

AGWT STANDARD SKID MOUNTED UF SERIES

PTUF Series Ultra Filtration System

have been engineered for permeate capacities

ranging from 2.5 to 100m³/h.



Benefits

- Fully Equipped and Customizable
- Expandable and Skid Mounted
- Components Easily Accessible
- Pre-Plumbed Wired and Assembled
- Feed pump and backwash pump soft start
- Individually Tested and preserved
- Low Operation and Maintenance Costs
- Easy Maintenance and Servicing
- 1-Year Limited Warranty

Standard Features

UF membrane

- Membrane model --- SVF-1060-A (outside-in)
- Membrane brand --- Saveyor
- Membrane area --- 75m²
- Pore size --- 0.075µm
- Membrane material --- PVDF
- Feed/prod./conc. connection --- VICTAULIC 2"
- Air inlet connection --- 3/8" thread

Boost Pump

- Type --- Vertical Multi-stage Centrifugal
- Pump Material --- SS316
- Connection --- DIN Flange
- Pump Brand --- CNP

Connection Port

- Feed Inlet Port
- Product Port
- Drain Port
- Cross-flow outlet Port
- Backwash inlet Port
- CIP inlet Port
- CIP outlet Port
- Blower air inlet Port
- Integrity test air inlet Port

Instrumentation

- Flow meters --- Product, Reject, Cross-flow
- Pressure gauge--- Feed, product, air inlet
- Pressure switch --- Feed, Backwash inlet
- Flow limit switch --- Cross flow

Options and Upgrades

- Turbidity meter
- pH and ORP Meter
- Flow transmitter with pulse signal output
- Pressure transducer with analog signal output
- Grundfos Pump
- Air compressor

Control system

- Siemens PLC
- Weinview HMI
- ABB VFD
- Parameters setting panel
- Feed pump and backwash pump soft start
- Tank level control
- Over-pressure protection
- Auto backwash and CEB

Material of Construction

- Low - pressure piping --- UPVC
- Auto valve --- UPVC
- Manual valve --- UPVC
- Air exhaust valve --- UPVC or Brass
- Frame --- SS304
- Control box --- IP54

Auto Valve

- Actuator: Pneumatic type
- Valve body: UPVC Butterfly (≥2")
UPVC Double union ball valve (<2")
- Actuator brand: Ritork or equiv.
- Valve body brand: Hershey or equiv.

Documentation Included

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

- Disc filter
- EFM/CIP system (tank+filter+pump)
- EFM Auto Feed/discharge valves
- Communication: Modbus RTU
- EasyAccess Remote Control

Ordering Guide

Order Example	PTUF	18	FD/TB	415T50
Type				
Membrane quantity				
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

