



SIPHONS ABLÄUFE



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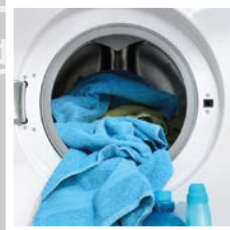
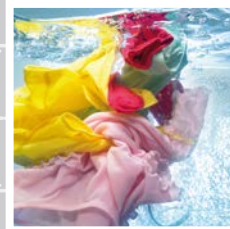
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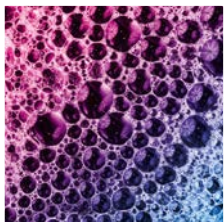
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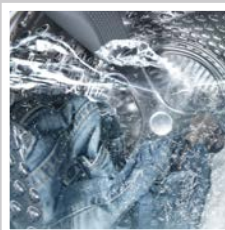
193



214
HL Siphons

6. Washing devices

6



HL Traps for washing devices – Products – Overview

Siphons



| 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 Technical rules for cold water installation

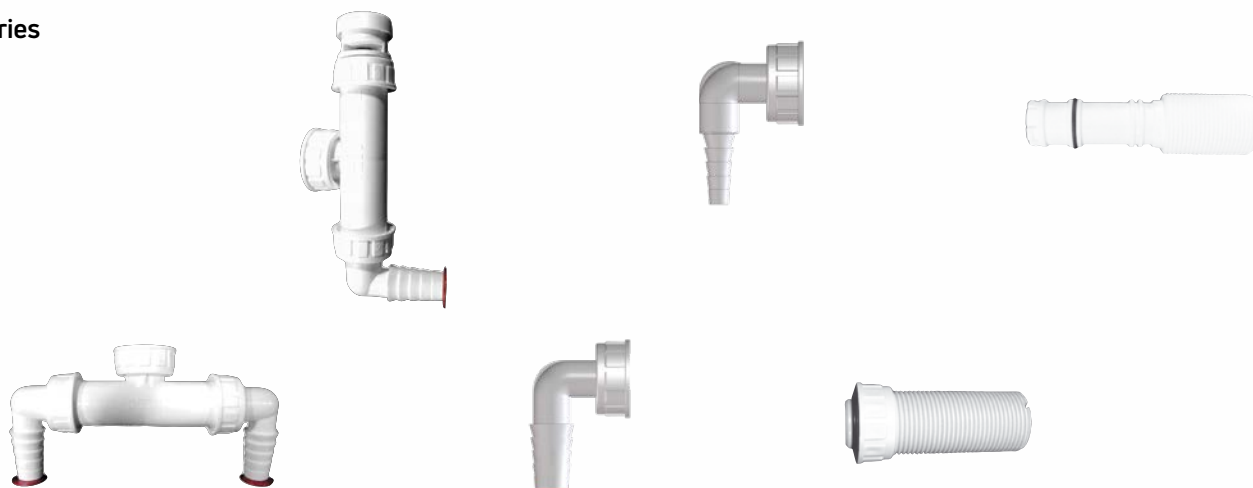
HL Traps for washing devices – Products – Overview

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 machines, 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 |

Accessories



| Product | HL2 | 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 of two washing devices, only as 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! |

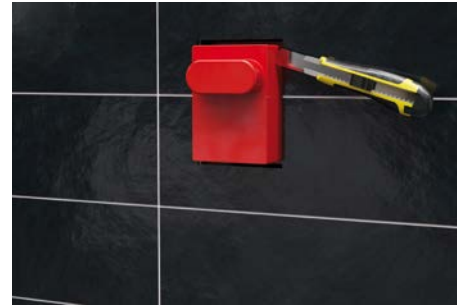
HL Traps for washing devices – Installation instruction HL4000



1. Define position and fix the corpus



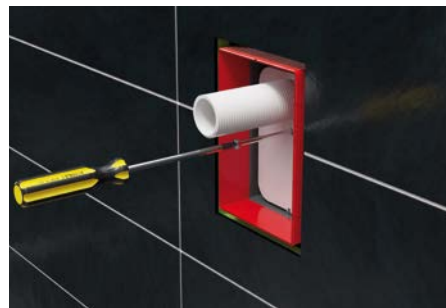
2. Connect to the pipe



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)



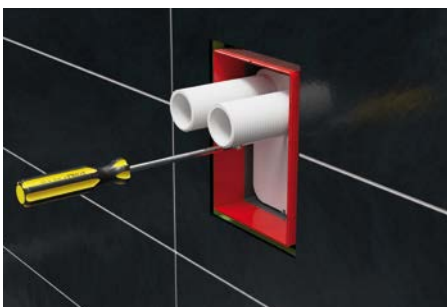
7. Cut at the mark



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



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.



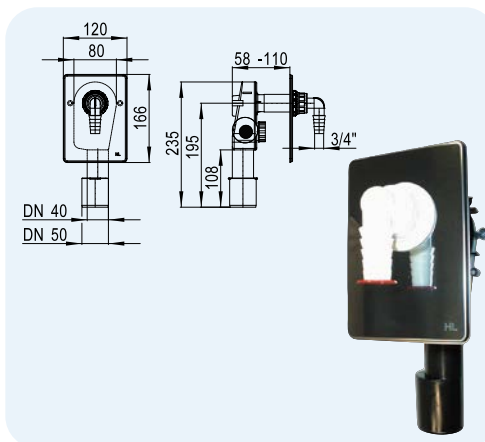
12. Connect clothes dryer.

