







HL Siphons

6. Washing devices













HL Traps for washing devices - Products - Overview



Product	HL400	HL404.1	HL4000.0/.1/.2	HL405	HL405E	HL405ECO
Description	Standard concealed washing device trap	Concealed washing device trap with ventpipe	Washing device siphon corpus with single or double cartridge	Concealed washing device trap with water supply set	Concealed washing device trap with water supply set and power socket	Concealed washing device trap with water supply set
Function	For siphoning of washing machines, dishwashers a.s.o. with integrated backwater valve	For siphoning of washing machines, dishwashers a.s.o. with integrated backwater valve and ventpipe; for connections, which are more away than 4m from the downpipe	Washing device siphon with removable siphon cartridge, either for single or double connection (e.g. washing machine + clothes dryer)	For siphoning of washing machines, dishwashers a.s.o. with integrated cold water supply	For siphoning of washing machines, dishwashers a.s.o. with integrated cold water supply and power socket	For siphoning of washing machines, dishwashers a.s.o. with prepared cold water supply for a tap of your choice

Basic information about design and installation

In principle all washing devices should be connected by it's on trap to the sewage pipe. HL supplies a wide range of different traps and combination possibilities.

▲ Siphoning

Different to the normal siphoning of washbasins or sinks, one uses for washing devices concealed traps. This has a lot of advantages: saves space, nice design and minimizes the sound of flowing water.

▲ Maintenance and cleaning

All HL concealed washing device traps have a cleaning eye. HL4000-series: The siphon cartridge may be removed for cleaning or maintenance reasons. Easy function control with a transparent backside. Easy access to the downpipe for cleaning reasons.

▲ Waterproofness

By using O-rings between trap and hose connector, the highest watertightness is guaranteed, even when the nut is not yet fixed. Very important, as the outflowing water causes vibrations, which could release the connection.

▲ Installation

Please take care of installing the trap vertically. The red lot cover avoids the cleaning eye of getting dirty during construction. Should the trap be installed too much inside the wall, it is possible, to elongate the thread by a fitting spare-part. HL4000-series: By installing only the corpus HL4000.0 during the construction phase, the enduser can complete the siphon either with a single or a double cartridge (HL4000.1 or HL4000.2)

▲ With long access pipes it could be, that the water in the trap is sucked out, caused by too little air ventilation. This could be avoided from the beginning by using traps with integrated ventpipes. Beside of that HL supplies a lot of different combinations with additional power supply or cold water feed, for convenience and design reasons.

▲ Double connections

With HL4000-series it is possible for the house owner, to choose between a single or a double connection or to upgrade from single to double (e.g. washing machine + clothes dryer), when the corpus HL4000.0 is installed at first. The

double siphon cartridge has two hydraulically independent siphon chambers, which cares for highest safety. Backflow balls prevent the overflow from one device to the other.

Relevant standards/directives EN 12056 Gravity drainage systems

for buildings and estates
DIN 19541 Siphons for special

purposes DIN 1988

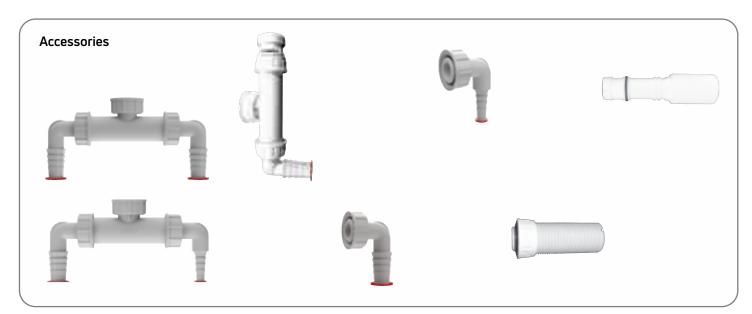
DIN 1988 Technical rules for cold water installation



