

Guardian®

Portable Filtration Systems

Max 15 I/min - 2 bar



Guardian®

TYPICAL APPLICATIONS

- Injection Moulding M/c s
- Royal Navy Surface Fleet Systems
- Paper Mills
- Steel Mills
- Industrial & Mobile Equipment
- Marine Systems Support

The Parker Filtration Guardian^a Portable Filtration Systems.

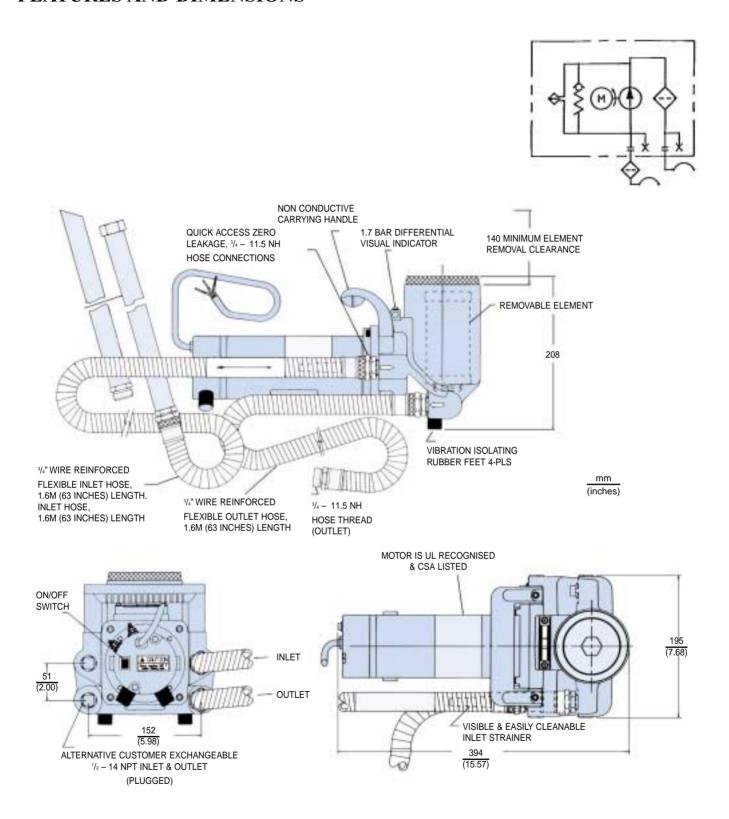
Guardian is a portable filtration system with two main functions: to ensure that new fluid often contaminated during handling, is delivered to the system at a specific cleanliness; and to permit periodic clean up of existing fluid to original condition.