Specifications

MODEL	PTUF-1	PTUF-2	PTUF-4	PTUF-6	PTUF-8
Product flow rate ¹	3~5m³/hr	6~10m³/hr	14~20m³/hr	21~30m³/hr	24~40m³/hr
Approx. Backwash drain	0.23m³/hr	0.46m³/hr	0.92m³/hr	1.38m³/hr	1.84m³/hr
Approx. cross flow	0.46m³/hr	0.92m³/hr	1.84m³/hr	2.76³/hr	3.68m³/hr
Feed Pump and Motor					
Manufacturer	CNP	CNP	CNP	CNP	CNP
Model	CDLF4-3 (60hz)	CDLF8-3 (60hz)	CDLF16-2 (60hz)	CDLF32-20-2 (60hz)	CDLF42-10(60hz)
Quantity	1	1	1	1	1
Motor (kw)	1.1kw	2.2kw	4.0kw	5.5kw	7.5kw
Pump Material	SS316	SS316	SS316	SS316	SS316
Design flow rate	5m³/hr	10m³/hr	20m³/hr	30m³/hr	40m³/hr
Design boost pressure	3.2bar	3.7bar	3.2bar	3.6bar	3.2bar
Backwash/CEB² Pump and Motor					
Manufacturer	CNP	CNP	CNP	CNP	CNP
Model	CDLF4-3 (60hz)	CDLF12-2 (60hz)	CDLF20-2 (60hz)	CDLF42-10-1 (60hz)	CDLF65-10-1 (60hz)
Quantity	1	1	1	1	1
Motor (kw)	1.1kw	2.2kw	4.0kw	5.5kw	7.5kw
Pump Material	SS316	SS316	SS316	SS316	SS316
Design flow rate	7m³/hr	14m³/hr	28m³/hr	42m³/hr	56m³/hr
Design boost pressure	2.4bar	2.8bar	2.9bar	2.6bar	2.4bar
Blower (for Air scrub)					
Manufacturer	FENRZ or equiv.	FENRZ or equiv.	FENRZ or equiv.	FENRZ or equiv.	FENRZ or equiv.
Model	2PB420H46	2PB420H46	2PB420H46	2PB420H46	2PH520H57
Quantity	1	1	1	1	1
Motor (kw)	2.2kw (50hz)	2.2kw (50hz)	2.2kw (50hz)	2.2kw (50hz)	4kw (50hz)
	2.55kw (60hz)	2.55kw (60hz)	2.55kw (60hz)	2.55kw (60hz)	4.6kw (60hz)
Max. pressure	0.44bar	0.44bar	0.44bar	0.44bar	0.48bar
Backwash filter					
Manufacturer	Hengxin	Hengxin	Hengxin	Hengxin	Hengxin
Type	Bag filter	Bag filter	Bag filter	Bag filter	Bag filter
Housing materail	UPVC	UPVC	UPVC	UPVC	UPVC
Model	HXP-BF-1-1-B	HXP-BF-1-1-B	HXP-BF-1-2-B	HXP-BF-1-2-B	HXP-BF-1-2-B
Bag filter	1#, 100µm	1#, 100µm	1#, 100µm	1#, 100µm	1#, 100µm
Bag filter quantity	1	1	1	1	2
Valves (Butterfly valve for the size ≥2"; Double union ball valve for the size <2")					
Auto Feed valve	1"	1.5"	2"	3"	3"
Auto Product vaele	1"	1.5"	2"	3"	3"
Auto Top Drain valve	1"	1.5"	2"	3"	3"
Auto Bottom Drain valve	1"	1.5"	2"	3"	3"
Auto Cross-Flow valve	1/2"	1/2"	3/4"	1"	1"
Auto Backwash valve	1"	1.5"	2"	3"	3"
Auto Air inlet valve	1/2"	3/4"	1"	1.5"	1.5"
Manual CIP Feed valve	1"	1.5"	2"	3"	3"
Manual CIP Conc. Discharge valve	1"	1.5"	2"	3"	3"
Manual CIP Perm. Discharge valve	1"	1.5"	2"	3"	3"
Check valve in main air line	1/2"	3/4"	1"	1.5"	1.5"
Auto EFM Feed valve (optional)	1"	1.5"	2"	3"	3"
Auto EFM Conc. Discharge valve(optional)	1"	1.5"	2"	3"	3"
Auto EFM Perm. Discharge valve (optional)	1"	1.5"	2"	3"	3"

