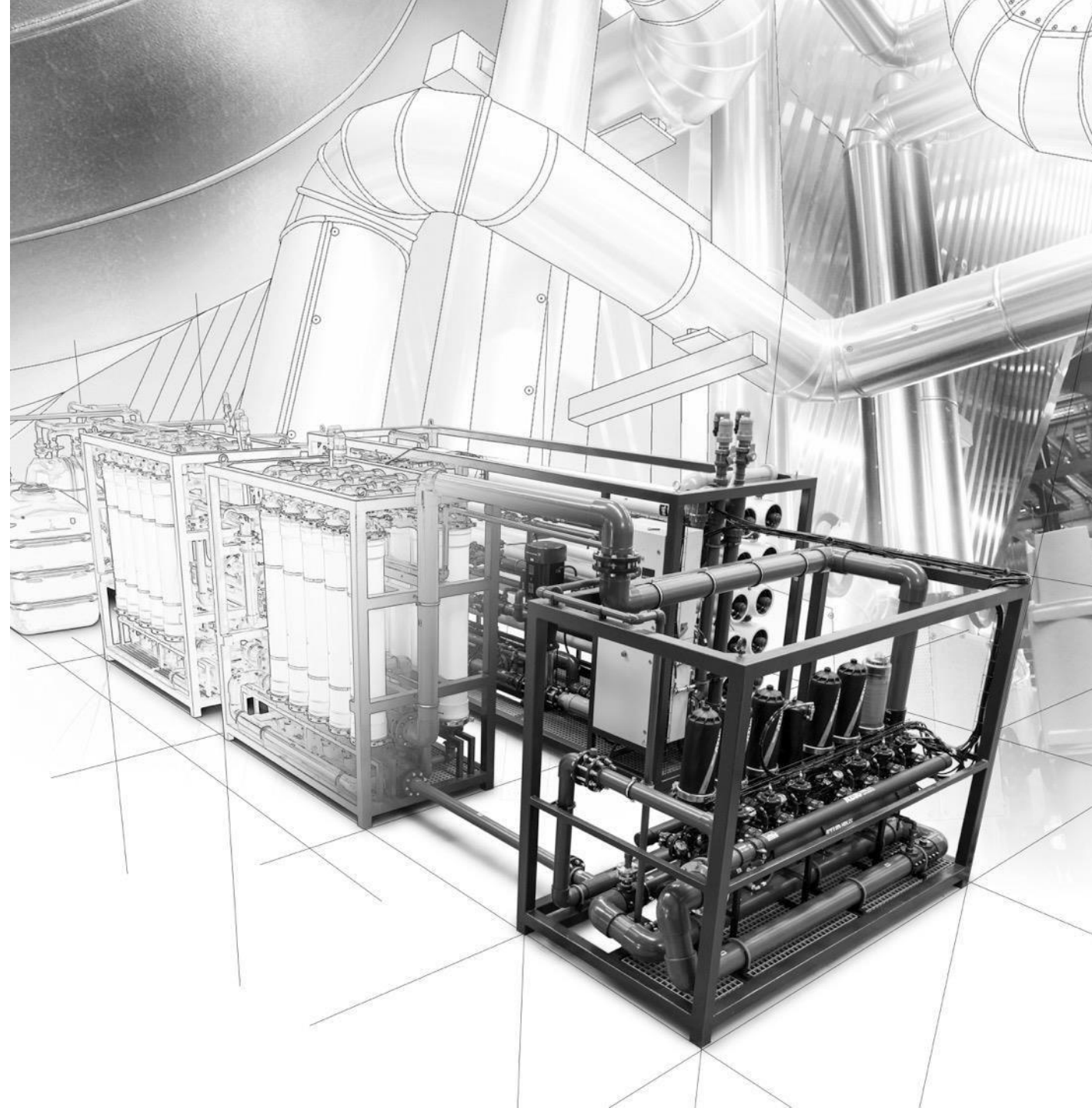


FILTRATION TECHNOLOGIES

AZUD HELIX AUTOMATIC
AZUD LUXON

HARVEL AZUD
RESPONSIBLE WATER RESOURCE MANAGEMENT



FILTRATION TECHNOLOGIES

AZUD HELIX AUTOMATIC



SALIENT FEATURES



RELIABLE FILTRATION

Centrifugal separation + In-depth filtration



EFFICIENT SELF-CLEANING

DLP system: minimum water and energy consumption
Uninterrupted filtered water supply



