ARGAL

CHEMICAL PUMPS

LAGOON RANGE

FILTRATION SYSTEM
IN THERMOPLASTIC MATERIALS

The filtering system **LAGOON** provides an economic removal of solids and organic impurities from chemical liquids during metal polishing, metallic and plastic surface treatments (galvanic, PCB, semi conductors, wires and metallic sheets, etc.); they can also be used in many processes of chemical industry, in the pharmaceutical industries and water treatment.

The filtering system **LAGOON** offers 4 different versions:

- Filter chamber located on a base; inside the base there is a magnetically driven horizontal pump
- Filter chamber located on the base; inside the base there is a mechanically sealed pump
- Filter chamber on the base and a vertical pump with cantilevered shaft, no bushings and no bearings
- Only filter chamber on feet.

Many types of valves and flowmeters are available, pre-coat tank, carbon purification tank, increasing filtering surface solutions.


IQNet
THE INTERNATIONAL CERTIFICATION NETWORK
CERTIFICATE
IQNet and SQS
hereby certify that the organization
ARGAL S.r.l.
IT-25125 Brescia
Certified area
Whole Company
Field of activity
Chemical pumps – design, manufacturing, sale
has implemented and maintains a
Management System
which fulfills the requirements of the following standard
ISO 9001:2000
Scope No: 18
Issued on: 2002-11-15
Validity date: 2005-11-14
Registration Number: CH-15589-02
Dr. Fabio Roversi
President of IQNet
Theodor Zehner
Managing Director SQS


SQS
The Swiss Association
uality and Management Systems
which meets the requirements of the normative bases specified below
and issues the company
ARGAL
CHEMICAL PUMPS
ARGAL S.r.l., IT-25125 Brescia
Certified area
Whole Company
Field of activity
Chemical pumps – design, manufacturing, sale
on the basis of the audit result the
SQS Certificate ISO 9001:2000
CH-3052 Zollikofen, 15 November 2005
This SQS Certificate is valid up to and including 14 November 2008
Scope number 18
Registration number 15559-02
Managing Director SQS
President SQS
T. Zehner
Prof. Dr. H. D. Seghezzi
IQNet

Filtration systems

ASSOPOMPE
ASSOCIAZIONE ITALIANA PRODUTTORI POMPE
member of
Europump

MAIN FEATURES FOR ALL THE VERSIONS AVAILABLE

HME

Flow up to 40.000 l/h plus different filter chambers

- 6 different filter chambers, 13 types of pumps and 8 models of vertical pumps; these choises in order to offer a very good match in terms of flow and filtering surface.

Different filtering components

The wide choice of filter chambers allows the user to make the right selection between filtering components:

- Various filtering elements for the best choice of filtration
  - Discs with cardboard or fibre
  - Two standard cartridges - 10" and 20" height (wound yarn, pleated, microfibre, with active carbon)
  - Special Argal pleated cartridges with high filtering surface
  - Filtering bags
- The discs and the cartridges filters are interchangeable through a simple removal from the chamber.

Filtering elements

TMR or ZMR

Chemical inertia of adopted materials

All the components are made through injection molding process and show a high chemical resistance to the liquids pumped

- Polypropylene or PVDF for the filter chambers
- Polypropylene reinforced with glass fibre, PVDF or E-CTFE with carbon fibre in the pumps
- High density polyethylene in the base and for the motor protection

AM

Reliability of the most critical components

- Hardness of the main structure
- Filtering chamber in high thickness and top cover with hermetical seals
- Eye bolts in stainless steel
- Horizontal mag drive pumps **PATENTED** against **dry running conditions**
- Vertical pumps without any bearing and bushing at low maintenance.

Active carbon vat

The purification process takes place through filtration with active carbon.
Upon request we deliver the vat equipped with all the fittings to be installed on the base.
Other filtering powders or additives can be added to the vat.
The entire procedure is clean and free of problems.

TMB

Argal is able to offer tailored advices for any type of necessity and technical requirements.

MAIN APPLICATIONS

Aqua culture
Chemicals
Cleaning solutions
Electroplating solutions
Industrial liquids
Petro-chemicals
Pharmaceuticals
Phofotographic chemicals
Water treatment

APPLICATIONS IN ELECTROPLATING INDUSTRY

Anodizing
Chrome – trivalent
Cleaning
Copper – acid
Copper – cyanide
Copper – electroless
Degreasing
Etching
Gold
Nichel – electroless
Nichel – electrolytic
Phosphatizing
Silver
Tin
Zinc – acid
Zinc – alcaline with cyanide
Zinc – alcaline without cyanide
Zinc – hot dip galvanizing

FILTER UNIT WITH PRE-COAT TANK

MATERIALS

table 1

VERSION	POLYMERS	MIN TEMP.	MAX TEMP.	ENVIRONMENT TEMP.
WR	PP	-5°C (23°F)	70°C (158°F)	0÷40°C (32÷104°F)
FC	PVDF	-10°C (14°F)	90°C (194°F)	-10÷40°C (14÷104°F)

table 2

VERSION	WR	FC
Filter chamber	PP	PVDF
Piping system	PP	PVDF
Horizontal pumps	GFR/PP	CFF/E-CTFE
Vertical pumps	GFR/PP	CFF/PVDF (HME)
Base	PE	PE
Gaskets	FKM	FKM
Screws	S.S.	S.S.