HL Traps for washing devices – Products – Overview

Siphons

HL406	HL406.2	HL406E	HL410	HL440
Concealed washing device trap with water supply set	Concealed washing device trap with water supply set	Concealed washing device trap with power socket	Washing device trap	Concealed washing device trap with mechanical valve
For siphoning of washing ma- chines, dishwashers a.s.o. with integrated cold water supply, hose connector with backwater valve and ventpipe	For siphoning of washing machines, dishwashers a.s.o. with integrated cold water supply, 2 hose connectors with backwater valve and ventpipe	For siphoning of washing machines, dishwashers a.s.o. with integrated cold water supply, hose connector with backwater valve, ventpipe and power socket	For siphoning of washing machines, dishwashers a.s.o., installation on the wall	For siphoning of washing machines, dishwashers a.s.o., little depth



Product	HL2, HL2.2	HL2.1	HL19	HL19.2	HL420	HL421
Description	Washing device double hose connector with backwater valve	Washing device hose connector with backwater valve and ventpipe	Angled hose connector	Angled hose connector	Elongation for the thread	Elongation for the thread
Function	For connecting two washing machines or a washing machine and dryer to one trap. Should only be used as a problem solver.	Avoids, that the tube of the washing machine is sucked out	Connection between trap and the tube of the washing device	Connection between trap and the thin tube 8 - 13 mm	Elongation of the thread	Elongation of the thread, only usable, if the original thread was not yet cut!



HL Traps for washing devices – Installation instruction HL4000



1. Define position and fix the corpus



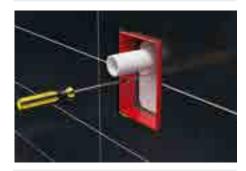
2. Connect to the pipe



3. Cut the protection cover alongside the wall



4. Choose between single (HL4000.1) or double (HL4000.2) siphon cartridge



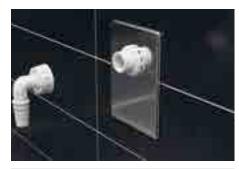
5. Insert cartridge and fix by screwing



6. Mark 3cm, measured from the wall (tile)



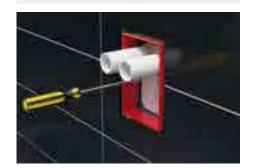
7. Cut at the mark



8. Set the cover and fix by thread ring, screw the hose



9. Connect to the washing device



10. When installing a second washing device (or dryer), replace the single cartridge to a double.



11. Install cover, thread ring and hose nozzle.



12. Connect clothes dryer.



HL Traps for washing devices - Products - Data

HL400 Concealed washing device trap

Data

Capacity 0,38 l/s

Material PE/Stainless steel

Connection

dimension

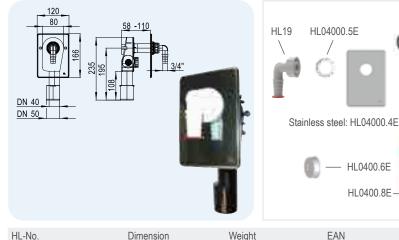
Outlet dimension DN40/50 Standard DIN 19541 Height of seal 50 mm

Recommended for Concealed siphoning of washing

devices

Additional with stainless steel cover, cuttable information red spacer, cleaning eye and back-

water valve



HL-No.	Dimension	Weight	EAN	Piece/package
400	DN40/50	280 g	+504008	10

HL404 Concealed washing device trap with option for connecting a ventpipe

Data

0,38 l/s Capacity

Material PE/Stainless steel

Connection

dimension

Outlet dimension DN40/50 Standard DIN 19541 Height of seal 50 mm

Recommended for Siphoning of washing devices, with

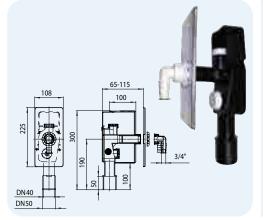
option of ventpipe

Additional

information

with chrome-plated cover, cuttable red spacer, cleaning eye and back-

water valve







EAN	Piece/package
+504046	5

HL404.1 Concealed washing device trap with integrated ventpipe

Data

Capacity 0,38 l/s

Material PE/Stainless steel

Connection

dimension

DN40/50 Outlet dimension DIN 19541 Standard Height of seal 50 mm

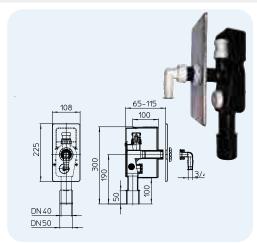
water

Recommended for Siphoning of washing devices, with

integrated ventpipe

Additional with chrome-plated cover, cuttable information red spacer, cleaning eye and back-