MINIMUM BACKWASH FREQUENCY

AZUD HELIX SYSTEM + Increased filtration area



MODULAR SOLUTION

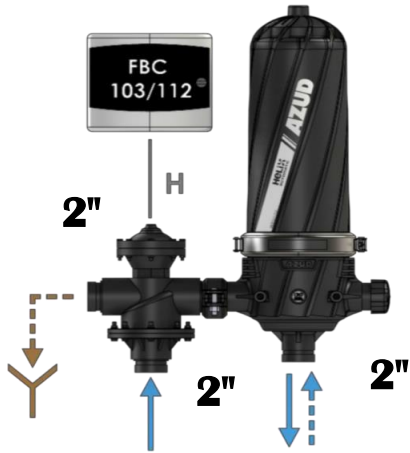
WIDE RANGE of filtration degrees

STANDARD RANGE

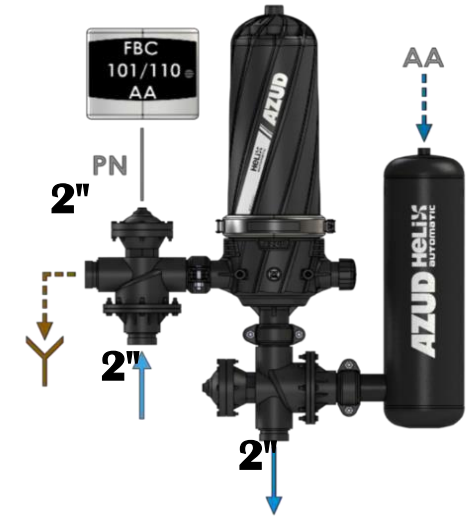
LOW SALINITY WATER

TDS < 6 000 mg/l

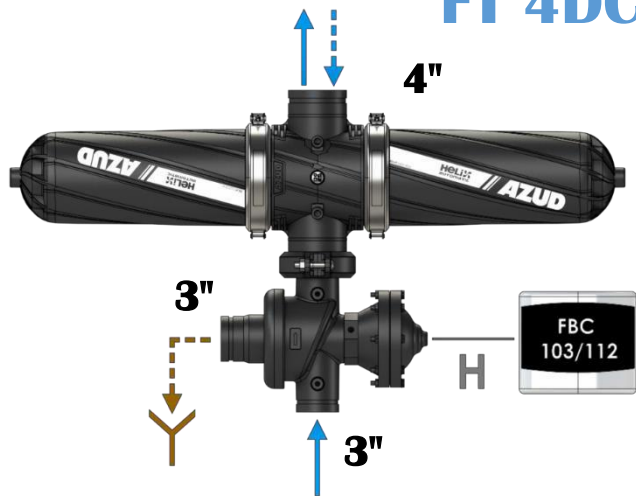
FT 200 DLP



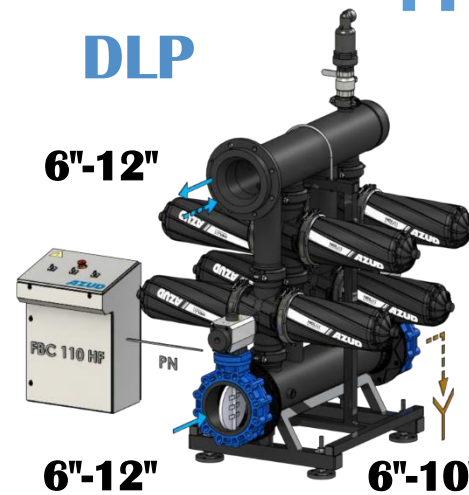
FT 200 AA DLP



FT 4DCL DLP

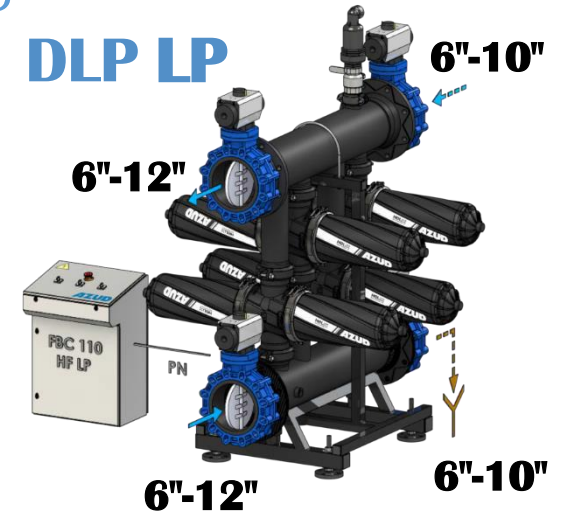


DLP



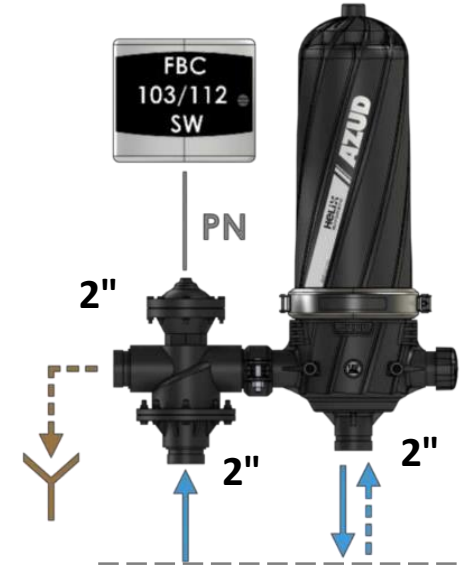
FT 4DC

DLP LP



STANDARD RANGE

HIGH SALINITY WATER AND SEA WATER

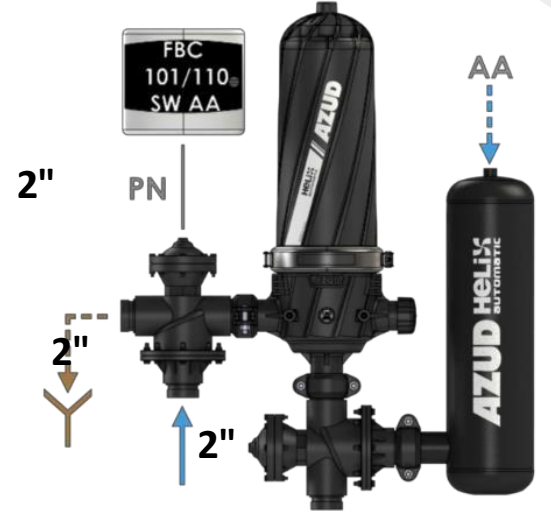


FT 200 AW DLP

TDS: 6 000 - 55 000 mg/l

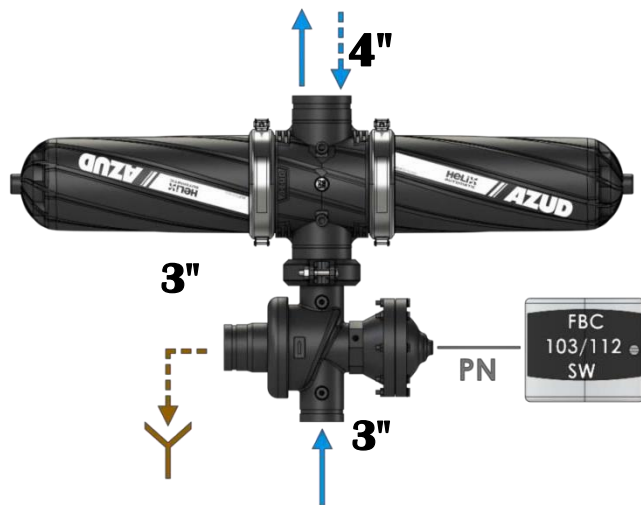


FT 200 AA AW DLP



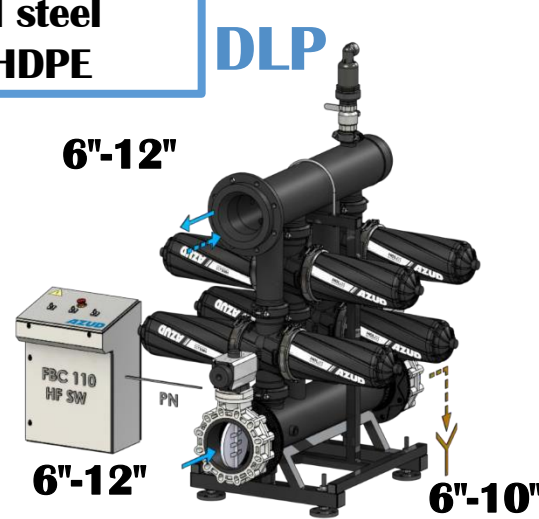
- Spring: HASTELLOY
- Clamp: SS 316L
- BW valves: SS 316L (opt. DUPLEX)
- Flanges: PP coated steel
- Auxiliary tank AA: HDPE

