



aerospace climate control electromechanical filtration

fluid & gas handling hydraulics pneumatics process control sealing & shielding





Fuel Filtration Systems





Chien Chen District Kaohsiung. Taiwan R.O.C

ENGINEERING YOUR SUCCESS.



High quality gaskets and 0-rings for consistent, sure seals.

Die cast aluminum mounting heads with multiple ports make installation as easy as adding options.

Cost-Effective Visual Inspection

See-thru collection bowls allow a water-in-fuel condition to be immediately visible. Closed spin-on cans waste expensive fuel and labor because it's impossible to check for water without actually opening the drain or removing the can from the mounting head.

Environmentally Friendly

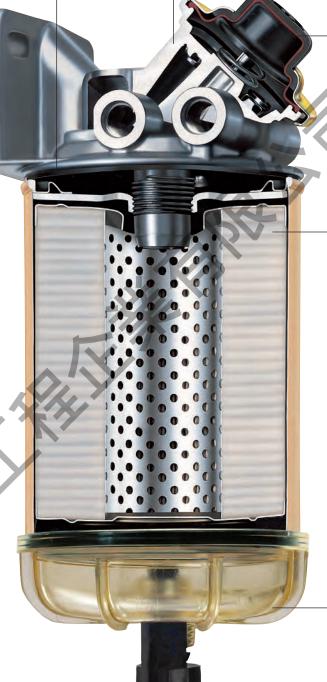
Engineered polymer bowls are reusable, impact-resistant and virtually indestructible. When it's time for service, only the filter element is replaced - the see-thru bowl and drain valve assembly are reused. The long life cycle of the bowl saves money and reduces the environmental impact through disposal of less material. Use metal bowl versions for inspected or commercial vessels.

Easy Upgrades

See-thru bowls provide connection ports for upgrades that enhance engine performance and reliability. Powerful in-bowl heaters can be added to improve operation in colder climates and electronic sensors alert the operator to drain water in the bowl.

Corrosion-Free Construction

Advanced polymer technology means bowls will not deteriorate from water collection, alcoholblended fuels, exposure to harsh additives or UV light. Unseen water lying in sealed cans causes them to rust and corrode or worse yet, increase in level and pass through.



The heart of every Racor filter is the engineered filter media. Aquabloc II® is known around the world for its combination of high efficiency. long life and unsurpassed water-removal

performance.

Durable hand primer

pumps are integrated

into mounting heads.

Polymer bowls are virtually indestructible. They won't discolor from exposure to alcohol, additives or UV light a see-thru that stays see-thru. A die cast aluminum bowl is available for most models.

Positive seal self-venting drain eliminates leaks and expedites service.

Water sensor and vacuum

gauges to signal service

are valuable options available for most models.



445 - 460 - 490

A powerful, integral primer pump makes service quick and easy

The standard equipment primer pump tops the list of extensive options that allow bus fleets, truck fleets, RV owners and others to tailor a filter/separator system specifically to their operating requirements. These options include a choice of a three-micron rating for the Aquabloc* filter element, 200-watt in-bowl resistance heater, water sensor and flow rates up to 120 gph.



400 Series, the 600 Series offers engine owners an economical system for applications where an integral primer pump is not needed. Flow rates up to 120 gph, in-bowl heater and water sensor are all available options.















