The Atlas+ Series is the most compact commercial system FCI has to offer. Built on the smaller, marine Max-Q+ platform, it has all the working benefits of its much larger, industrial Neptune+ sibling. The Atlas+ Series is capable of producing 1,400–3,600 GPD, and is upgradeable throughout the series. The Automated Pressure Control (APC) with manual override puts making pure fresh water, literally, a touch away. At the heart of the system is a durable wash-down duty, 5 HP motor and a robust 316 stainless steel high pressure pump that allow for extended run times. When installation space or generator size is limited, the Atlas+ Series truly encompasses the best of both pleasure boating and commercial worlds.

For nearly three decades, FCI Watermakers has been pioneering technologies and manufacturing the most reliable, trouble-free watermaking systems for the offshore and boating industries. Each unit is manufactured and live-tested in our facility. Your system comes with peace of mind, and a readily available customer service and technical support team. Our worldwide service network ensures proper maintenance, and unrivaled satisfaction.
**ATLAS+APC SYSTEM FEATURES:**

- **MOTORS:** TEFC continuous-duty washdown rated motors with 316SS shaft, and sealed maintenance-free bearings for long life applications.
- **LP FEED PUMP:** Closed impeller design offers 50% more pressure efficiency over standard pumps.
- **ELECTRICAL:** NEMA 4X rated enclosure.
- **HMI TOUCH SCREEN:** 7” High-resolution, Marine Grade and Bridge Certified.
- **OPEN FRAME DESIGN:** Allows easy visual inspection and access for maintenance.
- **FRESH WATER FLUSH:** Schedule automated flushes through the V4 Control.
- **MEMBRANES:** High Rejection non-proprietary membranes used to obtain the highest quality of product water.
- **AUTOMATIC PRESSURE CONTROL (APC):** Auto-adjusts system pressure to feed water conditions.
- **HIGH PRESSURE PUMP:** Extended-duty 316SS HP pump.
- **PRODUCT VESSELS:** 316 SS product/pressure ports, and FDA/NSF-51 fittings used on the product water.
- **SHOCK MOUNTS:** Installed on frame and motor to reduce noise and vibration.
- **PRE-FILTER:** 40 sq. ft. of pleated filter with PVC core in addition to pressure monitoring and alarming.

### DESIGN PARAMETERS

<table>
<thead>
<tr>
<th>Design Permeate Salinity:</th>
<th>&lt; 500ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salt Rejection (Chloride):</td>
<td>99.7%</td>
</tr>
<tr>
<td>Power:</td>
<td>4.47 kW</td>
</tr>
<tr>
<td>Control Voltage:</td>
<td>24 vdc</td>
</tr>
<tr>
<td>Operation Pressure:</td>
<td>825 PSI/56 Kg/cm²</td>
</tr>
</tbody>
</table>

### POWER SUPPLY OPTIONS

<table>
<thead>
<tr>
<th>VAC/Phase/Hz</th>
<th>Amperes</th>
</tr>
</thead>
<tbody>
<tr>
<td>208-220/3/60</td>
<td>16.7</td>
</tr>
<tr>
<td>440-460/3/60</td>
<td>8.5</td>
</tr>
<tr>
<td>380-415/3/50</td>
<td>10.5</td>
</tr>
</tbody>
</table>

### UTILITIES

- Inlet: 1” FNPT
- Brine: ½” Tube
- Product: ½” Tube
- FWF: ½” Tube

### MODEL

<table>
<thead>
<tr>
<th>MODEL</th>
<th>GPD/LPD</th>
<th>GPH/LPH</th>
<th>H</th>
<th>M3</th>
<th>RECOVERY RATE %</th>
<th>WEIGHT LBS/KG</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT14263+/ AT14263+APC</td>
<td>1,400 / 5,298</td>
<td>58 / 221</td>
<td>5</td>
<td>13</td>
<td>13</td>
<td>212 / 96.2</td>
</tr>
<tr>
<td>AT20263+/ AT20263+APC</td>
<td>2,000 / 7,568</td>
<td>83 / 315</td>
<td>8</td>
<td>19</td>
<td>19</td>
<td>226 / 102.5</td>
</tr>
<tr>
<td>AT25263+/ AT25263+APC</td>
<td>2,500 / 9,460</td>
<td>104 / 394</td>
<td>9</td>
<td>23</td>
<td>23</td>
<td>240 / 108.9</td>
</tr>
<tr>
<td>AT28263+/ AT28263+APC</td>
<td>2,800 / 10,595</td>
<td>117 / 441</td>
<td>11</td>
<td>26</td>
<td>26</td>
<td>326 / 147.9</td>
</tr>
<tr>
<td>AT36263+/ AT36263+APC</td>
<td>3,600 / 13,622</td>
<td>150 / 568</td>
<td>14</td>
<td>34</td>
<td>34</td>
<td>369 / 167.4</td>
</tr>
</tbody>
</table>