FT 4DCL AW DLP

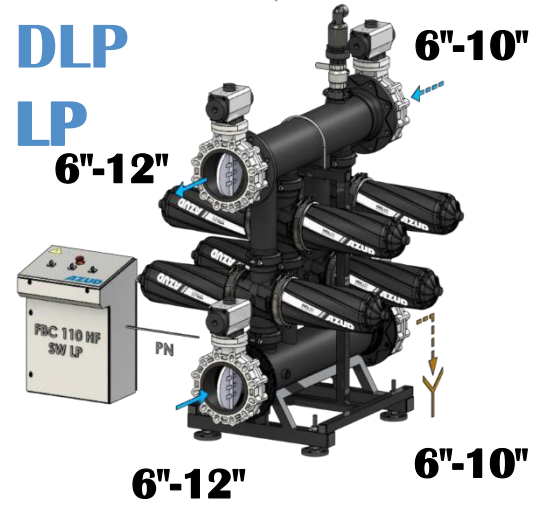


DLP

FT 4DC SW



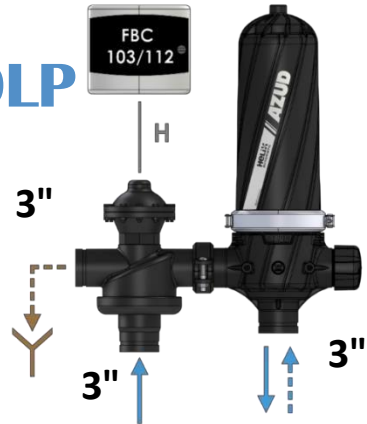
DLP LP



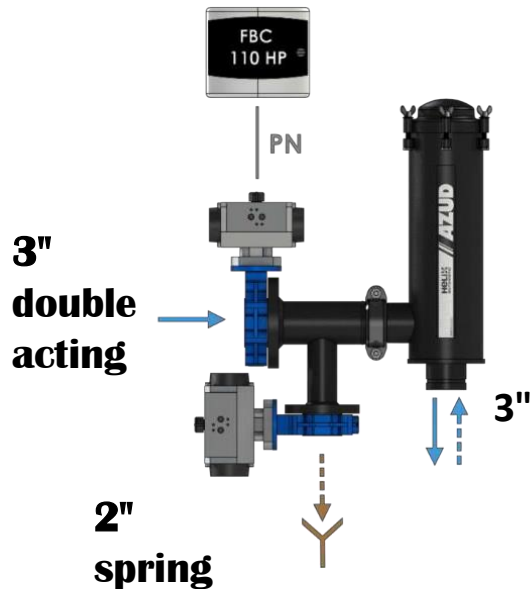
SPECIAL RANGE

FILTERS Ø

FT 300 DLP



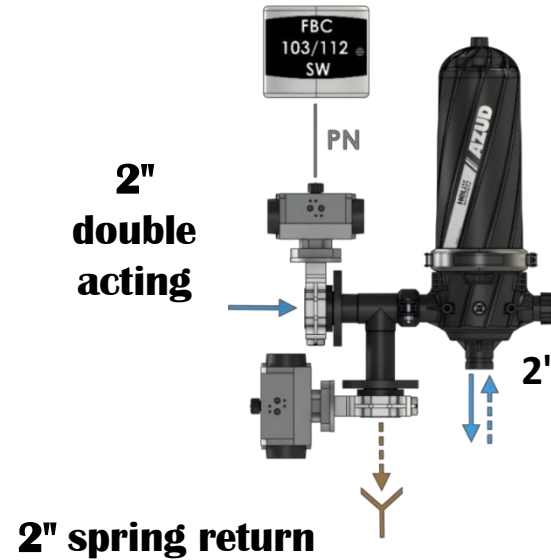
FT 300 HP DLP (PN16 bar)



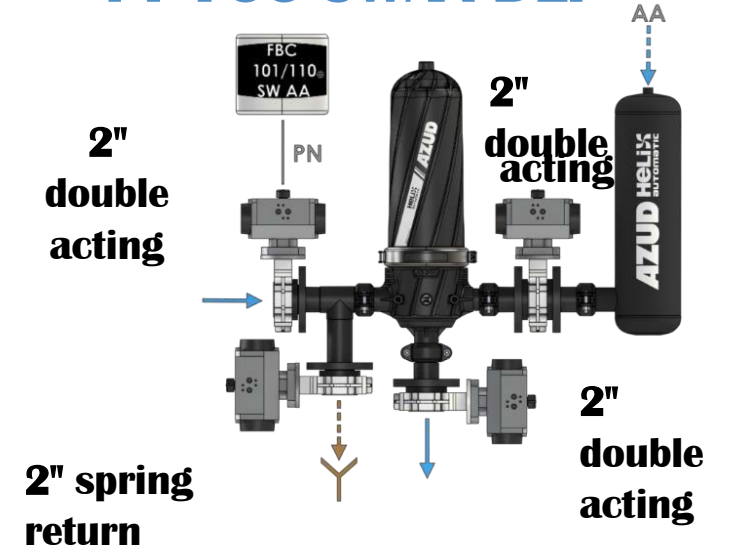
Filter/manifold/
flanges: carbon
steel with epoxy
polyester coating