TYPICAL APPLICATIONS

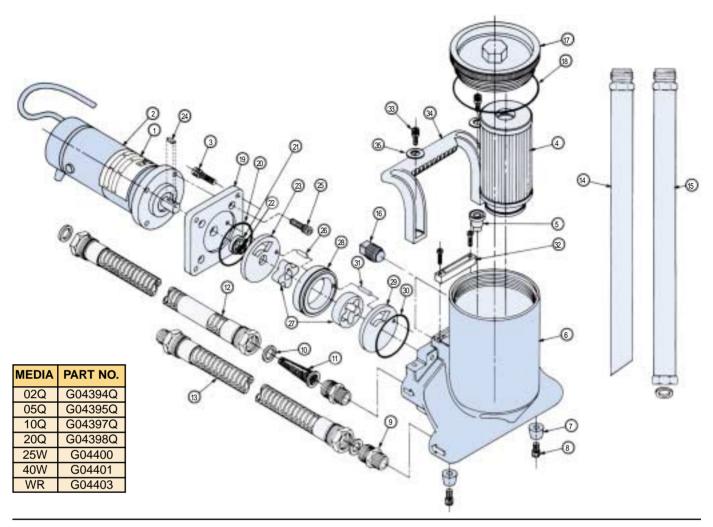


FEATURES AND DIMENSIONS



Guardian®

REPLACEMENT PARTS



PARTS LIST

1	Label932495	23 Shadow Plate
2a	Motor, 220/240VAC933730	24 Woodruff Key
2b	Motor, 110 VAC933729	25 SHCS (4)
3	SHCS (4)	26 Roll Pin
4	Element See table	27 Gerotor Set
5	Relief Valve928981	28 Gerotor Ring
6	Housing 931838	29 Outlet Plate
7	Rubber Bumpers (2)931888	30 Gerotor O-Ring
8	SHCS (2)01-01-UNC 04x004	31 Roll Pin
9	Brass Fitting (2)	32 Indicator Kit (includes 2xSHCS)S04182
10	Gasket (4)931956	Handle Assembly KitS04183
11	Inlet Screen	33 SHCS (2)
12	Inlet Hose Assembly931936	34 Handle
13	Outlet Hose Assembly931937	35 Washer (2)
14	Tube Assembly	
15	Tube Extension Assembly	Quick Disconnect Kit932097
16	Brass Pipe Plug931920	Wiring Instruction Card932494
17	End Cap	Protective Case601727
18	O-Ring	Brush Kit (110 V)G34329
Se	al KitS04180	Brush Kit (220 V)G34327
Pu	mp Unit Assembly KitS04181	Brush Kit (24 V DC)
19	Adaptor Plate	Bowl Extension Kit
20	Housing O-Ring	Cover Assembly KitS04179
	Polypak Seal	
22	Washer	Note: SHCS denotes "Socket Head Cap Screw".

Table 7

Guardian®

PART NUMBER MATRIX

 Table 1
 Table 2
 Table 3
 Table 4
 Table 5
 Table 6
 Table 7

 F3
 GT4E
 1
 10Q
 I
 UK

Table 1 Table 2

Seals		
Description	SYMBOL	Descript
Fluoroelastomer*	F3	Guardian

SYMBOL
GT4E

Table 3		
Motor Options		
Description	CODE	
220/240 VAC FOU-	1	

110 VAC, 50Hz

Table 5				
Options				
None	1			
Quick Disconnect Hose Connections				

Table 4

Element Media Degree of Filtrati								n			
	Averag	e filtration	Ratio (ISC	ן / (16889 ב	particle siz	e µm(c)					
	2	10	75	100	200	1000	CODE	DESCRIPTION			
Ì	N/A	N/A	N/A	N/A	N/A	4.5	02Q				
	N/A	N/A	4.5	5	6	7	05Q	Microglass III			
	N/A	6	8.5	9	10	12	10Q	Wildroglass III			
	6	11	17	18	20	22	20Q				
1	N/A	N/A	25	N/A	N/A	N/A	25W	Woven Wire			
	N/A	N/A	40	N/A	N/A	N/A	40W	Mesh			
1	Par�(Gel Water F	Removal M	edia			WR	iviesn			

Table 6						
Language Options						
Instruction leaflet	language	& appropriate mou	ılded plug			
Description	CODE	Description	CODE			
English	UK	Dutch	NL			
German	D	Swedish	S			
French	F	Italian	- 1			
Danish	DK	Spanish	Е			
Finnish	SF					

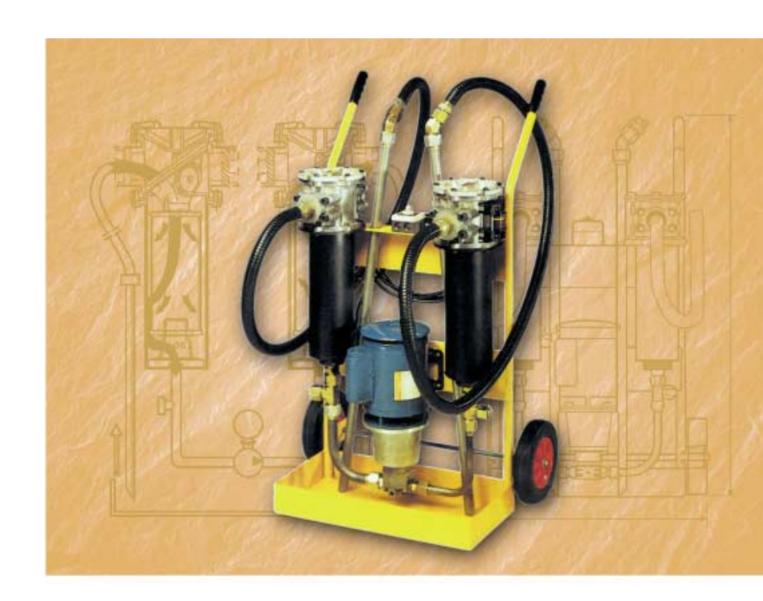
Design Number				
Assigned to the Guardian by the Factory				

