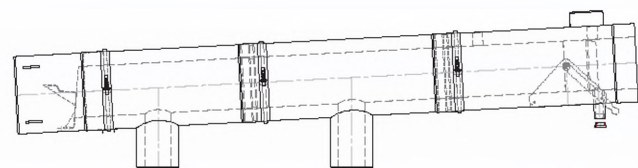# DOUBLE-WALL SYSTEM

**MKPS LAS** The balanced-flue system designed for installation in buildings with **multiple floors and connecting buildings in a one installation. It also allows** for a complete independence of particular boilers at many floors. The system can also build a cascade, which allows for the boilers connected in series to evacuate fumes to a common duct. It comes in Premium version for gas and oil. The system can operate only in wet working conditions at temperatures up to 200°C.
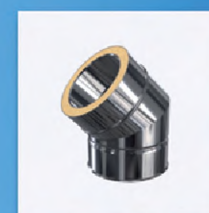
PREMIUM

**MKDT** System for power generators. The most characteristic feature of the system is the high pressure resistance - up to 5000 Pa. Thanks to the special connection of the elements on the jacket pipes using heat-resistant silicone and the so called free core, which can expand at high temperatures, the system works perfectly with even the strongest power generators.

**AKCESORIA** Each system has an additional group of items called accessories. Accessories for single-wall systems is a universal group that fits all single-wall systems. In the case of double-wall systems, accessories fit all double-wall systems except for the MKDZ system which due to the insulation thickness of 60 mm has a separate group of accessories.

Certificates are available on www.mkzary.pl page

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www.mkzary.pl

# CHIMNEY SYSTEMS

# A SHORT GUIDE

**MKS** The single-wall system used as a liner for open combustion chamber boilers or as connection elements for insulated chimneys. This allows for the modernization of boiler houses and adaptation of old chimney to the new working conditions. It comes in two versions: Premium for gas, oil, wood, pellets. Standard for boilers working on gas and oil. The system can operate only in dry working conditions at temperatures up to 450°C. It is also available in oval and rectangular version.

PREMIUM

STANDARD

**MKKS** The single-wall system used for boilers using condensation of steam generated during combustion (condensing and turbo boilers). It can serve as a chimney liner for such boilers. The system has grooves for gaskets, and all elements of the system are air tight. It comes in two versions: Premium for gas, oil, wood, pellets. Standard for boilers working on gas and oil. The system can operate only in wet working conditions at temperatures up to 200°C.
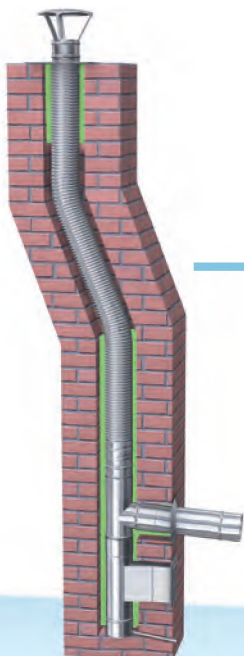
PREMIUM

STANDARD

**MKSZ** The single-wall heat-resistant system used as a chimney liner for boilers working on solid fuel. This allows for the modernization of boiler houses and adaptation of old chimney to the new working conditions. It is available in version: Premium for coal, wood, pellets, pea coal. The system can operate only in dry working conditions at temperatures up to 450°C.

PREMIUM

**MK Nero** The system of connection pieces for fireplaces made of black steel, painted with Senotherm paint.

**MK Flex** The single-wall system used as a liner for the flue gas from open combustion chamber boilers or ventilation. This allows for the modernization of boiler houses and adaptation of old chimney to the new working conditions, in particular in the ducts with offsets. It comes in two versions: Steel for boilers working on gas and oil. Aluminum for ventilation. The system can operate only in dry working conditions, in the steel version at temperatures up to 600°C, in the aluminum version up to 200°C.

