

CLEANCUT® OIL PUMP

B20 RATED PRODUCT SHEET



CleanCut PF20322



CleanCut PF20323



CleanCut XL PF20422

Product Description

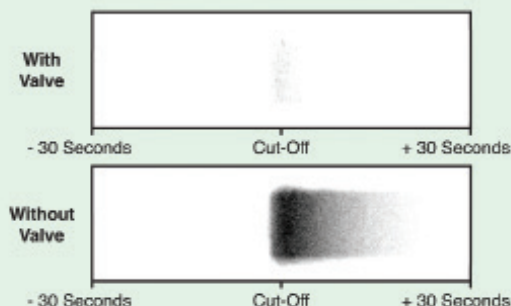
The Beckett family of CleanCut® pumps was developed to combine the benefits of solenoid valve control of fuel to the nozzle and the superior lift capabilities of traditional American pumps. The CleanCut pump has established a reputation as a rugged and reliable component for modern heating systems. Now UL Listed for fuels up to 20% biodiesel (B20) the CleanCut pump continues to set the standard of the industry. Please refer to the Specifications table for more information on fuels. Pump models are listed on back of sheet.

The Beckett p/n PF20422 is a two-stage version with increased lift ability for applications where the burner is higher than the fuel supply tank. Note: A GeniSys control with pre-purge programmed or a Beckett PD Timer® will be needed for proper burner operation.

Features

- **Cleaner Operation** - The valve operation cuts oil flow almost instantly when power is cut to the solenoid coil, eliminating coasting stops that can cause soot formation on shut-down. The Beckett GeniSys controls or Beckett's PD timer work well with the CleanCut pump to bring the burner up to full speed before light-off. See illustration below.
- **More Reliable** - There are fewer moving parts compared to conventional pumps and fewer troublesome oil fittings to cause problems. In addition, all of the moving parts in the CleanCut pumps have been in use for years in both the US and in Europe.
- **Higher Capacity** - The unique design of the CleanCut pumps deliver up to 4 gallons per hour at 100 psi. (Note that applications above 3 gph will require an additional valve to meet UL requirements.)
- **Reduced Load on Motor** - Reduces load on the motor during start-up.

Shut-Off Valve Comparison



Pump Model Numbers

Beckett Part No.	Manufacturer Part No.	Description
PF20322	A2EA-6527B	Single-Stage 4 GPH 120VAC
PF20323	071N1121	Single-Stage 4 GPH 120VAC
PF20422	B2EA-6550B	Two-Stage 4 GPH 120VAC

120VAC pumps listed. For other voltage options, please refer to the back of this sheet or visit www.beckettcorp.com for more information.

PD Timer

No control change necessary! If the burner does not have a control that supports valve-on-delay (pre purge), Beckett's PD Timer can be used to add this function without changing the control.



Specifications

Nozzle Pressure Range	100-200 PSI
Factory Set Pressure	100 PSI
Capacity	4 GPH @ 100-150 PSI (#1 & #2 Fuel Oil) 3 GPH @ 150-200 PSI (#2 Fuel Oil)
Operating Fluids	#1 & #2 Fuel Oils Meeting ASTM D396 with Biodiesel blends up to 20%
Inlet/Return Pressures	10 PSI*
Suction Height	One Pipe Supply: 6' Max. Two Pipe Supply: 12' Max. (PF20322 / PF20323) Two Pipe Supply: 17' Max. (Two-Stage PF20422)
Rated Speed	3450 RPM Nominal
Ambient temp.	32°F Min. / 140°F Max.
Electrical Ratings	120 VAC (102V Min. - 132V Max.) 9W Max. 220 / 240 VAC (187V Min. - 264V Max.) 9W Max. 12VDC (10.2V Min. - 16V Max.) 9W Max.
Certification	UL, CUL

*System inlet / return pressures must conform to NFPA 31 (3 PSI) as well as any additional Federal, State, or Local codes.

Beckett Pumps for Residential & Commercial Burners

In addition to our popular CleanCut® pumps, Beckett offers a wide variety of B20 rated fuel pumps as OEM standard new, not remanufactured, replacement pumps and parts. Let Beckett be the source for all your pump replacement and service needs.