HL Traps for washing devices – Products – Data

HL400 Concealed washing device trap

Data

| | |
|------------------------|--|
| Capacity | 0,38 l/s |
| Material | PE/Stainless steel |
| Connection dimension | 1" |
| Outlet dimension | DN40/50 |
| Standard | DIN 19541 |
| Height of seal water | 50 mm |
| Recommended for | Concealed siphoning of washing devices |
| Additional information | with stainless steel cover, cuttable red spacer, cleaning eye and back-water valve |

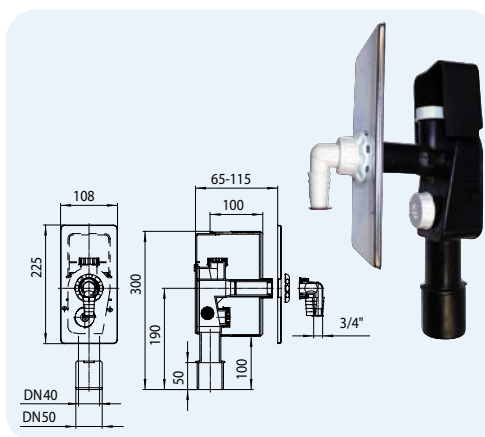


| HL-No. | Dimension | Weight | EAN | Piece/package |
|--------|-----------|--------|---------|---------------|
| 400 | DN40/50 | 280 g | +504008 | 10 |

HL404 Concealed washing device trap with option for connecting a ventpipe

Data

| | |
|------------------------|--|
| Capacity | 0,38 l/s |
| Material | PE/Stainless steel |
| Connection dimension | 1" |
| Outlet dimension | DN40/50 |
| Standard | DIN 19541 |
| Height of seal water | 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 |

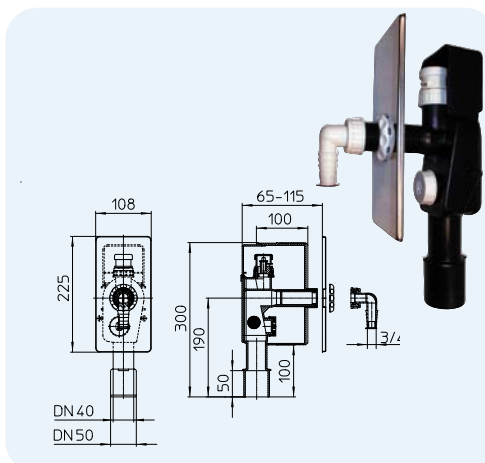


| HL-No. | Dimension | Weight | EAN | Piece/package |
|--------|-----------|--------|---------|---------------|
| 404 | DN40/50 | 484 g | +504046 | 5 |

HL404.1 Concealed washing device trap with integrated ventpipe

Data

| | |
|------------------------|--|
| Capacity | 0,38 l/s |
| Material | PE/Stainless steel |
| Connection dimension | 1" |
| Outlet dimension | DN40/50 |
| Standard | DIN 19541 |
| Height of seal water | 50 mm |
| Recommended for | Siphoning of washing devices, with integrated ventpipe |
| Additional information | with chrome-plated cover, cuttable red spacer, cleaning eye and back-water valve |

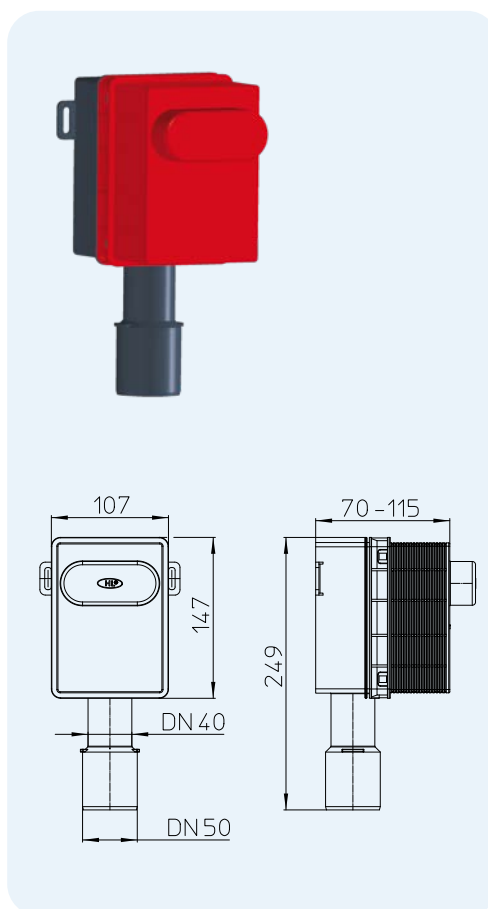


| HL-No. | Dimension | Weight | EAN | Piece/package |
|--------|-----------|--------|---------|---------------|
| 404.1 | DN40/50 | 504 g | +504145 | 5 |