Chemical dosing unit					
Flocculant (FeCl ₃ , ≈3ppm) for service	Metering pump:1.5L/h Chemical tank: 100L	Metering pump:1.5L/h Chemical tank: 100L	Metering pump:1.5L/h Chemical tank: 100L	Metering pump: 3L/h Chemical tank: 200L	Metering pump: 3L/h Chemical tank: 200L
Anti-bacterial (NaClO, ≈3ppm) for service	Metering pump:1.5L/h Chemical tank: 100L	Metering pump:1.5L/h Chemical tank: 100L	Metering pump:1.5L/h Chemical tank: 100L	Metering pump: 3L/h Chemical tank: 200L	Metering pump: 3L/h Chemical tank: 200L
Acid (≈3ppm) for service (optional)	Metering pump:1.5L/h Chemical tank: 100L	Metering pump:1.5L/h Chemical tank: 100L	Metering pump:1.5L/h Chemical tank: 100L	Metering pump: 3L/h Chemical tank: 200L	Metering pump: 3L/h Chemical tank: 200L
Anti-bacterial (NaClO, ≈200ppm) for CEB ²	Metering pump: 18L/h Chemical tank: 100L	Metering pump: 40L/h Chemical tank: 100L	Metering pump: 70L/h Chemical tank: 100L	Metering pump: 70L/h Chemical tank: 200L	Metering pump:110L/h Chemical tank: 200L
Flocculant (FeCl ₃ ,200ppm) for CEB (optional)	Metering pump: 18L/h Chemical tank: 100L	Metering pump: 40L/h Chemical tank: 100L	Metering pump: 70L/h Chemical tank: 100L	Metering pump: 70L/h Chemical tank: 200L	Metering pump:110L/h Chemical tank: 200L
Installation					
Feed inlet	1" thread	1.5" thread	2" flange	3" flange	3" flange
Product outlet	1" thread	1.5" thread	2" flange	3" flange	3" flange
Drain	1" thread	1.5" thread	2" flange	3" flange	3" flange
Cross-flow outlet	1/2" thread	1/2" thread	1/2" thread	3/4" thread	3/4" thread
Backwash inlet	1" thread	1.5" thread	2" flange	3" flange	3" flange
CIP /EFM ³ inlet	1" thread	1.5" thread	2" flange	3" flange	3" flange
CIP/EFM outlet	1" thread	1.5" thread	2" flange	3" flange	3" flange
Air inlet	1/2" thread	3/4" thread	1" flange	1.5" flange	1.5" flange
Package for UF skid (without UF membranes, UF membranes are packed separately)					
Approx. Height	2200mm	2200mm	2400mm	2450mm	2450mm
Approx. Width	1000mm	1000mm	1100mm	1200mm	1300mm
Approx. Depth	1200mm	1500mm	2000mm	2320mm	2650mm
Approx. Shipping Weight	150kg	200kg	300kg	350kg	410kg
Package of UF					
Dimension / each	33×33×180cm	33×33×180cm	33×33×180cm	33×33×180cm	33×33×180cm
Weight / each	45kg	45kg	45kg	45kg	45kg
Membrane quantity	1	2	4	6	8
Options					
Bag filter (as pretreatment for UF; 100~200μm)	HXP-BF-1-1-B	HXP-BF-1-1-B	N/A	N/A	N/A
Disc filter (as pretreatment for UF; 100~200μm)	N/A	N/A	JY2-3	JY2-3	JY2-3
CIP/EFM system	CIP/EFM tank: 500L CIP/EFM pump: 3m ³ /h@1~2bar CIP/EFM filter: HPCF-5DC2 (5μm)	CIP/EFM tank: 500L CIP/EFM pump: 6m ³ /h@1~2bar CIP/EFM filter: HPCF-5DC2 (5μm)	CIP/EFM tank: 500L CIP/EFM pump: 12m ³ /h@1~2bar CIP/EFM filter: HPCF-5DC4 (5μm)	CIP/EFM tank: 500L CIP/EFM pump: 18m ³ /h@1~2bar CIP/EFM filter: HXP-BF-1-1-B (5μm)	CIP/EFM tank:1000L CIP/EFM pump: 24m ³ /h@1~2bar CIP/EFM filter: HXP-BF-1-1-B (5μm)

Note: ¹ For the high quality feed water such as RO permeate water, the product water flux can be up to 9m³/h per membrane

² CEB= chemical enhanced backwash

³ CIP= cleaning in place; EFM= Enhanced Flux Maintenance;

CIP/EFM skid (tank, pump and filter) can be shared with Reverse Osmosis membranes cleaning system (if having)