PP: Polypropylene
PVDF: Vinylidene polyfluoride
GFR/PP: Polypropylene reinforced with glass fibre
CFF/E-CTFE: Ethylene-Chloro Trifluoro Ethylene reinforced with carbon fibre
CFF/PVDF: Vinylidene polyfluoride reinforced with carbon fibre
PE: Polyethylene
FKM: Fluorine elastomer
S.S.: Stainless steel

IDENTIFICATION RANGE AND MODEL

table 3

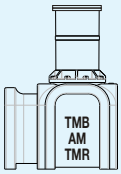
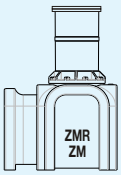
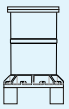
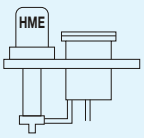
STRUCTURE	FILTERING ELEMENTS				FILTER CHAMBERS											
	DISCS	CARTRIDGES	BIG SURFACE CARTRIDGES	BAG	ø100 H10"	ø100 H20"	ø200 H10"	ø300 H10"	ø200 H20"	ø300 H20"	ø300 H20"	ø160 H10"
MAG DRIVE PUMP 	DTL	CTL	ETL	/	1 . 1	1 . A	2 . 1	3 . 1	2 . A	3 . A	3 . B	
SEALED PUMP 	DZL	CZL	EZL	/	1 . 1	1 . A	2 . 1	3 . 1	2 . A	3 . A	3 . B	
	DNL	CNL	ENL	/			2 . 1	3 . 1	2 . A	3 . A		
	DHL	CHL	EHL	SHL			2 . 1	3 . 1	2 . A	3 . A		6 . 1

table 4

CAPACITY (l/h)	900	3000	4000	6000	8000	15000	18000	20000	25000	30000	40000
CODE	H9	03	04	06	08	15	18	20	25	30	40

Example identification Range and Model: **DTL 3.B.25**

Pump and pipings inside the base

Filter unit DTL3.B.25

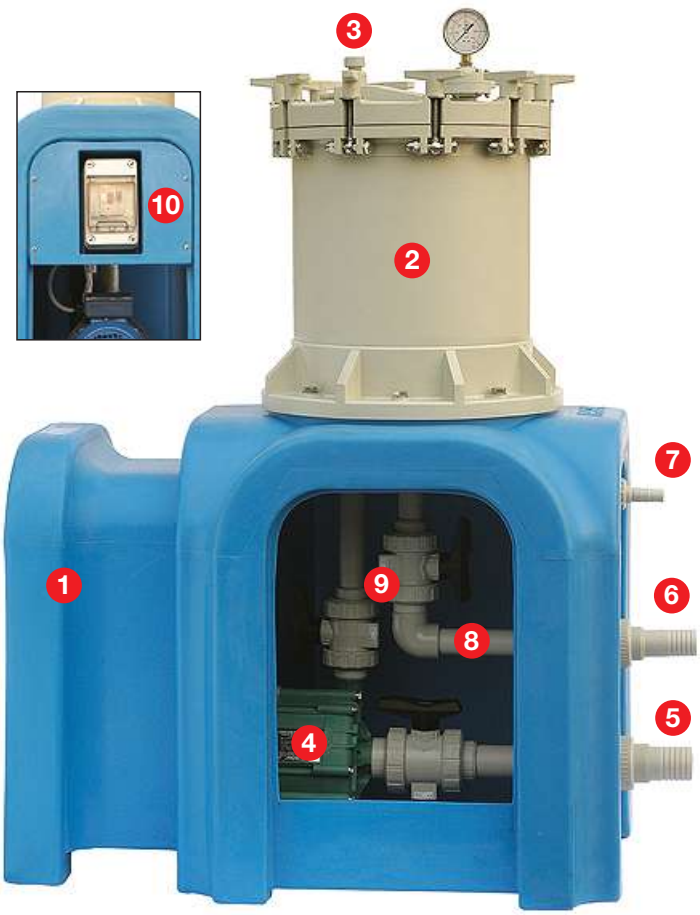
RANGE DTL - DZL - CTL - CZL - ETL - EZL

table 5

MODEL	FILTERING ELEMENTS		PUMP	MAX CAPACITY	MAX HEAD	POWER (kW)
	CARTRIDGES	DISCS		(l/h)	(m)	(powered version)
1.1.H9	1 x 10”	–	TMB 35	900	7	0,03
1.1.03			TMB 65	2700	5	0,09
1.A.H9	1 x20”	–	TMB 35	900	7	0,03
1.A.03			TMB 65	2700	5	0,09
2.1.04	7 x 10”	22 x 200	AM 250	4000	8	0,25
2.1.06			AM350	6000	10	0,37
2.A.04	7 x 20”	48 x 200	AM 250	4000	8	0,25
2.A.06			AM 350	6000	10	0,37
2.A.08			AM 500	8000	10	0,55
2.A.15			TMR or ZMR 06.10	15000	10	0,75
2.A.18			TMR or ZMR 10.10	18000	13	1,1
3.1.15	12 x 10”	30 x 290	TMR or ZMR 06.10	15000	10	0,75
3.1.18			TMR or ZMR 10.10	18000	13	1,1
3.A.20	12 x 20”	50 x 290	TMR or ZMR 10.15	20000	17	1,5
3.A.25			TMR or ZMR 16.15	25000	22	2,2
3.B.25	24 X 20”	100 x 290	TMR or ZMR 16.20	25000	25	3
3.B.30			TMR 20.15	30000	18	3
3.B.40			TMR 30.15	40000	22	4

Modular system

The range LAGOON has been designed to have different parts that can be assembled together in order to manufacture a customised and usefull filtering system. The bases can be connected one to the other, in line or in parallel.
The spacious base allows an easy connection of the different pipes, valves and fittings.



