



MULTI-STAGE SELF-CLEANING FILTERS

HYDRA DUO and TRIO

Exclusive multi-stage filters with self-cleaning pre-filter, for dual and triple stage water filtration and treatment.

The self-cleaning pre-filter with back-wash, performs all features of HYDRA self-cleaning filters with exclusive filter cartridges:

- **RAH** stainless steel net cartridge at 90 micron.
- **RLH** plastic net cartridge at 90 micron.
- **RSH** pleated plastic net cartridge at 50 micron.

HYDRA cartridges are provided with brand new grey flat gaskets with antimicrobial protection, performed by silver based antimicrobial agent included in the gasket plastic matrix.

The cartridges for second and third stage are available from the wide range of 10" Atlas Filtri cartridges.

IN/OUT connections are available at 1/2", 3/4", 1" with brass or plastic BSP threads, or with NPT plastic threads at 3/4", 1".

AUTO models provided with fully automatic self-cleaning pre-filter are available on demand.

The housings are provided with Filter-Fit, a special centering device for SX cartridges.

All models are provided with the drain funnel to prevent from contamination by back-flow, in compliance with UNI EN 1717-11/2002.

HYDRA DUO and TRIO can be used with KIT AUTO and work as a fully automatic self-cleaning filter with back-wash.

HYDRA DUO and TRIO are manufactured with the finest and most advanced materials under constant focus on innovative processing technologies and ceaseless modernization to ensure the absolute quality of our products, certified under the most stringent certification procedures and standards: ACS (France), EAC (Russia).

All HYDRA DUO and TRIO are provided complete with a full set of accessories: wall bracket, opening spanner, discharge hose-holder, drain funnel and a complete discharge valve kit.

HYDRA DUO and TRIO

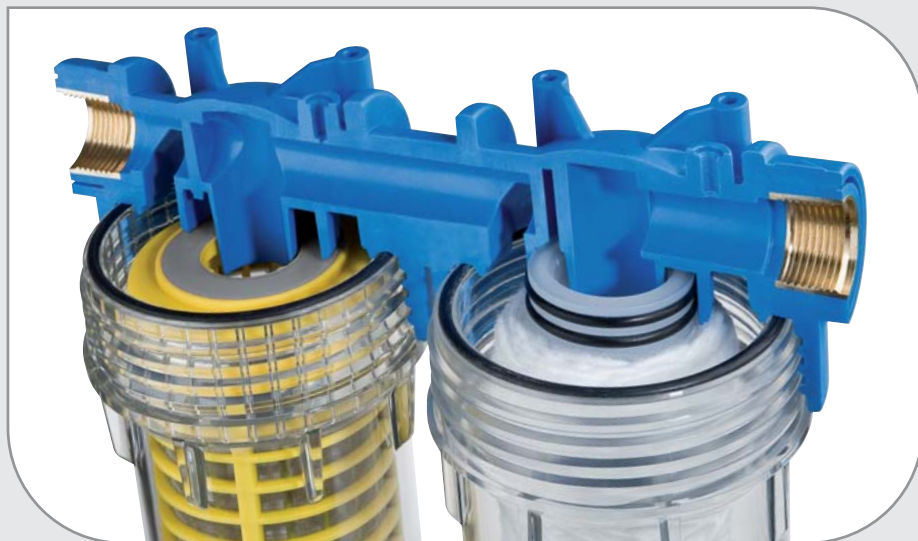
FOR CARTRIDGES SX and BX

Second and third stages housings fit to both standard SX (DOE) cartridges and to exclusive BX cartridges.

The full range of Atlas Filtri® SX and BX cartridges is suitable to Hydra multi-stage housings and provides the widest range of water filtration and treatment units.



SX cartridges with standard flat seals.



BX cartridges with 45 mm double o-ring collar. Quick-fit connection for a perfect tightening.

SYMBOLS LEGEND



For domestic use



For technical and industrial use



Filter housings made in PET, a highly recyclable plastic, are manufactured with a proprietary procedure saving up to 60% of energy in injection molding compared with standard plastics. That is one of Atlas Filtri commitments to comply with Kyoto Treaty for the reduction of green house gas (CO₂) emissions in the atmosphere.