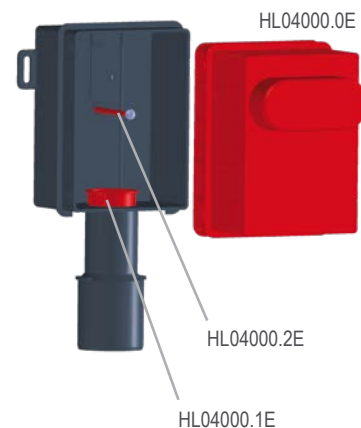
HL4000.0 Washing device siphon - corpus

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 information | After removing the cartridge there is a free access to the waste pipe Also see installation movie (www.hl.at) |



HL4000.0

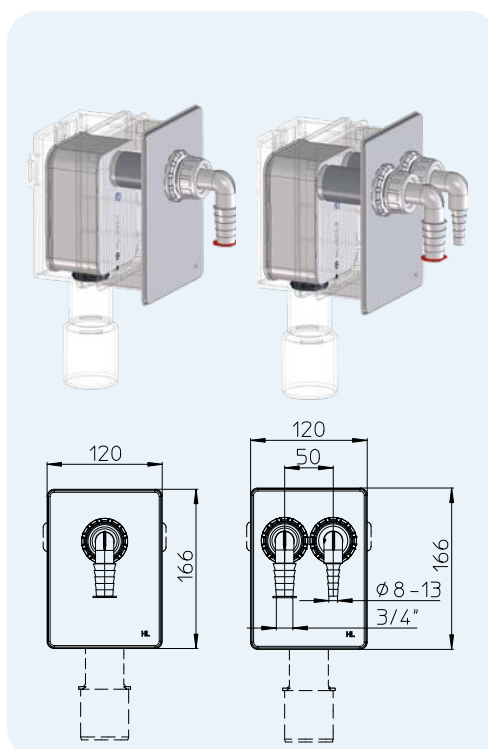


| HL-No. | Dimension | Weight | EAN | Piece/package |
|--------|-----------|--------|---------|---------------|
| 4000.0 | DN40/50 | 244 g | +041619 | 10 |

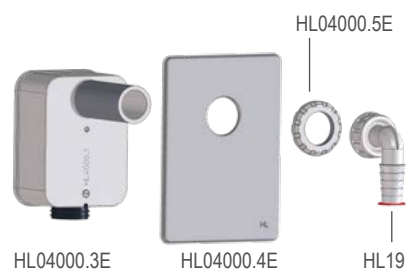
HL4000.1 „Single-Upgrade-kit“ for washing device siphon HL4000.0 corpus HL4000.2 „Double-Upgrade-kit“ for HL4000.0 corpus (e.g. washing machine and clothes dryer)

Data

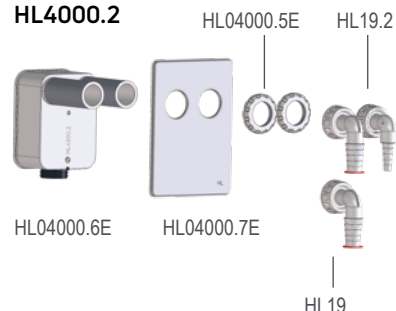
| | |
|------------------------|--|
| Capacity | HL4000.0 + HL4000.1: 0,5l/s HL4000.0 + HL4000.2: each 0,5l/s |
| Material | PP |
| Connection | HL4000.1: HL19 HL4000.2: 2x HL19 + 1x HL19.2 |
| Standard | DIN 19541 |
| Water trap | 50 mm |
| Recommended for | Single cartridge for 1 washing machine Double cartridge for 1 washing machine + 1 clothed dryer |
| Additional information | with transparent backside for quick function control with integrated backflow balls Please also see installation movie (www.hl.at) |



HL4000.1



HL4000.2

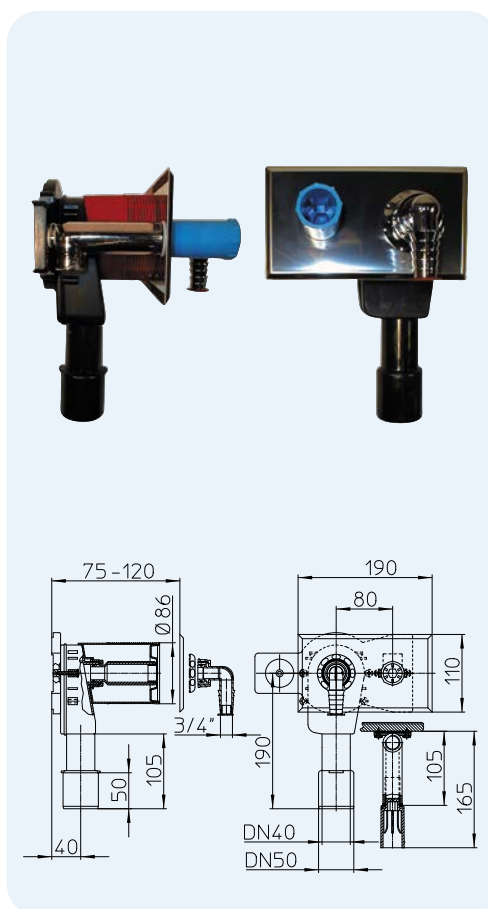


| HL-No. | Dimension | Weight | EAN | Piece/package |
|--------|-----------|--------|---------|---------------|
| 4000.1 | - | 265 g | +041633 | 1 |
| 4000.2 | - | 350 g | +041640 | 1 |

