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.

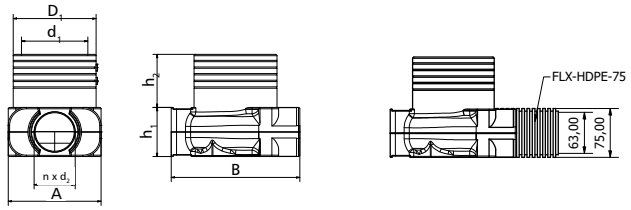
Product code example

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

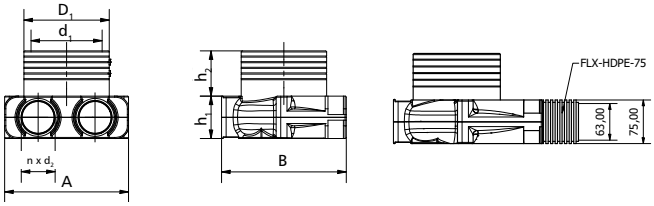
type
diameter Ød_2
number of spigots n
diameter Ød_1
female connection

Dimensions

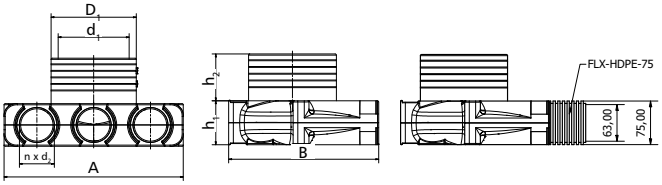
FLX-PLO-EPP-75-1-100-F



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



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



	A [mm]	B [mm]	h_1 [mm]	h_2 [mm]	D_1 [mm]	d_1 [mm]	n [szt.]	d_2 [mm]
FLX-PLO-EPP-75-1-100-F	134	194	75	80	125	100	1	63
FLX-PLO-EPP-75-2-125-F	217,5	219	75	80	155	125	2	63
FLX-PLO-EPP-75-3-125-F	315,5	256,2	75	80	155	125	3	63
FLX-PLO-EPP-75-3-160-F	315,5	256,2	75	80	190	160	3	63

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.

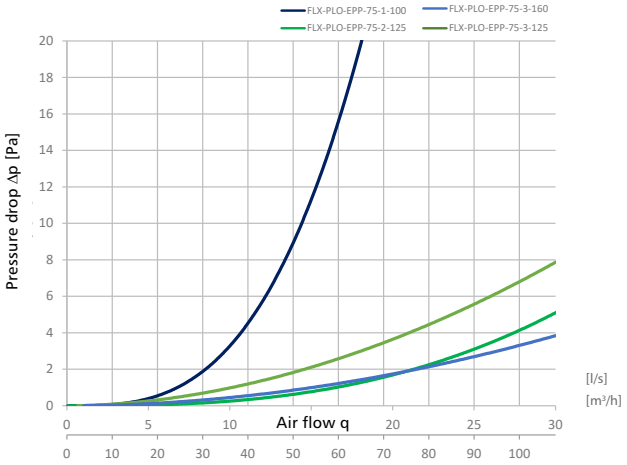
ALNOR® ventilation system
is a registered trademark protected by a technical patent. All modification rights reserved.

EPP plenum box for air valve

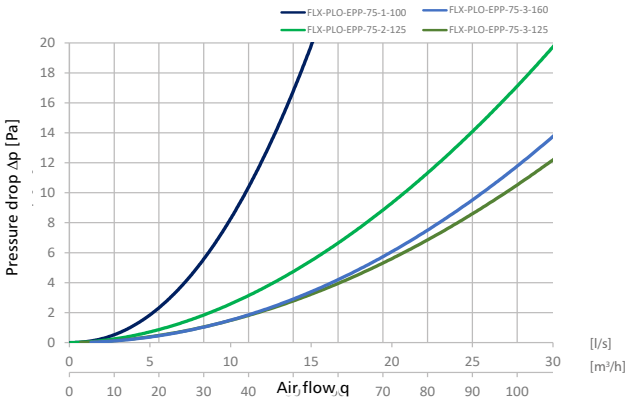
FLX-PLO-EPP-F

Technical data

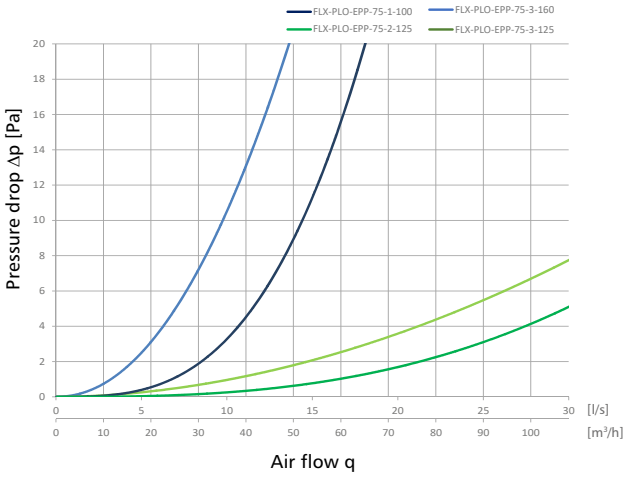
Pressure drop charts for the supply air to the room



Pressure drop charts for the extract air from the room



Comparison of a plenum box made of EPP and steel



Service temperature	-25°C do +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	Metoda A PN-EN ISO 846:2019

Types of plenum boxes

FLX-PLO-EPP-F - female connection spigot Ød$_1$

How order

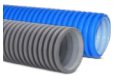
FLX-PLO-EPP-d2-n-d1-F

Type - FLX-PLO-EPP-F
d_2 - FLX-HDPE-75 ducting diameter
n - number of spigots for FLX-HDPE ducting (1, 2 or 3)
d_1 - air valve diameter (100, 125 or 160mm)

You may also need:

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

KN,KW Air valve



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

FLX-CS-PVC End caps

ALNOR® ventilation system
is a registered trademark protected by a technical patent. All modification rights reserved.