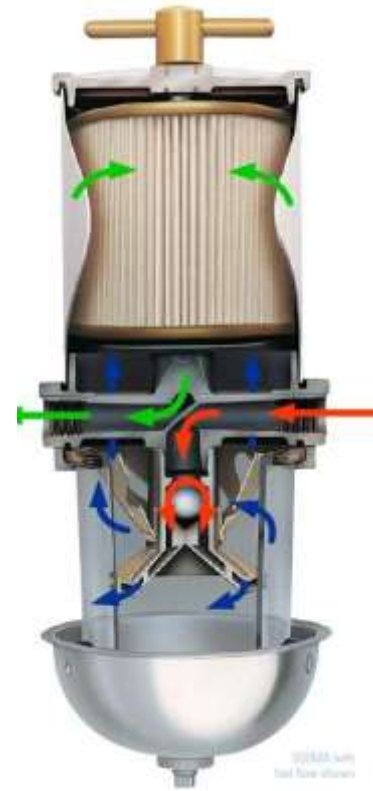
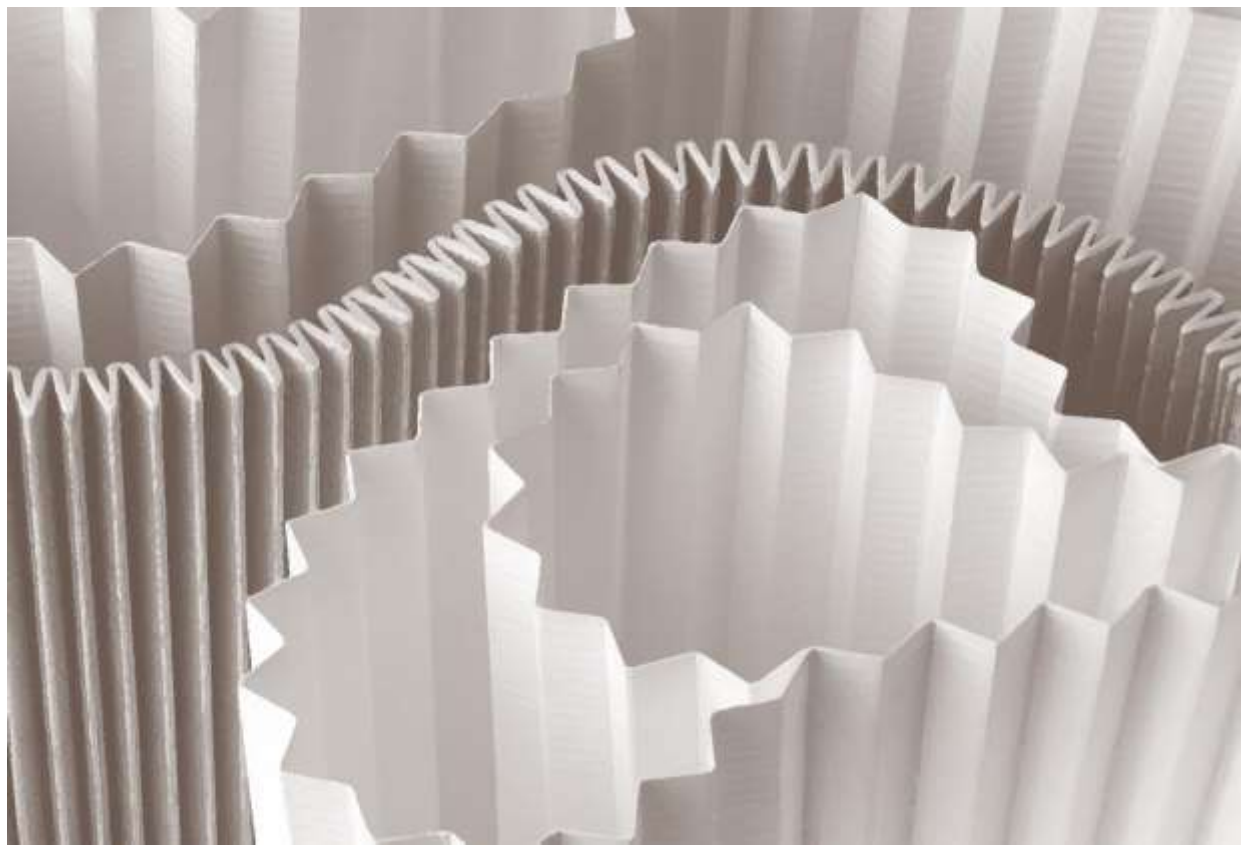