**NOTE:** Ratings based on 77°F/25°C; 35,000 TDS; <3 SDI; 7.5 pH; Free Chlorine max 0.1 mg/l.

### DIMENSIONS

- **FRAME WIDTH**
  - Frame Only: 31.60 in.
  - With Filter: 37.20 in.
  - With Membranes: 47.00 in.
  - 1400–2500 GPD
  - 3600 GPD Unit: 54.5 in.

- **FRAME DEPTH**
  - Frame Only: 18.20 in.
  - With Membranes: 22.50 in.

- **FRAME HEIGHT**
  - 20.50 in.

- **LP PUMP**
  - W: 6.9 in.
  - D: 3.5 in.
  - H: 9.1 in.

- **PRE-FILTER**
  - W: 11.1 in.
  - D: 9.6 in.
  - H: 19.0 in.

- **3600 PV ASSEMBLY**
  - Includes: 7 Pet Sels, 3 X 750 Watts, 5000 GPD Unit: 54.6 in.
  - W: 7.8 in.
  - D: 25.3 in.
Reverse Osmosis Watermaker
Technical Specifications

MANUFACTURE: FCI Watermakers, U.S.A

MODEL:
AT1426+ / AT1426+ APC
AT2026+ / AT2026+ APC
AT2526+ / AT2526+ APC
AT2826+ / AT2826+ APC
AT3626+ / AT3626+ APC
1. Design Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Output</td>
<td>GPD [LPD] 1400 - 3600 [5298-13622]</td>
</tr>
<tr>
<td>Permeate salinity, max</td>
<td>[TDS] &lt; 500</td>
</tr>
<tr>
<td>Salt Rejection (Chloride)</td>
<td>[%] 99.8</td>
</tr>
<tr>
<td>Design recovery rate</td>
<td>[%] 13-34</td>
</tr>
<tr>
<td>Operation Pressure</td>
<td>PSI [Kg/cm²] 825 [56]</td>
</tr>
<tr>
<td>Sea Water Data</td>
<td></td>
</tr>
<tr>
<td>- Total Dissolved Solids/ TDS</td>
<td>[mg/l] max. 40000</td>
</tr>
<tr>
<td>- Silt Density Index/ SDI</td>
<td>max. 3</td>
</tr>
<tr>
<td>- Temperature Range</td>
<td>F [°C] 5-95 (3-45)</td>
</tr>
<tr>
<td>- Free Chlorine</td>
<td>mg/l max. 0.1</td>
</tr>
<tr>
<td>- Sea water design salinity</td>
<td>ppm 32,000</td>
</tr>
<tr>
<td>- Sea water flow (normal operation)</td>
<td>GPM 7.4</td>
</tr>
<tr>
<td>- Sea water supply pressure</td>
<td>PSI [bar] &gt;1</td>
</tr>
<tr>
<td>- pH-value:</td>
<td>3-11, typical 7.5</td>
</tr>
<tr>
<td>Weight</td>
<td>LBS[kG] 212-369 [96.2-167.4].</td>
</tr>
<tr>
<td>Frame Dimensions</td>
<td></td>
</tr>
<tr>
<td>Width</td>
<td>[in] 31.60</td>
</tr>
<tr>
<td>Depth</td>
<td>[in] 18.20</td>
</tr>
<tr>
<td>Height</td>
<td>[in] 20.50</td>
</tr>
<tr>
<td>Frame with vessels</td>
<td></td>
</tr>
<tr>
<td>Width</td>
<td>[in] 47.00</td>
</tr>
<tr>
<td>Depth</td>
<td>[in] 22.50</td>
</tr>
<tr>
<td>Height</td>
<td>[in] 20.50</td>
</tr>
<tr>
<td>Water Connections</td>
<td></td>
</tr>
<tr>
<td>Inlet</td>
<td>1&quot; hose</td>
</tr>
<tr>
<td>Brine</td>
<td>5/8&quot; tubing compression fitting</td>
</tr>
<tr>
<td>Product</td>
<td>1/2&quot; tubing compression fitting</td>
</tr>
<tr>
<td>Fresh water flush</td>
<td>1/2&quot; tubing compression fitting</td>
</tr>
</tbody>
</table>

