Series FS7-4
Industrial Liquid Flow Switch

OPERATION
This control is an independently mounted water flow sensing device that makes or breaks an electrical circuit when flow stops or starts.

WARNING
- Before using product, read and understand instructions.
- Save these instructions for future reference.
- All work must be performed by qualified personnel trained in the proper application, installation, and maintenance of plumbing, steam and electrical equipment and/or systems in accordance with all applicable codes and ordinances.
- To prevent electrical shock, turn off the electrical power before making electrical connections.
- To prevent an electrical fire or equipment damage, electrical wiring insulation must have a rating of 167°F (75°C) if the liquid’s temperature exceeds 180°F (82°C).
- To prevent electrocution, when the electrical power is connected to the flow switch, do not touch the terminals.
- Make sure flow switch electrical cover is secured before turning on electric power.
- Liquid media containing debris or other particulates should be filtered to avoid damage to or obstruction of the Flow Switch paddle arm assembly, which could cause the Flow Switch to malfunction.

Failure to follow this warning could cause property damage, personal injury or death.
SPECIFICATIONS

Maximum Liquid Pressure:
300 psi (21 kg/cm²) (*All models except “S”*)
1000 psi (70 kg/cm²) (*“S” models*)

Liquid Temperature Range (Tl):
32 - 300°F (0 - 149°C) (*All models except “W”*)
-65 - 300°F (-54 - 149°C) (*“W” models*)

Ambient Temperature Range (Ts):
32 - 120°F (0 - 49°C) (*All models except “W”*)
-65 - 300°F (-54 - 149°C) (*“W” models*)

Electrical Enclosure Rating:
Nema Type 1 (IP 21) (*All models except “E” and “W”*)
Nema Type 4X (IP 56) (*“W” models*)
Nema Type 7 and 9 (*“E” models*)

Maximum Velocity:
10ft/sec (3M/sec)

Pipe Connection Thread Size:
1 1/4” NPT (*All models except “J”*)
1 1/4” BSPT (*“J” models*)

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ELECTRICAL RATINGS

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Motor Switch Rating (Amperes)</th>
<th>Pilot Duty</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Full Load</td>
<td>Locked Rotor</td>
</tr>
<tr>
<td>120 VAC</td>
<td>7.4</td>
<td>44.4</td>
</tr>
<tr>
<td>240 VAC</td>
<td>3.7</td>
<td>22.2</td>
</tr>
</tbody>
</table>
Flow rates required to activate the flow switch are shown in chart below. These values were calculated using clean water in a horizontal pipe.