HIGH SALINITY SEA WATER

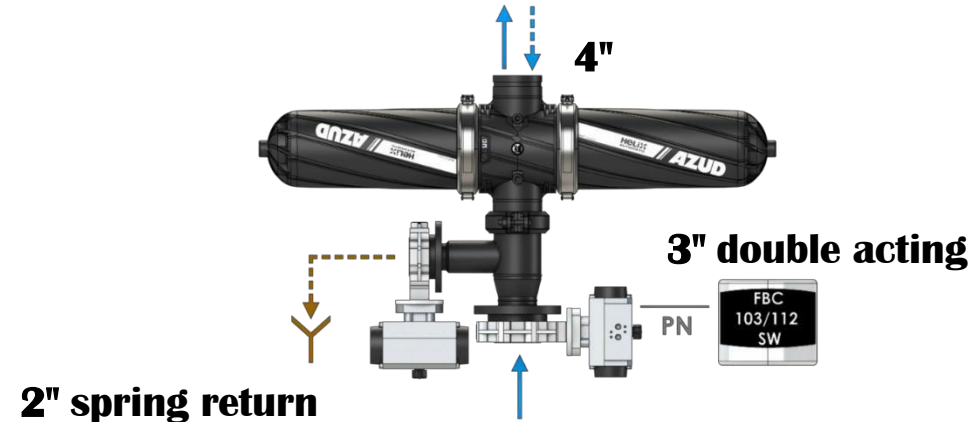
FT 700 SW DLP



FT 700 SWAA DLP



FT 800 SW DLP



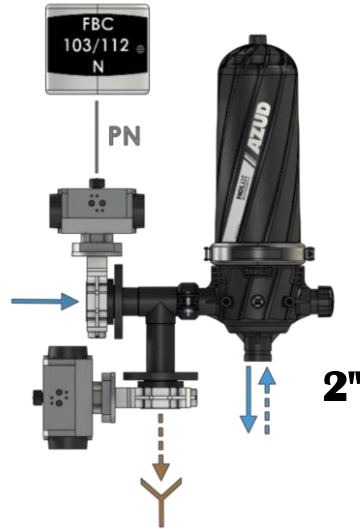
SPECIAL RANGE

CHLORINATED WATER (Free CL > 1.5 ppm)

FT 700 CL DLP

2" double acting

2" spring return

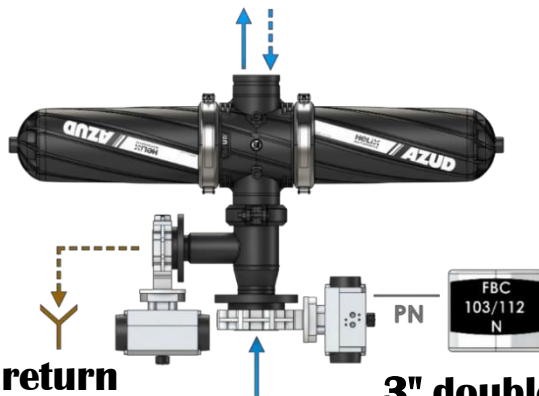


Base/lid: rPP

FT 800 CL DLP

2" spring return

3" double acting

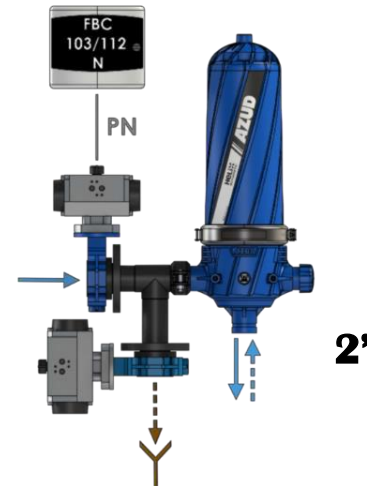


DRINKING WATER CERTIFICATE

FT 700 DW DLP

2" double acting

2" spring return

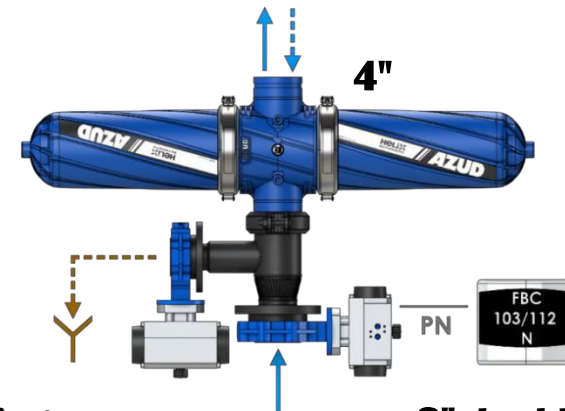


Base/lid: rPP food grade

FT 800 DW DLP

2" spring

3" double acting



CONTROL UNITS

FBC



FBC HF



FBC LOGIC



CONTROLLER	MITSUBISHI	MITSUBISHI	PLC SIEMENS SIMATIC S7 1200
FILTER STATIONS	1-12 DLP / 1-10 AA	4-10	1-12
ALARMS	Not available	GENERAL ALARM AVAILABLE	SEVERAL ALARMS AVAILABLE
COMMUNICATION	Dry contact (master valve)	Dry contact (backwash status, master valve and general alarm)	MODBUS COMMUNICATION Remote control optional

DISC FILTRATION SOLUTION

AZUD HELIX AUTOMATIC FES



AZUD FBC LOGIC 112

- ✓ PLC Siemens
- ✓ HMI: 4" -7"
- ✓ Several alarms available
- ✓ Instrumentation for pressure and flow control
- ✓ OPTIONAL remote control

AZUD HELIX AUTOMATIC

- ✓ FT201
- ✓ FT203
- ✓ FT205
- ✓ FT4DCL4

ACCESSORIES

- ✓ Check valves and manual isolation valves
- ✓ Sustaining valve kit

GRUNDFOS PUMP

- ✓ Body and impeller Cast iron
- ✓ Axis material SS 304
- ✓ Motor efficiency IE3

FILTRATION TECHNOLOGIES

AZUD LUXON



SALIENT FEATURES



RELIABLE FILTRATION

Robust stainless steel screen housed in a carbon steel or stainless steel vessel. Wide range of filtration degree