HL405 Concealed washing device trap with integrated cold water supply

Data

| | |
|------------------------|---|
| Capacity | 0,38 l/s |
| Material | PE/Stainless steel/MS |
| Connection dimension | 1" / 1/2" |
| 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 |
| Additional information | with chrome-plated cover, cuttable red spacer, 1/2" MS on/off valve and backing plate |

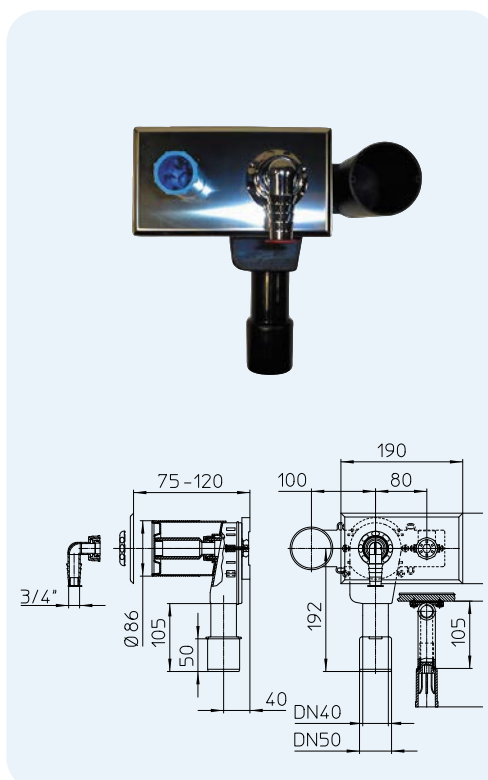


| HL-No. | Dimension | Weight | EAN | Piece/package |
|--------|-----------|--------|---------|---------------|
| 405 | DN40/50 | 973 g | +504053 | 1 |

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

Data

| | |
|------------------------|---|
| Capacity | 0,38 l/s |
| Material | PE/Stainless steel/MS |
| Connection dimension | 1" / 1/2" |
| 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 |

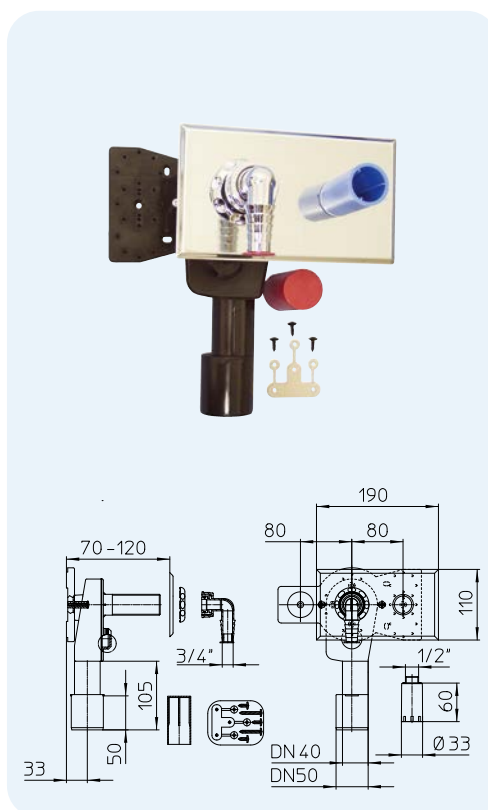


| HL-No. | Dimension | Weight | EAN | Piece/package |
|--------|-----------|--------|---------|---------------|
| 405E | DN40/50 | 1000 g | +504091 | 1 |

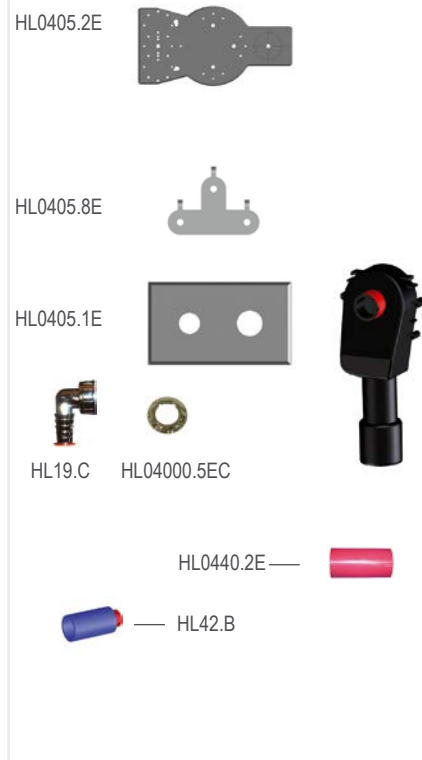
HL405ECO Concealed washing device trap, prepared for individual cold water supply

