



# HYDRA DUO and TRIO

multi-stage self-cleaning filters

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

# HYDRA DUO and TRIO

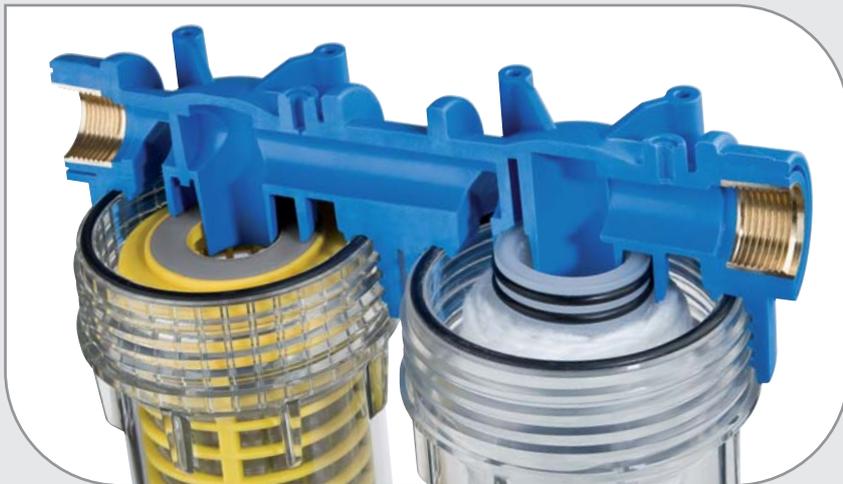
FOR CARTRIDGES SX and BX

**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.



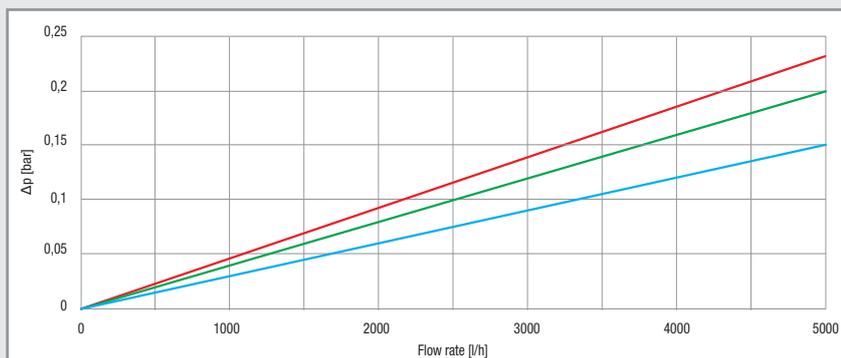
**SX** cartridges with standard flat seals.



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

## FLOW RATE vs PRESSURE DROP $\Delta p$

Testing mode: 20°C, 3 BAR



RSH —  
RLH —  
RAH —

ACCESSORIES ON DEMAND



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 186-187)

## ACCESSORIES INCLUDED



-X- spanner

-DUO- wall bracket



-TRIO- wall bracket

## DISCHARGE KIT



brass discharge ball-valve with gasket

plastic hose-holder



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



DUO



TRIO

**HYDRA**

FILTER MODEL

**DUO**

VERSION

**3/4"**

IN / OUT

1/2"

3/4"

1"

**RAH**

PREFILTER CARTRIDGE

RAH



RLH



RSH



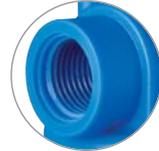
**OT**

THREADS TYPE

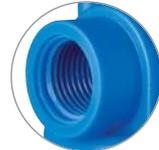
OT - BRASS BSP \*



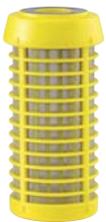
IN - PLASTIC BSP \*



NPT IN - PLASTIC NPT \*\*



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 302 cartridge spring**.  
CODE RE7120040

**CERTIFICATIONS**



Housings are tested and certified under the most stringent procedures worldwide, in compliance with DM 25 (Italy), with the sanitary certification ACS (France), EAC/Ghostreghistrizia (Russia) and WaterMark (Australia).

**SYMBOLS LEGEND**



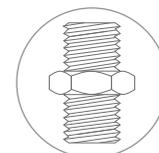
For domestic use



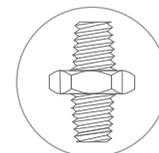
For technical and industrial use



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 (CO<sub>2</sub>) emissions in the atmosphere.