EFFICIENT SELF-CLEANING

Enhanced suction nozzles. Electrical or hydraulic cleaning mechanism

Uninterrupted filtered water supply with the minimum backwash water consumption



EASY MAINTENANCE

Multiple devices for easy inspection and maintenance labours



PLUG&PLAY AND MODULAR SOLUTION

Easy installation and high filtration capacity with minimum footprint

DESCRIPTION

VESSEL

VERTICAL or HORIZONTAL configuration:

- Carbon steel + epoxy-polyester coating
- Carbon steel + internal glass flake / rubber lined coating
(optional SS 316L)

FILTRATION ELEMENT

- **SCREEN:** Weave Wire SS screen
- **SUPPORT FRAME:**
 - Multilayer SS
 - PP injected (PVC for specific models)

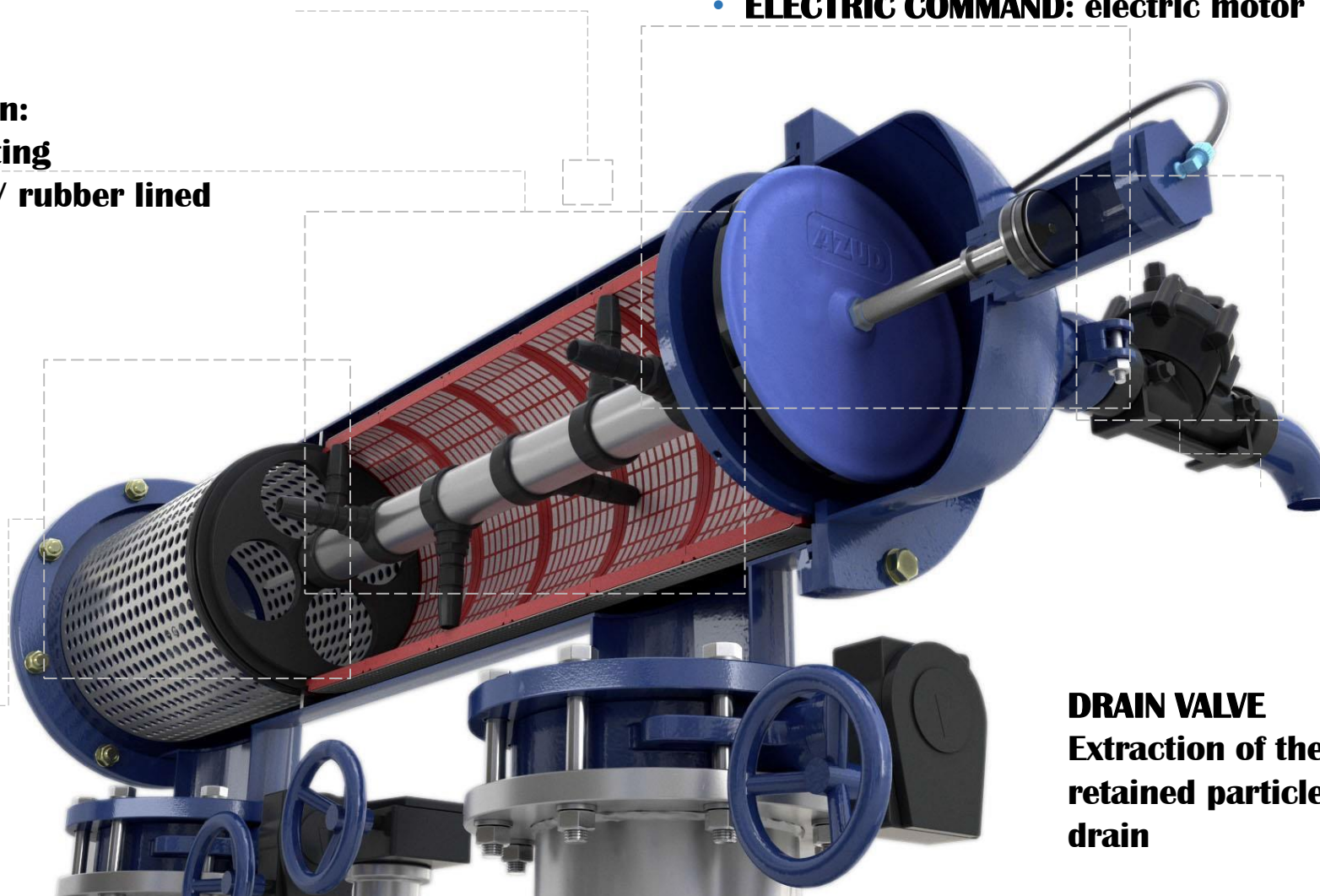
COARSE PRE-FILTER

Protects the filtration element and the cleaning mechanism
(just in horizontal models)

CLEANING MECHANISM

Scanner with suction nozzles to remove particles retained in the screen:

- **HYDRAULIC COMMAND:** turbine + piston
- **ELECTRIC COMMAND:** electric motor

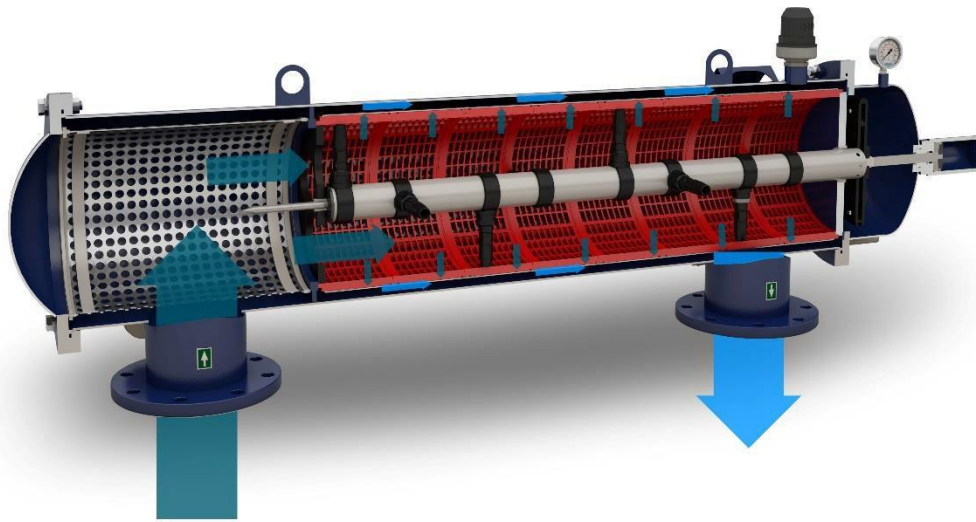


DRAIN VALVE

Extraction of the retained particles to drain

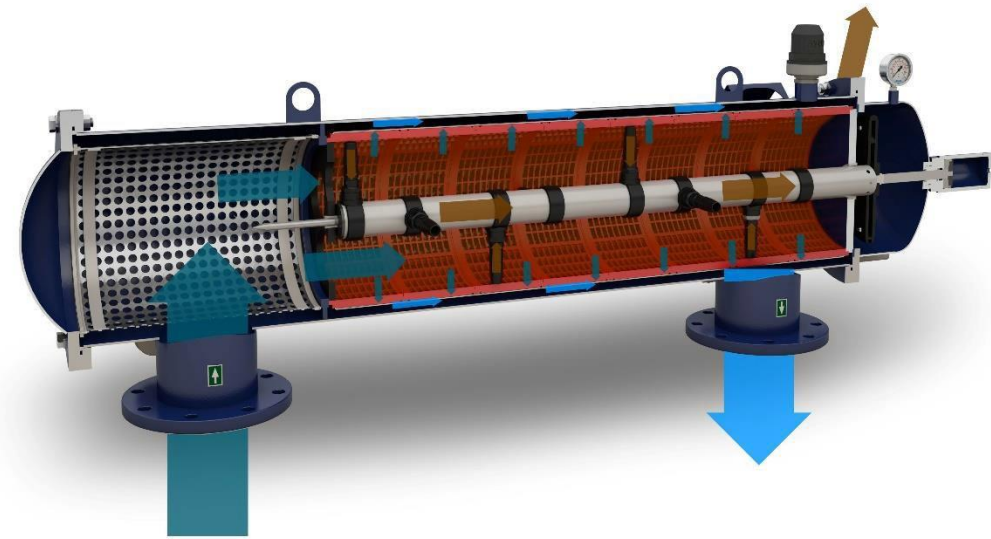
WORKING PRINCIPLE

FILTRATION PHASE



Raw water flows **IN-OUT** through the screen, where particles bigger than the filtration degree are retained at the inner screen surface.

SELF-CLEANING PHASE



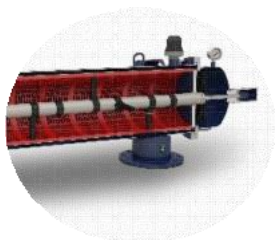
When automatic backwash is activated, the opening of the drain valve to atmosphere creates a suction effect in the nozzles that makes the water flows **OUT- IN** through the screen. Trapped particles are removed from the screen and are thrown away to the drain through the scanner.

COMPETITIVE ADVANTAGES

HYDRAULIC MODELS

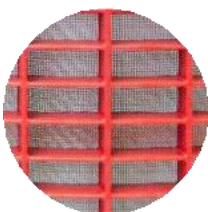


> **EXCLUSIVE NOZZLES** for hydraulic models, with high suction capacity of big particles and low water consumption



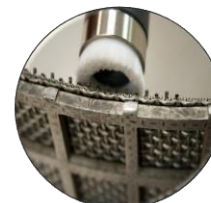
> **HIGH EFFICIENCY SELF-CLEANING**

- Exclusive turbine for the hydraulic command of the scanner
- Controller with pressure differential sensor



> **PP INJECTED SUPPORT:** saline corrosion resistant, high open-area and modular construction - (1000, 500, 300, 200, 125, 100, 80 μ m)

ELECTRIC MODELS

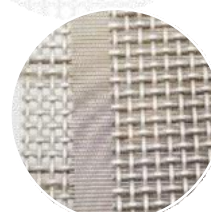


> **EXCLUSIVE NOZZLES** for electric models, with special design for enhanced cleaning of multilayer SS support



> **HIGH EFFICIENCY SELF-CLEANING**

- Electric motor with gearbox commands the scanner independently of the working pressure



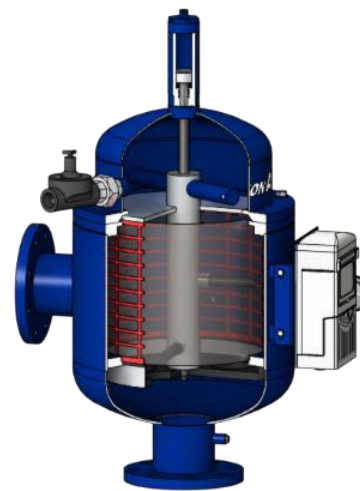
> **MULTILAYER SS SUPPORT:** 4 floating layers provide a higher open area with an excellent mechanical resistance. (1000, 500,

CONFIGURATION

Axis position: VERTICAL

Connections configurations: ANGLE

- **Heavy particle separation by gravity**
- **Compact equipment, specified for high flow rates with minimum footprint**