MAIN COMPONENTS

1 Base
2 Filter chamber
3 Top cover with vent valve
4 Magnetically driven pump
5 Suction connection to the pump
6 Delivery connection to the filter
7 Discharge connection to the filter chamber
8 Hard pipes
9 Valves
10 Electric switch with protective device

OTHER OPTIONAL COMPONENTS

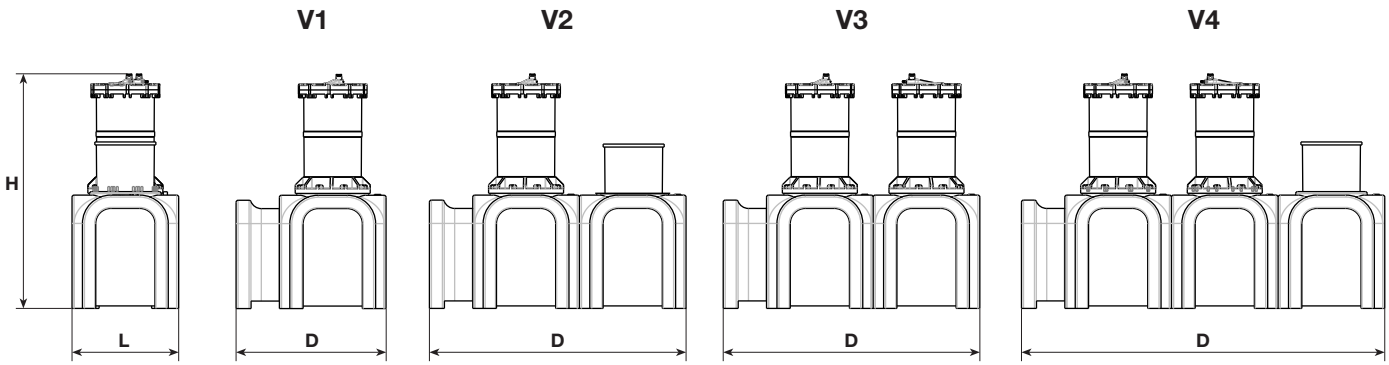
Vat filled with active carbon
Wheels in stainless steel
Protected pressure gauge
Valves
Hose connections
Flange connections
Flexible pipes to be connected to the vat

CONNECTIONS

table 6

MODEL	ND	STANDARD CONNECTIONS	OPTIONAL CONNECTIONS		
			Hose	Threaded	Flanged
	in / out	in / out	in / out	in / out	in / out
1.1.H9	20/20	BSP ½" / BSP ½"	d20 / d20	standard*	n.a
1.1.03	25/25	BSP 1" / BSP 1"	d25 / d25	standard*	n.a
1.A.H9	20/20	BSP ½" / BSP½"	d20 / d20	standard*	n.a
1.A.03	25/25	BSP 1" / BSP 1"	d25 / d25	standard*	n.a
2.1.04	32/32	Union d40 / d40	d40 / d40	1 ¼" / 1 ¼"	32 / 32
2.1.06	32/32	Union d40 / d40	d40 / d40	1 ¼" / 1¼"	32 / 32
2.A.04	40/32	Union d50 / d40	d50 / d40	1 ½" / 1 ¼"	40 / 32
2.A.06	40/32	Union d50 / d40	d50 / d40	1 ½" / 1 ¼"	40 / 32
2.A.08	40/32	Union d50 / d40	d50 / d40	1 ½" / 1 ¼"	40 / 32
2.A.15	40/32	Union d50 / d40	d50 / d40	1 ½" / 1 ¼"	40 / 32
2.A.18	40/32	Union d50 / d40	d50 / d40	1 ½" / 1 ¼"	40 / 32
3.1.15	40/32	Union d50 / d40	d50 / d40	1 ½" / 1 ¼"	40 / 32
3.1.18	40/32	Union d50 / d40	d50 / d40	1 ½" / 1 ¼"	40 / 32
3.A.20	40/32	Union d50 / d40	d50 / d40	1 ½" / 1 ¼"	40 / 32
3.A.25	40/32	Union d50 / d40	d50 / d40	1 ½" / 1 ¼"	40 / 32
3.B.25	50/40	Union d63 / d50	d60 / d50	2" / 1 ½"	50 / 40
3.B.30	50/40	Union d63 / d50	d60 / d50	2" / 1 ½"	50 / 40
3.B.40	50/40	Union d63 / d50	d60 / d50	2" / 1 ½"	50 / 40

