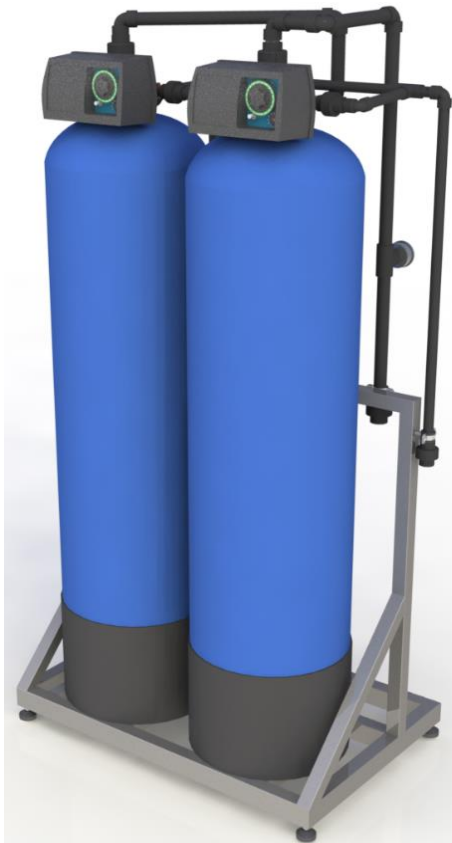


PTSC836 Series (Sand filter + Carbon filter) Pretreatment for R.O.

have been engineered for capacities ranging from 0.3m³/h to 10m³/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

PTSC836 Series Pretreatment for R.O.

Standard Features

FRP Tank

- Working Pressure --- Max. 100psi
- Working Temperature: 1-49°C
- Max. Vacuum: 127mm Hg

Feed Water Pump

- Type --- Horizontal Multi-stage Centrifugal
- Pump Material --- SS304
- Connection --- Thread (horizontal pump)
Flange (vertical pump)
- Pump Brand --- CNP

Connection Port

- Feed Inlet Port
- Outlet Port
- Drain Port

Instrumentation

- Pressure gauge --- Inlet, Outlet
- Micro switch--- Multi-port Auto valves for Sand filter and Carbon filter

Control system

- Relay control
- Tank level control
- Aux on/off backup
- Pretreatment lockout signal

Multiport Valve

- Type --- Mechanical Timer
- Connection --- Thread

Material of Construction

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

Documentation Included

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

Options and Upgrades

- Flow meter
- Pressure tank
- Grundfos Pump
- SS316 Pump
- Volume Meter for the Multiport Valve
- Flux switch
- Pressure switch (for controlling the Pump)
- Vertical Pump
- Digital Multiport Valve



PTSC836 Series Pretreatment for R.O.

Ordering Guide

Order Example	PTSC836	30	FD/TB	220S50
Type				
Tank Size (Diameter by inch)				
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	TB

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

PTSC836 Series Pretreatment for R.O.

Specifications

MODEL	PTSC836-08	PTSC836-10	PTSC836-12	PTSC836-14	PTSC836-16
Service Flow rate	0.4~0.7m ³ /hr	0.7~1.0m ³ /hr	1.0~1.5m ³ /hr	1.5~2.0m ³ /hr	2.0~2.5m ³ /hr
Approx. Backwash Flow Rate	1.2m ³ /hr (sand filter)	2.3m ³ /hr (sand filter)	2.8m ³ /hr (sand filter)	3.5m ³ /hr (sand filter)	4.0m ³ /hr (sand filter)
	0.9m ³ /hr (carbon filter)	1.4m ³ /hr (carbon filter)	1.6m ³ /hr (carbon filter)	2.4m ³ /hr (carbon filter)	2.8m ³ /hr (carbon filter)
Pump and Motor					
Manufacturer	CNP	CNP	CNP	CNP	CNP
Model	CHLF2-40 (50hz)	CHLF2-40 (50hz)	CHLF2-40 (50hz)	CHLF2-40 (50hz)	CHLF4-40 (50hz)
Motor HP	0.55kw	0.55kw	0.55kw	0.55kw	0.75kw
Wet contact Material	SS304	SS304	SS304	SS304	SS304
Flowrate (service) ¹	0.6m ³ /hr @ 3.5bar	0.9m ³ /hr @ 3.5bar	1.3m ³ /hr @ 3.3bar	1.8m ³ /hr @ 3.0bar	2.3m ³ /hr @ 3.4bar
Flowrate (backwash)	1.2m ³ /hr @ 3.3bar	2.3m ³ /hr @ 2.7bar	2.8m ³ /hr @ 2.5bar	3.5m ³ /hr @ 2.2bar	4.0m ³ /hr @ 3.0bar
FRP Tank					
Approx. Dimension	Ø8" xH44"	Ø10" xH54"	Ø12" xH52"	Ø14" xH65"	Ø16" xH65"
Open	2.5" Top	2.5" Top	2.5" Top	2.5" Top	4" Top
Max. Working Pre.	10bar	10bar	10bar	10bar	10bar
Multi-port Valve					
Auto Valve Model (brand: Fobrite)	F11-FTC	F11-FTC	D-FTC	D-FTC	F15-FTC
Optional: Auto valve (brand: Pentair)	5600FT	5600FT	5000SE	5000SE	2510FT
Optional: Manual valve (brand: Runxin)	F56E	F56E	F56A	F56F	F56F
Inlet/Outlet	1" Thread	1" Thread	1" Thread	1" Thread	1" Thread
Drain	1/2" Thread	1/2" Thread	1/2" Thread	1/2" Thread	3/4" Thread
Max. Working Pre.	7bar	7bar	7bar	7bar	7bar
Installation					
Inlet	1" Thread	1" Thread	1" Thread	1" Thread	1-1/4" Thread
Outlet	1" Thread	1" Thread	1" Thread	1" Thread	1" Thread
Drain	1/2"	1/2"	1/2"	1/2"	3/4"
Package Dimension					
Approx. Height	1650mm	1650mm	1650mm	1650mm	1650mm
Approx. Width	700mm	700mm	700mm	700mm	700mm
Approx. Depth	650mm	650mm	650mm	800mm	800mm
Approx. Shipping Weight	75kg	80kg	89kg	105kg	140kg

