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Cim-Tek 70020 800-30

Cim-Tek 70020 800-30 Fuel Dispenser Filter User Manual

Brand: Cim-Tek | Model: 70020 800-30

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Cim-Tek 70020 800-30 Fuel Dispenser Filter. This filter is designed to remove particulates such as dust, dirt, and rust from various fuel types, including diesel, ULSD, gasoline, ethanol blends up to 15%, and bio-diesel blends up to 15%. Adhering to the guidelines in this manual will ensure optimal performance and longevity of your filter.

SAFETY INFORMATION

WARNING: Always follow local regulations and safety procedures when handling fuel and fuel system components.

- Ensure the fuel dispenser is turned off and depressurized before attempting any installation or maintenance.
- Wear appropriate personal protective equipment (PPE), including gloves and eye protection, when working with fuel.
- Work in a well-ventilated area to avoid inhalation of fuel vapors.
- Keep ignition sources away from the work area. Fuel is highly flammable.
- Dispose of used filters and contaminated materials according to environmental regulations.
- Do not use this filter for aviation applications.

PRODUCT OVERVIEW

The Cim-Tek 70020 800-30 is a high-volume spin-on fuel dispenser filter. Key features include:

- Single Filter design.
- 30 Micron filtration for particulate removal.
- Designed with a 1-1/2"-16 UNF thread.
- Features a 1" Flow rate.
- Model number 800-30.



Figure 1: Front view of the Cim-Tek 70020 800-30 Fuel Dispenser Filter, showing the brand and model information.

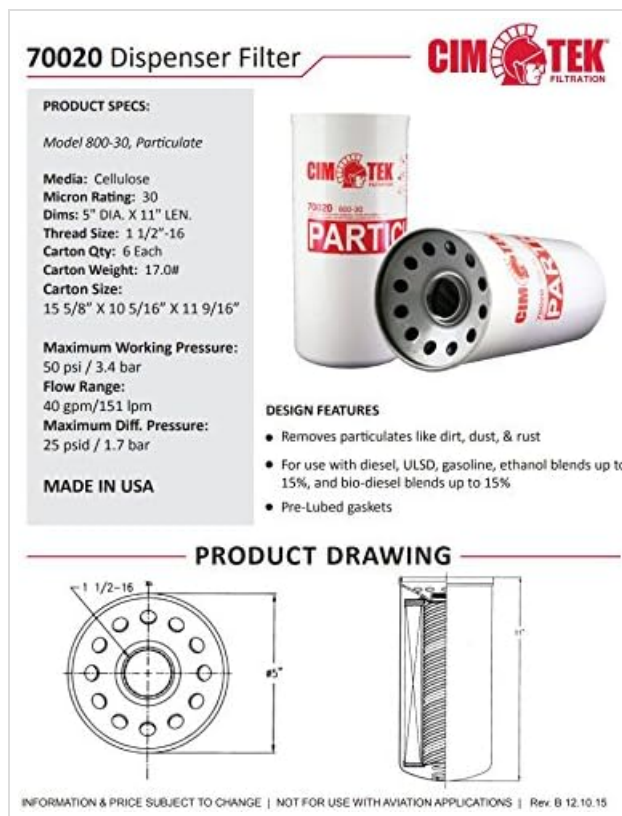


Figure 2: The Cim-Tek 70020 800-30 filter alongside a cutaway view, illustrating its internal cellulose filtration media and spin-on design.

SETUP AND INSTALLATION

Proper installation is crucial for the filter's performance and safety. Refer to your fuel dispenser's manual for specific instructions regarding filter housing access and fuel line depressurization.

1. **Prepare the Area:** Ensure the fuel dispenser is off and the system is depressurized. Place absorbent materials to catch any spilled fuel.
2. **Remove Old Filter:** Carefully unscrew the old filter from its housing. Be prepared for residual fuel to drain.
3. **Inspect Housing:** Clean the filter housing and inspect the sealing surface for any debris or damage.
4. **Lubricate Gasket:** Apply a thin film of clean fuel or appropriate lubricant to the new filter's gasket. This ensures a proper seal.
5. **Install New Filter:** Screw the new Cim-Tek 70020 800-30 filter onto the housing by hand until the gasket contacts the sealing surface.
6. **Tighten Filter:** Tighten the filter an additional 3/4 to 1 full turn after gasket contact, or as specified by the dispenser manufacturer. Do not overtighten.
7. **Check for Leaks:** Restore fuel pressure and carefully check for any leaks around the filter seal. Address any leaks immediately.

OPERATION

Once installed, the Cim-Tek 70020 800-30 filter operates automatically as fuel flows through the dispenser. It continuously removes harmful particulates, ensuring clean fuel delivery to vehicles or equipment. No user intervention is required during normal operation.