water valve





HL-No. Dimension Weight **EAN** Piece/package +504145 404.1 504 g DN40/50



HL4000.0 Washing device siphon - corpus

Data

Capacity see HL4000.1 or HL4000.2

 Material
 PP

 Outlet
 DN40/50

 Standard
 DIN 19541

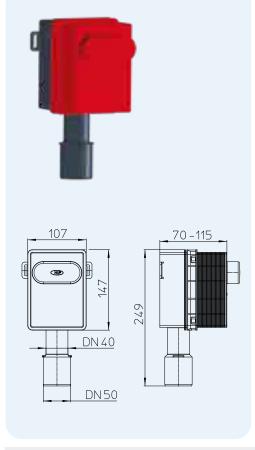
Recommended for HL4000.1 for 1 washing device

HL4000.2 for 2 washing devices

Additional After removing the cartridge there is information a free access to the waste pipe

Also see installation movie

(www.hl.at)





HL-No.	Dimension	Weight	EAN	Piece/package
4000.0	DN40/50	244 g	+041619	10

HL4000.1 "Single-Upgrade-kit" for washing device siphon HL4000.0 corpus HL4000.2 "Double-Upgrade-kit" for HL4000.0 corpus (e.g. washing machine and clothes dryer)

Data

Capacity HL4000.0 + HL4000.1: 0,5l/s

HL4000.0 + HL4000.2: each 0,5l/s

Material PP

Connection HL4000.1: HL19

HL4000.2:

2x HL19 + 1x HL19.2

Standard DIN 19541 Water trap 50 mm

Recommended for Single cartridge for 1 washing

machine

Double cartridge for 1 washing machine + 1 clothed dryer

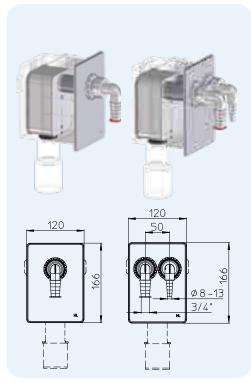
Additional with transparent backside for quick

information function control

with integrated backflow balls

Please also see installation movie

(www.hl.at)





HL-No.	Dimension	Weight	EAN	Piece/package
4000.1	-	265 g	+041633	1
4000.2	-	350 g	+041640	1



HL405 Concealed washing device trap with integrated cold water supply

Data

Capacity 0,38 l/s

PE/Stainless steel/MS Material

Connection dimension

1" / 1/2"

Outlet dimension

DN40/50

Standard DIN 19541, DIN 1988

Height of seal

50 mm

water

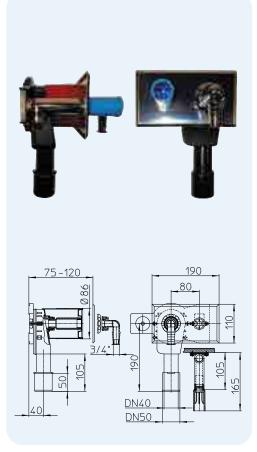
Recommended for

Siphoning of washing devices, con-

nection of cold water line

Additional information with chrome-plated cover, cuttable red spacer, 1/2" MS on/off valve and

backing plate





HL-No.	Dimension	Weight	EAN	Piece/package
405	DN40/50	973 q	+504053	1

HL405E Concealed washing device trap with integrated cold water supply and power socket