TROUBLESHOOTING GUIDE

Problem	Cause	Solution
Does not start	ON/OFF switch	Turn switch on, replace switch if defective
	No electrical power	Plug in Guardian, check for tripped circuit breakers, check for blown fuses
	Rectifier	Replace if defective
	Motor overheated 77°C (170°F)	Allow motor to cool, thermal overload will automatically reset
	Defective motor	Replace motor
Does not start or erratic motor noise	Worn motor brushes	Replace motor brushes
Intermittent start/stop operation	High viscosity fluids	High viscosity fluids can cause the motor to overheat and cycle intermittently
	Worn motor brushes Defective motor	Replace motor brushes Replace motor
Hot motor	Pumping under heavy load	It is normal, under a heavy pumping load, for the motor to reach 71°C (160°F)
	Defective motor	Replace motor if the motor shell temperature reaches greater than 77°C (170°F)
No flow or erratic pump noise	Filter housing not filled with oil Suction leak	Allow Guardian to run for a few seconds Check tightness of inlet fittings and hoses. Check gaskets are in place and are not damaged. Kink or restriction in the inlet hose
	Obstructed outlet	Clear outlet
	Element dirty Sheared pump key	Replace or clean element Replace woodruff key
	Defective Guardian	Replace unit
No flow, erratic pump noise, motor overheats	Gears binding	Disassemble Guardian and thoroughly clean the gear set. Always use the inlet strainer provided to protect the unit. Replace defective gears.
No suction	Plugged strainer	Clean or replace the inlet strainer as required. Clean relief valve. Check for damaged internal o-rings.
Reduced oil flow	High viscosity fluids Element dirty Relief valve stick or lodged open Partially obstructed inlet or outlet hose Suction leak Worn gears	High viscosity fluids can cause reduced flow, which is normal Replace or clean element Clean relief valve or replace if defective Clear the hose obstruction Check tightness of inlet fittings and hose. Replace gear set
Indicator moves to RED area	Element dirty Oil extremely cold or viscous Obstructed outlet Defective indicator	Replace or clean element Change element to coarser micron rating Clear outlet obstruction Replace indicator
Indicator does not seem to move	No element Defective indicator	Install element Replace indicator
Hoses discolour or are hard	Fluid compatibility	Certain fluids, over time, will cause the hoses to discolour. This does not impair their performance. But, some fluids will cause the hoses to become brittle, requiring replacement.
Oil formation under unit	Defective shaft seal	Replace the motor shaft seal

6A Series

Portable Filtration Systems



6A Series

APPLICATIONS

- Paper Mills
- Injection and Blow Moulding Equipment
- Shipboard Systems
- Industrial & Mobile Equipment

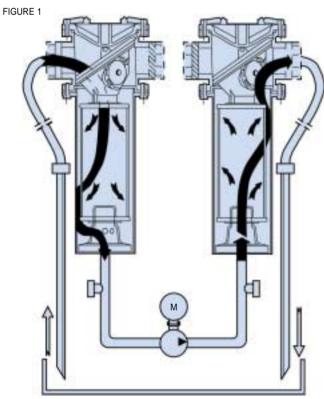
The Parker Filtration Model 6A Portable Filtration System.

Parkers portable filtration units are designed for on-site preventative maintenance of fluid systems.

An internal pump draws fluid through a primary clean-up filter and through a high quality polishing filter to remove particulate contamination down to 4 m (c) absolute.



FEATURES



FLUID FLOW PATH THROUGH 6A PORTABLE FILTRATION SYSTEM WHEN VIEWED FROM FRONT, ELECTRICAL SWITCH TO REAR

The 6A Portable Filtration System is ideal for:

- Off-line contamination control of fluid systems
- Replenishing installations with filtered fluid
- Emptying waste fluid quickly

The 6A Filter system is designed for on-site preventive maintenance of fluid systems. Two high capacity filters are used, with fluid passing through a primary clean-up filter and then through the final filter giving effective contamination control.