2. Description of Supply Scope:

Each Framed Watermaker includes

2.1 Low-pressure Pump

Material: 316SS head with ½ HP washdown duty motor with 316SS shaft
Pressure head: 35 PSI
Power consumption: 1 HP
inlet/outlet: 1" x 1" NPT

2.2 Pre-Filter Assembly

1 commercial filter housing, 5 micron cartridge, 40-sq.ft

2.3 High Pressure Pump with Motor

316SS Direct Drive High-pressure plunger pump (positive displacement pump) w/ 5 HP TEFC washdown duty motor.
Capacity: 7.4 / 28 GPM / LPM
Pressure head: 69 bar
Power consumption: 2.24 kW
2.4 Permeators and Pressure vessels
1, 2 or 3 Spiral wound membranes with thin film composite membranes fitted into pressure vessels mounted on the frame
- Membrane type: 2.5" x 40" / 4 x40
- Max operating pressure: 69 bar
- Max operating temperature: 45 °C
- Permeate piping: Poly Tubing

Materials
- Permeators: polyester / polysulfone / polyamide
- Pressure Vessels: GRP

2.5 Piping and accessories
High-pressure Tubing made of R100 HP hose w/316SS JIC reusable hose ends. Low pressure piping made of poly tubing and sch 80 PVC

All piping completely assembled including fittings, process valves, locally mounted gauges etc.

2.6 V4 HMI Control System
The V4 control systems is the most advanced watermaker controllers with FCI’s patented technology featuring:

- Type Approved 7" High Resolution Touch Screen Interface
- All Displays are Type Approval Certified for marine use by: ABS, GL, Lloyd’s Register, EMEA, Det Norske Veritas, and Russian Maritime Register of Shipping.
- NMEA 2000 compatible
- Unique IP address for remote access
- Built-in, on-screen troubleshooting and manual

Control Alarms:
- Low pressure fault
- High pressure fault
- Automatic low quality salinity diverts
- Production beyond rated capacity

Control Features:
- Stage start
- Motor contactors
- Automatic salinity control
- Automatic fresh water flush
- Programmable fresh water flush for unattended flushing
- Programmable start time
- Programmable production capacity for making a predetermined quantity of water
- Programmable to run for a specified amount of time.
- Fully automatic operation (with APC option)
- NMEA compatible

System Control Panel
- Low pressure transducer
- High pressure transducer
- Product flow sensor
- Brine flow sensor
2.7 **Loose Supply**:
Installation Kit: included with necessary tubing and connection fittings needed to install the Watermaker on most standard installations. Additional tubing may be needed on some installations. The industry’s most comprehensive complete installation, operation and maintenance manual

2.8 **Optional Equipment and Accessories**
- DTS, Dockside Treatment System Compatible
- Bridge classified 4.3” or 7” remote touch control station
- pH neutralizer filter
- Cruising kits
- UV sterilizers
- Feed water pressure regulators, relief valves
- Automated and manual Media Filters
- System soft start

**Shipyard Supply**:
- Minimum of a 1” Inlet Thru Hull Fitting with Forward Facing Scoop and 1” Shut-off Valve
- Minimum of a ¾” Thru-Hull Discharge Fitting and All Pipings and Fittings
- Minimum of a 1” Sea Strainer
- Potable Water Storage Tank
- Line voltage wire, panel breaker, miscellaneous wire and connectors. (standard parts)

3. **Technical Service**
Available upon request. Per diem charges will apply.