Data

| | |
|------------------------|---|
| Capacity | 0,38 l/s |
| Material | PE/Stainless steel |
| Connection dimension | 1" |
| Outlet dimension | DN40/50 |
| Standard | DIN 19541, DIN 1988 |
| Height of seal water | 50 mm |
| Recommended for | Siphoning of washing devices, prepared for cold water supply |
| Additional information | with chrome-plated cover, cuttable red spacer and backing plate |



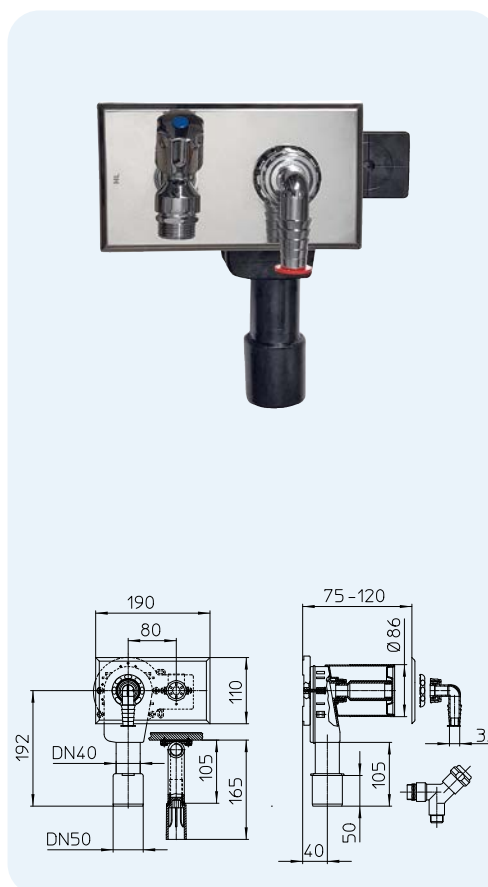
| HL-No. | Dimension | Weight | EAN | Piece/package |
|--------|-----------|--------|---------|---------------|
| 405ECO | DN40/50 | 443 g | +015672 | 5 |



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 dimension | 1" / 3/4" |
| 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 |
| Additional information | with chrome-plated cover, cuttable red spacer, 1/2" MS on/off valve, backing plate and hose connector |



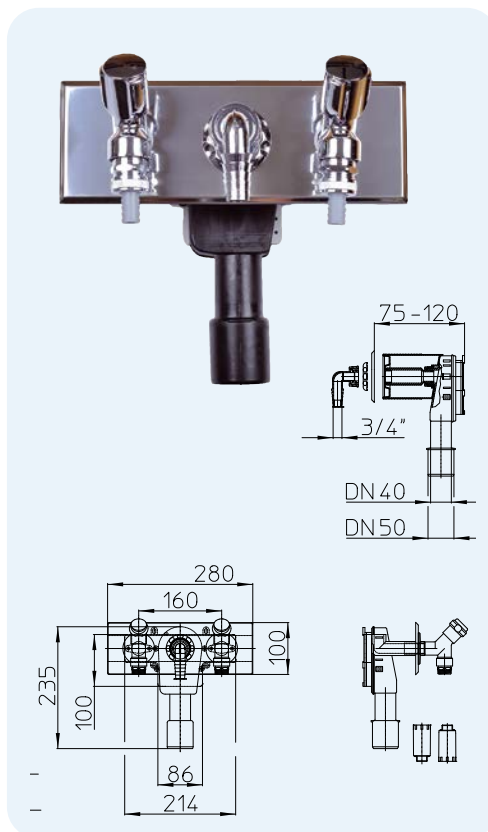
| HL-No. | Dimension | Weight | EAN | Piece/package |
|--------|-----------|--------|---------|---------------|
| 406 | DN40/50 | 1075 g | +504060 | 1 |



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

Data

| | |
|------------------------|---|
| Capacity | 0,38 l/s |
| Material | PE/Stainless steel/MS |
| Connection dimension | 1" / 2 x 3/4" |
| Outlet dimension | DN40/50 |
| Standard | DIN 19541, DIN 1988 |
| Height of seal water | 50 mm |
| Recommended for | Siphoning of washing devices, connection 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, backing plate and hose connector |

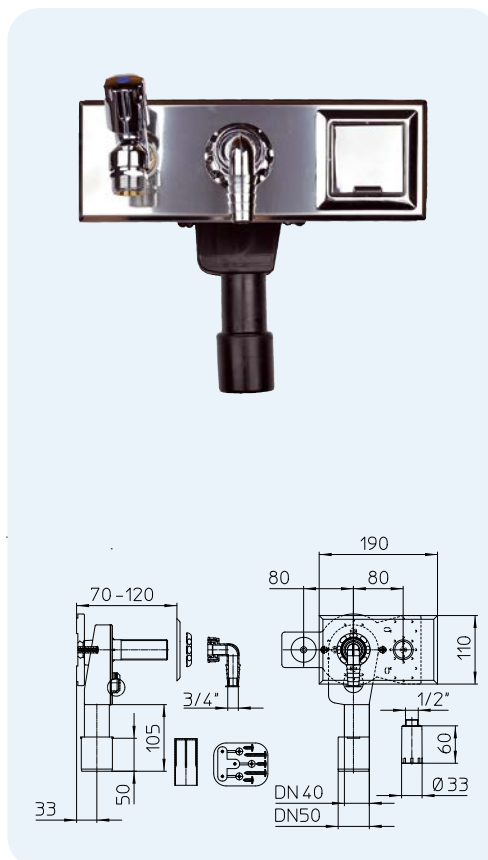


| HL-No. | Dimension | Weight | EAN | Piece/package |
|--------|-----------|--------|---------|---------------|
| 406.2 | DN40/50 | 1931 g | +008247 | 1 |

