

# IRON FILTERS - SPECIFICATIONS

## TECHNICAL SPECIFICATIONS

| Model                              | PF-OXY1               |       |       | PF-OXY1,5             |       |       |       |       |
|------------------------------------|-----------------------|-------|-------|-----------------------|-------|-------|-------|-------|
|                                    | 1                     | 2     | 3     | 3                     | 4     | 5     | 7     | 10    |
| Filter media (Cuft) <sup>(1)</sup> |                       |       |       |                       |       |       |       |       |
| Operating pressure min/max (bar)   | 2,5/8,3               |       |       | 2,5/8,0               |       |       |       |       |
| Operating temperature min/max (°C) | 4/48                  |       |       | 4/48                  |       |       |       |       |
| Electrical connection (V/Hz)       | 230/50 <sup>(2)</sup> |       |       | 230/50 <sup>(1)</sup> |       |       |       |       |
| Max. power consumption (VA)        | 12                    |       |       | 80                    |       |       |       |       |
| Hydraulic connection inlet/outlet  | 1" BSP Male           |       |       | 1,5" BSP Male         |       |       |       |       |
| Hydraulic connection drain         | 13 mm hose barb       |       |       | 1" BSP Male           |       |       |       |       |
| Pressure tank                      | 10x40                 | 12x52 | 14x65 | 14x65                 | 16x65 | 18x65 | 21x62 | 24x72 |

<sup>(1)</sup> 1 Cuft = 28,3 Ltr

<sup>(2)</sup> supplied with 24V transformer

## PERFORMANCES @ 3 BAR OPERATING PRESSURE<sup>(2)</sup>

| Model   | PF-OXY1 |     |     | PF-OXY1,5 |     |      |      |      |
|---|---------|-----|-----|-----------|-----|------|------|------|
|   | 1       | 2   | 3   | 3         | 4   | 5    | 7    | 10   |
| Filter media (Cuft)   |         |     |     |           |     |      |      |      |
| Service flow rate @Δp 1 bar (m <sup>3</sup> /hr) <sup>(3)</sup>   | 3,4     | 3,4 | 3,5 | 7,8       | 7,8 | 7,8  | 7,9  | 8,0  |
| Recommended max. service flow (m <sup>3</sup> /hr) <sup>(4)</sup> | 1,0     | 1,5 | 2,0 | 2,0       | 2,7 | 3,4  | 4,1  | 6,0  |
| Rinse water usage per regeneration (Ltr)                          | 290     | 413 | 536 | 556       | 811 | 1065 | 1366 | 1922 |
| Backwash flow rate (Ltr/min)                                      | 23      | 31  | 38  | 38        | 57  | 76   | 95   | 133  |

<sup>(2)</sup> Indicative numbers, performances depending on operating conditions and water quality

<sup>(3)</sup> Based on clean filter bed operation

<sup>(4)</sup> Flow rate at which filtration process is still executed adequately, higher intermittent flow rates are possible

## APPLICATION LIMITATIONS

| Model   | PF-OXY1 / PF-OXY1,5   |
|---|---|
| pH for Iron removal   | 6,8 - 9,0   |
| pH for Manganese removal                                      | 8,0 - 9,0   |
| pH for Iron & Manganese removal                               | 8,0 - 8,5   |
| Maximum contaminant level Iron (Fe <sup>2+</sup> )            | 15 mg/Ltr   |
| Maximum contaminant level Manganese (Mn <sup>2+</sup> )       | 2 mg/Ltr  |
| Maximum contaminant level Hydrogen Sulfide (H <sub>2</sub> S) | 5 mg/Ltr  |
| Organic matter  | max. 4,0 mg/L; higher level may hinder the correct operation of the system  |
| Chlorine  | max. 1,0 mg/Ltr   |
| Iron bacteria   | if iron bacteria are present, frequent service may be necessary and the life of the system may be limited; by properly controlling the iron bacteria with chlorine or another approved method of bacterial reduction, the system will function properly |

## DIMENSIONS

| Model                        | PF-OXY1 |      |      |
|------------------------------|---------|------|------|
| Filter media (Cuft)          | 1       | 2    | 3    |
| Width (mm) (W)               | 264     | 311  | 365  |
| Depth (mm) (D)               | 282     | 311  | 365  |
| Depth, incl. bypass (mm) (D) | 371     | 376  | 403  |
| Height (mm) (H)              | 1182    | 1500 | 1836 |

| Model               | PF-OXY1,5 |      |      |      |      |
|---------------------|-----------|------|------|------|------|
| Filter media (Cuft) | 3         | 4    | 5    | 7    | 10   |
| Width (mm) (W)      | 408       | 434  | 491  | 555  | 635  |
| Depth (mm) (D)      | 408       | 434  | 491  | 555  | 635  |
| Height (mm) (H)     | 1955      | 1952 | 2003 | 2002 | 2199 |

| Model names |                                |
|-------------|--------------------------------|
| PF-OXY1     | ProFlow - Iron Filter 1 inch   |
| PF-OXY1,5   | ProFlow - Iron Filter 1,5 inch |