Data

0,38 l/s Capacity

Material PE/Stainless steel/MS

1" / 1/2" Connection

dimension

Outlet dimension DN40/50

Standard DIN 19541, DIN 1988

Height of seal water

50 mm

Recommended for

Siphoning of washing devices,

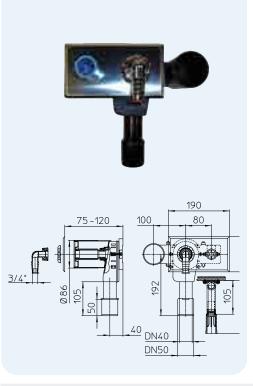
connection of cold water line and

power supply

Additional information

with chrome-plated cover, cuttable red spacer, 1/2" MS on/off valve and

backing plate





HL-No.	Dimension	Weight	EAN	Piece/package
405E	DN40/50	1000 a	+504091	1



HL405ECO Concealed washing device trap, prepared for idividual cold water supply

Data

Capacity 0,38 l/s

Material PE/Stainless steel

Connection

dimension

Outlet dimension DN40/50

Standard DIN 19541, DIN 1988

Height of seal

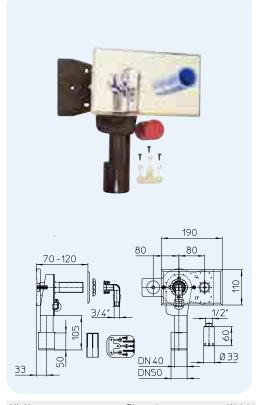
50 mm

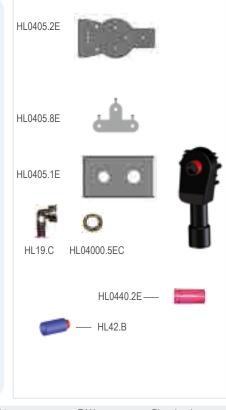
water

Recommended for Siphoning of washing devices,

prepared for cold water supply

Additional with chrome-plated cover, cuttable information red spacer and backing plate





 HL-No.
 Dimension
 Weight
 EAN
 Piece/package

 405ECO
 DN40/50
 443 g
 +015672
 5

HL406 Concealed washing device trap with integrated cold water supply and on/off valve

Data

Capacity 0,38 l/s

Material PE/Stainless steel/MS

Connection

1" / 3/4"

dimension

DN40/50

50 mm

Standard DIN 19541, DIN 1988

Height of seal

Outlet dimension

water

Recommended for

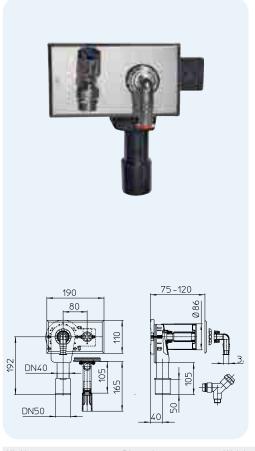
Siphoning of washing devices,

connection of cold water line

Additional information

with chrome-plated cover, cuttable red spacer, 1/2" MS on/off valve,

backing plate and hose connector





 HL-No.
 Dimension
 Weight
 EAN
 Piece/package

 406
 DN40/50
 1075 g
 +504060
 1



HL406.2 Concealed washing device trap with double water supply and double on/off valve

HL-No.

406.2

406E

Data

Capacity 0,38 l/s

Material PE/Stainless steel/MS

Connection

1" / 2 x 3/4"

dimension

Outlet dimension DN40/50

Standard DIN 19541, DIN 1988

Height of seal

50 mm

water

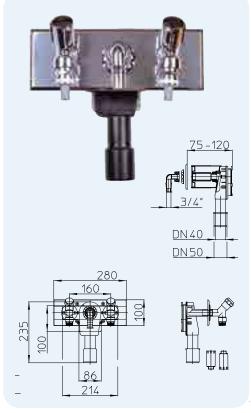
Recommended for Siphoning of washing devices, con-

nection of cold and warm water, e.g. at energy saving washing machines

Additional information

with chrome-plated cover, cuttable red spacer, 2 x 1/2" MS valve, back-

ing plate and hose connector





+008247

HL406E Concealed washing device trap with water supply, on/off valve and power supply