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

Data

| | |
|------------------------|--|
| Capacity | 0,38 l/s |
| Material | PE/Stainless steel/MS |
| Connection dimension | 1" / 3/4" |
| 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, 2 x 1/2" MS valve, backing plate and hose connector |

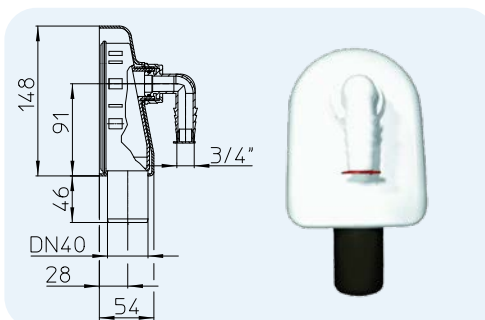


| HL-No. | Dimension | Weight | EAN | Piece/package |
|--------|-----------|--------|---------|---------------|
| 406E | DN40/50 | 1310 g | +504077 | 1 |

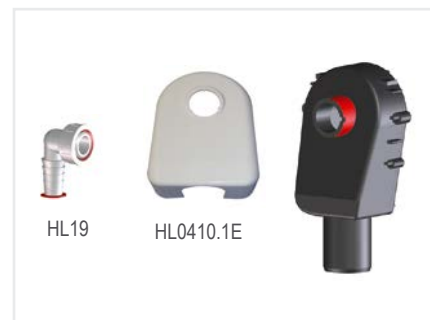
HL410 Washing device trap

Data

| | |
|------------------------|---|
| Capacity | 0,38 l/s |
| Material | PE |
| Connection dim. | 1" |
| Outlet dimension | DN40 |
| Standard | DIN 19541 |
| Height of seal water | 50 mm |
| Recommended for | Siphoning of washing devices, installed on the wall |
| Additional information | with white cover plate and fixing set |



| HL-No. | Dimension | Weight |
|--------|-----------|--------|
| 410 | DN40 | 440 g |

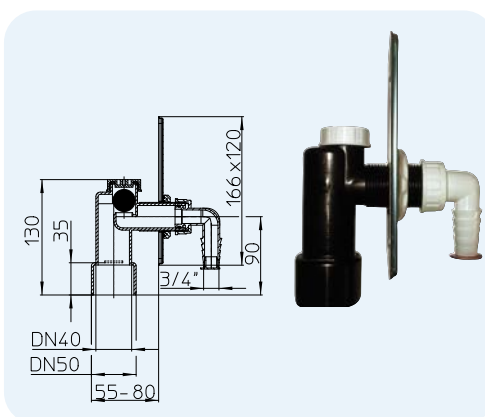


| HL19 | HL0410.1E | |
|------|-----------|---------------|
| | | |
| EAN | +504107 | Piece/package |
| | | 5 |

HL440 Concealed washing device trap with mechanical valve

Data

| | |
|------------------------|--|
| Capacity | 0,33 l/s |
| Material | PE |
| Connection dimension | 1" |
| Outlet dimension | DN40/50 |
| Standard | DIN 19541 |
| Height of seal water | mechanical ball-trap |
| Recommended for | Siphoning of washing devices, little depth |
| Additional information | with chrome-plated cover |



| HL-No. | Dimension | Weight |
|--------|-----------|--------|
| 440 | DN40/50 | 200 g |



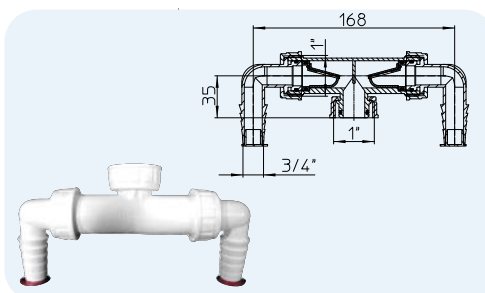
| HL0440.1E | | |
|-----------|---------|---------------|
| | | |
| EAN | +504404 | Piece/package |
| | | 20 |

HL Traps for washing devices – Products – Accessories

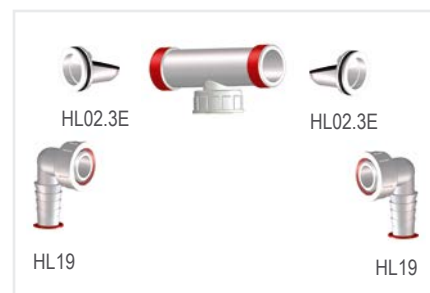
HL2 Double hose connector with backwater valve

