

PTMC Series Pretreatment (Multi-media filter + Carbon filter) for R.O.

have been engineered for capacities ranging

from 10m3/h to 50m3/h

Applications:

- Pretreatment of Reverse Osmosis system
- Water filtration



Benefits

- Fully Equipped and Customizable
- Flexible application
- Components Easily Accessible
- Pre-Plumbed Wired and Assembled

- Individually Tested and preserved
- Low Operation and Maintenance Costs
- Easy Maintenance and Servicing
- 1-Year Limited Warranty

PTMC Series Pretreatment for R.O.

Standard Features

FRP Tank

- Working Pressure --- Max. 100psi
- Working Temperature: 1-49°C
- ●Max. Vacuum: 127mm Hg
- Accessory: Top/Bottom distributor
 - Vacuum breaker

Feed Water Pump

- Type --- Vertical Multi-stage Centrifugal
- Pump Material --- SS304
- Connection --- Flange
- Pump Brand --- CNP
- Qty: 1

Backwash Pump

- Type --- Vertical Multi-stage Centrifugal
- Pump Material --- SS304
- Connection --- Flange
- Pump Brand --- CNP
- Qty: 1

Instrumentation

● Pressure gauge --- Inlet, Outlet

Auto Valve controller

- Siemens PLC control
- Parameter setting panel
- Backwash timer control
- Lockout signal connection with R.O. backup
- Flow meter with switch or pulse signal,

Differential pressue and External signal control backup

Material of Construction

- Piping and Valves--- UPVC
- Frame --- SS304
- Control box --- IP54 (painted carbon steel)

Connection Port

- Feed Inlet Port
- Outlet Port
- Drain Port
- Backwash inlet port (if have individual backwash pump)

Documentation Included

- Operation and maintenance manual
- Drawings: P&ID, Electrical diagram

Options and Upgrades

- Flow meter with output switch signal
- Differential pressure switch
- Grundfos Pump
- SS316L Pump
- Standby Pump
- Flocculant dosing unit

- Flow meter with pulse signal
- ABB VFD
- Carbon steel tank with rubber liner
- Air flush for Multi-media filter
- Communication: Modbus RTU

Ordering Guide

Order Example PTMC	120	FD/TB	380T50			
Туре						
Tank Size (Diameter by CM)						
Connection port Flange/Thread/Socket(code)						
Power supply (code)						

Tank Size (Diameter by CM)	
Connection port Flange/Thread/Socket(code)	
Power supply (code)	
Connection Port (Flange)	Code
Flange, ANSI	FA
Flange, DIN	FD
Connection Port (Thread)	Code
Thread, NPT	TN
Thread, BSPT	ТВ
Connection Port (Socket)	Code
Socket, ANSI	SA
Socket, DIN	SD
Power Supply	Code
220VAC / 50hz / single phase	220S50
230VAC / 50hz / single phase	230S50
240VAC / 50hz / single phase	240S50
100VAC / 60hz / single phase	100S50
110VAC / 60hz / single phase	110S50
120VAC / 60hz / single phase	120S60
127VAC / 60hz / single phase	127S60
200VAC / 60hz / single phase	200S60
220VAC / 60hz / single phase	220S60
240VAC / 60hz / single phase	240S60
380VAC / 50hz / three phase	380T50
400VAC / 50hz / three phase	400T50
415VAC / 50hz / three phase	415T50
440VAC / 50hz / three phase	440T50
200VAC / 60hz / three phase	200T60
208VAC / 60hz / three phase	208T60
220VAC / 60hz / three phase	220T60
240VAC / 60hz / three phase	240T60
380VAC / 60hz / three phase	380T60
440VAC / 60hz / three phase	440T60
460VAC / 60hz / three phase	460T60
480VAC / 60hz / three phase	480T60

PTMC Series Pretreatment for R.O.