(*) BSP and NPT thread available

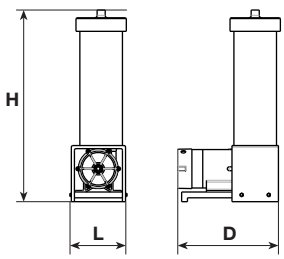


DIMENSIONS

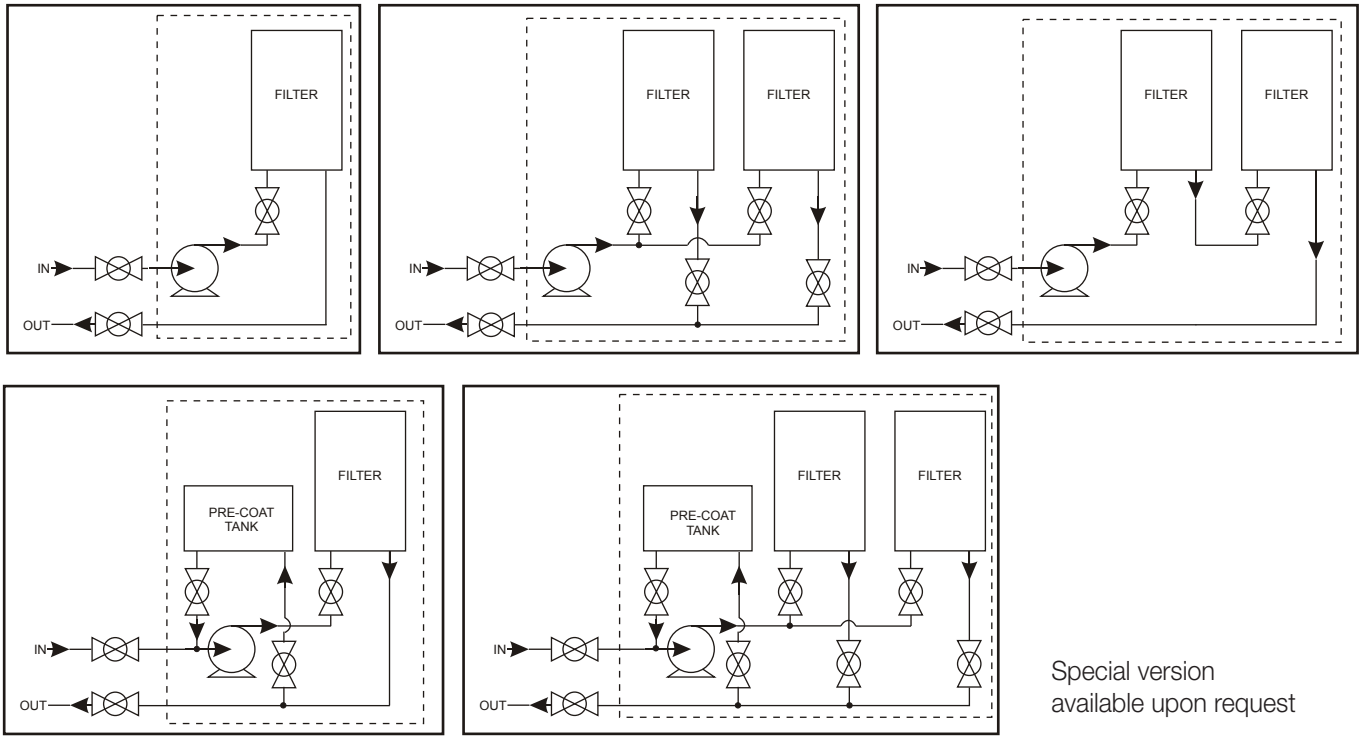
table 5

MODEL	H	L	D				
			V0	V1	V2	V3	V4
1.1.H9	500	160	280	–	–	–	–
1.1.03	500	160	280	–	–	–	–
1.A.H9	750	160	280	–	–	–	–
1.A.03	750	160	280	–	–	–	–
2.1.04	1100	560	–	800	1350	–	–
2.1.06	1100	560	–	800	1350	–	–
2.A.04	1300	560	–	800	1350	–	–
2.A.06	1300	560	–	800	1350	–	–
2.A.08	1300	560	–	800	1350	–	–
2.A.15	1300	560	–	800	1350	–	–
2.A.18	1300	560	–	800	1350	–	–
3.1.15	1300	650	–	950	1580	–	–
3.1.18	1300	650	–	950	1580	–	–
3.A.20	1500	650	–	950	1580	–	–
3.A.25	1500	650	–	950	1580	–	–
3.B.25	1500	650	–	–	–	1580	2230
3.B.30	1500	650	–	–	–	1580	2230
3.B.40	1500	650	–	–	–	1580	2230