M E D I U M F L O W						
MODEL	445	460	490	645	660	690
Maximum Flow Rate	45 gph /	60 gph/	90 gph/	45 gph /	60 gph/	90 gph/
	170 lph	227 lph	341 lph	170 lph	227 lph	341 lph
Gasoline or Diesel	Diesel	Diesel	Diesel	Both	Both	Both
Vacuum Installation	Yes	Yes	Yes	Yes	Yes	Yes
Pressure Installation	Yes	Yes	Yes	Yes	Yes	Yes
Maximum PSI 1/kPa	30 psi / 207 kPa	30 psi / 207 kPa	30 psi / 207 kPa			
Clean Pressure	0.17 psi	0.39 psi	0.95 psi	0.01 psi	0.05 psi	0.29 psi
Drop PSI/kPa	1.2 kPa	2.7 kPa	6.5 kPa	0.07 kPa	0.34 kPa	2.0 kPa
No. of Ports	4	4	4	7	7	7
Port Size	3/8" NPT / 16 mm	3/8" NPT / 16 mm	3/8" NPT / 16 mm			
Integral Primer	Yes	Yes	Yes	No	No	No
Pump ²						
Replacement	R45	R60	R90	R45	R60	R90
Element No.3						
Bowl/See-Thru	Yes	Yes	Yes	Yes	Yes	Yes
Bowl / Metal	No	No	No	No	No	No
Drain Type	Self-Vent	Self-Vent	Self-Vent	Self-Vent	Self-Vent	Self-Vent
Water Sensor Option ⁴	Yes	Yes	Yes	Yes	Yes	Yes
Electric Heater Option 4	Yes	Yes	Yes	Yes	Yes	Yes
(12V/24V)						
Height	9.3 / 236 mm	11 / 279 mm	11.8 / 300 mm	8.46 / 215 mm	10.2 / 259 mm	11.2 / 284 mm
Width	4.5 / 114 mm	4.5 / 114 mm	4.5 / 114 mm			
Depth	4.8 / 121 mm	4.8 / 121 mm	4.8 / 121 mm	4.5 / 114 mm	4.5 / 114 mm	4.5 / 114 mm
Weight	2.5 lbs / 1.1 Kg	2.7 lbs / 1.3 Kg	2.9 lbs / 1.4 Kg	2.35 lbs / 1.07 Kg	2.58 lbs / 1.17 Kg	2.65 lbs / 1.2 Kg

Notes:

- (1) Pressure installations are applicable up to the maximum PSI/ kPa shown.
- (2) Models with integral primer pumps are not recommended for gasoline applications.
- (3) Replacement element micron rating can be specified as "S" for 2 micron, "T" for 10 micron, or "P" for 30 micron.
- (4) Not for use with gasoline applications.

110A - 120A - 140



Maximum protection in minimum space

The 110A is designed for fuel-injected gasoline engines with high working pressures and also can be used on diesel engines. A metal housing is standard. Other models in the 100 Series, the 120A and 140, offer reliable protection for smaller diesel and gasoline engines used in generator sets, pressure washers and other equipment. Their compact size fits tight mounting locations and multiple ports offer installation flexibility.



215 - 230 - 245

Improved for greater versatility

The 215, 230 and 245 filter/separators come standard with an integral priming pump and a new see-thru contaminant bowl, which can operate in applications up to 30 psi. Another design upgrade is the optional 200-watt in-bowl heater for colder operating conditions. Applications include light-duty and medium-duty trucks and vehicles, construction, agricultural and other dieselpowered equipment.

For marine rated filters, see brochure #7501.













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L O W F L O W							
MODEL	110A	120A	140	215	230	245	
Maximum Flow Rate	15 gph / 57 lph Diesel	15 gph /	15 gph/	15 gph /	30 gph/	45 gph/	
	35 gph / 132 lph Gas	57 lph	57 lph	57 lph	114 lph	170 lph	
Gasoline or Diesel 1	Both	Both	Both	Diesel	Diesel	Diesel	
Vacuum Installation	Yes	Yes	Yes	Yes	Yes	Yes	
Pressure Installation	Yes	Yes	Yes	Yes	Yes	Yes	
Maximum PSI ² / kPa	100 psi / 690 kPa	7 psi / 48 kPa	7 psi / 48 kPa	30 psi / 207 kPa	30 psi / 207 kPa	30 psi / 207 kPa	
Clean Pressure	0.15 psi	0.15 psi	0.01 psi	0.12 psi	0.31 psi	0.61 psi	
Drop PSI/kPa	1.03 kPa	1.03 kPa	0.07 kPa	0.83 kPa	2.14 kPa	4.21 kPa	
No. of Ports	4	4	2	3	3	3	
Port Size	1/4" NPT/ M14 x 1.5	1/4" NPT/ M14 x 1.5	1/4" NPT/ M14 x 1.5	1/4" NPT/ M14 x 1.5	1/4" NPT/ M14 x 1.5	1/4" NPT/ M14 x 1.5	
Integral Primer	No	No	No	Yes	Yes	Yes	
Pump ³							
Replacement	R11	R12	R12	R15	R20	R25	
Element No.4							
Bowl/See-Thru	No	Yes	Yes	Yes	Yes	Yes	
Bowl/Metal ¹	STD	Yes	Yes	Yes	Yes	Yes	
Drain Type	Positive Seal	Positive Seal	Positive Seal	Positive Seal	Positive Seal	Positive Seal	
Water Sensor Option ⁵	Yes	Yes	Yes	Yes	Yes	Yes	
Electric Heater Option 5	No	No	No	Yes	Yes	Yes	
(12V/24V)							
Height	6" / 152 mm	6.5" / 166 mm	6" / 152 mm	8.3"/211 mm	9"/229 mm	10.5"/267 mm	
Width	3.2"/81 mm	3.2"/81 mm	3.2"/81 mm	4" / 102 mm	4" / 102 mm	4" / 102 mm	
Depth	3.2"/81 mm	3.2"/81 mm	3.2"/81 mm	4" / 102 mm	4" / 102 mm	4" / 102 mm	
Weight	1.3 lbs / 0.59 Kg	1.1 lbs / 0.50 Kg	1.1 lbs / 0.50 Kg	1.8 lbs / 0.80 Kg	2 lbs / 0.90 Kg	2.2 lbs / 1.0 Kg	