**RACOR**<sup>®</sup>

For over 50 years, our commitment to continuous innovation provides customers the RACOR advantage

Introducing Turbine FV Series Fuel Filter/Water Separator  
Product Family

# Contents

Key Markets/Applications

Current Turbine FH Series Products

New Turbine FV Series Key Features

New Turbine FV Series Sales Tools



Efficiency, Capacity, Reliability

*Designed and manufactured  
in the USA.*

**RACOR**



# Racor Turbine Series Key Markets/Applications

## Markets:



**Marine**



**Power Gen**



**Agriculture**



**Construction**



**Transportation**

## Applications:



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# Turbine Series FH Fuel Filter Water Separators

- Heavy-duty, high-capacity.
- Cleans fuel, removes water, heats fuel and senses when it's time for service.
- Aquabloc Synergy media elements in 2, 10, 30-micron options.
- Easy filter element changeouts.
- Duplex/triplex units available.
- Complete, efficient, reliable.

500 Series



900 Series



1000 Series



**RACOR**

**Parker**

# Turbine Series FV Fuel Filter Water Separators

- Complete, efficient, reliable filtration system.
- Designed to meet OEM fuel filtration requirements.
- Heavy-duty, high-capacity.
- Aquabloc® Synergy high efficiency 10 micron media elements standard in each assembly.
- Integrated features provides a streamline, lighter design.
- Double/triple units available.

500 Series



900 Series



1000 Series



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**Parker**

# Turbine 1000 Series Fuel Filter Water Separators



Part Number  
1000FH10  
Max Flow Rate 180 gph

## Key Features

- ☐ Top-load element for easy service
- ☐ Integrated check ball to assist in priming
- ☐ Quick turn self-venting drain
- ☐ Powder coated corrosion free filter housing
- ☐ Large see-thru bowl for quick inspection
- ☐ AQUABLOC® SYNERGY high efficiency media.
- ☐ Integrated gauge port for front access
- ☐ Integrated shut-off valve to simplify service
- ☐ New conical baffle assists in water separation
- ☐ Universal mounting bracket
- ☐ Dual inlet/outlet ports for ease of installation
- ☐ Large ports for decreased restriction

### Options:

- ☐ Heaters, Priming Pump Kit, WIF sensors



New Part Number  
1000FV10  
Max Flow Rate 180 gph

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# New Racor Turbine FV Assembly – Double Unit



**Part Number**  
**751000FHX10**  
**Max Flow Rate 360 gph**

High-grade aluminum components and powder coat paints.

Durable single bolt mounting bracket doubles resistance to vibration fatigue.

Polymer bowl withstands impact and temperature extremes.

Self-venting drain. A single twist makes draining clean, fast and easy.

Integrated shut off valve uses less installation space, less weight

Dual inlet/outlet ports – for easy to configure for any installation

Additional water separation with new conical baffle design

Larger ports decrease restriction

Integrated gauge port provides easy to access location to install gauge for filter life monitoring

High-performance Aquabloc® Synergy 10 micron filter media is environmentally friendly

Lighter weight manifold universal bracket design



**New Part Number**  
**751000FV10**  
**Max Flow Rate 360 gph**

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# New Racor Turbine FV Assembly – Triple Unit



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# Racor Turbine Series Filter Element