- Capacities from 3 GPH to 35 GPH
- 2-stage Models
- 2-step Firing Models
- 24V / 120V / 240V AC Solenoid Coil Voltages
- 12V / 24V DC solenoid Coil Voltages

Replacement Parts and Accessories

Additional pump models and replacement parts listed on the tables below:

Replacement Pumps

RWB Part No.	Description	Previous RWB Part No.	Suntec Part No.	Danfoss Part No.	Where Used / Notes
PF20321U	1 Stage - 3GPH - 120VAC CleanCut - B20	PF10321U	A2EA-6527B	071N1121	1 stage 'Universal' Replacement
PF20322U	1 Stage - 3GPH - 120VAC CleanCut - B20	PF10322U	A2EA-6527B		
PF20323U	1 Stage - 3GPH - 120VAC CleanCut - B20	PF10323U		071N1121	
PF20422U	2 Stage - 3GPH - 120VAC CleanCut - B20	PF10422U	B2EA-6550B		2 Stage
PF203N2U	1 Stage - 3GPH - B20	PF103N2U	A2VA-7116B		No Coil = Suntec A2VA-7116B
PF20332U	1 Stage - 3GPH - 220VAC CleanCut - B20	PF10332U	A2EA-6527B		
PF20333U	1 Stage - 3GPH - 220VAC CleanCut - B20	PF10333U		071N1123	
PF20342U	1 Stage - 3GPH - 24VDC CleanCut - B20	PF10342U	A2EA-6527B		
PF20372U	1 Stage - 3GPH - 12VDC/24VAC CleanCut B20	PF10372U	A2EA-6527B		
PF20363U	1 Stage - 3GPH 12VDC CleanCut - B20	PF10363U		017N1122	
PF205N2U	1 Stage - 3GPH - 1725RPM - B20	PF105N2U	A1YA-7912B		No Coil = Suntec A1YA-7912B
PF206N2U	2 Stage - 16GPH - 3450RPM 1/Step - B20	PF106N2U	B2TA-8245B		No Coil = Suntec B2TA-8245B
PF207N2U	2 Stage - 7GPH - B20	PF107N2U	B2YA-8916B		No Coil = Suntec B2YA-8916B
PF209N2U	1 Stage - 2.5GPH - 2850RPM - B20	PF109N2U	A2VA-7142B		No Coil = Suntec A2VA-7142B
PF22122U	2 Stage - 16GPH - 120VAC - 2/Step - B20	PF12122U	B2TA-8851B		
PF22132U	2 Stage - 16GPH - 220VAC - 2/Step - B20	PF12132U	B2TA-8851B		
PF22322BRU	2 Stage - 23GPH - 120VAC - 2/Step w/BAR Kit	PF12322BRU	B2TA-8851B		
PF22322U	2 Stage - 23GPH - 120VAC - 2/Step - B20	PF12322U	B2TA-8852B		
PF224N2BRU	2 Stage - 8GPH - w/BAR Kit	PF124N2BRU	B2TA-8248B		
PF224N2U	2 Stage - 8GPH - B20	PF124N2U	B2TA-8248B		No Coil = Suntec B2TA-8248B
PF226N2U	1 Stage - 7GPH - B20	PF126N2U	A2YA-7916B		No Coil = Suntec A2YA-7916B
PF145N2U	35GPH - 3450 / 1725	21529U	J4PA-C1050G		<B5 (5% Biodiesel Rated)
PF812N2U	1 Stage - 2.5GPH - 3450/1725 Waste Oil	21219U	A2RA-7736		Waste Oil Burner Applications

Pump Parts and Accessories

RWB Part No.	Description	Previous RWB Part No.	Suntec Part No.	Danfoss Part No.	Where Used / Notes
21807U	Cordset - 13" Non-Delay				All CleanCut® Pumps
21887U	Cordset - 13" w/ PD Timer				All CC Pumps - 4 Sec time Delay
52585U	CleanCut Pump Instructions & By-Pass Plugs				All CleanCut Pumps
3713824U	Solenoid Coil 120VAC	21755U	3713824		PFx0322
3713798U	Solenoid Coil 240VAC	21756U	3713798		PFx0332
3713823U	Solenoid Coil 12VDC / 24VAC	21754U	3713823		PFx0372
071N0805U	Solenoid Coil 120VAC			071N0805	PFx0323
071N0806U	Solenoid Coil 240VAC			071N0806	PFx0333
071N0807U	Solenoid Coil 12VC			071N0807	PFx0363
21877U	Valve Stem				All Pfx03x2 Pumps
SP105281U	CleanCut® Strainer Kit				All 1-stage CleanCut Pumps
SP150223U	Danfoss BFPH Strainer Kit	51974U			Danfoss Model BFPH Only
SP250402U	Suntec 2-Step Pumps - 16/23GPH				Suntec B2TA-8851 / 8852
SPG33172BU	Strainer cover gasket (6) - Poly				PFx03x2 Pumps
SPG33112BU	Strainer cover gasket (6) - Cork				PF1xxx Pumps - Limited Availability
SPG33129BU	Strainer cover O-Ring (6)				PFx03x3 Pumps

www.beckettcorp.com

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