

# 3M Purification

## 3M™ P165BN

### Scale Control Filter Cartridge



The 3M™ Water Filtration Product Model P165BN single cartridge water filter helps provide consistent high quality water for espresso and espresso based drinks at flow rates up to 3.8 lpm (1.0 gpm). A high capacity weak acid ion-exchange resin reduces calcium and magnesium ions to help prevent hard scale formation on heating coils, this action reduces energy inefficiency, downtime and expensive service calls. Inlet water TDS and alkalinity are also reduced. Premium activated carbon reduces chlorine taste and odour and bitterness associated with poor water quality. A built-in bypass directs 75% of the inlet water through the media.

### Features & Benefits

- Consistent great tasting espresso and espresso drinks from water with reduced hardness, alkalinity, TDS and chlorine taste and odour.
- Increased lifetime and capacity from a built-in bypass that allows 25% of inlet water to pass through untreated.
- NSF and/or FDA CFR-21 compliant materials.
- Reduced hard scale formation on the heating coils by the reduction of calcium and magnesium ions results in improved energy efficiency and reduced downtime and expensive service calls.
- Sanitary Quick Change (SQC) encapsulated cartridge design allows for fast and easy cartridge change-outs with a 1/4 turn.

### Applications

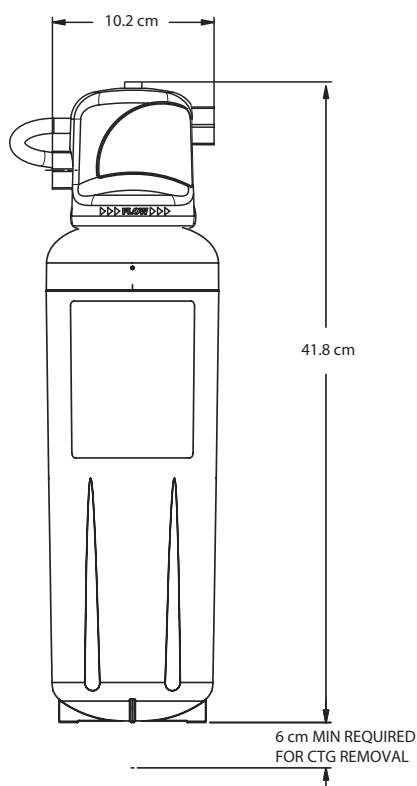
- Espresso

### Product Specifications

| Model  | Part Number | Reduction Claims                  | Capacity <sup>1</sup> | Service Flow Rate | Application |
|--------|-------------|-----------------------------------|-----------------------|-------------------|-------------|
| P165BN | 70020020692 | Hardness, Chlorine, Taste & Odour | 2,722 litres @ 150ppm | 3.8 lpm           | Hard Water  |

1. Tested and verified by manufacturer's laboratory.





## Physical Specifications

- Filter cartridges are o-ring seal type.
- Filter cartridge maximum operating pressure of 862 kPa (125 psi) and operating temperature of 37.8°C (100°F).
- Recommended service flow rate is up to 3.8 lpm (1.0 gpm).
- Filter cartridges incorporate carbon block filtration medium and ion exchange media.
- Filter cartridge materials are NSF and/or FDA CFR-21 compliant.
- Cartridges are sanitary in design, requiring no contact with the filter media during cartridge change-out.
- Filter cartridges require no pre-activation.
- Shipping weight: 3.4 kg (7.5 lbs) per case.
- Case quantity: 1

### IMPORTANT: Installation Tips

These installation tips are for informational purposes only and are not intended to be used as actual installation instructions.

### CAUTION: To reduce the risk associated with property damage due to water leakage:

- Read and follow. Use Instructions before installation and use of this system.
- Installation and use. MUST comply with all state and local plumbing codes.
- Protect from freezing, remove filter cartridge when temperatures are expected to drop below 4.4°C (40°F).
- Do not install on hot water supply lines. The maximum operating water temperature of this filter system is 37.8°C (100°F).
- Do not install if water pressure exceeds 862 kPa (125 psi). As a requirement of the plumbing code, a pressure limiting valve and backflow prevention device must be installed. Contact a plumbing.
- Professional if you are uncertain how to check your water pressure.
- Do not install where water hammer conditions may occur. If water hammer conditions exist you must install a water hammer arrester. Contact a plumbing professional if you are uncertain how to check for this condition.
- The disposable filter cartridge MUST be replaced every 12 months, at the rated capacity or if a noticeable reduction in flow rate occurs.

WARNING: Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. If system is not used for 2 days or more, flush 5-10 litres of water through before consuming water.

### Important Notice

The information described in this literature is accurate to the best of our knowledge. A variety of factors, however, can affect the performance of the Product(s) in a particular application, some of which are uniquely within your knowledge and control. INFORMATION IS SUPPLIED UPON THE CONDITION THAT THE PERSONS RECEIVING THE SAME WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR USE. IN NO EVENT WILL 3M PURIFICATION BE RESPONSIBLE FOR DAMAGES OF ANY NATURE WHATSOEVER RESULTING FROM THE USE OF OR RELIANCE UPON INFORMATION. It is your responsibility to determine if additional testing or information is required and if this product is fit for a particular purpose and suitable in your specific application.

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