HOUSINGS CERTIFICATIONS



The products are tested and certified under the most stringent procedures worldwide, in compliance with DM 25 (Italy), EAC (Russia) and with the sanitary certification ACS (France).

ACCESSORIES ON DEMAND



-X- spanner
CODE RB7403010

-DUO- wall bracket
CODE RB7400017



-TRIO- wall bracket CODE RB7400019



3/4" plastic nipple
with o-ring
CODE LB7404012



3/4" / 1" brass nipples with o-ring (pair)
CODE RB7404001 / CODE RB7404002



-LUBRIKIT- single-dose lubricant for housing o-ring
CODE RE9020650



-KIT AUTO- CODE RE7120024
automatic discharge kit (see pages 160-161)

ACCESSORIES INCLUDED

DISCHARGE KIT



brass discharge
ball-valve with gasket



plastic
hose-holder



plastic nipple
with o-ring



drain funnel

In compliance with the European Standard UNI EN 1717/2002: designed to prevent back-flow contamination by making all elements downstream the discharge vent to atmosphere (protection unit symbol: DC)



Filterfit - cartridge centering device



HYDRA
FILTER MODEL

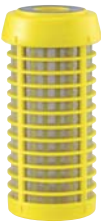
DUO
VERSION

3/4"
IN / OUT

OT
THREADS TYPE

RAH
PREFILTER CARTRIDGE

Exclusive HYDRA filter cartridges
with antimicrobial flat seal
for the self-cleaning stage.



RAH
stainless steel
net cartridge,
filtration at 90 micron.
CODE RA5000020



RLH
plastic net cartridge,
filtration at 90 micron.
CODE RA5000010

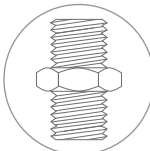
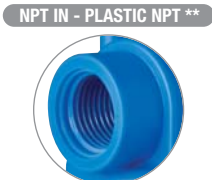


RSH
pleated plastic
net cartridge,
filtration at 50 micron.
CODE RA5000040

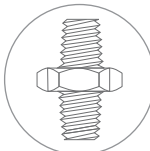


All cartridges are provided
with dedicated
stainless steel
AISI 316 cartridge spring.
CODE RE7120040

1/2"
3/4"
1"



*** BSP**
parallel (cylindrical)
ISO 228



**** NPT**
tapered (conical)
ANSI/ASME B1.20.1



HYDRA DUO

WORKING CONDITIONS

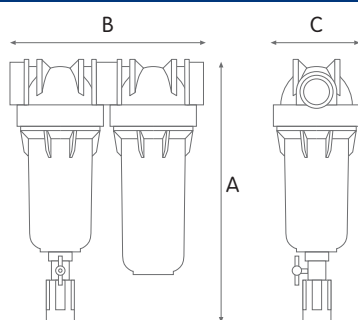
Max working pressure _____ 8 bar (116 psi)
 Min working pressure _____ 1,8 bar (26 psi)
 Max working temperature _____ 45°C (113°F)
 Min working temperature _____ 4°C (39,2°F)



DRAIN FUNNEL
 Back-flow
 preventing device
 UNI EN 1717-11/2002

SPECIFICATIONS

Non-toxic materials, suitable for drinking water.
 Head: reinforced polypropylene.
 Bowl: PET.
 O-rings: EPDM.
 Breather-valve: body stainless steel, o-ring EPDM.
 IN/OUT brass threads: CW 614 N brass.
 Discharge ball-valve: CW 617 N brass nickel plated.
 Discharge plastic nipple: reinforced polypropylene.
 Drain funnel: reinforced polypropylene.



