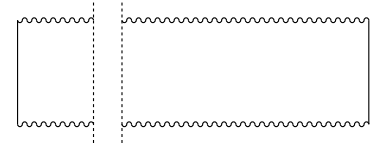
Flexible pipes constitute ideal solution for chimney shafts with irregular surface or necessity of change of chimney duct direction. The system of flexible pipes enables much easier installation when additional elements (special elbows) are necessary for the change of direction of the liner. Instead of complicated construction and impeded installation we have got one duct that replaces whole extended construction of the crossing that is result of necessity of change the liner direction. It is an economical and practical solution.

MAXIFLEX® is for closed chamber heating appliances burning gas and fuel oil. It is produced from stainless steel of proper chemical composition, that guarantees its condensate-resistance. It is easy to install and gives possibility of matching the length- up to dozen and so meters - of every duct - without the necessity of connecting smaller elements.



Flexible pipe MAXIFLEX®

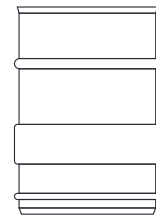
Index KK-RMFX



| | | | | | | | | | | | | | | | |
|---------------------------|------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | - | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | - | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Top adapter MAXIFLEX®

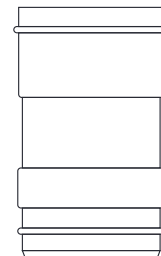
Index KK-ZGMFX



| | | | | | | | | | | | | | | | |
|---------------------------|------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | - | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | - | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Middle adapter MAXIFLEX®

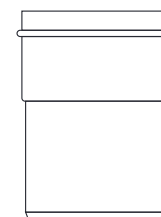
Index KK-ZPMFX



| | | | | | | | | | | | | | | | |
|---------------------------|------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | - | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | - | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

Bottom adapter MAXIFLEX®

Index KK-ZDMFX

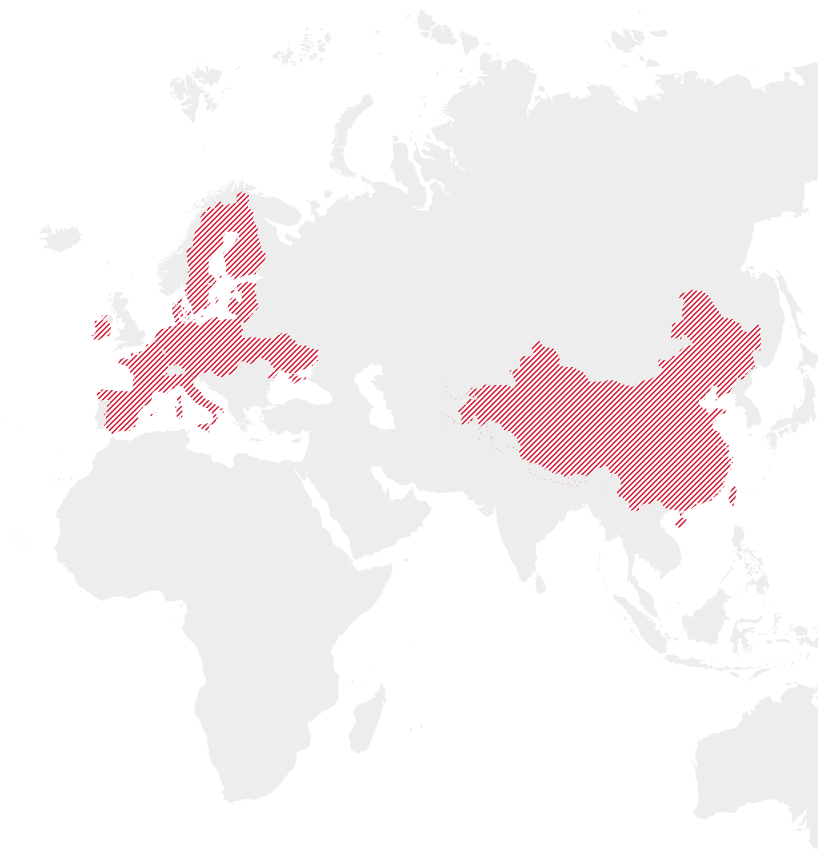


| | | | | | | | | | | | | | | | |
|---------------------------|------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Diameters | [mm] | - | 80 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 225 | 250 | 300 |
| Available steel thickness | [mm] | - | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

We are open to the whole world!

The great capacity of our production facilities and the experience we have gained over many years allows us to develop our company through international cooperation. As a result, we are looking beyond the borders of Poland.

To this date, the steel components we produce have been supplied to European countries such as Austria, Germany, France, Italy, Sweden, Finland, Denmark, the Netherlands, the Czech Republic, Slovakia, and Lithuania, among others.



Count on an experienced company! Get in touch with us!

Kominus Polska Sp. z o.o. (Ltd.)

Address:
Lezkowice 112
32-015 Klaj
Poland
VAT PL683 20 71 083

Export Department
export@kominus.com.pl

C: +48 694 458 674
C: +48 664 789 675

Technical and Product
Development Department
techniczny@kominus.com.pl



We Are Made of Steel



**Kominus Polska Headquarters
and main production facility**

www.kominus.com.pl

 / kominuscompl

 / kominus-polska

 / kominus_polska