

EPP plenum box for air valve

FLX-PLO-EPP-90



Description

The FLX-PLO-EPP-90 plenum boxes are part of the FLX-REKU air distribution system designed for domestic mechanical ventilation systems, so-called the MVHR system, to which an air valve and FLX-HDPE / FLX-HDPE-A ducts with a diameter of Ø90 are mounted.

Due to their small size, they do not require much space or special installation. This allows achieving a larger usable floor area of the room.

The FLX-PLO-EPP-90 plenum boxes are made of expanded polypropylene, i.e. EPP. The material used allows obtaining an aerodynamic shape of the inside of the box which leads to low air resistance.

Key features:

- EPP is an insulation material $\lambda=0.0038$, the wall thickness is about 8 to 31 mm,
- the profiled internal shape of the box reduces pressure drops,
- "double" FLX-HDPE-A duct fixing - the male connection spigot with a gasket on the inside and EPP casing on the outside,
- the plenum boxes do not corrode,
- spigot (d_1) for an air valve with graduation to be cut to size as required - 40, 60, or max. 80 mm,
- 2 installation methods - with 3 screws and wall plugs or with 17-25 mm-wide PB perforated tape.

The FLX-PLO-EPP-90 plenum boxes are equipped with TPE gasket on $\text{Ø}d_2$ spigots as a standard - such connection with FLX-HDPE-A ducts is airtight and easy to make. For building residential ventilation systems in ATC2 (D) air-tightness class acc. to EN 17192:2018.

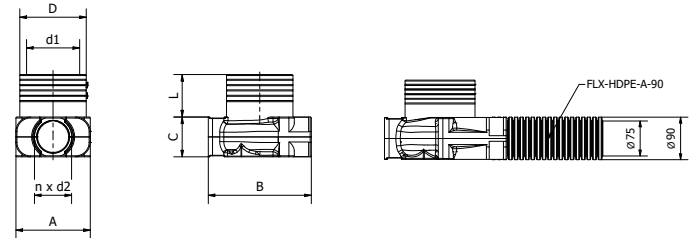
Product code example

Product code **FLX-PLO-EPP - 90 - 2 - 125 - F**

type _____
 diameter $\text{Ø}d_2$ _____
 number of spigots n _____
 diameter $\text{Ø}d_1$ _____
 female connection _____

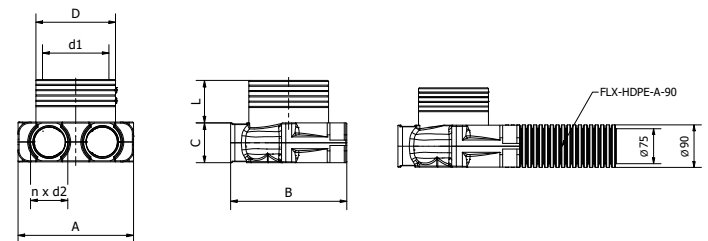
Dimensions

FLX-PLO-EPP-90-1-125-F



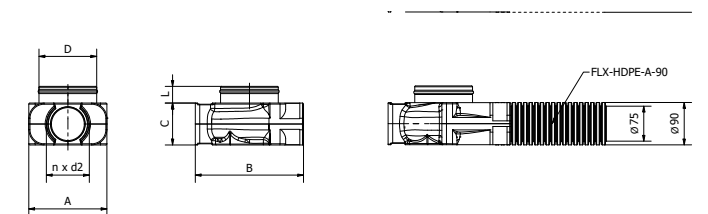
Code	n	$\text{Ø}d_2$ [mm]	$\text{Ø}d_1$ [mm]	A [mm]	B [mm]	C [mm]	L [mm]	$\text{Ø}D_1$ [mm]
FLX-PLO-EPP-90-1-125-F	1	90	125	168	233	90	80	150

FLX-PLO-EPP-90-2-125-F



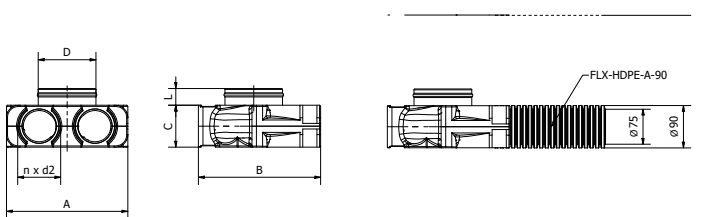
Code	n	$\text{Ø}d_2$ [mm]	$\text{Ø}d_1$ [mm]	A [mm]	B [mm]	C [mm]	L [mm]	$\text{Ø}D_1$ [mm]
FLX-PLO-EPP-90-2-125-F	2	90	125	261	263	90	80	150

FLX-PLO-EPP-90-1-125



Code	n	$\text{Ø}d_2$ [mm]	$\text{Ø}d_1$ [mm]	A [mm]	B [mm]	C [mm]	L [mm]	$\text{Ø}D_1$ [mm]
FLX-PLO-EPP-90-1-125	1	90	-	168	233	90	36	124

FLX-PLO-EPP-90-2-125



Code	n	$\text{Ø}d_2$ [mm]	$\text{Ø}d_1$ [mm]	A [mm]	B [mm]	C [mm]	L [mm]	$\text{Ø}D_1$ [mm]
FLX-PLO-EPP-90-2-125	2	90	-	621	263	90	36	124

EPP plenum box for air valve

FLX-PLO-EPP-90

Types of plenum boxes

Sleeve collar for valve with cutting marks



The nipple collar allows the box outlet to be extended using a standard ventilation duct



The profiled internal shape of the box reduces pressure drops



The FLX-CS-PVC end caps fit the $\varnothing d_2$ connection spigots of FLX-PLO-EPP-F plenum boxes.