MK Flex

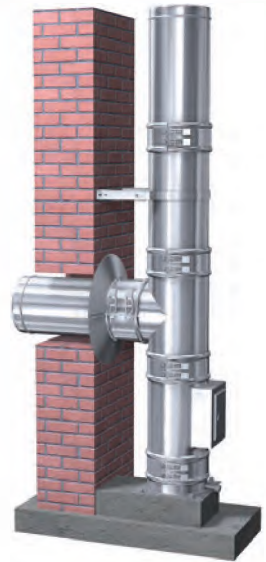Flex ALU

## KEY

| | | |
|---|---|---|
| Round shape | Rectangular shape | Gas, fuel oil |
| Oval shape | Used for ventilation purposes | Wood |

| | |
|---|---|
| Solid fuels | Core steel grade |
| Solid fuels, pea coal | Thickness of insulation |

**MKD** The double-wall insulated system used as a standalone external chimney for open combustion chamber boilers and fireplaces. It allows for setting the heating unit (furnace, fireplace) anywhere in the facility. The chimney is carried outside and mounted on the wall. It comes in two versions: Premium for gas, oil, wood, pellets. Standard for boilers working on gas and oil The system can operate only in dry working conditions at temperatures up to 600°C.

PREMIUM — 30 MM · 1.4404 · 0,6-1,0 · 600°C · 10 YEARS · CE

STANDARD — 30 MM · 1.4521 · 0,5-1,0 · 600°C · 5 YEARS · CE

**MKKD** The double-wall insulated system used as a standalone external chimney for boilers using condensation of steam generated during combustion (condensing and turbo boilers). It allows for setting the heating unit (condensing or turbo boiler) anywhere in the facility. The chimney is carried outside and mounted on the wall. The system has grooves for gaskets, and all elements of the system are air tight. It comes in two versions: Premium for oil, gas, wood. Standard for boilers working on gas and oil. The system can operate only in wet working conditions at temperatures up to 200°C.

PREMIUM — 30 MM · 1.4404 · 0,6 · 200°C · 10 YEARS · CE

STANDARD — 30 MM · 1.4521 · 0,5-0,6 · 200°C · 5 YEARS · CE

**MKDZ** The bold-insulated double-wall system used as a standalone external chimney for solid fuel fired boilers. It allows for setting the heating unit anywhere in the facility. The chimney is carried outside and mounted on the wall. It comes in version: Premium for coal, wood, pellets, pea coal. The system can operate only in dry working conditions at temperatures up to 600°C.

PREMIUM — ECO · 60 MM · 1.4404 · 0,8-1,0 · 600°C · 5 YEARS · CE

**ZEN**

**ZEN** The double-wall insulated system used as a standalone external chimney for open combustion chamber boilers and fireplaces. It allows for setting the heating unit (furnace, fireplace) anywhere in the facility. The chimney is carried outside and mounted on the wall. The system is designed so that it can be installed without using locking bands. It has a unique designer look. It comes in diameters: 130, 150, 180, 200. It comes in version: Premium for coal, wood, pellets. The system can operate only in dry working conditions at temperatures up to 600°C.

PREMIUM — 30 MM · 1.4404 · 0,6 · 600°C · CE

**MKPS** The double-wall system without insulation (so called balanced flue), most commonly used as a connection (along with the MKKS) or a standalone chimney for condensing and turbo boilers. The inner pipe is used to evacuate the fumes from the boiler, the channel between the outer pipe and the inner pipe provides an air supply to the boiler. The system has the grooves for gaskets. It is available in version: Premium for gas and oil. The system can operate only in wet working conditions at temperatures up to 200°C.

PREMIUM — 1.4521 · 0,5 · 200°C · 5 YEARS · CE

Fumes

Combustion air

## KEY

| | | | |
|---|---|---|---|
| 200°C Maximum operating temperature | CE CE Certificate | System operating in negative pressure (without gasket) | System operating in wet working conditions |
| 0,5-0,8 Material thickness | 1 YEAR Warranty | System operating in positive pressure (with gasket) | System operating in dry working conditions |