- Two high capacity filters, complete with indicator
- Filters incorporate standard Parker media.
- 28 L/Min pressure balanced gear pump
- 0.75kW capacitor-start electric motor
- Robust all welded steel trolley, complete with drip tray and rubber tyred wheels
- Complete with stowable hoses

Quality

Parker Filtration is accredited to the ISO9002 quality standard.



Certificate No. 902127



This equipment conforms with directive 89/392/EEC.
The following standards apply EN982, EN982-1, EN982-2.

SPECIFICATION

Pump Drive Options:

0.75kW Electric motor 240v A.C. Single phase 50HZ 0.75kW Electric motor 110V A.C. Single phase 50HZ

Pump:

28 I/min pressure balanced gear pump

Filters:

Moduflow CF2.1 & RF2.1 filters, refer to brochure 2350-GB

Electrical Details:

On/Off switch to IP65. 2 metre cable with appropriate moulded plug

Weight:

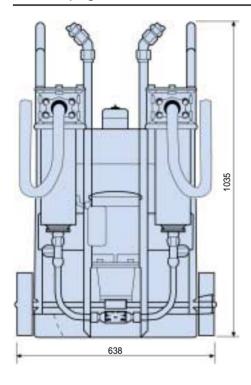
56 kg (dry)

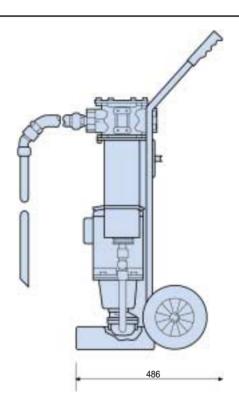
Fluid Compatibility:

Suitable for use with mineral oils. For other fluids, please consult Parker Filtration. Maximum fluid viscosity 100 cSt

Quality:

Parker Filtration is accredited to the ISO9002 quality standard





Filtering Performance								
Reservoir Capacity		oximate Cl me (Hours				Desired Cleanliness Class (ISO 4406)		
	hrs	class	hrs	class	hrs	class	hrs	class
200 375 750 1150	1/2 1 2 3	18/15 16/13 17/14 17/14	1 2 3 5	15/12 15/12 16/13 16/13	2 4 5 6	14/11 14/11 15/12 15/12	- 6 9	- - 14/11 14/11

Based on the following conditions:

- a) Initial contamination:
 - 500,000 Particles /100 ML, 10 micron or greater
- b) 40W inlet and 20Q outlet filters.
- c) Ingression rate equal to 100,000 Particles/min,10 Micron or greater

6A Series

PART NUMBER MATRIX

Table 1	Table 2	Table 3	Table 4	Table 5	Table 6	Table 7	Table 8	Table 9
F3	6A	40W	10Q	I	2	3	UK	_

Table 1

Seals						
Description	SYMBOL					
Nitrile (Standard)	0					
Fluoroelastomer	F3					

Table 2		
	Model Number	r
Symbol		6A

Table 5

Table 3		
Element Media Inlet Filter		
Description	CODE	
Reusable Wire Mesh 74 micron absolute	74W	
Reusable Wire Mesh 40 micron absolute	40W	
Reusable Wire Mesh 25 micron absolute	25W	

Table 4

Element Media Outlet Filter Degree of Filtration						
Typical	Typical filtration ratio ß (ISO 16889) / particle size µm(c) CODE					
2	10	75	100	200	1000	
N/A	N/A	74	N/A	N/A	N/A	74W
N/A	N/A	40	N/A	N/A	N/A	40W
N/A	N/A	25	N/A	N/A	N/A	25W
N/A	N/A	N/A	N/A	N/A	4.5	02Q
N/A	N/A	4.5	5	6	7	05Q
N/A	6	8.5	9	10	12	10Q
6	11	17	18	20	22	20Q
Par<>G	Par<>Gel Water Removal Media WR					

Table 5	
Cable Reel	
Description	CODE
	T .

