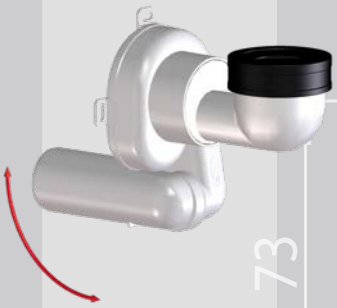
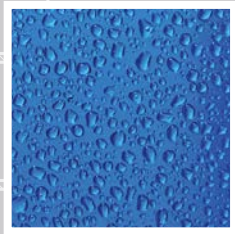
SIPHONS ABLÄUFE





HL Siphons

9. Urinal

9

HL Urinal traps

Basic information about design and installation

Because of their low consumption of water urinals based on the principle of vacuum drainage have prevailed in the last years. Below we would like to clarify some of the terms, belonging to this chapter:

▲ Siphonic drainage
As urinal facilities mostly can be found in public areas, they have to be protected against unauthorised manipulation. Therefore the ceramic bowls are designed in a way, that all important parts are behind the bowl. That is why it is important to have a self-cleaning siphon. This effect results from using low cross sections inside the siphon and therefore higher flow speed. The trap is „systematically" suctioned. The needed seal water has to come from which remains in the ceramic bowl. For this purpose only approved traps may be used, to make sure, that this siphonic drainage effect happens indeed. HL urinal trap HL430 is conform to the standard. Additionally the function is approved by an independant laboratory.

▲ Flush volume
Normally urinal facilities are operated by electronic controls. Thereby the minimum flush volume can be regulated. Minimum flush volumes for HL urinal traps: HL431 and HL432: 1,5l for one flush. HL430: 1l for one flush.

▲ Plugging by urine scale
From the economical and ecological point of view people more and more use as little water for flushing as possible. However, it should be clear, that the less water is used for flushing, the more likely it will come to a plugging of the trap and/or the drainage pipe. And this leads to shorter cleaning intervals.

▲ Ball-joint
HL equips it`s traps with a ball-joint, which allows a stressless installation, both horizontal and vertical.

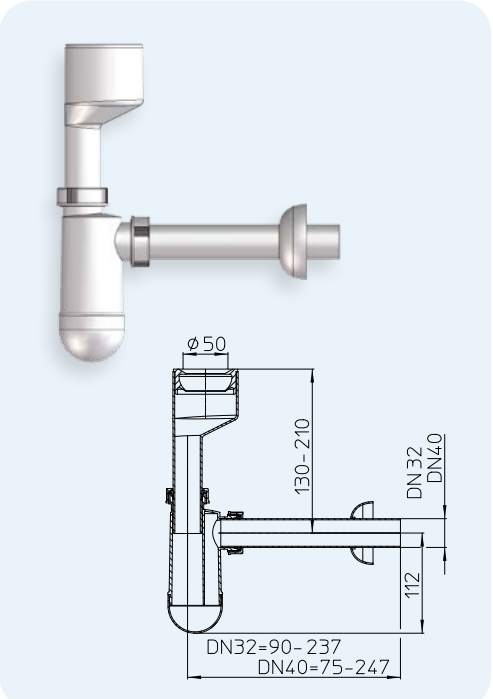
Relevant standards/directives
DIN 13407 ..... Wall-mounted urinals
DIN 19541 ..... Stench traps for special purposes
DIN 1380 ..... Connectors for urinals - requirements and verification

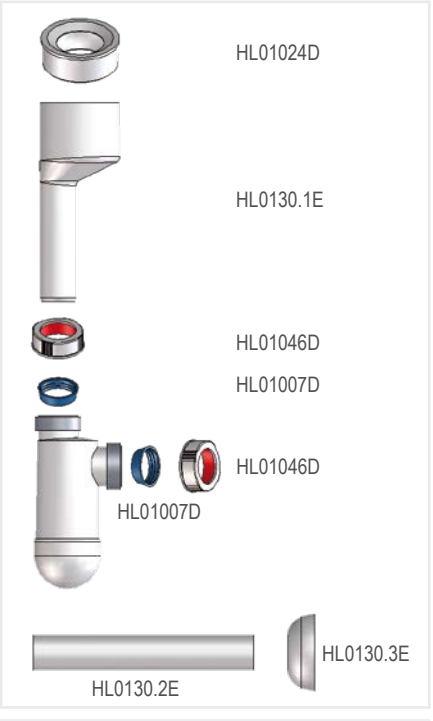
HL Urinal traps – Products – Data

HL130 Urinal trap

Data

Material	PP
Connection dimension	Ø 50 ± 2 mm
Outlet dimension	HL130/30: DN32 HL130/40: DN40
Capacity	0,7 l/s
Standard	DIN 19541, DIN 1380
Recommended for	urinals with vertical outlet
Additional information	Adjustable immersion tube, concealed lip-seal and rosette



