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**SOLUTIONS**  
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## Purain Filter DN100 with Skimmer

SIZE:

SCALE:

DATE:

APPROVED BY:

CHECKED BY:

DRAWN BY:

**DN100**

WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA

DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE



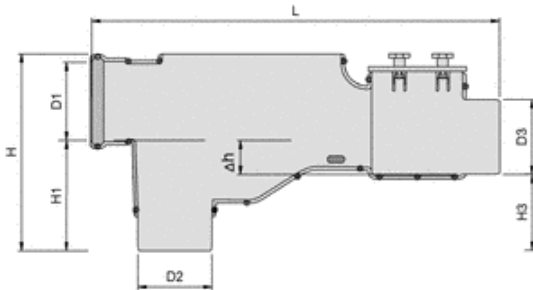
Length	23.82 in
Width	7.09 in
Height	11.34 in
Net weight	3.31 lbs
Mesh size	0.03 in
Height, intake	6.46 in
Height, dirty water connection	4.49 in
Height offset $\Delta h$	1.97 in
Intake connection	DN 100
Clear water outlet	DN 100
Dirty water outlet	DN 100
Color	Schwarz
Material	Edelstahl, EPDM, PP
Effective efficiency	98
Patented	Yes

The PURAIN Rainwater filter, also known as the hydraulic jump filter, is the innovation for roof areas ranging from 60m<sup>2</sup> to more than 15.000m<sup>2</sup>.

This hydraulic jump technology cleans itself automatically. The design model for PURAIN Rainwater filters comes from nature:

At almost every course in a stream, you can see how the hydraulic jump functions. The water flows over one of the stones, smooth and rounded by the action of the water over time. The water flow is substantially changed by the height drop, from a sub-critical to a super-critical flow. At the bottom of the dip, the waterflow changes again to a subcritical flow in a process now commonly known as hydraulic jump. This resulting increase in water power forces any impurities over the next level and washes them away downstream.

PURAIN Model	Pipe Diameter (in.)	Max Flow Rate at 1.5% Fall (GPM)	100% Capture Maximum Flow (GPM)
DN100	4	90	21
DN150	6	268	96
DN200	8	576	175
DN300	12	1684	240
DN400	16	3632	480



- D1: Intake
- D2 Drain outlet for cistern
- D3 Wastewater outlet
- H1: Intake
- H2 Outlet for Cistern
- H3 Waste water outlet
- $\Delta h$  Vertical offset between intake and waste water drainage

FIGURE NUMBER

REV.

DATE

DESCRIPTION

BY

CKD. BY

WEIGHT POUNDS

VOLUME CUBIC FEET

FIGURE NUMBER

**DN100**