4. **Technical Document**
The industry’s most comprehensive complete installation, operation and maintenance manual
Also available for download upon request

5. **Warranty**:
One year from date of start up or 18 months from invoice date, whichever is earlier.
Atlas+APC 2500 GPD

2 DIMENSIONS & WEIGHTS SUBJECT TO CHANGE WITHOUT NOTICE

2 DRY WEIGHT APPROX. 240 LBS / 108.9 KG

DIMENSIONS & WEIGHTS SUBJECT TO CHANGE WITHOUT NOTICE

DRY WEIGHT APPROX. 240 LBS / 108.9 KG

47.1 in
1196.3 mm

20.5 in
520.9 mm

22.5 in
572.1 mm

208 x 208 ANGLES

500 x 500 ANGLES

47.1 in
1196.3 mm

20.5 in
520.9 mm

22.5 in
572.1 mm
2 DRY WEIGHT APPROX. 326 LBS / 147.9 KG
1 DIMENSIONS & WEIGHTS SUBJECT TO CHANGE WITHOUT NOTICE

24.6 in 624.6 mm
20.5 in 520.9 mm
54.5 in 1385.4 mm

DIMENSIONS & WEIGHTS SUBJECT TO CHANGE WITHOUT NOTICE
DIMENSIONS & WEIGHTS SUBJECT TO CHANGE WITHOUT NOTICE

1. DRY WEIGHT APPROX. 369 LBS / 167.4 KG

2. DIMENSIONS & WEIGHTS SUBJECT TO CHANGE WITHOUT NOTICE

20.5 in
520.9 mm

18.3 in
465.2 mm

25.5 in
647.7 mm

7.8 in
198.6 mm

20.5 in
520.9 mm

18.3 in
465.2 mm

25.5 in
647.7 mm

7.8 in
198.6 mm

Atlas+APC 3600 GPD

AT36263+APC

FILTRATION CONCEPTS INC.
TEL (801)906-8840
FAX (801)883-9985
WWW.FCIWATERMAKERS.COM

DRAWD BY: MARK
DESN #: 300-A-003
SCALE: 1/16

20.5 in
520.9 mm

18.3 in
465.2 mm

25.5 in
647.7 mm

7.8 in
198.6 mm
GENERAL CONNECTION DIAGRAM

- **ATLAS+ FRAME**
- **PRODUCT WATER TANK**
- **LOW PRESSURE PUMP**
- **SEA STRAINER** (SHIPS SUPPLY)
- **3/4" SEA COCK** (OWNER SUPPLIED)
- **INSTALL BRINE DISCHARGE FITTINGS ABOVE SEA LEVEL**

**System Components:**
- **Post Treatment**
  - **CHARCOAL FILTER (GAC, OPTIONAL)**
  - **CHECK VALVE (SHIPS SUPPLY)**
  - **ULTRAVIOLET (OPTIONAL)**
  - **BLAZER TANK (SHIPS SUPPLY)**
- **LOW PRESSURE PUMP**
- **SEA STRAINER** (SHIPS SUPPLY)
- **3/4" SEA COCK** (OWNER SUPPLIED)

**Installation Notes:**
- **INSTALL BRINE DISCHARGE FITTINGS ABOVE SEA LEVEL**

**Connections:**
- **3/4" SEA COCK** (OWNER SUPPLIED)
- **SEA STRAINER** (SHIPS SUPPLY)
- **LOW PRESSURE PUMP**

**General Notes:**
- **DIMENSIONS ARE IN INCHES**
- **TOLERANCES ARE DECIMALS**
- **.X : .030 1/16**
- **.XX : .010**
- **.XXX : .005 1"**

**Revisions:**
- **A** Production Release 1/26/17

**Approval Notes:**
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FILTRATION CONCEPTS INC.
TEL (801)906-8840
FAX(801)883-9985
WWW.FCIWATERMAKERS.COM

Atlas+ Frame General Connection Diagram

1/2" PE FITTING

FRESH WATER FLUSH SUPPLY

FRESH WATER FLUSH DISCHARGE

BRINE DISCHARGE

PRODUCT DISCHARGE

OIL DRAIN

DIMENSIONS ARE IN INCHES
TOLERANCES ARE DECIMALS                    FRACTIONS
.030                           1/16
.010                       ANGLES
.005                         1

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B

A

A

B

A
DIMENSIONS & WEIGHTS SUBJECT TO CHANGE WITHOUT NOTICE

- **Dry weight approx.** 7 lbs / 3.2 kg
- **Dimensions & weights subject to change without notice**