Specifications

MODEL	PTUF-10	PTUF-12	PTUF-14	PTUF-16	PTUF-18
Product flow rate ¹	30~50m³/hr	36~60m³/hr	42~70m³/hr	48~80m³/hr	54~90m³/hr
Approx. Backwash drain	2.3m³/hr	2.76m³/hr	3.22m³/hr	3.68m³/hr	4.14m³/hr
Approx. cross flow	4.6m³/hr	5.52m³/hr	6.44m³/hr	7.36m³/hr	8.28m³/hr
Feed Pump and Motor					
Manufacturer	CNP	CNP	CNP	CNP	CNP
Model	CDLF42-10(60hz)	CDLF65-10(60hz)	CDLF65-10(60hz)	CDLF85-10(60hz)	CDLF85-10(60hz)
Quantity	1	1	1	1	1
Motor (kw)	7.5kw	11kw	11kw	15kw	15kw
Pump Material	SS316	SS316	SS316	SS316	SS316
Design flow rate	50m³/hr	60m³/hr	70m³/hr	80m³/hr	90m³/hr
Design boost pressure	2.9bar	3.3bar	3.1bar	3.1bar	3.0bar
Backwash/CEB ² Pump and Motor					
Manufacturer	CNP	CNP	CNP	CNP	CNP
Model	CDLF65-10-1 (60hz)	CDLF85-10-1 (60hz)	CDLF85-10-1 (60hz)	CDLF120-10-1 (60hz)	CDLF120-10-1 (60hz)
Quantity	1	1	1	1	1
Motor (kw)	7.5kw	11kw	11kw	15kw	15kw
Pump Material	SS316	SS316	SS316	SS316	SS316
Design flow rate ³	70m³/hr	84m³/hr	98m³/hr	112m³/hr	126m³/hr
Design boost pressure	2.1bar	2.4bar	2.2bar	2.3bar	2.2bar
Blower (for Air scrub)					
Manufacturer	FENRZ or equiv.	FENRZ or equiv.	FENRZ or equiv.	FENRZ or equiv.	FENRZ or equiv.
Model	2PH520H57	2PH520H57	2PH720H47	2PH720H47	2PH720H47
Quantity	1	1	1	1	1
Motor (kw)	4kw (50hz)	4kw (50hz)	5.5kw (50hz)	5.5kw (50hz)	5.5kw (50hz)
	4.6kw (60hz)	4.6kw (60hz)	6.3kw (60hz)	6.3kw (60hz)	6.3kw (60hz)
Max. pressure	0.48bar	0.48bar	0.5bar	0.5bar	0.5bar
Backwash filter					
Manufacturer	Hengxin	Hengxin	Hengxin	Hengxin	Hengxin
Type	Bag filter	Bag filter	Bag filter	Bag filter	Bag filter
Housing materail	UPVC	UPVC	UPVC	UPVC	UPVC
Model	HXP-BF-1-2-B	HXP-BF-1-2-B	HXP-BF-1-2-B	HXP-BF-1-2-B	HXP-BF-1-2-B
Bag filter	1#, 100µm	1#, 100µm	1#, 100µm	1#, 100µm	1#, 100µm
Bag filter quantity	2	2	3	3	3
Valves (Butterfly valve for the size ≥2"; Double union ball valve for the size <2")					
Auto Feed valve	4"	4"	4"	4"	5"
Auto Product vale	4"	4"	4"	4"	5"
Auto Top Drain valve	4"	4"	4"	4"	5"
Auto Bottom Drain valve	4"	4"	4"	4"	5"
Auto Cross-Flow valve	1-1/4"	1-1/4"	1.5"	1.5"	2"
Auto Backwash valve	4"	4"	4"	4"	5"
Auto Air inlet valve	2"	2"	2"	2"	2.5"
Manual CIP Feed valve	3"	3"	4"	4"	4"
Manual CIP Conc. Discharge valve	3"	3"	4"	4"	4"
Manual CIP Perm. Discharge valve	3"	3"	4"	4"	4"
Check valve in main air line	2"	2"	2"	2"	2.5"
Auto EFM Feed valve (optional)	3"	3"	4"	4"	4"
Auto EFM Conc. Discharge valve(optional)	3"	3"	4"	4"	4"
Auto EFM Perm. Discharge valve (optional)	3"	3"	4"	4"	4"

