



**ENGINEERED™
SOLUTIONS**
A division of Morris/Lee, Ltd.™

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Job:



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Engineer:

Purain Filter HD DN 300



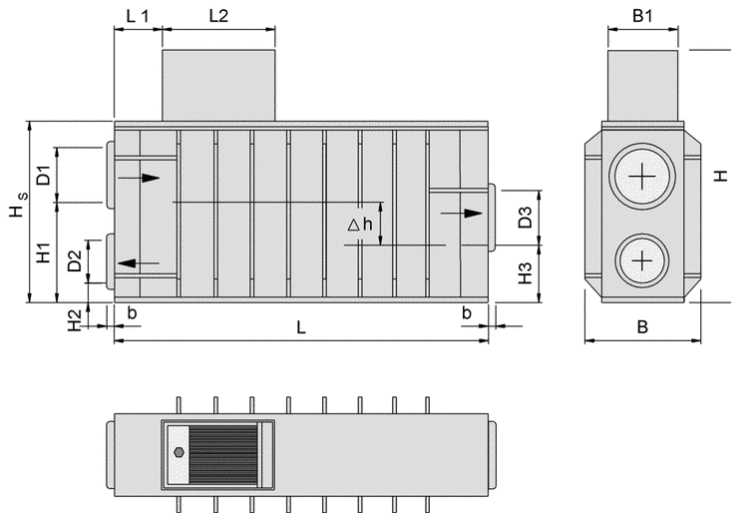
The PURAIN Rainwater filter, also known as the hydraulic jump filter, is the innovation for roof areas ranging from 60m² to more than 15.000m².

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.

SIZE:
SCALE:
DATE:
APPROVED BY:
CHECKED BY:
DRAWN BY:
HD DN 300
DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE
WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA

PURAIN Model	Pipe Diameter (in.)	Max Flow Rate at 1.5% Fall (GPM)	100% Capture Maximum Flow (GPM)	Rated Max. Roof Square Footage	Recommended Connection Pipe Type
DN100	4	90	21	3,000	
DN150	6	268	96	10,000	
DN200	8	576	175	22,000	SDR 35 PVC
DN300	12	1684	240	47,000	SDR 35 PVC
DN400	16	3632	480	102,000	SDR 35 PVC

Length	70.31 in
Width	22.87 in
Height	50.43 in
Net weight	257.94 lbs
Mesh size	0.03 in
B1 see technical drawing	11.61 in
L2 see technical drawing	18.11 in
L1 see technical drawing	14.29 in
Height, intake	19.65 in
Height, dirty water connection	8.98 in
Height, clear water connection	2.09 in
Shoulder height	34.68 in
Height offset Δh	10.67 in
Intake connection	DN 300
Clear water outlet	DN 200
Dirty water outlet	DN 300
Material	NBR, PE, St.
Effective efficiency	98



- D1 : Intake
- D2 : Drain outlet for cistern
- D3 : Wastewater outlet
- H1 Intake: Intake
- H2 : Outlet for Cistern
- H3 : Wastewater outlet
- Δh : Vertical offset between intake and waste water drainage
- a : Length spigot end
- b : Packing collar

FIGURE NUMBER	REV.	DATE	DESCRIPTION	BY	CKD. BY	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER
								HD DN 300