HYDRA DUO RLH multi-stage self-cleanig filters

HOUSINGS WITH BRASS BSP THREADS

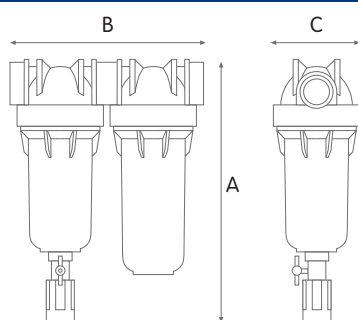
CODE	MODEL	SELF-CLEANING NOMINAL FILTRATION MICRON	IN/OUT	THREADS	DIMENSIONS mm		
					A	B	C
RA6096143	HYDRA DUO RLH 1/2"	90	1/2"	BRASS-BSP	390	228	107
RA6096153	HYDRA DUO RLH 3/4"	90	3/4"	BRASS-BSP	390	228	107
RA6096163	HYDRA DUO RLH 1"	90	1"	BRASS-BSP	390	228	107

HOUSINGS WITH PLASTIC BSP THREADS

CODE	MODEL	SELF-CLEANING NOMINAL FILTRATION MICRON	IN/OUT	THREADS	DIMENSIONS mm		
					A	B	C
RA6096142	HYDRA DUO RLH 1/2" IN	90	1/2"	PLASTIC-BSP	390	228	107
RA6096152	HYDRA DUO RLH 3/4" IN	90	3/4"	PLASTIC-BSP	390	228	107
RA6096162	HYDRA DUO RLH 1" IN	90	1"	PLASTIC-BSP	390	228	107

HOUSINGS WITH PLASTIC NPT THREADS

CODE	MODEL	SELF-CLEANING NOMINAL FILTRATION MICRON	IN/OUT	THREADS	DIMENSIONS mm		
					A	B	C
RA6096151	HYDRA DUO RLH 3/4" NPT IN	90	3/4"	PLASTIC-NPT	390	228	107
RA6096161	HYDRA DUO RLH 1" NPT IN	90	1"	PLASTIC-NPT	390	228	107

**WORKING CONDITIONS**

Max working pressure _____ 8 bar (116 psi)
 Min working pressure _____ 1,8 bar (26 psi)
 Max working temperature _____ 45°C (113°F)
 Min working temperature _____ 4°C (39,2°F)



DRAIN FUNNEL
 Back-flow
 preventing device
 UNI EN 1717-11/2002

SPECIFICATIONS

Non-toxic materials, suitable for drinking water.
 Head: reinforced polypropylene.
 Bowl: PET.
 O-rings: EPDM.
 Breather-valve: body stainless steel, o-ring EPDM.
 IN/OUT brass threads: CW 614 N brass.
 Discharge ball-valve: CW 617 N brass nickel plated.
 Discharge plastic nipple: reinforced polypropylene.
 Drain funnel: reinforced polypropylene.

HYDRA DUO RAH multi-stage self-cleanig filters**HOUSINGS WITH BRASS BSP THREADS**

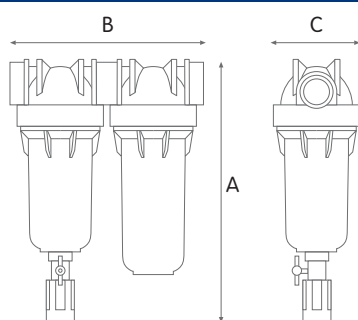
CODE	MODEL	SELF-CLEANING NOMINAL FILTRATION MICRON	IN/OUT	THREADS	DIMENSIONS mm		
					A	B	C
RA6096213	HYDRA DUO RAH 1/2"	90	1/2"	BRASS-BSP	390	228	107
RA6096223	HYDRA DUO RAH 3/4"	90	3/4"	BRASS-BSP	390	228	107
RA6096233	HYDRA DUO RAH 1"	90	1"	BRASS-BSP	390	228	107

HOUSINGS WITH PLASTIC BSP THREADS

CODE	MODEL	SELF-CLEANING NOMINAL FILTRATION MICRON	IN/OUT	THREADS	DIMENSIONS mm		
					A	B	C
RA6096212	HYDRA DUO RAH 1/2" IN	90	1/2"	PLASTIC-BSP	390	228	107
RA6096222	HYDRA DUO RAH 3/4" IN	90	3/4"	PLASTIC-BSP	390	228	107
RA6096232	HYDRA DUO RAH 1" IN	90	1"	PLASTIC-BSP	390	228	107