Notes: (1) Metal bowls should be used for gasoline installations.

- (2) Pressure installations are applicable up to the maximum PSI/kPa shown.
- (3) Models with integral primer pumps are not recommended for gasoline applications.
- (4) Replacement element micron rating can be specified as "S" for 2 micron, "T" for 10 micron, or "P" for 30 micron, except for R11.
- (5) Not for use with gasoline applications.

Racor Quality in One Easy Spin

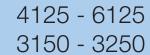
- High-capacity, on-engine primary or secondary filtration
- Fits most existing mounting heads
- See-thru bowl with water sensor option
- · Mounting heads available, contact Racor or your distributor

320 Engine Spin-On Series



Fuel Filter/ Water Separator w/ Reusable See-Thru Boy	Spin-On Replace- ment Element vl (only)	Micron Rating		4	
B32001	S3201	10	10.5"	267 mm	
Application: Cu	ummins — 90 gph/Se	econdar			
B32002	S3202	30	10.5"	267 mm	
Application: DI	DC — 90 gph / Primar	У			
B32003	S3203	2	8.63"	219 mm	
Applications: Caterpillar – 60 gph/Secondary (Final) IH (Navistar) – 90 gph/Secondary (Final)					
B32004	S3204	30	7.13"	181 mm	
Application: IH	(Navistar) – 40 gph	/ Secon	dary		
B32006	S3206	2	12"	305 mm	
Application: Ca	aterpillar – 90 gph/S	econda	ry (Final)		
B32007	S3207	10	13.5"	343 mm	
Application: Cu	ummins – 180 gph/S	Seconda	ary (Final)		
B32008	S3208	*	7.25"	184 mm	
Application: De	eutz, Volvo – 30 gph				
B32009	S3209	*	8.63"	219 mm	
Application: M	ann, DAF – 60 gph				
B32011	S3211	10	8.63"	219 mm	
Application: Cu	ummins Short – 90 g	ph/Sec	ondary (Fir	nal)	
B32012	S3212	30	7.13"	181 mm	
Application: DI	OC - 90 gph / 8.2L P	rimary			
B32016	S3216	*	5.85"	149 mm	
Application: De	eutz, Volvo Short – 20	0 gph			

^{*} Available in 2, 10 or 30 micron.



High flow applications need not suffer with high maintenance... and Racor offers a range of ultra-high capacity, highly efficient fuel filter/water separators that also deliver spin-on convenience. As you'd expect, Aquabloc® II media is standard and all units provide flexibility in options to customize and meet specific operating conditions.

Model 3250R



HIGH FLOW					
MODEL	4125	6125	3150	3250	
Maximum Flow Rate	120 gph /	120 gph/	150 gph/	250 gph/	
	454 lph	454 lph	570 lph	946 lph	
Gasoline or Diesel 1	Diesel	Both	Diesel	Diesel	
Vacuum Installation	Yes	Yes	Yes	Yes	
Pressure Installation	Yes	Yes	Yes	Yes	
Maximum PSI ² /kPa	15 psi / 103 kPa	15 psi / 103 kPa	7psi / 50 kPa	7 psi / 50 kPa	
Clean Pressure	0.85 psi	0.35 psi	0.68 psi	1 psi	
Drop PSI					
No. of Ports	4	7	2	2	
Port Size	3/4" SAE / 18 mm	3/8 NPT	0.875" X 14 SAE	0.875" X 14 SAE	
Integral Primer	Yes	No	No	No	
Pump ³					
Replacement	R125	R125	S3238P	S3207P	
Element No. 4					
Bowl / See-Thru	Yes	Yes	Yes	Yes	
Bowl / Metal ¹	No	No	Yes	Yes	
Drain Type	Self-Vent	Self-Vent	Self-Vent	Self-Vent	
Water Sensor Option ⁵	Yes	Yes	Yes	Yes	
Electric Heater Option 5	Yes	Yes	Yes	Yes	
(12V/24V)					
Height	15 / 381 mm	14.12 / 359 mm	13.6 / 345 mm	17.25 / 438 mm	
Width	4.5 / 114 mm	4.5 / 114 mm	5 / 127 mm	5 / 127 mm	
Depth	4.8 / 121 mm	4.5 / 114 mm	5.5 / 140 mm	5.5 / 140 mm	
Weight	3.9 lbs / 1.8 Kg	3.9 lbs / 1.8 Kg	3.6 lbs / 1.6 Kg	4.6 lbs / 2.08 Kg	