- Patent protected to ensure optimum filtration performance
- Ultra-high dirt holding capacity extends the life of final on-engine filters, reducing the overall cost to service.
- The 2020N and 2040N series filters will not fit the new Turbine FV series.
- The 2020V and 2040V service filters are backward compatible for the following assemblies/models:

| Assemblies | Models                          |
|------------|---------------------------------|
| 900        | FH, FG, FGM, FF, FE, MA and MAM |
| 75900      | FHX, FGX, FGM, MAX and MAXM     |
| 1000       | FH, FG, FGM, FF, FE, MA and MAM |
| 731000     | FH, FG, FGM, MA and MAM         |
| 751000     | FHX, FGX, FGM, MAX and MAXM     |
| 771000     | FH, FG, FGM, MA and MAM         |
| 791000     | FHV, FG, FGM, MAV and MAVM      |



| Old Part # | Current Part # | New Part # |
|------------|----------------|------------|
| 2020SM-OR  | 2020N-02       | 2020V2     |
| 2020TM-OR  | 2020N-10       | 2020V10    |
| 2020PM-OR  | 2020N-30       | 2020V30    |
| 2040SM-OR  | 2040N-02       | 2040V2     |
| 2040TM-OR  | 2040N-10       | 2040V10    |
| 2040PM-OR  | 2040N-30       | 2040V30    |

*This is a running change.*

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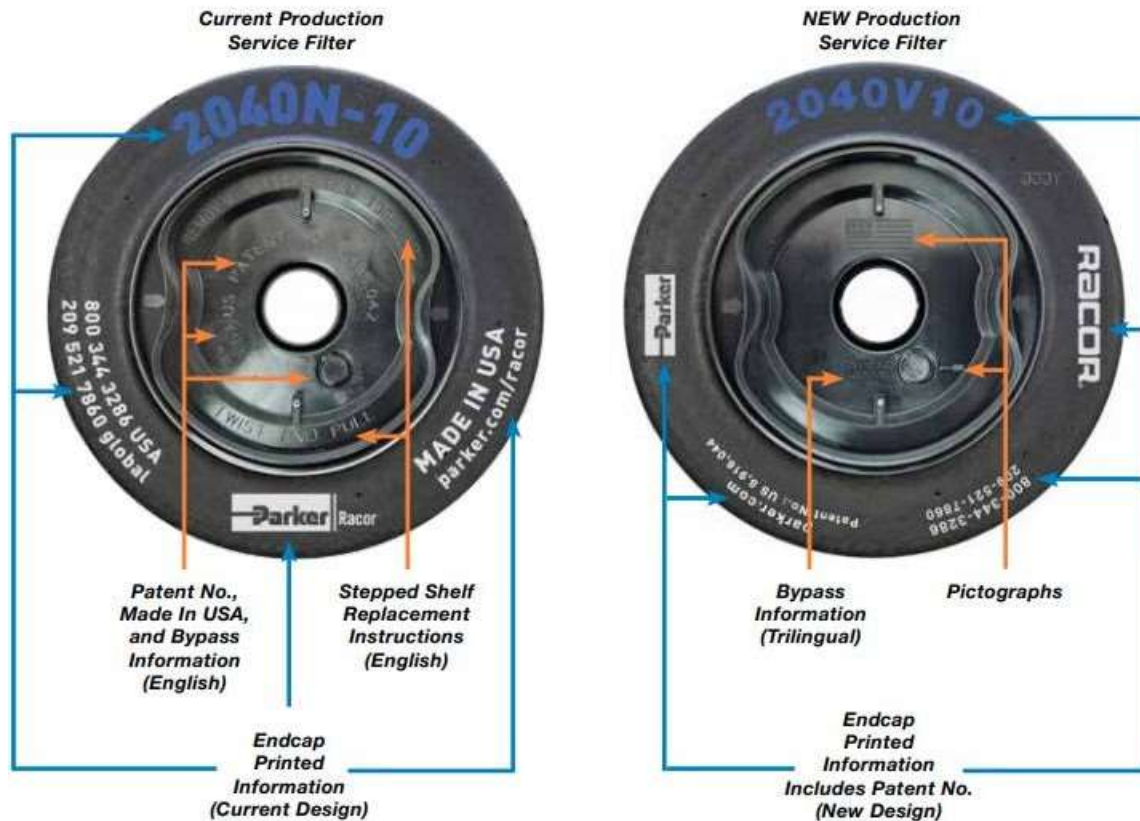