HOUSINGS WITH PLASTIC NPT THREADS

CODE	MODEL	SELF-CLEANING NOMINAL FILTRATION MICRON	IN/OUT	THREADS	DIMENSIONS mm		
					A	B	C
RA6096221	HYDRA DUO RAH 3/4" NPT IN	90	3/4"	PLASTIC-NPT	390	228	107
RA6096231	HYDRA DUO RAH 1" NPT IN	90	1"	PLASTIC-NPT	390	228	107

**WORKING CONDITIONS**

Max working pressure _____ 8 bar (116 psi)
 Min working pressure _____ 1,8 bar (26 psi)
 Max working temperature _____ 45°C (113°F)
 Min working temperature _____ 4°C (39,2°F)



DRAIN FUNNEL
 Back-flow
 preventing device
 UNI EN 1717-11/2002

SPECIFICATIONS

Non-toxic materials, suitable for drinking water.
 Head: reinforced polypropylene.
 Bowl: PET.
 O-rings: EPDM.
 Breather-valve: body stainless steel, o-ring EPDM.
 IN/OUT brass threads: CW 614 N brass.
 Discharge ball-valve: CW 617 N brass nickel plated.
 Discharge plastic nipple: reinforced polypropylene.
 Drain funnel: reinforced polypropylene.

HYDRA DUO RSH multi-stage self-cleanig filters**HOUSINGS WITH BRASS BSP THREADS**

CODE	MODEL	SELF-CLEANING NOMINAL FILTRATION MICRON	IN/OUT	THREADS	DIMENSIONS mm		
					A	B	C
RA6096171	HYDRA DUO RSH 1/2"	50	1/2"	BRASS-BSP	390	228	107
RA6096172	HYDRA DUO RSH 3/4"	50	3/4"	BRASS-BSP	390	228	107
RA6096173	HYDRA DUO RSH 1"	50	1"	BRASS-BSP	390	228	107

HOUSINGS WITH PLASTIC BSP THREADS

CODE	MODEL	SELF-CLEANING NOMINAL FILTRATION MICRON	IN/OUT	THREADS	DIMENSIONS mm		
					A	B	C
RA6096175	HYDRA DUO RSH 1/2" IN	50	1/2"	PLASTIC-BSP	390	228	107
RA6096182	HYDRA DUO RSH 3/4" IN	50	3/4"	PLASTIC-BSP	390	228	107
RA6096192	HYDRA DUO RSH 1" IN	50	1"	PLASTIC-BSP	390	228	107

HOUSINGS WITH PLASTIC NPT THREADS

CODE	MODEL	SELF-CLEANING NOMINAL FILTRATION MICRON	IN/OUT	THREADS	DIMENSIONS mm		
					A	B	C
RA6096181	HYDRA DUO RSH 3/4" NPT IN	50	3/4"	PLASTIC-NPT	390	228	107
RA6096191	HYDRA DUO RSH 1" NPT IN	50	1"	PLASTIC-NPT	390	228	107



HYDRA TRIO

WORKING CONDITIONS

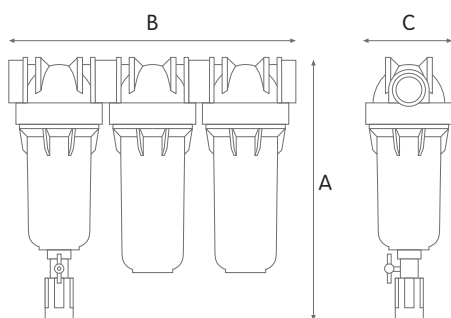
Max working pressure _____ 8 bar (116 psi)
 Min working pressure _____ 1,8 bar (26 psi)
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 Min working temperature _____ 4°C (39,2°F)



DRAIN FUNNEL
 Back-flow
 preventing device
 UNI EN 1717-11/2002

SPECIFICATIONS

Non-toxic materials, suitable for drinking water.
 Head: reinforced polypropylene.
 Bowl: PET.
 O-rings: EPDM.
 Breather-valve: body stainless steel, o-ring EPDM.
 IN/OUT brass threads: CW 614 N brass.
 Discharge ball-valve: CW 617 N brass nickel plated.
 Discharge plastic nipple: reinforced polypropylene.
 Drain funnel: reinforced polypropylene.



