

**Healthy potable water**  
**LimexIQ from SYR.**



**Water softening and de-ironing.**  
**Perfect control. Optimal dosage.**  
**Water treatment made by professionals.**

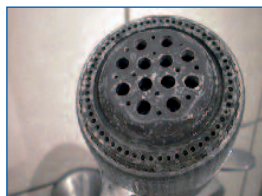


**Efficient building services**

# Clean, clear and free from lime and rust. Reliable potable water with the **LimexIQ** module system from SYR.

Healthy and clean potable water even under difficult circumstances - SYR's water experts have developed a multifunctional computer-based central unit designed to control the softening and de-ironing of potable water. Depending on the required water quality, the universal connection block with the blending and maintenance valve can also be equipped with the DOS dosing system and/or the well-proven RATIO backwash filter.

## Soft water without dangerous lime



### LEX ion exchanger

Many kilograms of lime get into the water pipework of an average household within just one year. This mineral progressively destroys pipes, valves and appliances. But not necessarily, since the LEX ion exchanger fully removes the lime from the water by means of the well-proven ion exchanging method.

- the brine tank and the softening bottle are kept separate, ideal for maintenance
- flexible installation possibilities, can be adapted to various mounting conditions
- high-performing, up to 5.7 m<sup>3</sup>/h
- available with a resin volume of 10, 15, 20, 25 and 30 liters
- individual solutions for industrial systems, public facilities, hospitals etc

## Good-tasting water without brownish color



### FEX De-ironing system

Many natural waters contain iron ions. However, their concentration often impairs the water's taste and causes a turbid brownish color. With its oxidation process and mechanical filtration, the FEX de-ironing system provides for clear potable water. For the oxidation process with the FEX system, SYR uses the so-called Birm-method, which binds iron by means of manganese dioxide-coated granular filter media. It will reliably be flushed out with the next backwash operation.

- high efficiency
- functional up to a 5-ppm iron share
- no chemical additives required
- full capacity recovery when backwashing

### Electronic control

The combined electronic control for water softening and de-ironing.



- touch-screen
- pulse generator for dosing pump
- prepared I-bus system
- plug and play

## Fighting pitting corrosion in installations with a mineral solution



### DOS dosing system

The DOS dosing system from SYR adds an accurately-dosed mineral solution to the potable water, which prevents the formation of rust and thus dangerous pitting corrosion in the domestic installation.

- with an electronic pulse generator for single installation or as accessory equipment directly connected to the LEX ion exchanger
- compact unit with a pump and a fluid tank
- robust fluid tank allowing for large storage volume
- meets the requirements of the German standard