Service temperature	-25°C to +80°C	PN-EN 17192:2019
Reaction to fire	E	EN 13501-1
Thermal conductivity	$\lambda = 0,0038 \text{ W/(m}\cdot\text{k)}$	PN-EN 12664:2002
Microbial resistance	1a	Method A PN-EN ISO 846:2019

Examples of use

FLX-PLO-EPP-F
female connection



FLX-PLO-EPP
male connection



How to order

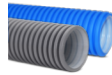
Code: FLX-PLO-EPP- $\varnothing d_2$ -n- $\varnothing d_1$ -F

typ FLX-PLO-EPP-90
 $\varnothing d_2$ FLX-HDPE ducting diameter
 n number of spigots for FLX-HDPE ducting (1,2)
 $\varnothing d_1$ air valve diameter
 F female connection

You may also need:



Air valve:
KN, KW



Semi-rigid ducting:
FLX-HDPE / FLX-HDPE-A



End caps:
FLX-CS-PVC



Extension pipe for FLX-PLO-EPP plenum box
for air valve

Plenum boxes with long connection spigot for air valve

FLX-PLO-EPP-L30-90



Description

The FLX-PLO-EPP-L30-90 plenum boxes are part of the FLX-REKU air distribution system designed for domestic mechanical ventilation systems, so-called the MVHR system, to which an air valve and FLX-HDPE / FLX-HDPE-A ducts with a diameter of Ø90 mm are mounted.

L version allows to install the valve through a concrete ceiling or a thick wall.

The LX-PLO-EPP-L30-90 plenum boxes are made of expanded polypropylene, i.e. EPP, while Ø90 mm spigots are made of ABS.

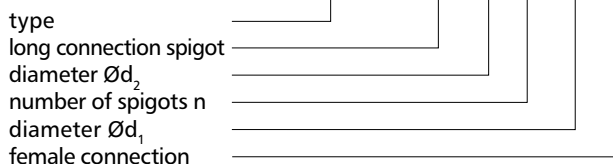
Key features:

- EPP is an insulation material $\lambda=0.0038$, the wall thickness is about 8 to 31 mm,
- "double" FLX-HDPE-A duct fixing - the male connection spigot with a gasket on the inside and EPP casing on the outside,
- the plenum boxes do not corrode,
- long connection spigot ($\text{Ø}d_1$) for the air valve has 300 mm,
- 2 installation methods - with screws and wall plugs or with 17-25 mm-wide PB perforated tape.

The LX-PLO-EPP-L30-90 plenum boxes are equipped with TPE gasket on $\text{Ø}d_2$ spigots as a standard - such connection with FLX-HDPE-A ducts is airtight and easy to make. For building residential ventilation systems in ATC2 (D) air-tightness class acc. to EN 17192:2018.

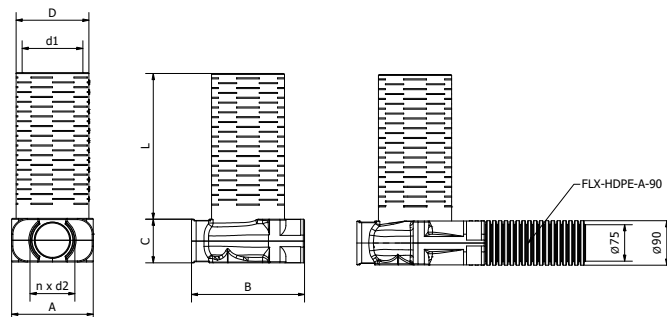
Example of designation

Product code **FLX-PLO-EPP - L30 - 90 - 2 - 125 - F**



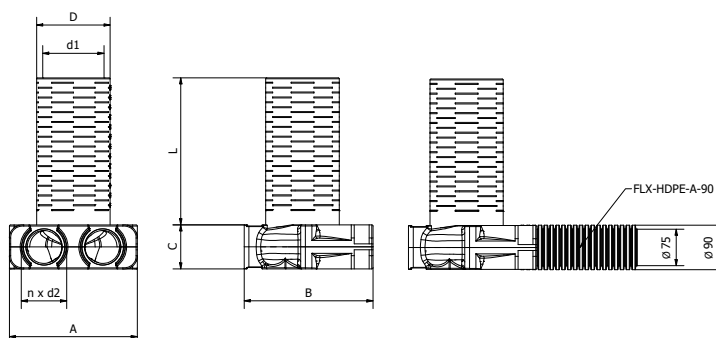
Dimensions

FLX-PLO-EPP-L30-90-1-125-F



Code	n	$\text{Ø}d_2$ [mm]	$\text{Ø}d_1$ [mm]	A [mm]	B [mm]	C [mm]	L [mm]	$\text{Ø}D_1$ [mm]
FLX-PLO-EPP-L30-90-1-125-F	1	90	125	168	233	90	300	150

FLX-PLO-EPP-L30-90-2-125-F



Code	n	$\text{Ø}d_2$ [mm]	$\text{Ø}d_1$ [mm]	A [mm]	B [mm]	C [mm]	L [mm]	$\text{Ø}D_1$ [mm]
FLX-PLO-EPP-L30-90-2-125-F	2	90	125	261	263	90	300	150

Plenum boxes with long connection spigot for air valve

FLX-PLO-EPP-L30-90

Service temperature	-25°C do +80°C	PN-EN 17192:2019
Reaction to fire	E	EN 13501-1
Thermal conductivity	$\lambda = 0,0038 \text{ W/}$ (m·k)	PN-EN 12664:2002
Microbial resistance	1a	Metoda A PN-EN ISO 846:2019

Performance versions:

FLX-PLO-EPP-L30-90-1-125-F



FLX-PLO-EPP-L30-90-2-125-F