### Flow Rates

<table>
<thead>
<tr>
<th>Model</th>
<th>Size NPT in. (mm)</th>
<th>Settings</th>
<th>Mode of Operation</th>
<th>Value gpm (lpm)</th>
<th>Value gpm (lpm)</th>
<th>Max. Flow Rate gpm (lpm) w/o Paddle Damage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4 (32)</td>
<td>Factory or Minimum</td>
<td>4.8 (18.2)</td>
<td>3 (11.4)</td>
<td>47 (178)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>7.7 (29.1)</td>
<td>5.9 (22.3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2 (40)</td>
<td>Factory or Minimum</td>
<td>6.3 (23.8)</td>
<td>3.6 (13.6)</td>
<td>63 (239)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>10 (37.9)</td>
<td>7 (26.5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 (50)</td>
<td>Factory or Minimum</td>
<td>9.9 (37.5)</td>
<td>5.9 (22.3)</td>
<td>105 (398)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>15.8 (59.8)</td>
<td>11 (41.5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21/2 (60)</td>
<td>Factory or Minimum</td>
<td>15.3 (57.9)</td>
<td>9.5 (36)</td>
<td>149 (565)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>23.7 (89.7)</td>
<td>17 (64.3)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>3 (80)</td>
<td>Factory or Minimum</td>
<td>24.4 (92.4)</td>
<td>15.4 (56.3)</td>
<td>230 (872)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>35.5 (134.4)</td>
<td>29.2 (110.5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 (100)</td>
<td>Factory or Minimum</td>
<td>33.3 (126)</td>
<td>21.1 (79.9)</td>
<td>397 (1505)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>61.4 (232.4)</td>
<td>37.9 (142.7)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 (125)</td>
<td>Factory or Minimum</td>
<td>44.4 (168.1)</td>
<td>31 (117.3)</td>
<td>654 (2479)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>84 (317.9)</td>
<td>51 (193)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 (150)</td>
<td>Factory or Minimum</td>
<td>56.3 (213.1)</td>
<td>48.7 (184.3)</td>
<td>900 (3411)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>114.8 (434.5)</td>
<td>71 (270.5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 (200)**</td>
<td>Factory or Minimum</td>
<td>104 (383.6)</td>
<td>89 (335.9)</td>
<td>1,500 (5,677.6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>219 (794.9)</td>
<td>131 (495.8)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>10 (250)**</td>
<td>Factory or Minimum</td>
<td>184 (686.4)</td>
<td>157 (594.2)</td>
<td>2,500 (9,462.5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>389 (1,437)</td>
<td>231 (847.3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 (300)**</td>
<td>Factory or Minimum</td>
<td>299 (1,094)</td>
<td>247 (934.9)</td>
<td>3,500 (13,247.5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>582 (2,203)</td>
<td>363 (1,374)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>14 (355)**</td>
<td>Factory or Minimum</td>
<td>387 (1,465)</td>
<td>323 (1,213)</td>
<td>4,000 (15,140)</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>753 (2,850)</td>
<td>495 (1,874)</td>
<td></td>
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<td></td>
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<tr>
<td>16 (405)**</td>
<td>Factory or Minimum</td>
<td>513 (1,942)</td>
<td>428 (1,620)</td>
<td>5,000 (18,925)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>998 (3,777)</td>
<td>656 (2,483)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS7-4L</td>
<td>20 (500)**</td>
<td>520 (1,968)</td>
<td>260 (984)</td>
<td>8,000 (30,280)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>780 (2,952)</td>
<td>693 (2,623)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24 (600)**</td>
<td>Factory or Minimum</td>
<td>752 (2,846)</td>
<td>376 (1,423)</td>
<td>12,000 (45,420)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>1128 (4,269)</td>
<td>1002 (3,793)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30 (760)**</td>
<td>Factory or Minimum</td>
<td>1177 (4,455)</td>
<td>589 (2,229)</td>
<td>20,000 (76,457)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>1786 (6,684)</td>
<td>1570 (5,984)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>36 (910)**</td>
<td>Factory or Minimum</td>
<td>1723 (6,522)</td>
<td>861 (3,259)</td>
<td>28,270 (107,002)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>2584 (9,870)</td>
<td>2297 (8,654)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Values are ± 10%.

* Equipped with a 6" (152mm) paddle
** Equipped with a 12" (304mm) paddle
INSTALLATION –

STEP 1 - Paddle Sizing

Pipe size determines the paddle length. Use the chart below to choose the correct paddle size for your installation.

<table>
<thead>
<tr>
<th>Pipe size</th>
<th>Paddle To Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>in. (mm)</td>
<td></td>
</tr>
<tr>
<td>1-1/4&quot; (32)</td>
<td>1&quot; Paddle</td>
</tr>
<tr>
<td>1-1/2&quot; (40)</td>
<td>1&quot; Paddle</td>
</tr>
<tr>
<td>2&quot; (50)</td>
<td>6&quot; Paddle Trimmed to 2</td>
</tr>
<tr>
<td>2-1/5&quot; (65)</td>
<td>6&quot; Paddle Trimmed to 2</td>
</tr>
<tr>
<td>3&quot; (80)</td>
<td>6&quot; Paddle Trimmed to 3</td>
</tr>
<tr>
<td>4&quot; (100)</td>
<td>6&quot; Paddle Trimmed to 4</td>
</tr>
<tr>
<td>6&quot; (150)</td>
<td>6&quot; Paddle</td>
</tr>
<tr>
<td>8&quot; (200) to 16&quot; (405)</td>
<td>6&quot; Paddle</td>
</tr>
<tr>
<td>20&quot; (500) to 36&quot; (910)</td>
<td>12&quot; Paddle</td>
</tr>
</tbody>
</table>

Note: 12" paddle will only fit on 'L' model units.

a. Trim paddle by cutting at appropriate notch with non-serrated tin snips.

b. The paddle length can be adjusted if the desired setpoint exceeds the maximum adjustment as shown in flow rate chart. Use the following formula to change the paddle length.

\[
Paddle \ Length = \frac{K}{Flow \ Rate \ (GPM)}
\]

NOTE: If trimming the paddle for a no-flow action make sure there is enough flow to activate switch.
STEP 2 - Determine the Location of the Flow Switch

• The flow switch **must be located in a horizontal section of pipe** where there is a straight horizontal run of at least 5 pipe diameters on each side of the flow switch.

• The flow switch **must be installed in the upright position** as shown with arrow mark on side of casting in the same direction as fluid will flow.

• Some system conditions that require more than 5 pipe diameters are high viscosity fluid and high fluid velocity.