HYDRAULIC

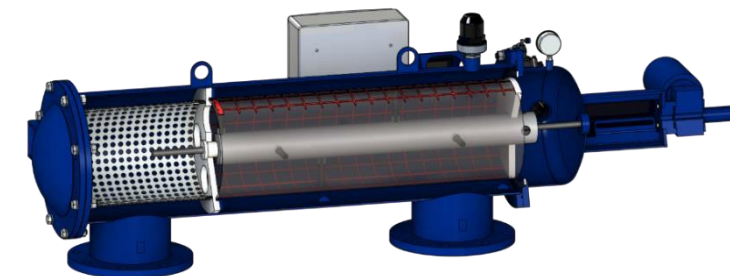


ELECTRIC

Axis position: HORIZONTAL

Connections configurations: PARALLEL

- **6 mm coarse filter included**
- **Hinged lid for an easy opening**

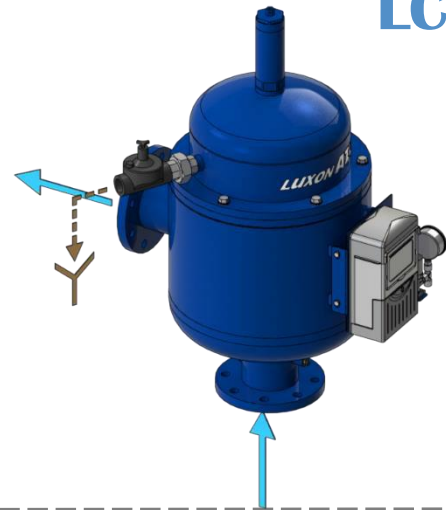


STANDARD RANGE

**WEAVE WIRE SCREEN WITH SUCTION
NOZZLES LOW SALINITY WATER**

TDS < 6 000 mg/l

LCA



LDB

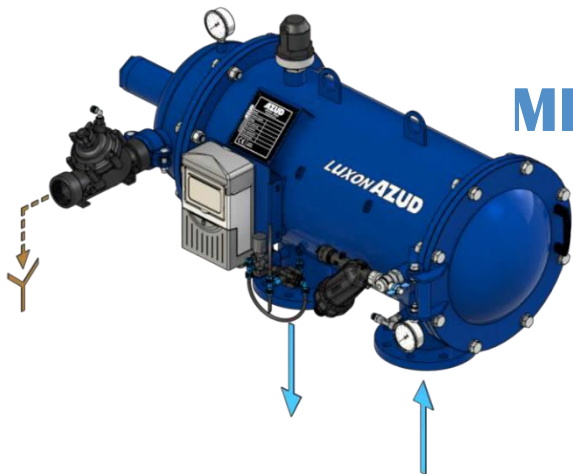


OPTIONAL: PN16

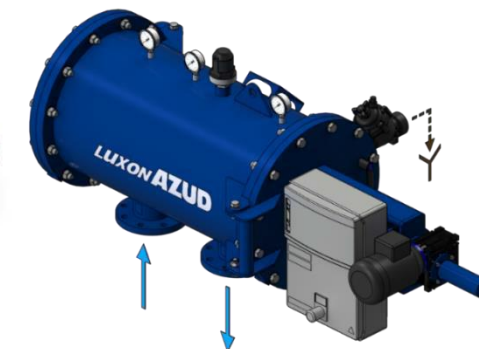
HYDRAULIC

ELECTRIC

MFH



LXE



OPTIONAL: PN16

SCREEN FILTRATION SOLUTION

AZUD LUXON FES

AZUD FBC LOGIC 112

- ✓ PLC Siemens
- ✓ HMI: 4" -7"
- ✓ Several alarms available
- ✓ Instrumentation for pressure and flow control
- ✓ OPTIONAL remote control

GRUNDFOS PUMP

- ✓ Body and impeller Cast iron
- ✓ Axis material SS 304
- ✓ Motor efficiency IE3



AZUD LUXON

- ✓ LDB 2400/4
- ✓ LXE 7400/6

ACCESSORIES

- ✓ Check valves and manual isolation valves
- ✓ Sustaining valve kit

APPLICATIONS

- 1. FILTRATION FOR COOLING TOWERS**
- 2. FILTRATION FOR HEAT EXCHANGE SYSTEMS**
- 3. ULTRAFILTRATION MEMBRANE PREFILTRATION**
- 4. MAKE-UP WATER FILTRATION**
- 5. MEDIA FILTER PREFILTRATION**
- 6. SPRAY NOZZLE PROTECTION**
- 7. FILTRATION IN WATER TANKS, LAKES AND FONTS**
- 8. DISINFECTION SYSTEMS PROTECTION**
- 9. FILTRATION FOR WATER RECYCLING SYSTEMS**
- 10. PARTICLES RECOVERY**



MUNICIPAL



INDUSTRIAL



RESIDENTIAL / SERVICES

FILTRATION SYSTEMS FOR MEGA SPORTS FIELDS



Filtration System For Mega Sports Fields

**INDIA'S FIRST F-1 RACE TRACK,
GREATER NOIDA, UTTAR PRADESH
MODEL : 4DCL6/10 FX
FLOW RATE : 288 m³/h
FILTRATION GRADE : 130 MICRON
APPLICATION : LANDSCAPE IRRIGATION**

FILTERS FOR LEATHER INDUSTRY AND TANNERIES



**VANITECH TANNERY VANIAMBADI,
TAMILNADU
MODEL : 4DCL5/6 FX
FLOW RATE : 200 m³/h
FILTRATION GRADE : 100 MICRON
APPLICATION : TERTIARY FILTRATION IN WWTP**

FILTERS FOR CHEMICAL INDUSTRY



**JAY CHEMICAL INDUSTRIES LIMITED,
KHAMBHAT PLANT, GUJARAT
MODEL : 4DCL5/6FX WITH 5 MICRON
FLOW RATE : 50 m³/h
FILTRATION GRADE : 50 MICRON
APPLICATION : ETP**

FILTRATION SYSTEM FOR STEEL INDUSTRY



**RIMJHIM STEEL LIMITED,
UNNAV, UTTAR PRADESH
MODEL : 204/4 FX DLP
FLOW RATE : 56 m³/h
FILTRATION GRADE : 50 MICRON
APPLICATION : WATER FILTRATION**



**JINDAL STEEL & POWER LIMITED,
ANGUL ORISSA
MODEL : LXE21300 S/8
FLOW RATE : 60 m³/h
FILTRATION GRADE : 10 MICRON
APPLICATION : D.R.I PLANT (JSPL)**

FILTERS FOR HIGH END LANDSCAPES



**CANADIAN HIGH COMMISSION,
NEW DELHI
MODEL : 303/4 FX TWO UNITS
FLOW RATE : 110 m³/h
FILTRATION GRADE : 100 MICRON
APPLICATION : RAW WATER FILTRATION**

AVIATION INDUSTRY INSTALLATIONS



**COCHIN INTERNATIONAL AIRPORT,
KERALA
MODEL : 16 HELIX MANUAL FILTER
FLOW RATE : 128 m³/h
FILTRATION GRADE : 50 MICRON
APPLICATION : PROCESS WATER PRE-FILTRATION**

ELITE GOLF COURSES INSTALLATIONS



**GOLF COURSE AT AMBIENCE
MALL ,
GURGAON, HARYANA
MODEL : 305/6 FX
FLOW RATE : 150 m³/h
Filtration Grade : 130 micron
Application : Landscape
Irrigation**