Dimension

DN40/50

1931 g

Data

Capacity 0,38 l/s

Material PE/Stainless steel/MS

Connection 1" / 3/4"

dimension

Outlet dimension DN40/50

Standard DIN 19541, DIN 1988

Height of seal

50 mm

water

Recommended for Siphoning of washing devices, con-

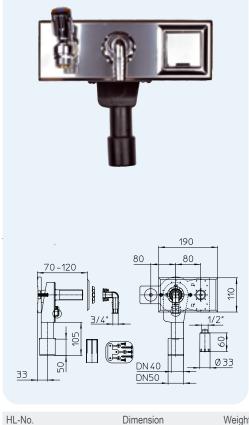
nection of cold water line and power

supply

Additional information

with chrome-plated cover, cuttable red spacer, 2 x 1/2" MS valve, backing

plate and hose connector





Dimension Weight EAN Piece/package
DN40/50 1310 g +504077 1



HL410 Washing device trap

Data

0,38 l/s Capacity Material PΕ Connection dim. Outlet dimension **DN40** Standard DIN 19541 Height of seal 50 mm

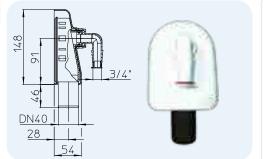
water

Recommended for Siphoning of washing devices,

installed on the wall

with white cover plate and fixing set Additional

information



Dimension

DN40



HL04000.5E

+504107

HL0440.1E

HL440 Concealed washing device trap with mechanical valve

HL-No.

410

Data

Capacity 0.33 l/s PP Material Connection dimension

Outlet dimension DN40/50 DIN 19541 Standard

Height of seal water

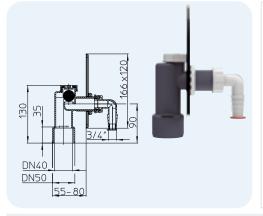
mechanical ball-trap

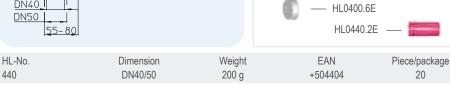
Siphoning of washing devices, little Recommended for

depth

Additional with chrome-plated cover

information





440 g

HL Traps for washing devices - Products - Accessories

HL2 Double hose connector with backwater valve

Data

Capacity 1 connector 0,28 l/s 2 connectors each 0,23 l/s

PP Material Connection 2 x 3/4"

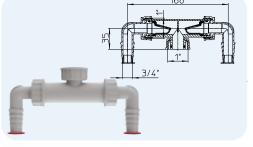
dimension

Outlet dimension

Recommended for Problem-solver

Additional with integrated backwater valves

information





HL-No. Weight Dimension 1" x 3/4" 85 g +520022

HL2.0 Double hose connector with backwater valve, with flat gasket

2.0

Data

Capacity 1 connector 0,28 l/s

2 connectors each 0,23 l/s

Material Connection 2 x 3/4"

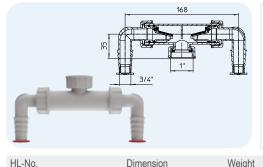
dimension

Outlet dimension 1" with flat gasket Recommended for Problem-solver

Additional

information

with integrated backwater valves





Dimension Weight EAN Piece/package 1" x 3/4" 80 g +530021



HL2.1 Hose connector with backwater valve and ventpipe

Data

Capacity 0,28 l/s
Material PP
Connection 3/4"

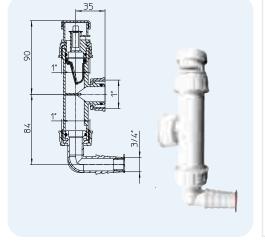
Outlet dimension 1"