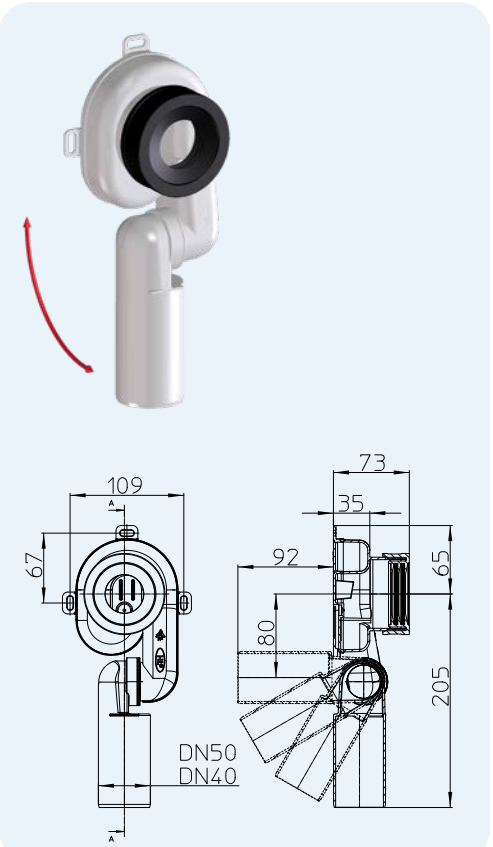


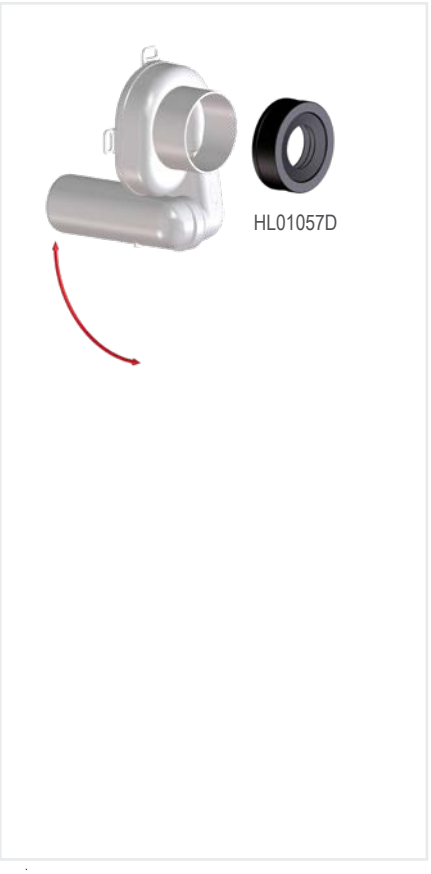
HL-No.	Dimension	Weight	EAN	Piece/package
130/30	DN32	260 g	+301300	1
130/40	DN40	265 g	+013043	1

HL430 Urinal siphonic trap

Data

Material	PP
Connection dimension	Ø 50 ± 2 mm
Outlet dimension	HL430/40: DN40 HL430/50: DN50
Capacity	0,7 l/s
Standard	EN 13407, DIN 19541, DIN 1380
Recommended for	Urinal bowls with internal horizontal outlet and > 1l flush volume
Additional information	Ball-joint (0° - 90°) and gasket



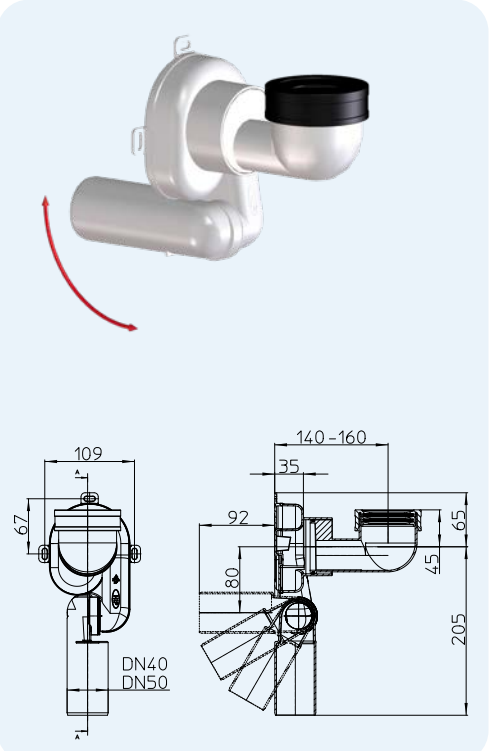


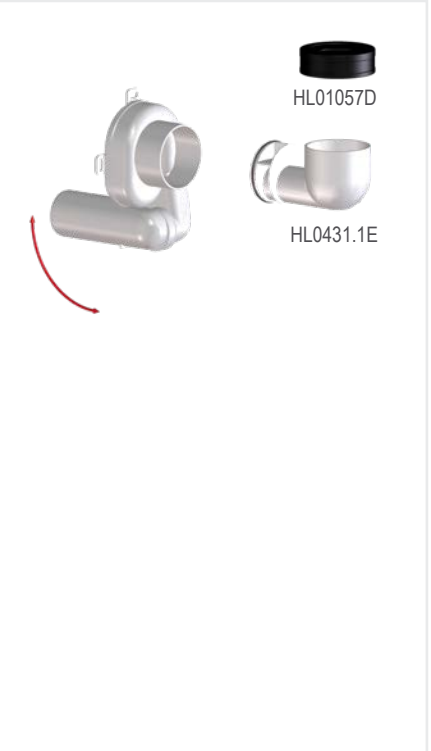
HL-No.	Dimension	Weight	EAN	Piece/package
430/40	DN40	180 g	+304301	10
430/50	DN50	185 g	+314300	10

HL431 Urinal siphonic trap

Data

Material	PP
Connection dimension	Ø 50 ± 2 mm
Outlet dimension	HL431/40: DN40 HL431/50: DN50
Capacity	0,7 l/s
Standard	EN 13407, DIN 19541, DIN 1380
Recommended for	Urinal bowls with internal vertical outlet
Additional information	Ball-joint (0° - 90°) and gasket





HL-No.	Dimension	Weight	EAN	Piece/package
431/40	DN40	250 g	+000777	10
431/50	DN50	260 g	+000791	10