

# 105STS/MTS Valve Series Commercial Water Filter

## Birm (105STS/MTS BF Filter)

**BIRM (105STS/MTS BF FILTER)** For the reduction of dissolved iron and manganese compounds. The Birm media is not consumed in the iron removal operation resulting in a low attrition loss. It has a wide temperature performance range and extremely high removal efficiency. The media does not require chemicals for regeneration and only periodic backwashing is required.

**Canature WaterGroup™** has dedicated professional engineers with decades of commercial water treatment experience. Over the years, they have built a reputation for designing efficient, high quality commercial water systems.

Our **105STS Single Valve Series** filters provide high quality filtered water. The system is engineered and thoroughly tested to provide years of reliable, trouble-free performance with minimal maintenance.

### Operating Parameters

- Operating pressure: 20 - 100 psi
- Operating temperature: 39 - 100° F
- Electrical: Input 120V 60 Hz - Output 12VAC

### Materials of Construction

- Control Valve: Plastic PPO (Noryl) - NSF 44 Certified
- Resin Tanks: Corrosion resistant fibreglass reinforced polyethylene - NSF 44 Certified
- Internal Distribution
- NSF 44 Certified for Materials and Structural Integrity Requirements

### Standard Features

- 105 high flow control valve with RWB piston (standard)
- Large display: Fully programmable and easy to set electronic controller
- Inlet/Outlet connection sizes available in 1.5" and 2"
- Advanced Diagnostic Information: Easily trouble shoot and access system information displayed in real time
- Optional Auxiliary Contact: activated for regeneration cycle
- Battery Back-up System: In the event of a power outage, the system can continue to meter and monitor water usage for up to 9 hours



## For Applications Such As:

- Apartments • Boiler Treatment • Cooling Towers • Hotels • Schools • Nursing Homes  
Car Wash • Dairies • Factories • Laundromats • Office Buildings • Resorts  
Restaurants • RO Pre-treatment • Office Buildings • Hospitals

# 105STS/MTS Valve Series Commercial Water Filter Specifications

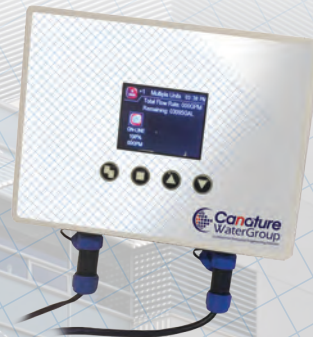
## Birm Filters

| Single Series Model | Typical   | Max Flow To Drain | Pipe Size |       | Media Per Tank | Mineral Tank |        | Installation |       |       | Shipping Weight | Operating Weight |
|---------------------|-----------|-------------------|-----------|-------|----------------|--------------|--------|--------------|-------|-------|-----------------|------------------|
|                     | Flow Rate |                   | Service   | Drain |                | Diameter     | Height | Height       | Depth | Width |                 |                  |
|                     | USGPM     | in                | in        | in    | in             | in           | in     | in           | in    |       |                 |                  |
|                     | l/s       | mm                | mm        | mm    | mm             | mm           | mm     | mm           | mm    |       |                 |                  |
| 105MTS/STS          | 5         | 10                | 2"*       | 2"*   | 2.5            | 14           | 65     | 86           | 32    | 20    | 307             | 707              |
| BF14-2"*            | 0.32      | 0.63              | 51        | 51    | 0.071          | 356          | 1,651  | 2,184        | 813   | 508   | 139             | 321              |
| 105MTS/STS          | 7         | 15                | 2"*       | 2"*   | 3.5            | 16           | 65     | 88           | 33    | 22    | 366             | 866              |
| BF16-2"*            | 0.44      | 0.95              | 51        | 51    | 0.01           | 406          | 1,651  | 2,235        | 838   | 559   | 166             | 393              |
| 105MTS/STS          | 9         | 15                | 2"*       | 2"*   | 4.5            | 18           | 65     | 88           | 34    | 24    | 466             | 1,066            |
| BF18-2"*            | 0.57      | 0.95              | 51        | 51    | 0.13           | 475          | 1,651  | 2,235        | 864   | 610   | 211             | 484              |
| 105MTS/STS          | 12        | 25                | 2"*       | 2"*   | 6              | 21           | 62     | 88           | 36    | 27    | 587             | 1,387            |
| BF21-2"*            | 0.76      | 1.58              | 51        | 51    | 0.17           | 533          | 1,575  | 2,235        | 914   | 686   | 266             | 629              |
| 105MTS/STS          | 16        | 30                | 2"        | 2"    | 8              | 24           | 72     | 96           | 37    | 30    | 787             | 1,887            |
| BF24-2"             | 1.01      | 1.89              | 51        | 51    | 0.23           | 610          | 1,829  | 2,438        | 940   | 762   | 357             | 856              |
| 105MTS/STS          | 25        | 50                | 2"        | 2"    | 12.5           | 30           | 72     | 107          | 40    | 36    | 1,400           | 3,000            |
| BF30-2"             | 1.575     | 3.15              | 51        | 51    | 0.35           | 762          | 1,829  | 2,718        | 1,016 | 914   | 635             | 1,361            |
| 105MTS/STS          | 35        | 70                | 2"        | 2"    | 17.6           | 36           | 72     | 107          | 44    | 42    | 1,900           | 3,900            |
| BF36-2"             | 2.21      | 4.41              | 51        | 51    | 0.50           | 914          | 1,829  | 2,718        | 1,118 | 1,067 | 862             | 1,770            |

\* 1.5" also available



105STS Single Valve Series



MTS Controller



NSF 44 Certified for Materials and Structural Integrity Requirements\*

\* Valve and tank are NSF 44



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