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



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



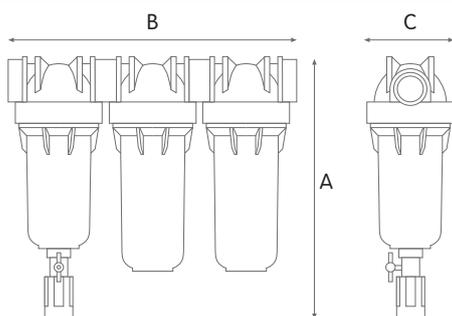
# HYDRA TRIO

## WORKING CONDITIONS

Max working pressure:  
 BSP versions \_\_\_\_\_ 8 bar (116 psi)  
 NPT versions \_\_\_\_\_ 8,6 bar (125 psi)  
 Min working pressure \_\_\_\_\_ 1,8 bar (26 psi)  
 Max working temperature \_\_\_\_\_ 45°C (113°F)  
 Min working temperature \_\_\_\_\_ 4°C (39,2°F)

## 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 617 N brass.  
 Discharge ball-valve: CW 617 N brass nickel plated.  
 Drain funnel: reinforced polypropylene.



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

## HYDRA TRIO RLH multi-stage self-cleaning filters

### HOUSINGS WITH BRASS BSP THREADS

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



### HOUSINGS WITH PLASTIC BSP THREADS

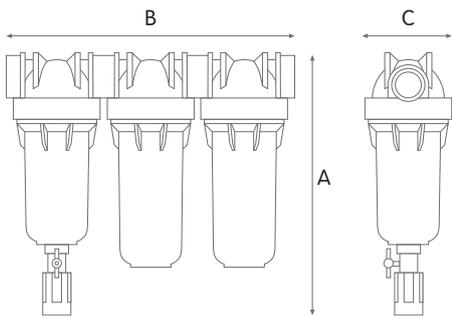
CODE	MODEL	SELF-CLEANING NOMINAL FILTRATION MICRON	IN/OUT	DIMENSIONS mm		
				A	B	C
RA6095142	HYDRA TRIO RLH 1/2" IN	90	1/2"	390	336	107
RA6095152	HYDRA TRIO RLH 3/4" IN	90	3/4"	390	336	107
RA6095162	HYDRA TRIO RLH 1" IN	90	1"	390	336	107



### HOUSINGS WITH PLASTIC NPT THREADS

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

SELF-CLEANING  
FILTERS



**WORKING CONDITIONS**

Max working pressure:  
 BSP versions \_\_\_\_\_ 8 bar (116 psi)  
 NPT versions \_\_\_\_\_ 8,6 bar (125 psi)  
 Min working pressure \_\_\_\_\_ 1,8 bar (26 psi)  
 Max working temperature \_\_\_\_\_ 45°C (113°F)  
 Min working temperature \_\_\_\_\_ 4°C (39,2°F)

**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 617 N brass.  
 Discharge ball-valve: CW 617 N brass nickel plated.  
 Drain funnel: reinforced polypropylene.



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



**HYDRA TRIO RAH multi-stage self-cleaning filters**

**HOUSINGS WITH BRASS BSP THREADS**

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



**HOUSINGS WITH PLASTIC BSP THREADS**

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

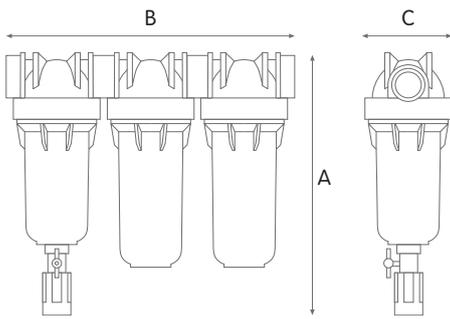
**HOUSINGS WITH PLASTIC NPT THREADS**

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



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Some items in the list are subject to minimum order quantities and/or to longer delivery term.



**WORKING CONDITIONS**

Max working pressure:  
 BSP versions \_\_\_\_\_ 8 bar (116 psi)  
 NPT versions \_\_\_\_\_ 8,6 bar (125 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 617 N brass.  
 Discharge ball-valve: CW 617 N brass nickel plated.  
 Drain funnel: reinforced polypropylene.



**HYDRA TRIO RSH multi-stage self-cleaning filters**

**HOUSINGS WITH BRASS BSP THREADS**

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



**HOUSINGS WITH PLASTIC BSP THREADS**

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

**HOUSINGS WITH PLASTIC NPT THREADS**

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

SELF-CLEANING  
 FILTERS