Table 9

Table 6		
Motor Options	;	
Description	CODE	
0.75kW 240V Motor	I	
0.75kW 110V Motor	2	

Table 7

Options	
Description	CODE
None	I
Magnets	3

Language Option		
Instruction leaflet language & appropriate moulded plug		
Description	CODE	
English	UK	
German	D	
French	F	
Danish	DK	
Finnish	SF	

Table 8

Swedish

Spanish

Design Number
Assigned to the filter assembly by Parker Filtration

Spare Elements (with Nitrile seals) for 6A portable filtration system				
Inlet Filter	Media	Outlet Filter		
(RF2-1)		(CF2-1)		
G00967	74W	G00967		
G00968	40W	G00968		
G00969	25W	G00969		
G02525Q	20Q	G02525Q		
N/A	10Q	G00973Q		
N/A	05Q	932687Q		
N/A	02Q	G04687Q		
N/A	WR	927584		

Seal Kits		
Description	CODE	
Buna	S01266	
Fluoroelastomer	S01053	

S

Е

Indicators		
Description	CODE	
No Indicator Blanking Kit	S01224	
1 Bar Indicator	S01053	

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- Royal Navy Surface Fleet Systems
- Paper Mills
- Steel Mills
- Industrial & Mobile Equipment
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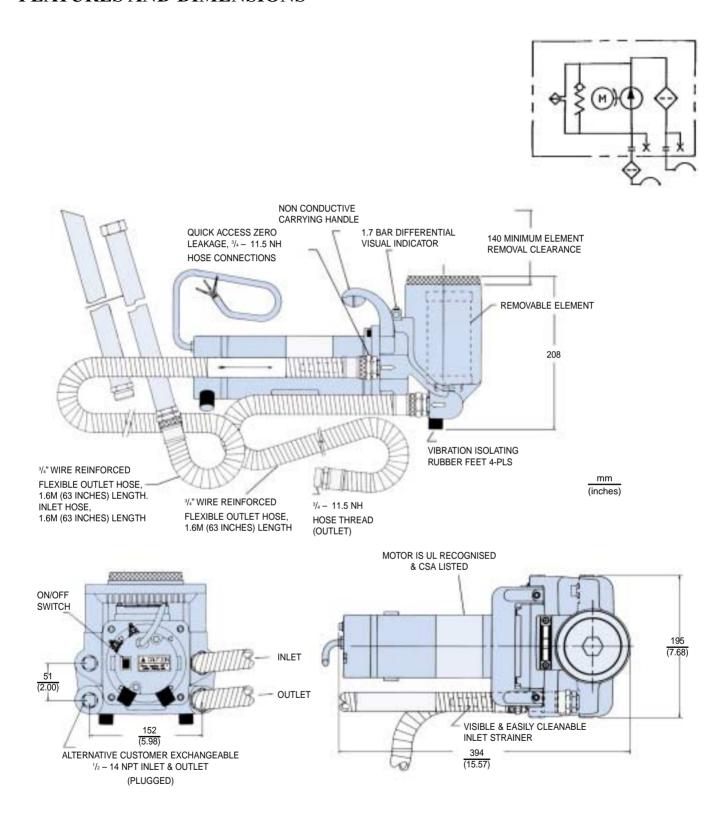
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TYPICAL APPLICATIONS