Chemical dosing unit					
Flocculant (FeCl ₃ , ≈3ppm) for service	Metering pump: 3L/h Chemical tank: 200L	Metering pump: 8L/h Chemical tank: 200L	Metering pump: 8L/h Chemical tank: 200L	Metering pump: 8L/h Chemical tank: 200L	Metering pump: 8L/h Chemical tank: 200L
Anti-bacterial (NaClO, ≈3ppm) for service	Metering pump: 3L/h Chemical tank: 200L	Metering pump: 8L/h Chemical tank: 200L	Metering pump: 8L/h Chemical tank: 200L	Metering pump: 8L/h Chemical tank: 200L	Metering pump: 8L/h Chemical tank: 200L
Acid (≈3ppm) for service (optional)	Metering pump: 3L/h Chemical tank: 200L	Metering pump: 8L/h Chemical tank: 200L	Metering pump: 8L/h Chemical tank: 200L	Metering pump: 8L/h Chemical tank: 200L	Metering pump: 8L/h Chemical tank: 200L
Anti-bacterial (NaClO, ≈200ppm) for CEB ²	Metering pump:170L/h Chemical tank: 200L	Metering pump:170L/h Chemical tank: 200L	Metering pump:170L/h Chemical tank: 200L	Metering pump:220L/h Chemical tank: 200L	Metering pump:220L/h Chemical tank: 200L
Flocculant (FeCl ₃ ,200ppm) for CEB (optional)	Metering pump:170L/h Chemical tank: 200L	Metering pump:170L/h Chemical tank: 200L	Metering pump:170L/h Chemical tank: 200L	Metering pump:220L/h Chemical tank: 200L	Metering pump:220L/h Chemical tank: 200L
Installation					
Feed inlet	4" flange	4" flange	4" flange	4" flange	5" flange
Product outlet	4" flange	4" flange	4" flange	4" flange	5" flange
Drain	4" flange	4" flange	4" flange	4" flange	5" flange
Cross-flow outlet	1-1/4" thread	1-1/4" thread	1.5" thread	1.5" thread	1.5" thread
Backwash inlet	4" flange	4" flange	4" flange	4" flange	5" flange
CIP ³ /EFM inlet	4" flange	4" flange	4" flange	4" flange	5" flange
CIP/EFM outlet	4" flange	4" flange	4" flange	4" flange	5" flange
Air inlet	2" thread	2" thread	2" thread	2" thread	2.5" thread
Package for UF skid (without UF membranes, UF membranes are packed separately)					
Approx. Height	2450mm	2450mm	2500mm	2500mm	2500mm
Approx. Width	1300mm	1300mm	1500mm	1500mm	1700mm
Approx. Depth	3000mm	3400mm	3900mm	4500mm	5000mm
Approx. Shipping Weight	500kg	530kg	600kg	650kg	700kg
Package of UF					
Dimension / each	33×33×180cm	33×33×180cm	33×33×180cm	33×33×180cm	33×33×180cm
Weight / each	45kg	45kg	45kg	45kg	45kg
Membrane quantity	10	12	14	16	18
Options					
Disc filter (as pretreatment for UF; 100~200μm))	JY3-3	JY3-4	JY3-4	JY3-5	JY3-5
CIP/EFM system	CIP tank: 1000L CIP pump: 30m ³ /h@1~2bar CIP filter: HXP-BF-1-2-B (5μm)	CIP tank: 1000L CIP pump: 36m ³ /h@1~2bar CIP filter: HXP-BF-1-2-B (5μm)	CIP tank: 1500L CIP pump: 42m ³ /h@1~2bar CIP filter: HXP-BF-1-2-B (5μm)	CIP tank: 1500L CIP pump: 48m ³ /h@1~2bar CIP filter: HXP-BF-1-2-B (5μm)	CIP tank: 2000L CIP pump: 54m ³ /h@1~2bar CIP filter: HXP-BF-1-2-B (5μm)

Note: ¹ For the high quality feed water such as RO permeate water, the product water flux can be up to 9m³/h per membrane

² CEB= chemical enhanced backwash

³ CIP= cleaning in place; EFM= Enhanced Flux Maintenance;

CIP/EFM skid (tank, pump and filter) can be shared with Reverse Osmosis membranes cleaning system (if having)