• The flow switch must be installed in the pump suction piping when spring-loaded check valves and/or other close coupled accessories are installed in the pump discharge piping.

a. The flow switch must be installed in the pipe using a threaded tee connection or welding fitting of minimum length such as a half coupling. Use a face or hex bushing to reduce the tee outlet to 1 1/4" pipe thread if a reduced tee outlet thread size fitting is not available.

b. When installing brazed/soldered copper pipe, size the threaded adapter to ensure the paddle arm extends into the main run of the pipe
STEP 3 - Connecting the Flow Switch to Pipe

a. Insert the 8/32 x 1/4” flathead screw through washer and paddle. Attach screw to opposite side of the paddle arm’s curve and tighten to a torque of approximately 12-16 lb•in (1.36-1.81 N•m).

NOTE: Follow the same procedure while replacing the paddle arms.

b. Apply pipe sealing compound or PTFE tape to the flow switch pipe threads.

NOTE: Do not apply sealant to first threads as this switch is grounded (earthed) via the pipe mounting.

c. Insert the flow switch into the pipe tee. Turn the flow switch two (2) or three (3) revolutions clockwise until tight. Do not put excessive force on cover when turning.

d. Place a 1 3/4” open end box wrench on flow switch body to tighten to final position. Final position is with arrow on body aligned in the same direction as liquid flow.
STEP 4 - Electrical Installation

**WARNING**

- To prevent electrical shock, turn off the electrical power before making electrical connections.
- To prevent an electrical fire or equipment damage, electrical wiring insulation must have a rating of 167°F (75°C) if the liquid's temperature exceeds 180°F (82°C).
- To prevent electrocution, when the electrical power is connected to the flow switch, do not touch the terminals.
- Make sure flow switch electrical cover is secured before turning on electric power.

Failure to follow this warning could cause property damage, personal injury or death.

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a. Cover Removal and Installation Procedure

For FS7-4 models with NEMA 1 Enclosure

- Using a flathead screwdriver, loosen but do not remove the two cover screws and remove the cover (A).
- Place the cover on the flow switch sliding the slots behind the two loose cover screws. Push the cover down into the flow switch and using a flat blade screwdriver, tighten the cover screws to a torque of 10 lb•in (1.13 N•m).

For FS7-4W & FS7-E models

- Using a 5/16" socket wrench, unscrew the six bolts that secure the switch housing and remove cover.
- FS7-4W models have gasket that needs to be removed and replaced.
- Place cover on flow switch and use 5/16" socket wrench to tighten the six bolts to 5 ft•lb (7 N•m) torque.
b. Electrical Conduit Connection
- Connect electric conduit to flow switch electrical enclosure.
- Follow accepted electrical practices when installing fittings and making connections.
- Refer to and follow local codes and standards when selecting the types of electrical fittings and conduit to connect to flow switch.

c. Determine which switch action is required for the flow switch.
- "Flow" means that the switch will close circuit C.-N.O. and open circuit C.-N.C. when flow rate is increased above setpoint of flow switch.
- "No Flow" means that the switch will open circuit C.-N.O. and close circuit C.-N.C. when flow rate is decreased below setpoint of flow switch.
d. Based upon the mode of operation ("Flow" or "No-Flow") required, complete the appropriate steps to connect wires to flow switch. Use a Phillip's head screwdriver to loosen and tighten switch terminal screws when attaching wires.

**For "Flow" Mode of Operation (Fig. 1)**
If the flow switch will be used to actuate a signal, alarm or other device when *flow* occurs, connect the wire from that device to the "N.O." contact. Connect the "Hot" power supply wire to "C" terminal.

**For "No Flow" Mode of Operation (Fig. 2)**
If the flow switch will be used to actuate a signal, alarm or other device when *no flow* occurs, connect the wire from that device to the "N.C." contact. Connect the "Hot" power supply wire to "C" terminal.

**NOTE:** Repeat above to connect wires to second switch on "D" model flow switches.

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**STEP 5 - Testing**

a. Place cover on flow switch and turn on power. Initiate fluid flow through the system. Observe the device being activated by the flow switch to determine if device is operating as required.

b. Turn off fluid flow to determine if device is operating as required.

c. Repeat initiating and turning off fluid flow several times to test flow switch and device for proper operation.
   - If operating as required, put system into service.
   - If not operating as required, flow switch may need to be adjusted.
STEP 6 - Adjustment

Adjustment is necessary only if required flow/no flow setpoints are above factory set minimum.

a. Unscrew housing cap (A) using a flathead screwdriver.
b. Turn the adjusting screw (B) clockwise to increase setpoint.