HYDRA TRIO RLH multi-stage self-cleanig filters

HOUSINGS WITH BRASS BSP THREADS

CODE	MODEL	SELF-CLEANING NOMINAL FILTRATION MICRON	IN/OUT	THREADS	DIMENSIONS mm		
					A	B	C
RA6095143	HYDRA TRIO RLH 1/2"	90	1/2"	BRASS-BSP	390	336	107
RA6095153	HYDRA TRIO RLH 3/4"	90	3/4"	BRASS-BSP	390	336	107
RA6095163	HYDRA TRIO RLH 1"	90	1"	BRASS-BSP	390	336	107



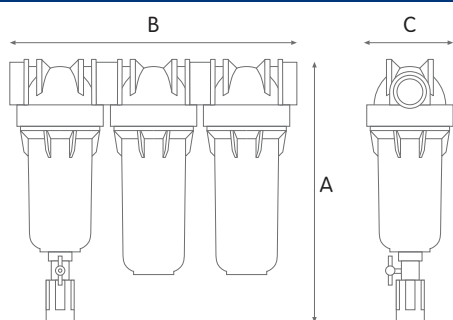
HOUSINGS WITH PLASTIC BSP THREADS

CODE	MODEL	SELF-CLEANING NOMINAL FILTRATION MICRON	IN/OUT	THREADS	DIMENSIONS mm		
					A	B	C
RA6095142	HYDRA TRIO RLH 1/2" IN	90	1/2"	PLASTIC-BSP	390	336	107
RA6095152	HYDRA TRIO RLH 3/4" IN	90	3/4"	PLASTIC-BSP	390	336	107
RA6095162	HYDRA TRIO RLH 1" IN	90	1"	PLASTIC-BSP	390	336	107

HOUSINGS WITH PLASTIC NPT THREADS

CODE	MODEL	SELF-CLEANING NOMINAL FILTRATION MICRON	IN/OUT	THREADS	DIMENSIONS mm		
					A	B	C
RA6095141	HYDRA TRIO RLH 3/4" NPT IN	90	3/4"	PLASTIC-NPT	390	336	107
RA6095151	HYDRA TRIO RLH 1" NPT IN	90	1"	PLASTIC-NPT	390	336	107



**WORKING CONDITIONS**

Max working pressure _____ 8 bar (116 psi)
 Min working pressure _____ 1,8 bar (26 psi)
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 Min working temperature _____ 4°C (39,2°F)



DRAIN FUNNEL
 Back-flow
 preventing device
 UNI EN 1717-11/2002

SPECIFICATIONS

Non-toxic materials, suitable for drinking water.
 Head: reinforced polypropylene.
 Bowl: PET.
 O-rings: EPDM.
 Breather-valve: body stainless steel, o-ring EPDM.
 IN/OUT brass threads: CW 614 N brass.
 Discharge ball-valve: CW 617 N brass nickel plated.
 Discharge plastic nipple: reinforced polypropylene.
 Drain funnel: reinforced polypropylene.

HYDRA TRIO RAH multi-stage self-cleanig filters**HOUSINGS WITH BRASS BSP THREADS**