Data

| | |
|------------------------|--|
| Capacity | 1 connector 0,28 l/s 2 connectors each 0,23 l/s |
| Material | PP |
| Connection dimension | 2 x 3/4" |
| Outlet dimension | 1" |
| Recommended for | Problem-solver |
| Additional information | with integrated backwater valves |



| HL-No. | Dimension | Weight |
|--------|-----------|--------|
| 2 | 1" x 3/4" | 85 g |

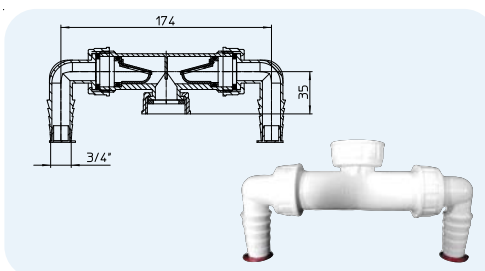


| HL02.3E | HL2 | HL02.3E |
|---------|---------|---------------|
| | | |
| EAN | +520022 | Piece/package |
| | | 10 |

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

Data

| | |
|------------------------|--|
| Capacity | 1 connector 0,28 l/s 2 connectors each 0,23 l/s |
| Material | PP |
| Connection dimension | 2 x 3/4" |
| Outlet dimension | 1" with flat gasket |
| Recommended for | Problem-solver |
| Additional information | with integrated backwater valves |



| HL-No. | Dimension | Weight |
|--------|-----------|--------|
| 2.0 | 1" x 3/4" | 80 g |

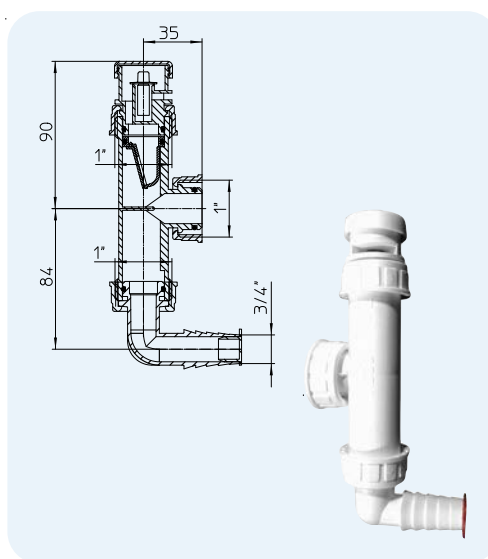


| HL02.3E | HL2.0 | HL02.3E |
|---------|---------|---------------|
| | | |
| EAN | +530021 | Piece/package |
| | | 1 |

HL2.1 Hose connector with backwater valve and ventpipe

Data

| | |
|------------------------|--|
| Capacity | 0,28 l/s |
| Material | PP |
| Connection dimension | 3/4" |
| Outlet dimension | 1" |
| Recommended for | Prevents the trap from being sucked out |
| Additional information | with integrated backwater valve and ventpipe |

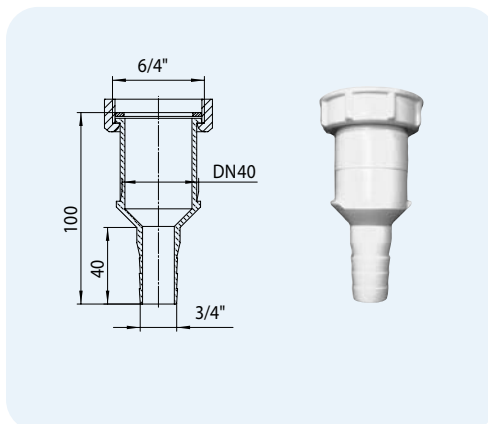


| HL-No. | Dimension | Weight | EAN | Piece/package |
|--------|-----------|--------|----------|---------------|
| 2.1 | 1" x 3/4" | 65 g | +5320213 | 1 |

HL17 General connector

Data

| | |
|----------------------|--|
| Material | PP |
| Connection dimension | 3/4" |
| Outlet dimension | 6/4"/DN40 |
| Recommended for | Junction from tube to plug or screw connection |

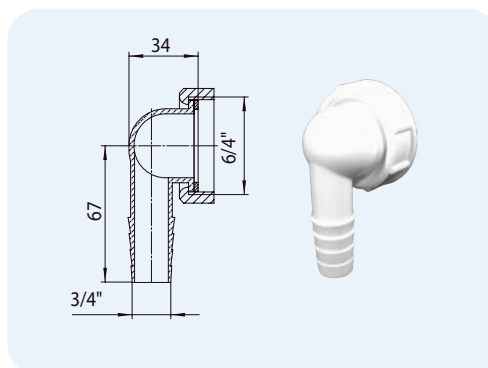


| HL-No. | Dimension | Weight | EAN | Piece/package |
|--------|--------------------|--------|---------|---------------|
| 17 | 6/4" x DN40 x 3/4" | 35 g | +500178 | 1 |