V0



APPLICATION SCHEME



Special version
available upon request

PUMP IDENTIFICATION LABEL

table 8

DTL	2.A.15	WRV	F	S	M	1	C	A
LAGOON SERIES	CHOOSE MODEL	MATERIALS	EXECUTIONS	SETTING UP	CHOOSE CONNECTIONS	CHOOSE VALVE TYPE	STARTING	SPECIAL EQUIPMENT
SERIES	MODEL	VERSION	VERSION	VERSION	CONNECTIONS	VERSION	VERSION	VERSION
DTL	1.1.H9	WRV PP+FKM	F ABSENT	S SERIE	B BSP	1 Std. type 1	A ABSENT	A Std. without weels
DZL	1.A.H9	WRE PP+EPDM	E ELECTROLYTIC SEPARATOR	P PARALLEL	N NPT	2 Std. type 2	B SWITCH ON-OFF	B Weels
CTL	2.1.04	FCV PVDF+FKM	V PRE COAT TANK		I ISO FLANGE	3 Extra type 1	C SAFETY SWITCH	
CZL	2.A.04	FCE PVDF+EPDM			A ANSI FLANGE	4 Extra type 2		
ETL	2.A.08				P HOSE			
EZL	2.A.18				M UNION BUSHES			
	3.1.18				U UNION			
	3.A.25							
	3.B.30							
	1.1.03							
	1.A.03							
	2.1.06							
	2.A.06							
	2.A.15							
	3.1.15							
	3.A.20							
	3.B.25							
	3.B.40							

RANGE DHL - CHL - SHL - EHL

table 10

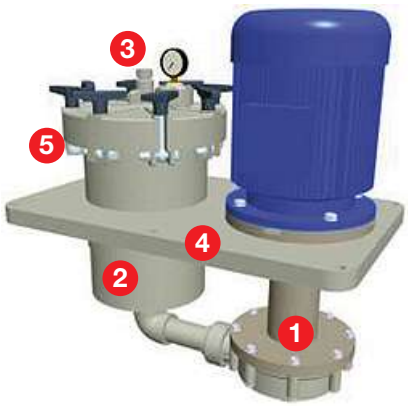
MODEL	FILTERING ELEMENTS		PUMP	MAX CAPACITY	MAX HEAD	MOTOR POWER
	CARTRIDGES	DISCS		(l/h)	(m)	(kW)
6.1.04	4x10”	–	HME 25	4200	8,5	0,18
6.1.06			HME 50	6000	11	0,37
2.1.04	7x10”	22 x 200	HME 25	4200	8,5	0,18
2.1.06			HME 50	6000	11	0,37
2.A.04	7x20”	48 x 200	HME 25	4200	8,5	0,18
2.A.06			HME 50	6000	11	0,37
2.A.08			HME 75	8100	11	0,55
2.A.15			HME 100	15000	11	0,75
3.1.15	12x10”	30 x 290	HME 100	15000	11	0,75
3.A.18	12x20”	50 x 290	HME 150	18000	14	1,1
3.A.20			HME 200	20000	18	1,5
3.A.25			HME 300	25000	23	2,2
3.A.30			HME 500	30000	19	3

SIMPLE AND SAFE

The building process of filter units with vertical pumps is simple, compact. There are also two other important aspects: the safety of using a vertical pump and no excessive use of pipes is forseen. In addition our vertical pumps do not have bearings not bushings therefore; they can run dry because they do not have any friction elements. The maintenance is very rare.
Two ways to install the pump, either in tank or out-of-tank.

MAIN COMPONENTS

1 Vertical pump with cantilevered shaft
2 Filter chamber
3 Top cover with vent valve
4 Base
5 Eye bolts in stainless steel
6 Filter in suction (only for sump pump)
7 Discharge valve (only for pumps out-of-tank)