**Dimensions:**
- 10.0 in (254.1 mm)
- 11.0 in (279.5 mm)
- 5.0 in (127.4 mm)

**Weights:**
- Dry weight approx. 7 lbs / 3.2 kg

**Notes:**
- Dimensions and weights are subject to change without notice.
LEGEND

- CHECK VALVE
- BALL VALVE
- 2 WAY BALL VALVE
- 2 WAY SOLENOID VALVE
- 3 WAY SOLENOID VALVE
- MANUAL NEEDLE VALVE
- AUTO NEEDLE VALVE
- FLOW METER
- PRESSURE GAUGE

TYPICAL SHIP'S FRESH WATER SYSTEM
ITEMS TO BE PROVIDED BY BUILDER

- CHECK VALVE
- BALL VALVE
- 2 WAY BALL VALVE
- 2 WAY SOLENOID VALVE
- 3 WAY SOLENOID VALVE
- MANUAL NEEDLE VALVE
- AUTO NEEDLE VALVE
- FLOW METER
- PRESSURE GAUGE
TERMS AND CONDITIONS OF SALE

Order Acceptance: Orders are considered firm and non-cancelable once issued in writing and accepted by Filtration Concepts Inc. (FCI). The entire quotation or proposal will be considered a contract with the buyer once the order has been placed and accepted. FCI is not responsible for typographical or other good faith errors in proposals or quotations. Any changes to any part of FCI proposals must be accepted in writing by FCI to be valid. FCI reserves the right to make improvements to the system design and to substitute equal or better materials or components as may be required to affect a timely delivery. Any customer requested changes made after order acceptance will be subject to “Change Order Terms” as detailed below.

Change Order Fees: Any changes made to the system specifications, design, layout, operating parameters, components, quantities or other changes entailing additional costs for FCI after placement of the order are subject to change fees. Any “Change Orders” must be in writing and subject to additional charge. These change fees will be quoted at the time of the request for a change and must be agreed to in writing prior to making the change in the drawings or the system. When the change is agreed to in writing it shall become a binding part of the order. All change fees must be paid within 30 days after the change order is effective, but prior to the time of shipment.

Delivery Date Conditions: FCI will deliver the equipment (present the equipment completed and ready for pick up by the freight carrier) the quoted delivery time from the receipt of the order together with the non-refundable deposit. This delivery time is subject to change up till order acceptance due to workload and availability of materials. The delivery time does not start counting with the issue of the order, but rather when it, along with the non-refundable deposit are received in approved form by FCI. FCI is not responsible for delays in performance due to flood, fire, strike, or other labor difficulty, act of God, act of governmental authority or of the purchaser, earthquake, riot, fuel or energy shortage, accidents, delay in transportation, inability to obtain necessary labor, materials or manufacturing facilities or output from the usual source or due to any other cause beyond its reasonable control.

L/C Terms: If using an L/C, the L/C must be irrevocable, confirmed by a major U.S. bank, and all terms, conditions, F.O.B. point, schedule of payments, delivery date and expiration date, documentation required, and other important conditions must be approved by FCI. It is therefore advised that a draft of proposed terminology and conditions be faxed to FCI prior to opening the L/C in order to avoid unnecessary delays and amendment costs, which would be for the account of the purchaser.

Wire Transfers: Payments via wire transfers must arrive at FCI’s bank in full. All charges outside FCI’s bank are the responsibility of the purchaser. When the purchaser’s bank uses an intermediary bank to send the funds, the intermediary bank’s charges are the responsibility of the purchaser. FCI is responsible only for the charges imposed by FCI’s bank. Contact FCI, for wire transfer routing instructions.

Past Due Accounts: The purchaser agrees to pay all amounts when due. In the event of late payments, the purchaser agrees to pay interest at the rate of 1.5% on all past due amounts until paid. The purchaser also agrees to pay attorney’s fees or other collection costs required to obtain any payments not remitted when due. No performance, including deliveries or warranties, shall be required from FCI unless the account is current.

Shipping: All FCI products are offered Ex-Works Factory, West Valley City, Utah, or other FCI location. All shipping costs, including local ground transportation from the factory to the port, transfer fees, loading fees, documentation fees, etc., are the responsibility of the purchaser. FCI will assist in arranging transportation at favorable rates.