Specifications

Specifications						
MODEL	PTMC-100	PTMC-120	PTMC-135	PTMC-150	PTMC-180	
Service Flowrate ¹	10~16m³/hr	14~22m³/hr	18~30m³/hr	22~35m³/hr	32~50m³/hr	
			70m³/hr	100m³/hr		
Approx. Backwash Flow	(multi-media filter)	(multi-media filter)	(multi-media filter)	(multi-media filter)	(multi-media filter)	
Rate	21m³/hr (carbon	30m³/hr	38m³/hr (carbon	48m³/hr (carbon	68m³/hr	
	filter)	(carbon filter)	filter)	filter)	(carbon filter)	
		Feed Pumi	and Motor			
Manufacturer	CNP	CNP	CNP	CNP	CNP	
Model	CDLF16-3 (50hz)	CDLF20-3 (50hz)	CDLF32-30-2 (50hz)	CDLF32-30 (50hz)	CDLF42-20 (50hz)	
Motor HP	3kw	4kw	5.5kw	5.5kw	7.5kw	
Wet contact Material	SS304	SS304	SS304	SS304	SS304	
Flowrate (service)	16m³/hr @ 3.4bar	22m³/hr @ 3.3bar	30m³/hr @ 3.5bar	35m³/hr @ 3.5bar	50m³/hr @ 3.5bar	
Flowrate ² (backwash with 2	101117111 € 3.1041	2211711 € 3.3641	30117111 € 3.3041	33H17H1 C 3.30H1	30m/m C 3.30m	
Feed pumps)	32m³/hr @ 3.4bar	44m³/hr @ 3.3bar	60m³/hr @ 3.5bar	70m³/hr @ 3.5bar	100m³/hr @ 3.5bar	
r ccu pumps)]	Rockwa	ish pump			
Manufacturer	CNP	CNP	CNP	CNP	CNP	
		- '				
Model Motor IID	CDLF32-20 (50hz)	CDLF42-20-2 (50hz)	CDLF65-20-2 (50hz)	CDLF65-20-1 (50hz)	CHLF85-20-2 (50hz)	
Motor HP	4kw	5.5kw	7.5kw	11kw	11kw	
Wet contact Material	SS304	SS304	SS304	SS304	SS304	
Flowrate (backwash)	32m³/hr @ 2.7bar	44m³/hr @ 3.0bar	60m³/hr @ 2.9bar	70m³/hr @ 2.3bar	100m³/hr @ 2.2bar	
	I		Tank	I :	w.aa	
Approx. Dimension	Ø1000×H2145mm	Ø1200×H2110mm	Ø1350×H2400mm	Ø1500×H2450mm	Ø1800×H2450mm	
Open	6"Flange Top/Bottom	6"Flange Top/Bottom	6"Flange Top/Bottom	6"Flange Top/Bottom	6"Flange Top/Bottom	
Max. Working Pre.	7bar	7bar	7bar	7bar	7bar	
	C	arbon steel tank with	rubber liner (Option	al)		
Approx. Dimension	Ø1000×H2700mm	Ø1200×H2700mm	Ø1350×H3000mm	Ø1500×H3200mm	Ø1800×H3200mm	
Open	6"Flange Top/Bottom	6"Flange Top/Bottom	6"Flange Top/Bottom	6"Flange Top/Bottom	6"Flange Top/Bottom	
Max. Working Pre.	7bar	7bar	7bar	7bar	7bar	
		Pneumatic valves f	for Multimedia filter			
Feed valve	2" butterfly valve	3" butterfly valve	3" butterfly valve	3" butterfly valve	4" butterfly valve	
Product valve	2" butterfly valve	3" butterfly valve	3" butterfly valve	3" butterfly valve	4" butterfly valve	
Backwash valve	2.5" butterfly valve	3" butterfly valve	4" butterfly valve	4" butterfly valve	5" butterfly valve	
Top drain valve	2.5" butterfly valve	3" butterfly valve	4" butterfly valve	4" butterfly valve	5" butterfly valve	
Bottom drain valve	2" butterfly valve	3" butterfly valve	3" butterfly valve	3" butterfly valve	4" butterfly valve	
Air inlet valve (optional)	1" double union ball valve	1" double union ball valve	1.5" double union ball valve	1.5" double union ball valve	2" butterfly valve	
Air vent valve (optional)	1/2" double union ball valve	1/2" double union ball valve	3/4" double union ball valve	3/4" double union ball valve	1" double union ball valve	
		Pneumatic valve	s for Carbon filter			
Feed valve	2" butterfly valve	3" butterfly valve	3" butterfly valve	3" butterfly valve	4" butterfly valve	
Product valve	2" butterfly valve	3" butterfly valve	3" butterfly valve	3" butterfly valve	4" butterfly valve	
Backwash valve	2" butterfly valve	3" butterfly valve	3" butterfly valve	3" butterfly valve	4" butterfly valve	
Top drain valve	2" butterfly valve	3" butterfly valve	3" butterfly valve	3" butterfly valve	4" butterfly valve	
Bottom drain valve	2" butterfly valve	3" butterfly valve	3" butterfly valve	3" butterfly valve	4" butterfly valve	
		Insta	llation			
Inlet	2" Flange	3" Flange	3" Flange	3" Flange	4" Flange	
Outlet	2" Flange	3" Flange	3" Flange	3" Flange	4" Flange	
Drain	3" Flange	3" Flange	4" Flange	4" Flange	5" Flange	
Air inlet inlet (optional)	1/2" socket DIN or ANSI	1/2" socket DIN or ANSI	1.5" socket DIN or ANSI	1.5" socket DIN or ANSI	2" socket DIN or ANSI	
Air vent inlet (optional)	1/2" socket DIN or ANSI	1/2" socket DIN or ANSI	3/4" socket DIN or ANSI	3/4" socket DIN or ANSI	1" socket DIN or ANSI	
Options						
Flocculant dosing unit	Metering pump: 3L/h Chemical tank: 200- 300L	Metering pump: 3L/h Chemical tank: 200- 300L	Metering pump: 3L/h Chemical tank: 200- 300L	Metering pump: 3L/h Chemical tank: 300- 500L	Metering pump: 7L/h Chemical tank: 300-500L	
	J. C. S. L.		500E	LUCE	200 200E	

Operating Limits

Maximum Feed Temperature °C (°F)	43 (110)	Maximum Feed Pressure	bar (psi)	7 (100)
Minimum Feed Temperature °C (°F)	1 (34)	Minimum Feed Pressure	bar (psi)	2.8 (40)