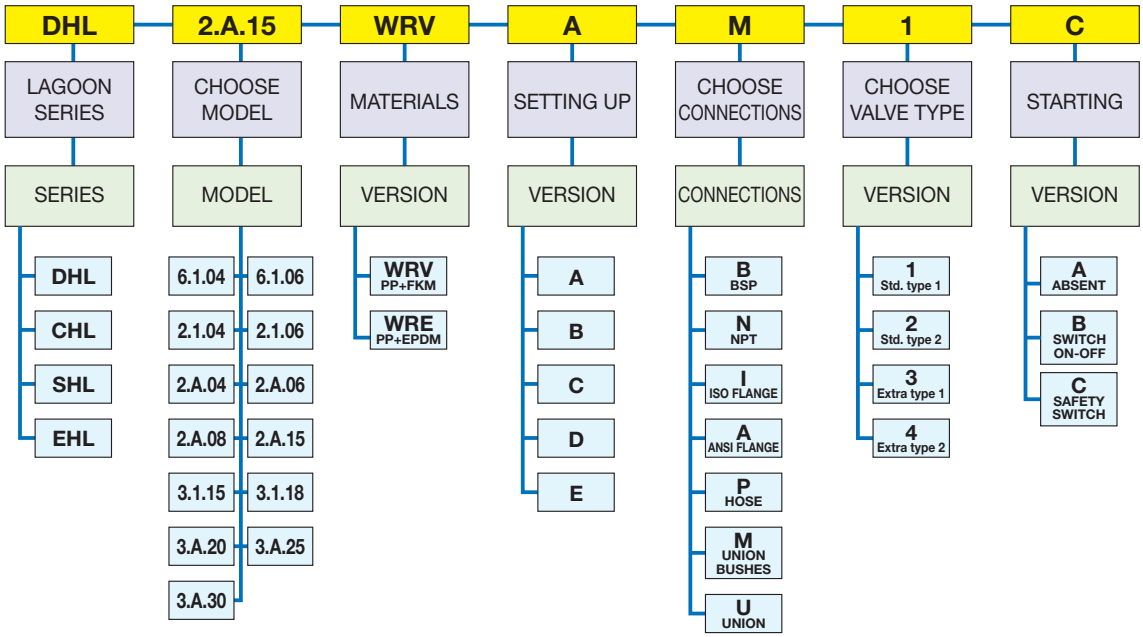


OPTIONAL COMPONENTS

Protected pressure gauge
Valves

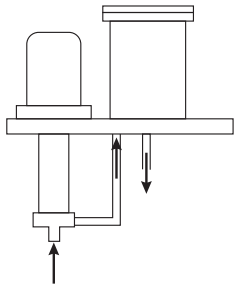
PUMP IDENTIFICATION LABEL

table 11

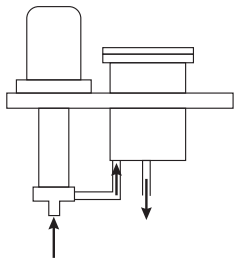


SETTING UP

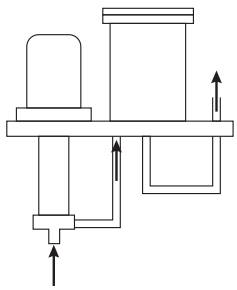
Out-of-tank filter chamber
in tank outlet
Code "**A**"



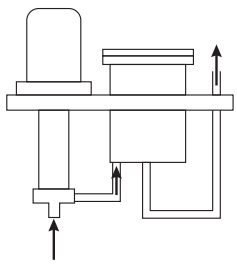
In tank filter chamber
in tank outlet
Code "**B**"



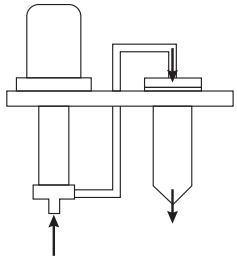
Out-of-tank filter chamber
out-of-tank outlet
Code "**C**"



In tank filter chamber
out-of-tank outlet
Code "**D**"



With bag filter
Code "**E**"



RANGE DNL - CNL - ENL

table 12

MODEL	FILTERING ELEMENT			MAX PRESSURE
	CARTRIDGES	BIG CARTR.	DISCS	bar at 20°C
2.1	7 x 10”	1 x 10"	16 x 200	3
2.A	7 x 20”	1 x 20"	34 x 200	3
3.1	12 x 10”	3 x 10"	22 x 300	3
3.A	12 x 20”	3 x 20"	36 x 300	3

PRACTICAL AND RUGGED

The filter chambers of the range LAGOON are injection molded showing their real high degree of thickness and made out in only one piece.
The eye bolts are located under the edge reinforced by plates in stainless steel.

The top also injection molded, contains the pressure gauge connection and the vent valve.
The feet give stability to the structure, simple inspection and easy fastening of the chamber on different supports.

MAIN COMPONENTS

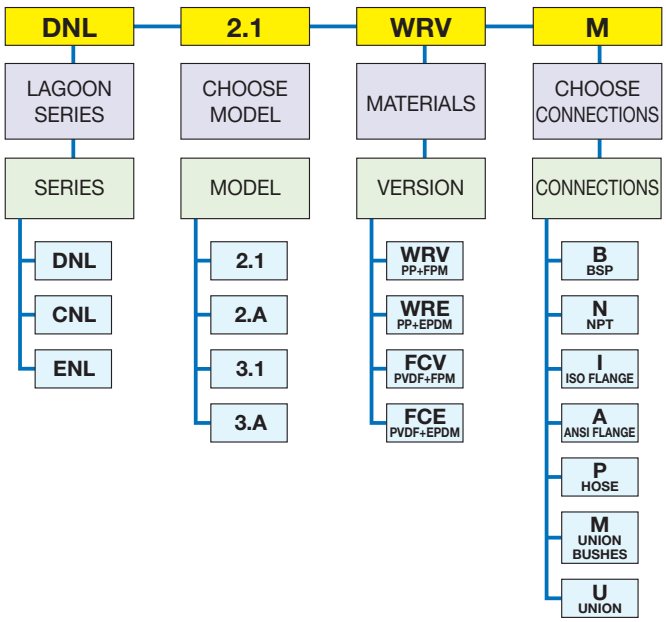
1 Filter chamber
2 Top cover with vent valve
3 Eye bolts in stainless steel
4 Connections with pipe unions