**DELHI ARMY GOLF COURSE ,
NEW DELHI
MODEL : 305/6 FX
FLOW RATE : 200 m³/h
Filtration Grade : 130 micron
Application : Water Filtration**

**INDIAN AIR FORCE SWAC
CHILODA,
GANDHI NAGAR, GUJARAT
MODEL : 204/6 FX
FLOW RATE : 100 m³/h
Filtration Grade : 130 micron
Application : Water Filtration**

**TOLLY GUNJ GOLF CLUB,
KOLKATA
MODEL : 4DCL5/8 FX
FLOW RATE : 240 m³/h
Filtration Grade : 130
micron
Application : Water
Filtration**

RIVER WATER FILTRATION



**TATA CSR PROJECT,
JHARKHAND
MODEL : 204/4FX
FLOW RATE : 50 m³/h
FILTRATION GRADE : 50 MICRON**

PAINT AND COLOR INDUSTRY INSTALLATIONS



**R K OVERSEAS ,
KIRTI NAGAR, DELHI
MODEL : 203/3FX
FLOW RATE : 20 m³/h
FILTRATION GRADE : 20 MICRON
APPLICATION : RO PLANT**

TEXTILE INDUSTRY INSTALLATIONS



**INDIAN RAYON (BIRLA GROUP),
VERAVAL, GUJARAT
MODEL : 202/3 FX
FLOW RATE : 40 m³/h
FILTRATION GRADE : 100 MICRON
APPLICATION : PROCESS WATER**



**SURYODAY FASHION LTD,
SURAT, GUJARAT
MODEL : 208/6 FX
FLOW RATE : 112 m³/h
FILTRATION GRADE : 50 MICRON
APPLICATION : RAW WATER
FILTRATION**



**JAIN TEXTILE INDUSTRIES LTD,
GURGAON HARYANA
MODEL : 2" X 8
FLOW RATE : 50 m³/h
FILTRATION GRADE : 20 MICRON
APPLICATION : BOILER WATER**



**SWASTIK POLY PRINTS LIMITED,
SURAT, GUJARAT
MODEL : 205/4 FX
FLOW RATE : 70 m³/h
FILTRATION GRADE : 50 MICRON
APPLICATION : PRE-FILTRATION**

PAPER INDUSTRY INSTALLATIONS



SAINISONS PAPER INDUSTRIES LTD
KURUKCHHETRA, HARYANA
MODEL : 305/6FX
FLOW RATE : 125 m³/h
FILTRATION GRADE : 100 MICRON
APPLICATION : ETP PLANT

MARBLE INDUSTRY INSTALLATIONS



R K MARBLES PVT LTD
KISHANGADH, RAJASTHAN
MODEL : 203/3FX DLP
FLOW RATE : 42 m³/h
FILTRATION GRADE : 50 MICRON
APPLICATION : MARBLE STONE CUTTING

PHARMA INDUSTRY INSTALLATIONS



**MYLAN PHARMA (UNIT 8)
VISAKHAPATNAM, AP
MODEL : 203/3FX
FLOW RATE : 40 m³/h
FILTRATION GRADE : 50 MICRON
APPLICATION : PRE-FILTRATION**



**MYLAN PHARMA (UNIT 9)
VISAKHAPATNAM, AP
MODEL : 201
FLOW RATE : 14 m³/h
FILTRATION GRADE : 50 MICRON
APPLICATION : PRE-FILTRATION**

FILTRATION FOR POWER PLANTS



TORRENT POWER PLANT
SURAT, GUJARAT
MODEL : 204/6 FX
FLOW RATE : 96 m³/h
FILTRATION GRADE : 130 MICRON
APPLICATION : LANDSCAPE IRRIGATION



LANCO POWER LIMITED
MAHARASTRA
MODEL : 203/3 FX DLP
FLOW RATE : 42 m³/h
FILTRATION GRADE : 50 MICRON
APPLICATION : PROCESS WATER



WINDMILLS LIMITED
KARNATAKA
MODEL : 202/3 FX
FLOW RATE : 40 m³/h
FILTRATION GRADE : 100 MICRON
APPLICATION : PRE FILTRATION

FILTRATION FOR SWIMMING POOLS



**ALLUAA HILLS RESORT
GANDHINAGAR, GUJARAT
MODEL : 201
FLOW RATE : 24 m³/h
FILTRATION GRADE : 100 MICRON**



**EROS GROUP
NEW DELHI
MODEL : 201
FLOW RATE : 14 m³/h
FILTRATION GRADE : 50 MICRON
APPLICATION : PRE FILTRATION**

FILTRATION FOR TOWNSHIPS & FARM HOUSES



IREO TOWNSHIP
GURGAON, HARYANA
MODEL : 201
FLOW RATE : 24 m³/h
FILTRATION GRADE : 130 MICRON
APPLICATION : STP, TREATED WATER PLANT



MUNJAL FARM HOUSE
NEW DELHI
MODEL : 202/3 FX
FLOW RATE : 40 m³/h
FILTRATION GRADE : 100 MICRON
APPLICATION : PROCESS WATER PRE FILTRATION

FILTRATION FOR HOTEL INDUSTRY



DM HOTEL
JORHAT, ASSAM
MODEL : 202/3 FX
FLOW RATE : 30 m³/h
FILTRATION GRADE : 20 MICRON
APPLICATION : WTP



VISWARATAN HOTEL
GUWAHATI, ASSAM
MODEL : 203/3 FX
FLOW RATE : 50 m³/h
FILTRATION GRADE : 50 MICRON
APPLICATION : WTP

FILTRATION FOR AUTOMOBILE INDUSTRY



**MAHINDRA VML
CHAKAN, PUNE
MODEL : 202/3 FX
FLOW RATE : 48 M3/H
FILTRATION GRADE : 130 MICRON
APPLICATION : COOLING TOWER FILTRATION**

FILTRATION FOR GLASS INDUSTRY



**ASAHI GLASS INDIA
OKHLA, NEW DELHI
MODEL : 203/3 FX DLP
FLOW RATE : 42 m3/h
FILTRATION GRADE : 50 MICRON
APPLICATION : PROCESS WATER**



FILTRATION TECHNOLOGIES

AZUD HELIX AUTOMATIC

AZUD LUXON