Specifications

MODEL	PTUF-20	PTUF-22	PTUF-24	PTUF-26	PTUF-28
Product flow rate ¹	60~100m³/hr	66~110m³/hr	72~120m³/hr	78~130m³/hr	84~140m³/hr
Approx. Backwash drain	4.6m³/hr	5.06m³/hr	5.52m³/hr	5.98m³/hr	6.44m³/hr
Approx. cross flow	9.2m³/hr	10.12m³/hr	11.04m³/hr	11.96m³/hr	12.88m³/hr
Feed Pump and Motor					
Manufacturer	CNP	CNP	CNP	CNP	CNP
Model	CDLF120-10 (60hz)	CDLF120-10 (60hz)	CDLF120-10 (60hz)	CDLF120-10 (60hz)	CDLF150-10 (60hz)
Quantity	1	1	1	1	1
Motor (kw)	15kw	15kw	15kw	15kw	22kw
Pump Material	SS316	SS316	SS316	SS316	SS316
Design flow rate	100m³/hr	110m³/hr	120m³/hr	130m³/hr	140m³/hr
Design boost pressure	3.03bar	2.95bar	2.88bar	2.76bar	3.17bar
Backwash/CEB² Pump and Motor					
Manufacturer	CNP	CNP	CNP	CNP	CNP
Model	CDLF120-10-1 (60hz)	CDLF150-10-1 (60hz)	CDLF150-10-1 (60hz)	CDLF150-10-1 (60hz)	CDLF200-10-1 (60hz)
Quantity	1	1	1	1	1
Motor (kw)	15kw	15kw	15kw	15kw	22kw
Pump Material	SS316	SS316	SS316	SS316	SS316
Design flow rate ³	140m³/hr	154m³/hr	168m³/hr	180m³/hr	196m³/hr
Design boost pressure	2.13bar	2.17bar	2.0bar	1.8bar	2.0bar
Blower (for Air scrub)					
Manufacturer	FENRZ or equiv.	FENRZ or equiv.	FENRZ or equiv.	FENRZ or equiv.	FENRZ or equiv.
Model	2PH720H47	1PB720H57	1PB720H57	1PB720H57	1PB720H57
Quantity	1	1	1	1	1
Motor (kw)	5.5kw (50hz)	7.5kw (50hz)	7.5kw (50hz)	7.5kw (50hz)	7.5kw (50hz)
	6.3kw (60hz)	8.6kw (60hz)	8.6kw (60hz)	8.6kw (60hz)	8.6kw (60hz)
Max. pressure	0.5bar	0.57bar	0.57bar	0.57bar	0.57bar
Backwash filter					
Manufacturer	Hengxin	Hengxin	Hengxin	Hengxin	Hengxin
Type	Bag filter	Bag filter	Bag filter	Bag filter	Bag filter
Housing materail	UPVC	UPVC	UPVC	UPVC	UPVC
Model	HXP-BF-1-2-B	HXP-BF-1-2-B	HXP-BF-1-2-B	HXP-BF-1-2-B	HXP-BF-1-2-B
Bag filter	1#, 100µm	1#, 100µm	1#, 100µm	1#, 100µm	1#, 100µm
Bag filter quantity	4	4	4	5	5
Valves (Butterfly valve for the size ≥2"; Double union ball valve for the size <2")					
Auto Feed valve	5"	5"	5"	5"	6"
Auto Product vale	5"	5"	5"	5"	6"
Auto Top Drain valve	5"	5"	6"	6"	6"
Auto Bottom Drain valve	5"	5"	6"	6"	6"
Auto Cross-Flow valve	2"	2"	2.5"	2.5"	2.5"
Auto Backwash valve	5"	5"	6"	6"	6"
Auto Air inlet valve	2.5"	3"	3"	3"	3"
Manual CIP Feed valve	4"	4"	5"	5"	5"
Manual CIP Conc. Discharge valve	4"	4"	5"	5"	5"
Manual CIP Perm. Discharge valve	4"	4"	5"	5"	5"
Check valve in main air line	2.5"	3"	3"	3"	3"
Auto EFM Feed valve (optional)	4"	4"	5"	5"	5"
Auto EFM Conc. Discharge valve(optional)	4"	4"	5"	5"	5"
Auto EFM Perm. Discharge valve (optional)	4"	4"	5"	5"	5"

