EPP plenum box for air valve

FLX-PLO-EPP-F

Description

The FLX-PLO-EPP-F 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 Ø75 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-F 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 λ=0.0038, the wall thickness is about 8 to 31 mm,
- the profiled internal shape of the box reduces pressure drops,
- "double" FLX-HDPE 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-F plenum boxes are equipped with TPE gasket on Ød_2 spigots as a standard - such connection with FLX-HDPE ducts is airtight and easy to make. For building residential ventilation systems in ATC2 (D) air-tightness class acc. to EN 17192:2018.

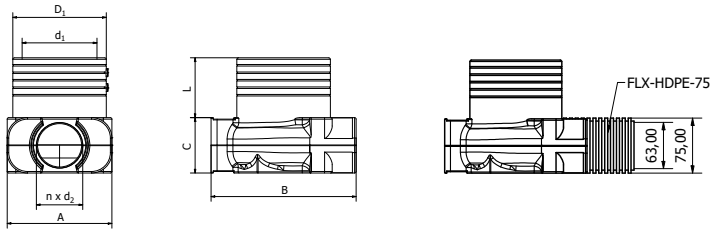
Product code example

Product code **FLX-PLO-EPP - 75 - 2 - 150 - F**

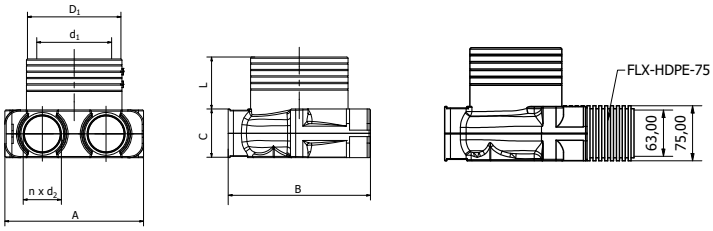
- type
- diameter Ød_2
- number of spigots n
- diameter Ød_1
- female connection

Dimensions

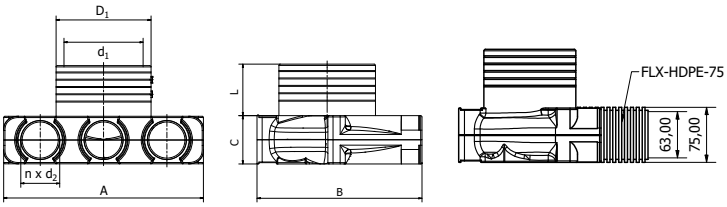
FLX-PLO-EPP-75-1-100-F



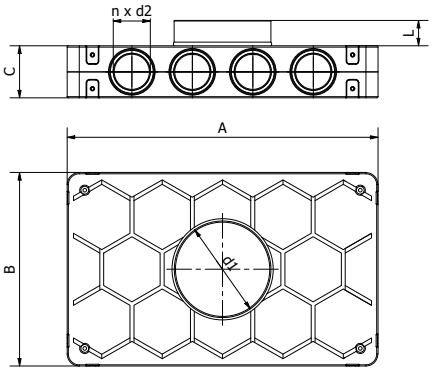
FLX-PLO-EPP-75-2-125-F



FLX-PLO-EPP-75-3-125-F / FLX-PLO-EPP-75-3-160-F



FLX-PLO-EPP-75-4-125-F / FLX-PLO-EPP-75-4-160-F



Code	n	Ød$_2$ [mm]	Ød$_1$ [mm]	A [mm]	B [mm]	C [mm]	L [mm]	ØD$_1$ [mm]
FLX-PLO-EPP-75-1-100-F	1	75	100	134	194	75	80	125
FLX-PLO-EPP-75-2-100-F	2	75	100	217.5	219	75	80	125
FLX-PLO-EPP-75-2-125-F	2	75	125	217.5	219	75	80	155
FLX-PLO-EPP-75-3-125-F	3	75	125	315.5	256	75	80	155
FLX-PLO-EPP-75-3-160-F	3	75	160	315.5	256	75	80	190
FLX-PLO-EPP-75-4-125-F	4	75	125	514	320	86	36	-
FLX-PLO-EPP-75-4-160-F	4	75	160	514	320	86	36	-