¹Recirculation pipeline with adjustable valve or pressure relief valve is required from feed pump outlet to feed water tank.



PTSC836 Series Pretreatment for R.O.

Specifications

MODEL	PTSC836-18	PTSC836-21	PTSC836-24	PTSC836-30	PTSC836-36
Service Flow rate	2.5~3.0m ³ /hr	3.0~4.5m ³ /hr	4.5~5.3m ³ /hr	5.3~7.0m ³ /hr	7.0~11m ³ /hr
Approx. Backwash Flow Rate	6.0m ³ /hr (sand filter)	8.0m ³ /hr (sand filter)	12m ³ /hr (multi-media filter)	16m ³ /hr (multi-media filter)	22m ³ /hr (multi-media filter)
	3.6m ³ /hr (carbon filter)	6.0m ³ /hr (carbon filter)	7.5m ³ /hr (carbon filter)	12m ³ /hr (carbon filter)	16m ³ /hr (carbon filter)
Pump and Motor					
Manufacturer	CNP	CNP	CNP	CNP	CNP
Model	CDLF4-4 (50hz)	CDLF4-5 (50hz)	CDLF8-4 (50hz)	CDLF12-3 (50hz)	CDLF16-3 (50hz)
Motor HP	0.75kw	1.1kw	1.5kw	2.2kw	3.0kw
Wet contact Material	SS304	SS304	SS304	SS304	SS304
Flowrate (service) ¹	3.0m ³ /hr @ 3.4bar	4.5m ³ /hr @ 3.6bar	5.3m ³ /hr @ 4.0bar	7m ³ /hr @ 3.5bar	11m ³ /hr @ 3.8bar
Flowrate (backwash)	6.0m ³ /hr @ 2.4bar	8.0m ³ /hr @ 2.0bar	12m ³ /hr @ 2.6bar	16m ³ /hr @ 2.1bar	22m ³ /hr @ 2.5bar
FRP Tank					
Approx. Dimension	Ø18" xH65"	Ø21" xH62"	Ø24" xH72"	Ø30" xH72"	Ø36" xH72"
Open	4" Top	4" Top	4" Top	4" Top	4" Top
Max. Working Pre.	10bar	10bar	10bar	10bar	10bar
Multi-port Valve					
Auto Valve Model (brand: Fobrite)	F21-FTC	F21-FTC	F21-FTC	F41-FTC	F41-FTC
Optional: Auto valve (brand: Pentair)	2850FT	2850FT	2850FT	3150FT	3150FT
Optional: Manual valve (brand: Runxin)	F56D	F56D	F56D	N/A	N/A
Inlet/Outlet	1.5" Thread	1.5" Thread	1.5" Thread	2" Thread	2" Thread
Drain	1" Thread	1" Thread	1" Thread	2" Thread	2" Thread
Max. Working Pre.	7bar	7bar	7bar	7bar	7bar
Installation					
Inlet	1-1/4" Flange	1-1/4" Flange	2" Flange	2" Flange	2" Flange
Outlet	1.5" Flange	1.5" Flange	1.5" Flange	2" Flange	2" Flange
Drain	1/2"	1/2"	1/2"	1/2"	3/4"
Package Dimension					
Approx. Height	1650mm	1650mm	1650mm	1650mm	1650mm
Approx. Width	700mm	700mm	700mm	700mm	700mm
Approx. Depth	650mm	650mm	650mm	800mm	800mm
Approx. Shipping Weight	180kg	215kg	265kg	340kg	455kg

¹Recirculation pipeline with adjustable valve or pressure relief valve is required from feed pump outlet to feed water tank.

Operating Limits

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