HL18 General hose connector

Data

| | |
|----------------------|--|
| Material | PP |
| Connection dimension | 3/4" |
| Outlet dimension | 6/4" |
| Recommended for | Junction from tube to screw connection |

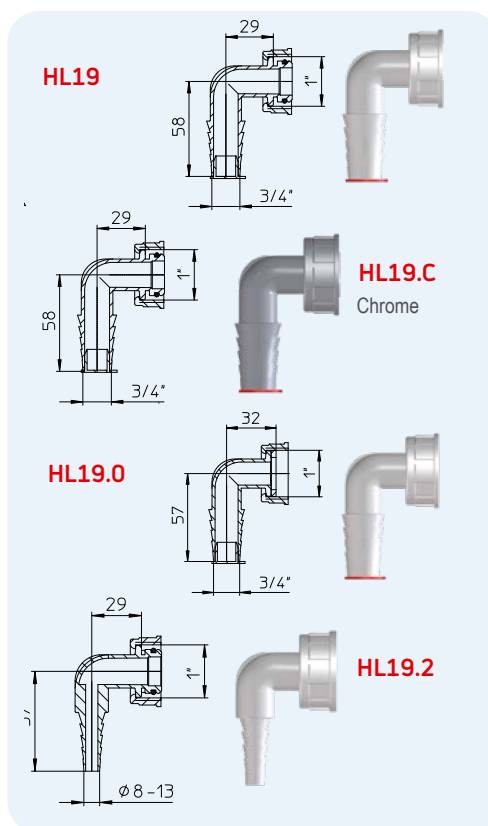


| HL-No. | Dimension | Weight | EAN | Piece/package |
|--------|-------------|--------|---------|---------------|
| 18 | 6/4" x 3/4" | 25 g | +500185 | 1 |

HL19... Hose connector

Data

| | |
|------------------------|---|
| Material | PP |
| Connection dimension | HL19, HL19.0, HL19.C: 3/4" HL19.2: Ø 8 – 13 mm |
| Outlet dimension | 1" |
| Recommended for | Connection of tubes of washing devices |
| Additional information | Gasket = O-ring, except HL19.0 |

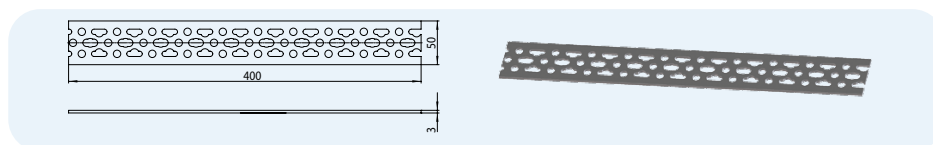


| HL-No. | Dimension | Weight | EAN | Piece/package |
|--------|----------------|--------|---------|---------------|
| 19 | 1" x 3/4" | 18 g | +100194 | 10 |
| 19.C | 1" x 3/4" | 18 g | +190041 | 1 |
| 19.0 | 1" x 3/4" | 18 g | +112197 | 1 |
| 19.2 | 1" x 8 – 13 mm | 15 g | +001927 | 1 |

HL405B Backing plate

Data

| | |
|-----------------|--|
| Material | Galvanized steel |
| Recommended for | fits to HL44, HL405(E)(ECO) and HL406(E)(.2) |

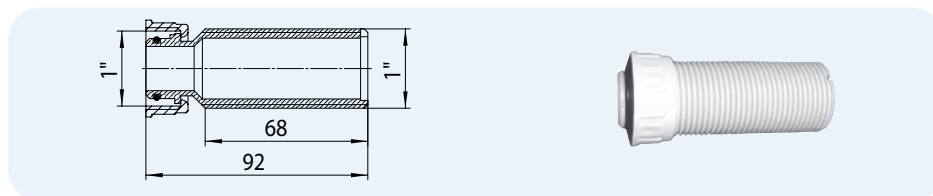


| HL-No. | Dimension | Weight | EAN | Piece/package |
|--------|-------------|--------|---------|---------------|
| 405B | 50 x 400 mm | 965 g | +504084 | 1 |

HL420 Extension for the thread

Data

| | |
|----------------------|--|
| Material | PP |
| Connection dimension | 1" |
| Outlet dimension | 1" |
| Recommended for | Elongation of the thread for all HL washing device traps |

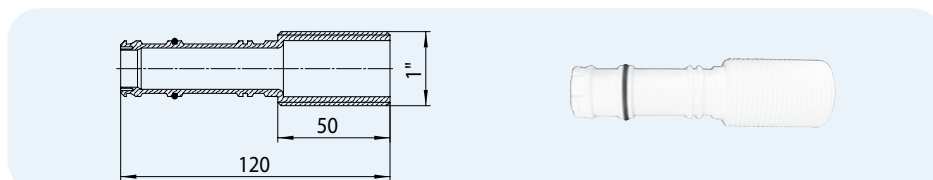


| HL-No. | Dimension | Weight | EAN | Piece/package |
|--------|-----------|--------|---------|---------------|
| 420 | 1" | 20 g | +504206 | 1 |

HL421 Pushfit extension for the thread

Data

| | |
|----------------------|---|
| Material | PP |
| Connection dimension | 1" |
| 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 |