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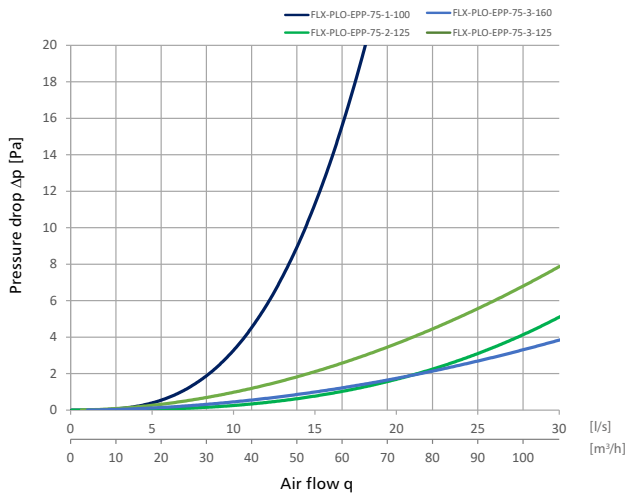
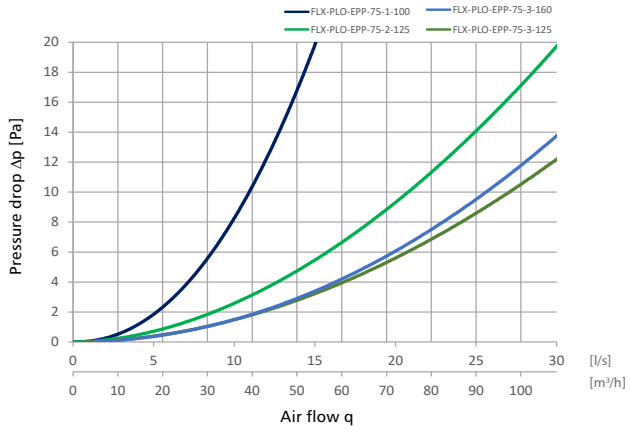
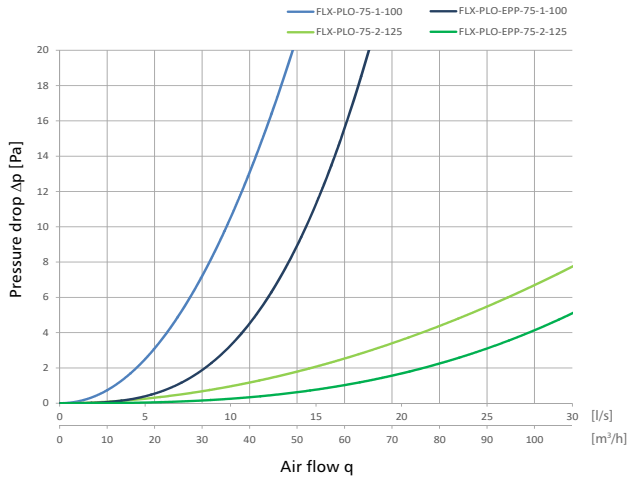
Pressure drop charts for the supply air to the room



Pressure drop charts for the extract air from the room



Comparison of a plenum box made of EPP and steel



Spigot (d_1) for an air valve with graduation to be cut to size as required - 40, 60, or max. 80 mm

The profiled internal shape of the box reduces pressure drops

The **FLX-CS-PVC** end caps fit the **Ød$_2$** 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	λ= 0,0038 W/(m·k)	PN-EN 12664:2002
Microbial resistance	1a	Method A PN-EN ISO 846:2019

Types of plenum boxes

FLX-PLO-EPP-F - female connection spigot

How to order

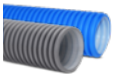
FLX-PLO-EPP-Ød$_2$-n-Ød$_1$-F

type	FLX-PLO-EPP-F
Ød$_2$	FLX-HDPE-75 ducting diameter
n	number of spigots for FLX-HDPE ducting (1,2 or 3)
Ød$_1$	air valve diameter (100, 125 or 160 mm)

You may also need:

EPP reduction 125 by 100mm
FLX-PLO-EPP-RC-125-100F

Air valve:
KN, KW



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

End caps:
FLX-CS-PVC

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