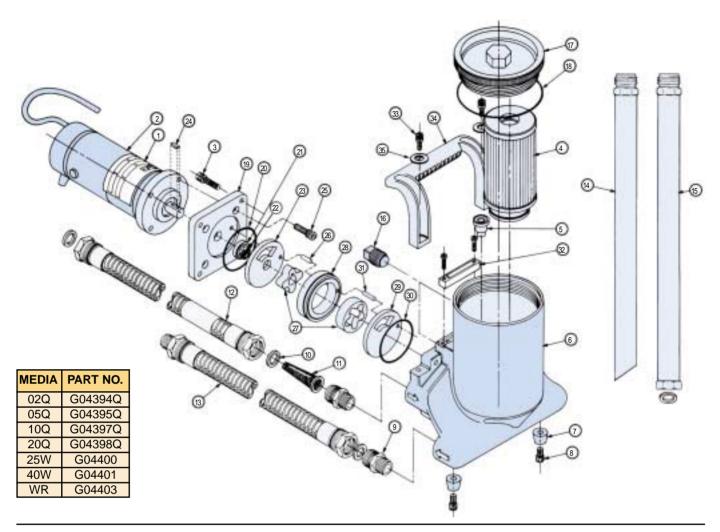


FEATURES AND DIMENSIONS



Guardian®

REPLACEMENT PARTS



PARTS LIST

1	Label932495	23	Shadow Plate
2a	Motor, 220/240VAC933730	24	Woodruff Key
	Motor, 2110 VAC933729	25	SHCS (4)
3	SHCS (4)	26	Roll Pin
4	Element See table	27	Gerotor Set
5	Relief Valve928981	28	Gerotor Ring
6	Housing 931838	29	Outlet Plate
7	Rubber Bumpers (2)931888	30	Gerotor O-Ring
8	SHCS (2)	31	Roll Pin
9	Brass Fitting (2)	32	Indicator Kit (includes 2xSHCS)S04182
10	Gasket (4)931956	Ha	andle Assembly KitS04183
11	Inlet Screen	33	SHCS (2)
12	Inlet Hose Assembly931936	34	Handle
13	Outlet Hose Assembly931937	35	Washer (2)
14	Tube Assembly		
15	Tube Extension Assembly	Qυ	uick Disconnect Kit932097
16	Brass Pipe Plug931920	Wi	iring Instruction Card932494
17	End Cap	Pro	otective Case601727
18	O-Ring	Brı	ush Kit (110 V)G34329
Se	al KitS04180	Brı	ush Kit (220 V)G34327
Pu	mp Unit Assembly KitS04181	Brı	ush Kit (24 V DC) 932761
19	Adaptor Plate	Во	wl Extension Kit
20	Housing O-Ring	Co	over Assembly KitS04179
21	Polypak Seal		
22	Washer	No	te: SHCS denotes "Socket Head Cap Screw".

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Table 1 Table 2

Seals		
Description	SYMBOL	Descript
Fluoroelastomer*	F3	Guardian

Description SYMBOL			
GT4E			

Table 3	
Motor Options	5
Description	CODE
220/240 VAC FOU-	1

110 VAC, 50Hz

Table 5	
Options	
None	1
Quick Disconnect Hose Connections	6

Table 4

		Elei	ment N	/ledia	Degre	e of Fi	Itratio	n
	Average filtration Ratio (ISO 16889) / particle size µm(c)							
	2	10	75	100	200	1000	CODE	DESCRIPTION
Ì	N/A	N/A	N/A	N/A	N/A	4.5	02Q	
	N/A	N/A	4.5	5	6	7	05Q	Microglass III
	N/A	6	8.5	9	10	12	10Q	Wildroglass III
	6	11	17	18	20	22	20Q	
1	N/A	N/A	25	N/A	N/A	N/A	25W	Woven Wire
	N/A	N/A	40	N/A	N/A	N/A	40W	Mesh
1	Par�(Par Gel Water Removal Media						iviesn

Table 6				
Language Options				
Instruction leaflet	language	& appropriate mou	ılded plug	
Description	CODE	Description	CODE	
English	UK	Dutch	NL	
German	D	Swedish	S	
French	F	Italian	- 1	
Danish	DK	Spanish	Е	
Finnish	SF			

