

Time controlled iron remover equipment with Pyrolox media

Part number	Pyrolox liter	Valve In / Out Connection	Flow rate m <sup>3</sup> /h	Surface m <sup>2</sup>	Backwash flow rate	Weight kg	Size (mm) H x W x L
BlueSoft-3072PT/IV	191	IFVS63/63 d63 / d63	3.5-7.9	0.44	26.4 m <sup>3</sup> /h	848	2360 x 1690 x 1250
BlueSoft-3672PT/IV	286	IFVS63/90 d90 / d63	5.1-11.5	0.64	38.4 m <sup>3</sup> /h	1 244	2370 x 1840 x 1300
BlueSoft-4272PT/IV	396	IFVS63/90 d90 / d63	7-15.8	0.88	53 m <sup>3</sup> /h	1 674	2620 x 2000 x 1300
BlueSoft-4872PT/IV	504	IFVS90/110 d110 / d90	9-20.2	1.12	67 m <sup>3</sup> /h	2 135	2620 x 2150 x 1300
BlueSoft-6386PT/IV	900	IFVS90/110 d110 / d90	16-36	2.00	120 m <sup>3</sup> /h	2 338	2700 x 2550 x 1350

The controller of filter is able to do backwash with raw water or treated water. Normally backwash is carried out with treated water. Upon request backwash of filter can be done with raw water (without any charge).

Iron equivalent (mg/l) = 1 x Fe index (mg/l) + 2 x Mn index (mg/l) + 5 x H<sub>2</sub>S (mg/l)

Determination of the filtration velocity according to iron equivalent:

Iron equivalent	Filtration velocity
<0.2 mg/l	18 m/h
0.5 mg/l	15 m/h
1.0 mg/l	13 m/h
1.5 mg/l	12 m/h
2.0 mg/l	10 m/h
3.0 mg/l	8 m/h

Required filtering surface (m<sup>2</sup>) = Flow rate (m<sup>3</sup>/h) / Filtration velocity (m/h)

Important working conditions of Pyrolox:

- Backwash: 60-70m/h
- Bed depth: 45cm
- Water pH-range: 6,5 – 9,0
- Free volume: min. 40% of the bed depth
- Resistant opposite the chlorine.



BS-3672PT/IV

## 2014/ Iron removers with Greensand Plus and mechanical filter system with FilterAg+

Time controlled iron remover equipment with Greensand Plus media

Part number	Green Sand liter	Valve In / Out Connection	Flow rate m <sup>3</sup> /h	Surface m <sup>2</sup>	Backwash flow rate	Weight kg	Size (mm) H x W x L
BlueSoft-3072GT/IV	397	IFVS63/63 d63 / d63	3.5-7.9	0.44	15 m <sup>3</sup> /h	1 003	2360 x 1690 x 1250
BlueSoft-3672GT/IV	566	IFVS63/63 d63 / d63	5.1-11.5	0.64	22 m <sup>3</sup> /h	1 367	2370 x 1840 x 1300
BlueSoft-4272GT/IV	792	IFVS63/90 d90 / d63	7-15.8	0.88	31 m <sup>3</sup> /h	1 830	2620 x 2000 x 1300
BlueSoft-4872GT/IV	1019	IFVS63/90 d90 / d63	9-20.2	1.12	39 m <sup>3</sup> /h	2 323	2620 x 2150 x 1300
BlueSoft-6386GT/IV	1811	IFVS90/90 d90 / d90	16-36	2.00	70 m <sup>3</sup> /h	4 017	2700 x 2550 x 1350

Iron equivalent (mg/l) = 1 x Fe index (mg/l) + 2 x Mn index (mg/l)

Determination of the filtration velocity according to iron equivalent:

Iron equivalent	Filtration velocity
<0.2 mg/l	18 m/h
0.5 mg/l	15 m/h
1.0 mg/l	12 m/h
1.5 mg/l	10 m/h
2.0 mg/l	8 m/h

Required filtering surface (m<sup>2</sup>) = Flow rate (m<sup>3</sup>/h) / Filtration velocity (m/h)

Important working conditions of Green Sand:

Backwash: 30-35 m/h

Water pH-range: 6,2 – 8,5

Bed depth: 900 mm

Free volume: min. half of the bed depth

**The ongoing water should'nt contain oil or poliphosphats.**

Solution of regeneration: max.2,5 – 3 g KMnO<sub>4</sub> / l water of KMnO<sub>4</sub> solution tank

KMnO<sub>4</sub> solution: 10°C water 30g KMnO<sub>4</sub> / liter H<sub>2</sub>O



BS-3672AT/IV

The controller of filter is able to do backwash with raw water or treated water. Normally backwash is carried out with treated water. Upon request backwash of filter can be done with raw water (without any charge).

Time controlled hyper filtration mechanical filter

Part number	Filter AG Plus liter	Valve In / Out Connection	Flow rate m <sup>3</sup> /h	Surface m <sup>2</sup>	Backwash flow rate	Weight kg	Size (mm) H x W x L
BlueSoft-3072HF/IV	364	IFVS63/63 d63 / d63	13-21	0.44	15.4 m <sup>3</sup> /h	541	2360 x 1690 x 1250
BlueSoft-3672HF/IV	540	IFVS90/90 d90 / d90	19-31	0.64	22.4 m <sup>3</sup> /h	823	2370 x 1840 x 1300
BlueSoft-4272HF/IV	793	IFVS90/90 d90 / d90	26-43	0.88	30.8 m <sup>3</sup> /h	1 070	2620 x 2000 x 1300
BlueSoft-4872HF/IV	990	IFVS90/90 d90 / d90	32-54	1.12	39.2 m <sup>3</sup> /h	1 321	2620 x 2150 x 1300
BlueSoft-6386HF/IV	1811	IFVS110/110 d110 / d110	58-98	2.00	70 m <sup>3</sup> /h	2 277	2700 x 2550 x 1350

Important working conditions of Filter AG Plus:

Service flow rate: 29-49 m/h

Backwash flow rate: 34-39 m/h

Bed depth: 900 mm

Freeboard: max. of 50% of bed depth

The controller of filter is able to do backwash with raw water or treated water. Normally backwash is carried out with treated water. Upon request backwash of filter can be done with raw water (without any charge).