Recommended for Prevents the trap from being sucked

out

Additional with integrated backwater valve and

information ventpipe





 HL-No.
 Dimension
 Weight
 EAN
 Piece/package

 2.1
 1" x 3/4"
 65 g
 +5320213
 1

HL2.2 Double hose connector with backwater valve

Data

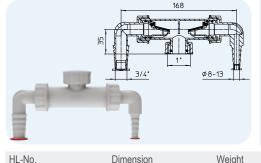
 $\begin{array}{lll} \text{Capacity} & 0.14 \text{ l/s} \\ \text{Material} & \text{PP} \\ \text{Connection} & 1 \times 3/4 \text{"} \\ \text{dimension} & 1 \times \emptyset \text{ 8-13mm} \\ \end{array}$

Outlet dimension 1

Recommended for Problem-solver

Additional with integrated backwater valves

information





 HL-No.
 Dimension
 Weight
 EAN
 Piece/package

 2.2
 1 x 3/4" & 1 x Ø 8-13mm
 85 g
 +002283
 10

HL17 General connector

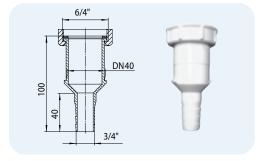
Data

Material PP Connection 3/4"

Outlet dimension 6/4"/DN40

Recommended for Unnction from tube to plug or screw

connection





HL01002D

 HL-No.
 Dimension
 Weight
 EAN
 Piece/package

 17
 6/4" x DN40 x 3/4"
 35 g
 +500178
 1

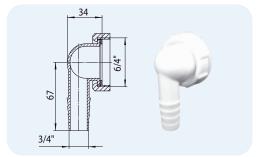
HL18 General hose connector

Data

Material PP Connection 3/4"

Outlet dimension 6/4"

connection





 HL-No.
 Dimension
 Weight
 EAN
 Piece/package

 18
 6/4" x 3/4"
 25 g
 +500185
 1



HL19... Hose connector

Data

Material PP

 $\begin{array}{ll} \text{Connection} & \text{HL19, HL19.0, HL19.C: } 3\text{/4"} \\ \text{dimension} & \text{HL19.2: } \varnothing \text{ 8} - 13 \text{ mm} \end{array}$

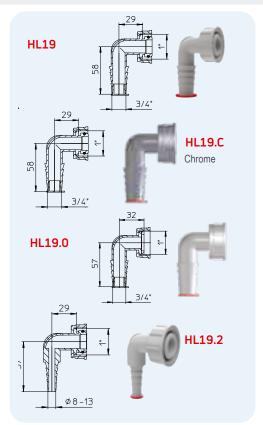
Outlet dimension 1

Recommended for Connection of tubes of washing

devices

Additional information

Gasket = O-ring, except HL19.0





HL-No.	Dimension	Weight	EAN	Piece/package
19	1" x 3/4"	18 g	+100194	10
19.C	1" x 3/4"	18 g	+190041	1
19.0	1" x 3/4"	18 g	+112197	1
19.2	1" x 8 – 13 mm	15 g	+001927	1

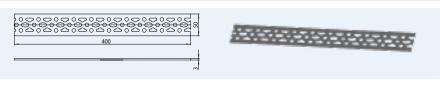
HL405B Backing plate

Data

Material Galvanized steel

Recommended for fits to HL44, HL405(E)(ECO) and

HL406(E)(.2)



HL-No.	Dimension	Weight	EAN	Piece/package
405B	50 x 400 mm	965 g	+504084	1

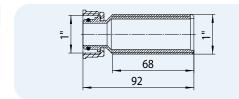
HL420 Extension for the thread

Data

Material PP
Connection 1"
dimension
Outlet dimension 1"

Recommended for Elongation of the thread for all HL

washing device traps





HL-No.	Dimension	Weight	EAN	Piece/package
420	1"	20 g	+504206	1

HL421 Pushfit extension for the thread

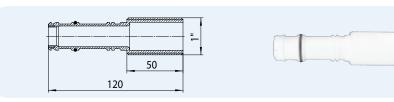
Data

Material PP Connection 1" dimension

Recommended for Stepless junction for the thread for

all HL washing device traps, except HL406, HL406.2, HL406E, HL410,

HL440



 HL-No.
 Dimension
 Weight
 EAN
 Piece/package

 421
 1"
 25 g
 +421008
 1