Notes: (1) Metal bowls should be used for gasoline installations.

- (2) Pressure installations are applicable up to the maximum PSI/ kPa shown.
- (3) Models with integral primer pumps are not recommended for gasoline applications.
- (4) Replacement element micron rating can be specified as "S" for 2 micron, "T" for 10 micron, or "P" for 30 micron.
- (5) Not for use with gasoline applications.

All Racor filter materials and seals are compatible with ultra-low sulphur diesel (ULSD) fuel and B2 to B20 Biodiesel.

See Racor bulletin #7679.

700 Series Integrated Filter/Separators

The Racor 700 Series is equipped with state-of-the-art fuel pumps with either brush or brushless DC motors. In brushless versions, the motor shaft directly drives the gerotor, creating a unique, positive displacement pump. The gerotor has fewer parts than gear or vane pumps, and the sensorless control technology of the brushless DC motor makes this product the most reliable filter and pump assembly on the market. The brushless pump assembly is ideal for tough on-engine

applications. For off-engine mounting, brushed pumps are a more economical alternative.

The 700 Series Integrated Fuel Filter/ Water Separators have a two-stage filtration and repriming system. This complete fuel management system isolates contaminants present in diesel fuels and traps them prior to reaching the fuel injection system, protecting against costly and premature failure.

A rugged roller-cell pump. 60 gallons per hour flow rate while in priming mode.

Unitized assembly only 3.3" tall.

100 micron pre-screen

12V DC or 24V DC motor.

The heart of every Racor filter is the engineered filter media. Aquabloc II® is known around the world for its combination of high efficiency, long life and unsurpassed water removal performance.

> Bowls are virtually indestructible. They won't discolor from exposure to alcohol, additives or UV light.

Water sensor and vacuum gauges to signal service are valuable options available for most models.

Positive seal self-venting drain.





MODEL	745R30	760R30	790R30 ¹	7125R10 ¹ (10 Micron) 7125R30 ¹ (30 Micron)	
Maximum Flow Rate	45 gph / 170 gph	60 gph / 227 lph	90 gph / 341 lph	120 gph / 454 lph	
Gasoline or Diesel	Diesel	Diesel	Diesel	Diesel	
Replacement Element	R45P	R60P	R90P	R125T (10 Micron) R125P (30 Micron)	
Clean Pressure Drop	0.25 psi / 1.7 kPa	0.25 psi / 1.7 kPa	0.25 psi / 1.7 kPa	0.25 psi / 1.7 kPa	
Port Size	3/8" NPT	3/8" NPT	3/8" NPT	3/8" NPT	
Water Sensor Option	Yes	Yes	Yes	Yes	
Height	10.8 / 25.7 cm	11.8 / 28.4 cm	12.8 / 31.2 cm	15.8 / 40.1 cm	
Width	4.3 / 11.0 cm	4.3 / 11.0 cm	4.3 / 11.0 cm	4.3 / 11.0 cm	
Depth	6.5 / 16.5 cm	6.5 / 16.5 cm	6.5 / 16.5 cm	6.5 / 16.5 cm	
Weight (dry)	4.5 lbs. / 2.0 kg	5.5 lbs. / 2.5 kg	6.5 lbs. / 3.0 kg	7.7 lbs. / 3.5 kg	
Operating Temperature -40° to +225°F (-40° to +107°C)					

The 700 Series comes in standard with a 12 volt brushed pump assembly. To order the 24 volt brushless pump assembly, insert 24 at the end of the 790 or 7125 part numbers. (example: 790R3024) Fuel pump for priming applications only. Not for continuous operation unless protected by a pre-filter.

For additional information about Racor Filter/Separator Pump Systems, request brochure #7683.