Design Number
Assigned to the Guardian by the Factory

TROUBLESHOOTING GUIDE

Problem	Cause	Solution
Does not start	ON/OFF switch	Turn switch on, replace switch if defective
	No electrical power	Plug in Guardian, check for tripped circuit breakers, check for blown fuses
	Rectifier	Replace if defective
	Motor overheated 77°C (170°F)	Allow motor to cool, thermal overload will automatically reset
	Defective motor	Replace motor
Does not start or erratic motor noise	Worn motor brushes	Replace motor brushes
Intermittent start/stop operation	High viscosity fluids	High viscosity fluids can cause the motor to overheat and cycle intermittently
	Worn motor brushes Defective motor	Replace motor brushes Replace motor
Hot motor	Pumping under heavy load	It is normal, under a heavy pumping load, for the motor to reach 71°C (160°F)
	Defective motor	Replace motor if the motor shell temperature reaches greater than 77°C (170°F)
No flow or erratic pump noise	Filter housing not filled with oil Suction leak	Allow Guardian to run for a few seconds Check tightness of inlet fittings and hoses. Check gaskets are in place and are not damaged. Kink or restriction in the inlet hose
	Obstructed outlet	Clear outlet
	Element dirty Sheared pump key	Replace or clean element Replace woodruff key
	Defective Guardian	Replace unit
No flow, erratic pump noise, motor overheats	Gears binding	Disassemble Guardian and thoroughly clean the gear set. Always use the inlet strainer provided to protect the unit. Replace defective gears.
No suction	Plugged strainer	Clean or replace the inlet strainer as required. Clean relief valve. Check for damaged internal o-rings.
Reduced oil flow	High viscosity fluids Element dirty Relief valve stick or lodged open Partially obstructed inlet or outlet hose Suction leak Worn gears	High viscosity fluids can cause reduced flow, which is normal Replace or clean element Clean relief valve or replace if defective Clear the hose obstruction Check tightness of inlet fittings and hose. Replace gear set
Indicator moves to RED area	Element dirty Oil extremely cold or viscous Obstructed outlet Defective indicator	Replace or clean element Change element to coarser micron rating Clear outlet obstruction Replace indicator
Indicator does not seem to move	No element Defective indicator	Install element Replace indicator
Hoses discolour or are hard	Fluid compatibility	Certain fluids, over time, will cause the hoses to discolour. This does not impair their performance. But, some fluids will cause the hoses to become brittle, requiring replacement.
Oil formation under unit	Defective shaft seal	Replace the motor shaft seal

Models FU1147/FU1302/FU1303

Portable Filtration Systems



Models FU1147/FU1302/FU1303

APPLICATIONS

• Hydraulic Systems

• Outlet of Oil

• Lubrication Systems • Cleaning Circulation

• Oil Handling

• Cutting Fluids

• Storage of Oil

• Fill-in of Systems

The Parker Filtration Models FU1147/ FU1302/FU1303 Portable Filtration Systems.

Parkers portable filtration units are designed for on-site preventative maintenance of fluid systems.

An internal pump draws fluid through a primary clean-up filter and through a high quality polishing filter to remove particulate contamination.



COMPATIBLE FLUIDS

- Mineral Oils
- Synthetic Oils
- Turbin Oils
- Cutting Fluids







FU1147

FU1302

FU1303

Max. flow	20 l/min (5.26 USG/min)	40 l/min (10.53 USG/min)	100 l/min (26.31 USG/min)
Viscosity	320 cSt	320 cSt	320 cSt
Power	0.75 kW/1450 rpm	0.75 kW/1450 rpm	2.2 kW/1450 rpm
Voltage	380V	380V	380V
Pump type	Geared pump, Helical-type	Geared pump, Helical-type	Geared pump, Helical-type
Filter housing type	FG1147.GT20.BS35	FG1302.GT20.BA35	FG1303.GT20.BA35
Δ p-indication	FPC.V25.BM	FPC.V25.BM	FPC.V25.BM
Closing valve	Ball Valve	Ball Valve	Ball Valve
Bypass (bar)	3.5±.2	3.5±.2	3.5±.2
Seals	NBR	NBR	NBR
OPTIONS: (will be marked with dash after the type marking)			
Voltage	YV (220V)	YV (220V)	-

Note: FU1147 and FU1302 are always equipped with hose, connecting cable and electric plug.

Models FU1147/FU1302/FU1303

ORDERING EXAMPLE

Example of Filtration Unit:

Type
Option

Table 1
Table 2
Table 3

Example of Filter Element:

Table 1

Filter Element
FC7007 (for type 1147)
FC1302
FC1303

Table 2

Seal/Cap Material				
Description	SYMBOL			
Nitrile/Plastic	ВК			
Nitrile/Steel BS				

Table 3

	Degree of Filtration					
Typical filtration ratio ß (ISO 16889) / particle size µm(c)						CODE
2	10	75	100	200	1000	
N/A	N/A	N/A	N/A	N/A	4.5	Q002
N/A	N/A	4.5	5	6	7	Q005
N/A	6	8.5	9	10	12	Q010
6	11	17	18	20	22	Q020
Water Absorbtion					C025	

Custom made filter assemblies available. For further information, please consult Finn-Filter.