

## Rotative Sieves

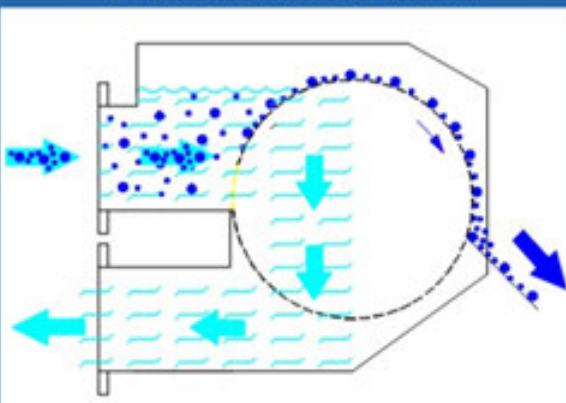
Filtration system for solid-liquid separation of waste water

The rotative sieves are equipment for the filtration or sieving of waste water and liquids in general in order to perform a **solid-liquid separation**. By its conception, it is a device of **self-cleaning operation**, capable of operating for long periods of time without needing attention.

This system allows to replace in many cases slabs, the elimination of coarse sands and up to 30% percentages of fats and leftovers. Its use is usual in many **industrial applications**.



### OPERATING SCHEME



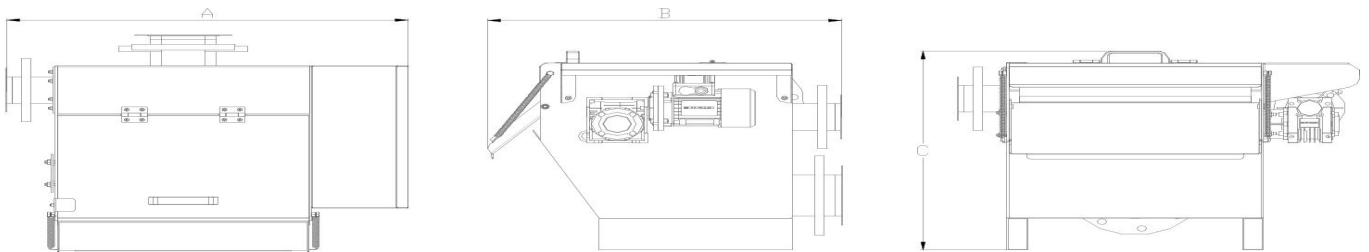
### How works a rotative sieve?

- The liquid to be filtered enters the rotative sieve through the **inlet pipe** and is evenly distributed along the entire **filter cylinder** which rotates at low speed.
- The **solid particles** are retained on the surface of the same and are led to the **scraper**, which is responsible for separating and depositing them on a inclined tray for **gravity fall**.
- The **liquid** that passes through the **slits of the filter cylinder** is led to the outlet, located at the back of the body.

## Its construction consists of the following elements:

- **Filter cylinder** made of stainless steel AISI 304, is constructed by helical winding of a triangular section profile welded over a series of perimetral longitudinal support profiles.
- **Body** made of stainless steel AISI 304, strong mechanically-welded construction, provided with liquid inlet and outlet and all sealing elements.
- **Cleaning scraper** in brass, fixed on a hinged tray of stainless steel, that adjusts to the cylinder by means of springs mounted in its ends.
- **Internal cleaning system** using pressure water made of micro perforated stainless steel tubing.
- Highly robust and maintenance-free **reduction motor** ensures uninterrupted use of equipment.
- Optionally it can be supplied with an **overflow piece**, which does not act as an overflow of the total flow, only over a specific excess that the equipment can have.

### GENERAL DATA



| MODEL    | INSTALLED POTENCY Kw. | EMPTY WEIGHT Kg. | A mm | B mm | C mm | ENTRY FLANGE DN | OUTPUT FLANGE DN | OVERFLOW (Optional) DN |
|----------|-----------------------|------------------|------|------|------|-----------------|------------------|------------------------|
| DIMW TR1 | 0,18                  | 85               | 785  | 690  | 630  | 80              | 125              | 80                     |
| DIMW TR2 | 0,25                  | 115              | 785  | 905  | 880  | 125             | 150              | 125                    |
| DIMW TR3 | 0,25                  | 165              | 1035 | 905  | 880  | 150             | 200              | 125                    |
| DIMW TR4 | 0,25                  | 190              | 1290 | 905  | 880  | 200             | 250              | 125                    |
| DIMW TR5 | 0,55                  | 280              | 1010 | 1235 | 1190 | 200             | 250              | 150                    |
| DIMW TR6 | 0,55                  | 330              | 1260 | 1235 | 1190 | 250             | 300              | 150                    |
| DIMW TR7 | 0,55                  | 370              | 1760 | 1235 | 1190 | 300             | 350              | 150                    |

## Features to choose the rotating sieve you need:

In addition to the electrical power, and the size of the input and output flanges, the most relevant parameters are:

- The **flow** of water passage (in m<sup>3</sup>/h).
- **Light of passage** of the slits (in mm.).

| Model    | Light of passage of the slits |     |     |     |     |     |
|----------|-------------------------------|-----|-----|-----|-----|-----|
|          | 0,3                           | 0,5 | 0,8 | 1   | 1,5 | 2   |
| DimW TR1 | 10                            | 15  | 20  | 25  | 30  | 30  |
| DimW TR2 | 22                            | 39  | 52  | 63  | 81  | 81  |
| DimW TR3 | 34                            | 60  | 81  | 99  | 125 | 125 |
| DimW TR4 | 46                            | 81  | 110 | 134 | 170 | 170 |
| DimW TR5 | 59                            | 106 | 143 | 174 | 221 | 221 |
| DimW TR6 | 82                            | 147 | 198 | 241 | 307 | 307 |
| DimW TR7 | 128                           | 228 | 309 | 375 | 477 | 477 |
| DimW TR8 | 174                           | 309 | 419 | 508 | 647 | 647 |

These capabilities are valid only for clean water. For waste water with SS up to 500 mg/l reduce capacity by 25% with clean water. You can consult with our technical department to select the suitable size.