OPTIONAL COMPONENTS

5 Protected pressure gauge
6 Hose connections
7 Flanged connections

PUMP IDENTIFICATION LABEL

table 13

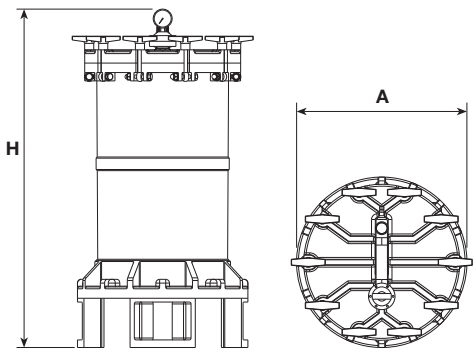


DIMENSIONS

table 14

MODEL	DN	Optional connections			Dimens.	
		HOSE	THREADED*	FLANGED	H	A
	in / out	in / out	in / out	in / out		
2.1	32/32	d40 / d40	1¼"/1¼"	32 / 32	580	310
2.A	32/32	d40 / d40	1¼"/1¼"	32 / 32	850	310
3.1	40/40	d50 / d50	1½"/1½"	40 / 40	650	450
3.A	40/40	d50 / d50	1½"/1½"	40 / 40	900	450

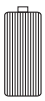
(*) BSP and NPT thread available



RANGE DNL - CNL - ENL

table 15

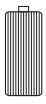
	FILTERING COMPONENTS	DIMENSION OF FILTERING COMPONENTS (substance g/m² x thickness mm)		CORE DIMENSION	CODE (example)
	**D** Discs	**CC** Cardboard **CE** Cardboard + Carbon	**350 x 0,80** **170 x 0,51** g/m² x mm	**40 x 200** **40 x 290**	**D CC 350x0,80 40x200** **D CE 170x0,51 40x300**

	FILTERING COMPONENTS	CARTRIDGES	FILTERING COMPONENTS	DIMENSION	FILTRATION DEGREES	END CAPS	CODE (example)
	**C** Cartridge	**F** Wound yarn	**WR** PP **CT** Cotton	**63x28x10"** **63x28x20"**	**1** **3** **5, 10, 20, 30** **50, 75, 100**	**DOE**	**C F WR 63x28x10 1 DOE** **C F CT 63x28x20 3 DOE**
	**C** Cartridge	**P** Pleated	**WR** PP	**68x32x10"** **68x32x20"**	**1** **10** **20, 50, 100**	**DOE**	**C P WR 68x32x10 1 DOE** **C P WR 68x32x20 10 DOE**
	**C** Cartridge	**M** Microfibre	**WR** PP	**63x28x10"** **63x28x20"**	**1** **5** **10, 25, 50, 100**	**DOE**	**C M WR 63x28x10 1 DOE** **C M WR 63x28x20 5 DOE**
	**C** Cartridge	**E** Carbon	**CA** Carbon	**68x28x10"** **68x28x20"**		**DOE**	**C E CA 68x28x10 DOE** **C E CA 68x28x20 DOE**
	**A** Cartridge Special with big surface	**P** Pleated	**WR** PP	**140x40x10"** **140x40x20"**	**2** **5** **10, 20, 50, 100**		**A P WR 104x40x10 2** **A P WR 104x40x20 5**

	FILTERING COMPONENTS	FILTERING MATERIAL	MATERIAL OF THE RING	DIMENSION Ø x L	FILTRATION DEGREES	CODE (example)
	**S** Bag	**WR** PP Welded	**WR** PP	**178 x 419**	**1** **5, 10, 25, 50, 100**	**S WR WR 178x419 1**