Chemical dosing unit					
Flocculant (FeCl ₃ , ≈3ppm) for service	Metering pump: 8L/h Chemical tank: 300L	Metering pump: 8L/h Chemical tank: 300L	Metering pump: 8L/h Chemical tank: 300L	Metering pump: 8L/h Chemical tank: 300L	Metering pump: 8L/h Chemical tank: 300L
Anti-bacterial (NaClO, ≈3ppm) for service	Metering pump: 8L/h Chemical tank: 300L	Metering pump: 8L/h Chemical tank: 300L	Metering pump: 8L/h Chemical tank: 300L	Metering pump: 8L/h Chemical tank: 300L	Metering pump: 8L/h Chemical tank: 300L
Acid (≈3ppm) for service (optional)	Metering pump: 8L/h Chemical tank: 300L	Metering pump: 8L/h Chemical tank: 300L	Metering pump: 8L/h Chemical tank: 300L	Metering pump: 8L/h Chemical tank: 300L	Metering pump: 8L/h Chemical tank: 300L
Anti-bacterial (NaClO, ≈200ppm) for CEB ²	Metering pump:304L/h Chemical tank: 300L	Metering pump:304L/h Chemical tank: 300L	Metering pump:304L/h Chemical tank: 300L	Metering pump:304L/h Chemical tank: 300L	Metering pump:304L/h Chemical tank: 300L
Flocculant (FeCl ₃ ,200ppm) for CEB (optional)	Metering pump:304L/h Chemical tank: 300L	Metering pump:304L/h Chemical tank: 300L	Metering pump:304L/h Chemical tank: 300L	Metering pump:304L/h Chemical tank: 300L	Metering pump:304L/h Chemical tank: 300L
Installation					
Feed inlet	5" flange	5" flange	5" flange	5" flange	5" flange
Product outlet	5" flange	5" flange	5" flange	5" flange	5" flange
Drain	5" flange	5" flange	6" flange	6" flange	6" flange
Cross-flow outlet	2" flange	2" flange	2.5" flange	2.5" flange	2.5" flange
Backwash inlet	5" flange	5" flange	6" flange	6" flange	6" flange
CIP ³ /EFM inlet	4" flange	4" flange	5" flange	5" flange	5" flange
CIP/EFM outlet	4" flange	4" flange	5" flange	5" flange	5" flange
Air inlet	2.5" thread	3" thread	3" thread	3" thread	3" thread
Package for UF skid (without UF membranes, UF membranes are packed separately)					
Approx. Height	3000mm	3000mm	3000mm	3000mm	3000mm
Approx. Width	1700mm	1700mm	1700mm	1700mm	1700mm
Approx. Depth	5000mm	5000mm	5000mm	5500mm	5500mm
Approx. Shipping Weight	750kg	800kg	850kg	900kg	980kg
Package of UF					
Dimension / each	33×33×180cm	33×33×180cm	33×33×180cm	33×33×180cm	33×33×180cm
Weight / each	45kg	45kg	45kg	45kg	45kg
Membrane quantity	20	22	24	26	28
Options					
Disc filter (as pretreatment for UF; 100~200μm))	JY3-6	JY3-6	JY3-7	JY3-7	JY3-8
CIP/EFM system	CIP tank: 2000L CIP pump: 60m ³ /h@1~2bar CIP filter: HXP-BF-1-2-B (5μm)×2	CIP tank: 2000L CIP pump: 66m ³ /h@1~2bar CIP filter: HXP-BF-1-2-B (5μm)×2	CIP tank: 3000L CIP pump: 72m ³ /h@1~2bar CIP filter: HXP-BF-1-2-B (5μm)×2	CIP tank: 3000L CIP pump: 78m ³ /h@1~2bar CIP filter: HXP-BF-1-2-B (5μm)×2	CIP tank: 3000L CIP pump: 84m ³ /h@1~2bar CIP filter: HXP-BF-1-2-B(5μm)×2

Note: ¹ For the high quality feed water such as RO permeate water, the product water flux can be up to 9m³/h per membrane

² CEB= chemical enhanced backwash

³ CIP= cleaning in place; EFM= Enhanced Flux Maintenance;

CIP/EFM skid (tank, pump and filter) can be shared with Reverse Osmosis membranes cleaning system (if having)

WATER PURIFICATION TECHNOLOGIES

ACTUAL FEED WATER QUALITY AND SOURCES WILL DETERMINE THE ACTUAL SIZING. PLEASE EMAIL FOR FINAL SIZING AND PRICING TOGETHER WITH FEED WATER QUALITY AND PRODUCT WATER REQUIREMENTS TO: SALES@AGWTPHILINC.COM