**PLEASE NOTE: CUSTOMER CAN ONLY USE THE V SERIES ELEMENT TO SERVICE THE FV SERIES ASSEMBLIES.**



# Racor Turbine Series – Element Design – Current vs New

Distinguishing between the filters.



**AQUABLOC®**  
**SYNERGY**



Aquabloc Synergy 10m media is multi-layered and contains a darker colored internal layer.

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# Turbine N Series Element vs. Turbine V Series Element



*(N) vs (V) = Less Restriction / Higher Capacity*

|                                                                          | 2020N-10  | 2020V10   |
|--------------------------------------------------------------------------|-----------|-----------|
| Pressure drop @180 GPH per SAE J905                                      | 0.78 PSID | 0.70 PSID |
| Average Efficiency, 10μ(c) per ISO 19438 @ 180 GPH                       | >98%      | >98%      |
| Capacity (grams) per ISO 19438, @ 180 GPH, 7.5 PSID                      | >30       | >90       |
| Water Separation per ISO 16632, 60μ droplet, IFT = 15 mN/m, @ 180 GPH    | >96%      | >96%      |
| Coarse Droplet Water / Fuel Separation @ 180 GPH with ULSD per SAE J1839 | >99%      | >99%      |



# Turbine Marine Assembly – Single Unit

## Key Features



1000MAM10

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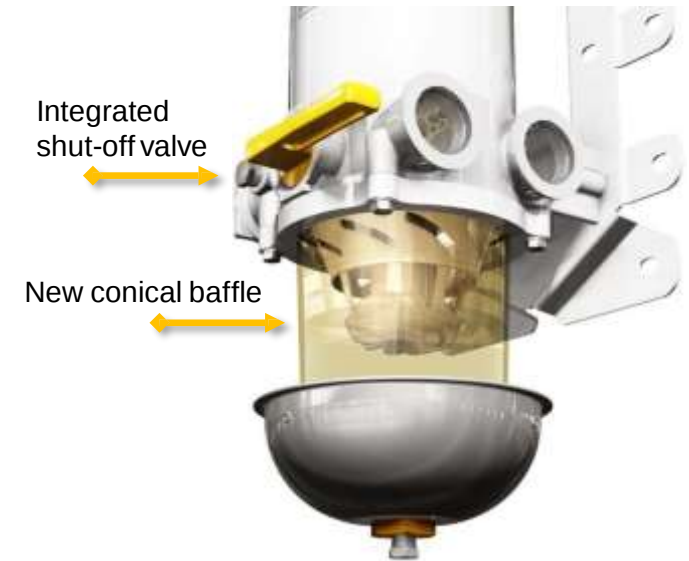
- ❑ AQUABLOC® SYNERGY high efficiency media.
- ❑ Top-load element for easy service
- ❑ Integrated check ball to assist in priming
- ❑ Quick turn self-venting drain
- ❑ Powder coated corrosion free filter housing
- ❑ Large see-thru bowl for quick inspection
- ❑ UL, ABS, BV certified
- ❑ Integrated gauge port for easy viewing access
- ❑ Integrated shut-off valve to simplify service
- ❑ New conical baffle assists in water separation
- ❑ Universal mounting bracket
- ❑ Dual inlet/outlet ports for ease of installation
- ❑ Large ports for decreased restriction



1000VMAM10

**Parker**

# Turbine Marine Assembly – Double Unit



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# Turbine Marine Assembly – Triple Unit



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# New Features – Change in Filter Assembly Installation



## Larger Port Size

1-5/16" inch ports. (2) inlets and (2) outlets.