FILTERING ELEMENTS • The numbers in red indicate the total surface of filtration

table 16

MODEL	WOUND YARN CARTRIDGES			PLEATED CARTRIDGES			BIG SURFACE CARTRIDGES			ACTIVE CARBON CARTRIDGES			MICROFIBRE CARTRIDGES			PLATES			FILTER BAG (only with vertical pumps)			
		q.ty x L x Ø	m²		q.ty x L x Ø	m²		q.ty x L x Ø	m²		q.ty x L x Ø			q.ty x L x Ø			q.ty x Ø x ø	m²		q.ty x L x Ø	m²	l
1.1.H9	X	1 x 10" x 63	0,1	X	1 x 10" x 68	0,25				X	1 x 10" x 68		X	1 x 10" x 63								
1.1.03	X	1 x 10" x 63	0,1	X	1 x 10" x 68	0,25				X	1 x 10" x 68		X	1 x 10" x 63								
1.A.H9	X	1 x 20" x 63	0,2	X	1 x 20" x 68	0,5				X	1 x 20" x 68		X	1 x 20" x 63								
1.A.03	X	1 x 20" x 63	0,2	X	1 x 20" x 68	0,5				X	1 x 20" x 68		X	1 x 20" x 63								
6.1.04	X	4 x 10" x 63	0,4	X	4 x 10" x 68	1				X	4 x 10" x 68		X	4 x 10" x 63								
6.1.06	X	4 x 10" x 63	0,4	X	4 x 10" x 68	1				X	4 x 10" x 68		X	4 x 10" x 63								
2.1.04	X	7 x 10" x 63	0,7	X	7 x 10" x 68	2	X	1 x 10" x 140	2,5	X	7 x 10" x 68		X	7 x 10" x 63		X	22 x 200 x 32	0,7				
2.1.06	X	7 x 10" x 63	0,7	X	7 x 10" x 68	2	X	1 x 10" x 140	2,5	X	7 x 10" x 68		X	7 x 10" x 63		X	22 x 200 x 32	0,7				
2.A.04	X	7 x 20" x 63	1,4	X	7 x 20" x 68	4	X	1 x 20" x 140	5	X	7 x 20" x 68		X	7 x 20" x 63		X	48 x 200 x 32	1,4	X	1 x 419 x 178	0,2	7,9
2.A.06	X	7 x 20" x 63	1,4	X	7 x 20" x 68	4	X	1 x 20" x 140	5	X	7 x 20" x 68		X	7 x 20" x 63		X	48 x 200 x 32	1,4	X	1 x 419 x 178	0,2	7,9
2.A.08	X	7 x 20" x 63	1,4	X	7 x 20" x 68	4	X	1 x 20" x 140	5	X	7 x 20" x 68		X	7 x 20" x 63		X	48 x 200 x 32	1,4	X	1 x 419 x 178	0,2	7,9
2.A.15	X	7 x 20" x 63	1,4	X	7 x 20" x 68	4	X	1 x 20" x 140	5	X	7 x 20" x 68		X	7 x 20" x 63		X	48 x 200 x 32	1,4	X	1 x 419 x 178	0,2	7,9
2.A.18	X	7 x 20" x 63	1,4	X	7 x 20" x 68	4	X	1 x 20" x 140	5	X	7 x 20" x 68		X	7 x 20" x 63		X	48 x 200 x 32	1,4	X	1 x 419 x 178	0,2	7,9
3.1.15	X	12 x 10" x 63	2	X	12 x 10" x 68	3	X	3 x 10" x 140	7,5	X	12 x 10" x 68		X	12 x 10" x 63		X	30 x 290 x 32	2				
3.1.18	X	12 x 10" x 63	2	X	12 x 10" x 68	3	X	3 x 10" x 140	7,5	X	12 x 10" x 68		X	12 x 10" x 63		X	30 x 290 x 32	2				
3.A.20	X	12 x 20" x 63	3,5	X	12 x 20" x 68	6	X	3 x 20" x 140	15	X	12 x 20" x 68		X	12 x 20" x 63		X	50 x 290 x 32	3,5				
3.A.25	X	12 x 20" x 63	3,5	X	12 x 20" x 68	6	X	3 x 20" x 140	15	X	12 x 20" x 68		X	12 x 20" x 63		X	50 x 290 x 32	3,5				
3.A.30	X	24 x 20" x 63	7	X	24 x 20" x 68	12	X	6 x 20" x 140	30	X	24 x 20" x 68		X	24 x 20" x 63		X	100 x 290 x 32	7				
3.B.25	X	24 x 20" x 63	7	X	24 x 20" x 68	12	X	6 x 20" x 140	30	X	24 x 20" x 68		X	24 x 20" x 63		X	100 x 290 x 32	7				
3.B.30	X	24 x 20" x 63	7	X	24 x 20" x 68	12	X	6 x 20" x 140	30	X	24 x 20" x 68		X	24 x 20" x 63		X	100 x 290 x 32	7				
3.B.40	X	24 x 20" x 63	7	X	24 x 20" x 68	12	X	6 x 20" x 140	30	X	24 x 20" x 68		X	24 x 20" x 63		X	100 x 290 x 32	7				
																					

Production Program

TMB range

Installed powers: W 15÷100
Bodies materials: GFR/PP

• Magnetic drive

AM range

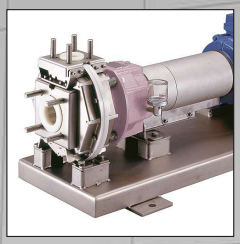
Installed powers: kW 0,18÷0,55
Bodies materials: GFR/PP - E-CTFE

• Magnetic drive

ROUTE range

Installed powers: kW 0,55÷7,5
Bodies materials: GFR/PP - CFF/E-CTFE

• Magnetic drive
• Sealed



FRONTIERA range

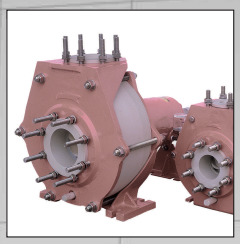
Installed powers: kW 0,55÷15
Bodies materials: PP - E-CTFE

• Magnetic drive
• Sealed

ZME range

Installed powers: kW 5,5÷15
Bodies materials: PP - E-CTFE

• Sealed



ZGE range (ISO 2858)

Installed powers: kW 0,55÷300
Bodies materials: PP - PVDF - PVC - PE HMW

• Sealed

ZMA and **ZGA** range

Installed powers: kW 0,75÷11
Bodies materials: PP - PVDF - PVC

• Self priming
• Sealed

ZM range

Installed powers: kW 0,75÷11
Bodies materials: GFR/PP - CFF/PVDF
Lenghts 400÷3000 mm

• Sealed

K range (KM and KMS)

Installed powers: kW 0,75÷22
Bodies materials: GFR/PP - PVDF - PVC
Lenghts 250÷2000 mm

K range (KG and KGS)

Installed powers: kW 0,75÷37
Bodies materials: GFR/PP - PVDF - PVC
Lenghts 400÷3000 mm

EQUIPRO range

Available motor power: 0,25÷4 kW
Material versions: GFR/PP – PVDF
Lenghts 275 - 450 mm

LAGOON range

Range: from 500 to 40.000 l/h
Filter materials: PP - PVDF
Pump materials: GFR/PP - CFF/E-CTFE

ARGAL CHEMICAL PUMPS

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