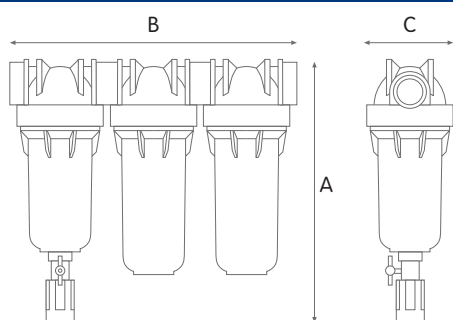
CODE	MODEL	SELF-CLEANING NOMINAL FILTRATION MICRON	IN/OUT	THREADS	DIMENSIONS mm		
					A	B	C
RA6095113	HYDRA TRIO RAH 1/2"	90	1/2"	BRASS-BSP	390	336	107
RA6095223	HYDRA TRIO RAH 3/4"	90	3/4"	BRASS-BSP	390	336	107
RA6095233	HYDRA TRIO RAH 1"	90	1"	BRASS-BSP	390	336	107

HOUSINGS WITH PLASTIC BSP THREADS

CODE	MODEL	SELF-CLEANING NOMINAL FILTRATION MICRON	IN/OUT	THREADS	DIMENSIONS mm		
					A	B	C
RA6095112	HYDRA TRIO RAH 1/2" IN	90	1/2"	PLASTIC-BSP	390	336	107
RA6095222	HYDRA TRIO RAH 3/4" IN	90	3/4"	PLASTIC-BSP	390	336	107
RA6095232	HYDRA TRIO RAH 1" IN	90	1"	PLASTIC-BSP	390	336	107

HOUSINGS WITH PLASTIC NPT THREADS

CODE	MODEL	SELF-CLEANING NOMINAL FILTRATION MICRON	IN/OUT	THREADS	DIMENSIONS mm		
					A	B	C
RA6095221	HYDRA TRIO RAH 3/4" NPT IN	90	3/4"	PLASTIC-NPT	390	336	107
RA6095231	HYDRA TRIO RAH 1" NPT IN	90	1"	PLASTIC-NPT	390	336	107

**WORKING CONDITIONS**

Max working pressure _____ 8 bar (116 psi)
 Min working pressure _____ 1,8 bar (26 psi)
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DRAIN FUNNEL
 Back-flow
 preventing device
 UNI EN 1717-11/2002

SPECIFICATIONS

Non-toxic materials, suitable for drinking water.
 Head: reinforced polypropylene.
 Bowl: PET.
 O-rings: EPDM.
 Breather-valve: body stainless steel, o-ring EPDM.
 IN/OUT brass threads: CW 614 N brass.
 Discharge ball-valve: CW 617 N brass nickel plated.
 Discharge plastic nipple: reinforced polypropylene.
 Drain funnel: reinforced polypropylene.

HYDRA TRIO RSH multi-stage self-cleanig filters**HOUSINGS WITH BRASS BSP THREADS**

CODE	MODEL	SELF-CLEANING NOMINAL FILTRATION MICRON	IN/OUT	THREADS	DIMENSIONS mm		
					A	B	C
RA6095173	HYDRA TRIO RSH 1/2"	50	1/2"	BRASS-BSP	390	336	107
RA6095183	HYDRA TRIO RSH 3/4"	50	3/4"	BRASS-BSP	390	336	107
RA6095193	HYDRA TRIO RSH 1"	50	1"	BRASS-BSP	390	336	107

HOUSINGS WITH PLASTIC BSP THREADS

CODE	MODEL	SELF-CLEANING NOMINAL FILTRATION MICRON	IN/OUT	THREADS	DIMENSIONS mm		
					A	B	C
RA6095172	HYDRA TRIO RSH 1/2" IN	50	1/2"	PLASTIC-BSP	390	336	107
RA6095182	HYDRA TRIO RSH 3/4" IN	50	3/4"	PLASTIC-BSP	390	336	107
RA6095192	HYDRA TRIO RSH 1" IN	50	1"	PLASTIC-BSP	390	336	107

HOUSINGS WITH PLASTIC NPT THREADS

CODE	MODEL	SELF-CLEANING NOMINAL FILTRATION MICRON	IN/OUT	THREADS	DIMENSIONS mm		
					A	B	C
RA6095181	HYDRA TRIO RSH 3/4" NPT IN	50	3/4"	PLASTIC-NPT	390	336	107
RA6095191	HYDRA TRIO RSH 1" NPT IN	50	1"	PLASTIC-NPT	390	336	107