Port size changes will require different fittings

## New Turbine FV:

1-5/16" inch ports. (2) inlets and (2) outlet

2 x 3/4" NPTF Adapters Supplied

2 x Port Plugs Supplied



## Mounting Bracket

Includes light weight mounting bracket.

Mounting bolt pattern change MIGHT require additional hardware for installation.

New Turbine FV Cut Sheet and Installation Instructions are available to help customer determine what is needed.



# NEW Key Features Summary



## Dual Inlet / Outlet Ports

Multiple inlets and outlets make the new assemblies easy to configure for any installation.



## Integrated Valve

A shut-off valve integrated into each housing.



## Integrated Gauge Port

Front access 1/4" NPT gauge port.



## Larger Port Size

1-5/16" inch ports. (2) inlets and (2) outlets.



## Top Load Filter Element featuring Aquabloc™ Synergy media

Easy to use bail handles when servicing.



## Conical Baffle

New turbine separator design.



## Bowl and Drain

Signature large clear bowl with self-venting drain.



## Mounting Bracket

Includes light weight mounting bracket.

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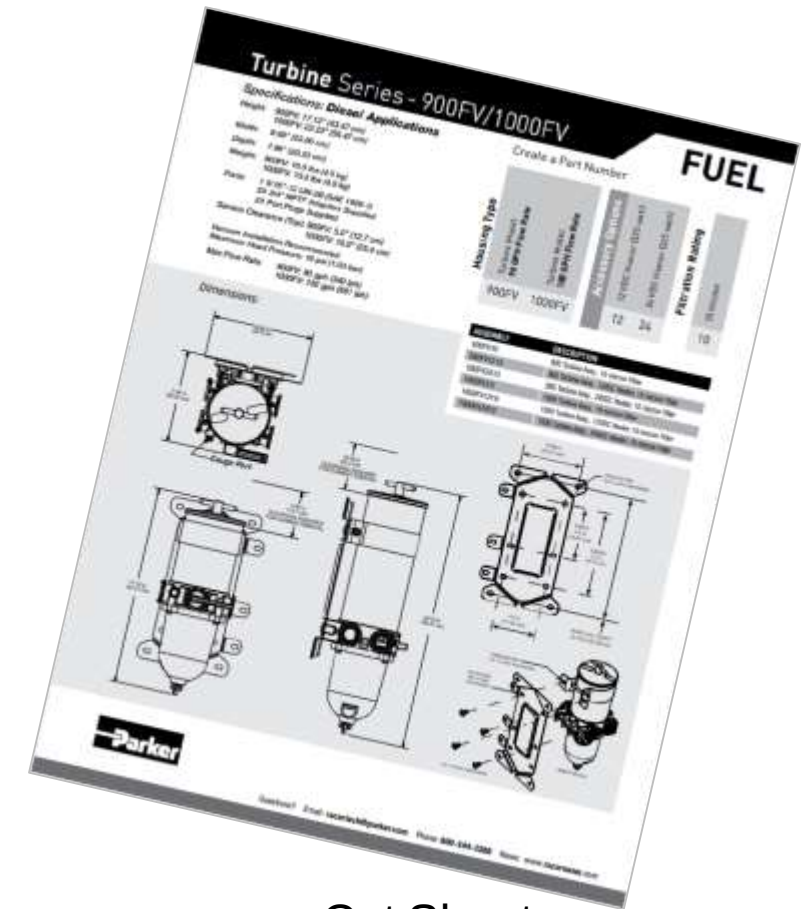
# Turbine FV Product Sales Support



# Bulletin



# Sell Sheet



# Cut Sheet



*Additional information located on: [www.racornews.com](http://www.racornews.com)*





For over fifty years Racor has been one brand of fuel filtration systems that has earned the confidence and respect of engine and equipment builders, owners and operators around the world.

Leading edge technology and **continuous innovation** are designed into every system, and genuine Aquabloc® filters have set the global standard.

In every configuration, at any flow rate, and in any operating environment, **Parker Filtration is the most trusted** in engine and equipment protection.