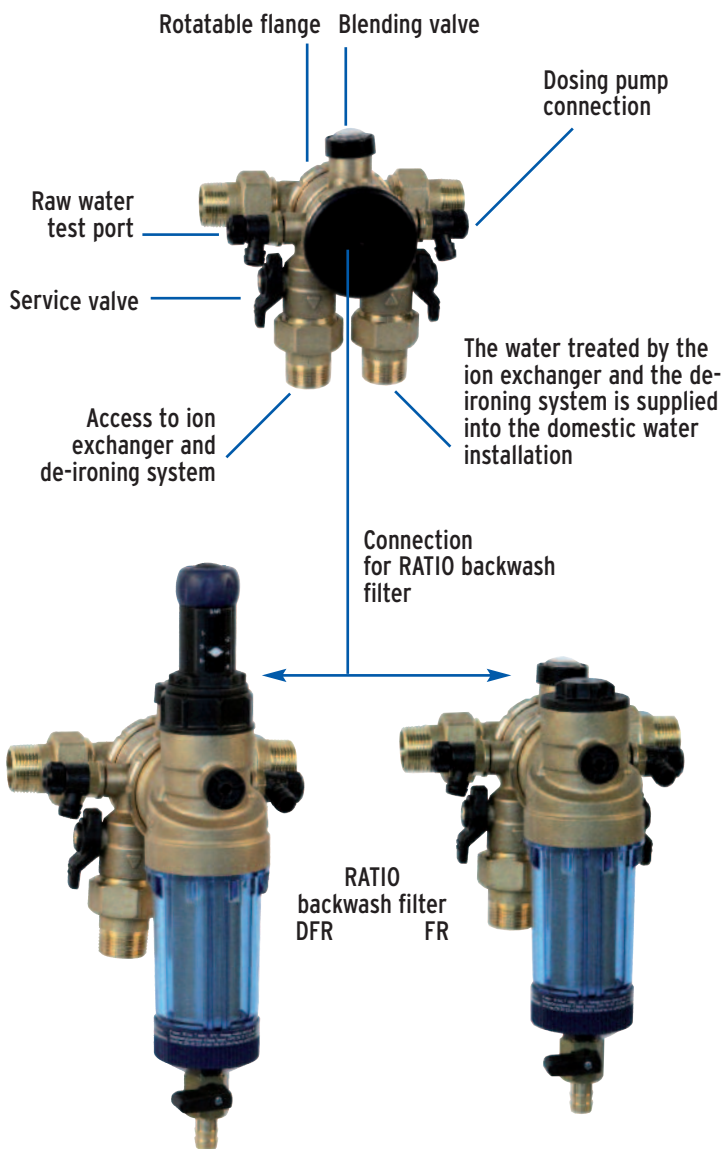


### LimexIQ allround protection

1. De-ironing system: for ferruginous water (water supplier/well)
2. Filter: removal of dirt particles, in combination with a pressure reducing valve in case of excess pressure
3. Ion exchanger: for hard water
4. Dosing pump: to protect domestic installations against corrosion or in case of aggressive water conditions

These products are used separately or in various combinations, according to the needs.

## Connection made easy: universal mounting system



Connecting the LimexIQ system components? No problem with the harmonized mounting system! The connection block with a rotatable flange, an integrated blending valve, a dosing pump connection and a raw water test port for titration allows for a quick and easy connection of the RATIO backwash filter. The LEX ion exchanger, the FEX de-ironing system and the DOS dosing pump are connected by means of a flexible hose system.

### Connection block with rotatable flange and blending valve:

- for water de-ironing and softening
- blending valve
- stop valves for maintenance
- raw water test port
- integral dosing pump connection



## Technical specifications

### 1. FEX De-ironing system

|              | FEX 40       | FEX 50       | FEX 70       |
|--------------|--------------|--------------|--------------|
| Flow rate    | 1,2 m³/h     | 1,5 m³/h     | 1,8 m³/h     |
| Bottle size  | 12 x 48 inch | 13 x 54 inch | 14 x 65 inch |
| Height in mm | 1458         | 1601         | 1870         |

| FEX 40, 50 and 70   |                  |
|---------------------|------------------|
| PH value            | 6.8 - 9          |
| Fe                  | 0 - 5 ppm        |
| Mn                  | 0 - 2 ppm        |
| Power supply        | 230/12 V - 50 Hz |
| Min. inlet pressure | 2 bar            |
| Max. inlet pressure | 7 bar            |
| Vacuum              | Not admissible   |
| Pressure loss       | 0.5 bar          |
| Max. temperature    | 30 °C            |

### 2. RATIO filter series - FR, DFR

### 3. Blending valve

### 4. LEX water softener

| Model  | Number of persons | Dwelling units | Max. capacity |
|--|-------------------|----------------|---------------|
| LEX 10   | 3                 | 1              | 1.200 l/h     |
| LEX 15   | 4                 | 1 - 2          | 1.800 l/h     |
| LEX 20   | 6                 | 2 - 3          | 2.400 l/h     |
| LEX 25   | 8                 | 3 - 4          | 3.000 l/h     |
| LEX 30   | 10                | 4 - 5          | 3.600 l/h     |
| <b>Other product sizes on demand</b>   |                   |                |               |
| Calculation based upon hardness difference of 20°dH and regeneration interval 3 days |                   |                |               |

| LEX 10, 15, 20, 25 und 30 |                  |
|---------------------------|------------------|
| Power supply              | 230/12 V - 50 Hz |
| Min. inlet pressure       | 2 bar            |
| Max. inlet pressure       | 7 bar            |
| Pressure loss             | 0.5 bar          |
| Max. temperature          | 30 °C            |

| Size        | Height | Width | Depth |
|-------------|--------|-------|-------|
| LEX 10      | 700    | 345   | 610   |
| LEX 15 - 30 | 1150   | 345   | 610   |



### 5. DOS Dosage

| Flow rate | 5,7 m³/h   |
|-----------|--|
| SW        | for galvanized pipes and aggressive water, hardness category 1   |
| C         | Prevention of copper corrosion downstream of water softeners   |
| W         | for galvanized pipes, hardness categories 1 + 2 and combined installations downstream of water softeners |
| H         | For hardness stabilization categories 3 + 4  |

| Dimensions |     |
|------------|-----|
| Length mm  | 178 |
| Width mm   | 100 |
| Height mm  | 184 |

**Individual solutions for industrial installations, public facilities or hospitals on demand.**