MAINTENANCE

Regular replacement of the fuel filter is essential to maintain fuel quality and dispenser performance. The replacement interval depends on fuel quality, volume dispensed, and environmental conditions.

- **Replacement Schedule:** Consult your fuel dispenser manufacturer's recommendations for filter replacement intervals. A common practice is to replace filters every 3 to 6 months, or after a certain volume of fuel has been dispensed (e.g., 50,000 gallons), whichever comes first.
- **Signs of Clogging:** Reduced fuel flow rate, increased pump noise, or difficulty in dispensing fuel can indicate a clogged filter requiring immediate replacement.

Filter Replacement Procedure: Follow the "Setup and Installation" steps in reverse for removal, and then proceed with the installation of a new filter.

TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|---------------------|---|--|
| Reduced Fuel Flow | Clogged filter, air in system. | Replace filter. Check for air leaks in the fuel line. |
| Fuel Leak at Filter | Improperly tightened filter, damaged gasket, damaged housing. | Ensure filter is tightened correctly. Replace filter if gasket is damaged. Inspect housing for damage. |
| Unusual Pump Noise | Clogged filter, cavitation due to restricted flow. | Replace filter. Ensure fuel supply is adequate. |

TECHNICAL SPECIFICATIONS

800 SERIES /// 1 1/2"-16 THREAD

UP TO **40 GPM** (151 LPM) MAX FLOW
COMPATIBLE WITH GASOLINE, DIESEL, BIODIESEL, AND ULSD

5.06" W
10.94" L

MADE IN USA

REMOVE PARTICULATE

| | | | |
|---|---|--|--|
| 800-02 PART # 70814 CELLULOSE 2 MICRON | 800-10 PART # 70019 CELLULOSE 10 MICRON | 800-30 PART # 70020 CELLULOSE 30 MICRON | 800BMG-02 PART # 70036 MICROGLASS 2 MICRON <small>*WORKS WITH B100</small> |
| 800BMG-10 PART # 70028 MICROGLASS 10 MICRON <small>*WORKS WITH B100</small> | 800BHA-01 PART # 70041 MICROGLASS 1 MICRON <small>*BUILT TO WITHSTAND HIGH ALCOHOL CONTENT FUEL *VITON® GASKETS</small> | | |

REMOVE PARTICULATE & DETECT EXCESS WATER

| | | | |
|--|--|--|---|
| 800HS-10 PART # 70063 HYDROSORB 10 MICRON <small>*DOES NOT DETECT PHASE SEPARATION</small> | 800HS-30 PART # 70068 HYDROSORB 30 MICRON <small>*DOES NOT DETECT PHASE SEPARATION</small> | 800BHG-02 PART # 70037 HYDROGLASS 2 MICRON <small>*WORKS WITH B100 *DOES NOT DETECT PHASE SEPARATION</small> | 800BHG-10 PART # 70024 HYDROGLASS 10 MICRON <small>*WORKS WITH B100 *DOES NOT DETECT PHASE SEPARATION</small> |
|--|--|--|---|

800SL SERIES /// 1 1/2"-16 THREAD

UP TO **40 GPM** (151 LPM) MAX FLOW
COMPATIBLE WITH GASOLINE, DIESEL, BIODIESEL, AND ULSD

5.06" W
6.94" L

MADE IN USA

REMOVE PARTICULATE

| |
|--|
| 800SL-30 PART # 70053 CELLULOSE 30 MICRON |
|--|

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Figure 3: Technical drawing of the Cim-Tek 800 Series filter, showing dimensions and thread specifications.

| Specification | Value |
|---------------|-------|
|---------------|-------|

| Specification | Value |
|--------------------|---|
| Model Number | 800-30 (Cim-Tek 70020) |
| Micron Rating | 30 Micron |
| Filter Type | High Volume Spin-on Filter, Particulate Removal |
| Media | Cellulose |
| Thread Size | 1-1/2"-16 UNF |
| Flow Rate | 1" Flow (up to 40 GPM / 151 LPM) |
| Product Dimensions | Approximately 11 x 5 x 5 inches (5" Diameter x 11" Length) |
| Item Weight | 2.75 pounds |
| Compatible Fuels | Diesel, ULSD, Gasoline, Ethanol blends up to 15%, Bio-diesel blends up to 15% |
| Outer Material | Metal |

WARRANTY AND SUPPORT

Specific warranty information for the Cim-Tek 70020 800-30 Fuel Dispenser Filter is not provided in this manual. For detailed warranty terms, technical support, or replacement parts, please contact Cim-Tek directly or refer to their official website. Always use genuine Cim-Tek replacement filters to ensure compatibility and performance.