**IMPORTANT:** Do not attempt to lower flow switch setpoint from original factory minimum setting. Lowering (turning adjusting screw counterclockwise) the setpoint from original factory setting may cause erratic flow switch operation.

c. Replace housing cap (A) and tighten to approximately 11 ft-lb (15 N•m) torque.
d. Test the operation of the flow switch after each adjustment.

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**CAUTION**

- These screws are for factory adjustment only.
- Adjusting these screws in the field can cause the flow switch to become inoperative.
MAINTENANCE

SCHEDULE:

- Inspect paddles annually. Turbulent or high flow velocity conditions may require more frequent inspection and/or replacement.
- Replace paddles if damaged or showing signs of wear.
- Replace flow switch every 5 years or 100,000 cycles, whichever occurs first.

TROUBLESHOOTING

Problem:

1. Flow Switch Does Not Operate
   Solution:
   a. Make sure power has been turned on to device and flow switch.
   b. Verify that flow rate is high enough for flow switch to activate. Measure flow rate and match with velocities shown in flow rate chart.
   c. Check to see if paddle moves freely. Some system piping disassembly may be required.

2. Flow Switch Operates Erratically
   Solution:
   a. Flow switch may be located in an area of high turbulence causing paddles to flutter.
   b. Adjustment screw may have been turned below original factory setpoint. Verify that flow rate is high enough for flow switch to activate. Measure flow rate and match with velocities shown in flow rate chart.
   c. Check to see if paddle moves freely. Some system piping disassembly may be required.

3. Flow Switch Does Not Deactivate
   Solution:
   a. Check to see if paddle moves freely. Some system piping disassembly may be required.
   b. Measure flow rate and match with velocities shown in flow rate chart. Flow switch must prove flow before it can indicate no flow.
COMMERCIAL WARRANTY

Warranty. For goods sold to commercial buyers, Seller warrants the goods sold to Buyer hereunder (with the exception of membranes, seals, gaskets, elastomer materials, coatings and other “wear parts” or consumables all of which are not warranted except as otherwise provided in the quotation or sales form) will be (i) be built in accordance with the specifications referred to in the quotation or sales form, if such specifications are expressly made a part of this Agreement, and (ii) free from defects in material and workmanship for a period of one (1) year from the date of installation or two (2) years from the date of manufacture, whichever shall occur first, unless a longer period is specified in the product documentation (the “Warranty”).

Except as otherwise required by law, Seller shall, at its option and at no cost to Buyer, either repair or replace any product which fails to conform with the Warranty provided Buyer gives written notice to Seller of any defects in material or workmanship within ten (10) days of the date when any defects or non-conformance are first manifest. Under either repair or replacement option, Seller shall not be obligated to remove or pay for the removal of the defective product or install or pay for the installation of the replaced or repaired product and Buyer shall be responsible for all other costs, including, but not limited to, service costs, shipping fees and expenses. Seller shall have sole discretion as to the method or means of repair or replacement. Buyer’s failure to comply with Seller’s repair or replacement directions shall terminate Seller’s obligations under this Warranty and render the Warranty void. Any parts repaired or replaced under the Warranty are warranted only for the balance of the warranty period on the parts that were repaired or replaced. Seller shall have no warranty obligations to Buyer with respect to any product or parts of a product that have been: (a) repaired by third parties other than Seller or without Seller’s written approval; (b) subject to misuse, misapplication, neglect, alteration, accident, or physical damage; (c) used in a manner contrary to Seller’s instructions for installation, operation and maintenance; (d) damaged from ordinary wear and tear, corrosion, or chemical attack; (e) damaged due to abnormal conditions, vibration, failure to properly prime, or operation without flow; (f) damaged due to a defective power supply or improper electrical protection; or (g) damaged resulting from the use of accessory equipment not sold or approved by Seller. In any case of products not manufactured by Seller, there is no warranty from Seller; however, Seller will extend to Buyer any warranty received from Seller’s supplier of such products.

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Warranty. For goods sold for personal, family or household purposes, Seller warrants the goods purchased hereunder (with the exception of membranes, seals, gaskets, elastomer materials, coatings and other “wear parts” or consumables all of which are not warranted except as otherwise provided in the quotation or sales form) will be free from defects in material and workmanship for a period of one (1) year from the date of installation or two (2) years from the product date code, whichever shall occur first, unless a longer period is provided by law or is specified in the product documentation (the “Warranty”).

Except as otherwise required by law, Seller shall, at its option and at no cost to Buyer, either repair or replace any product which fails to conform with the Warranty provided Buyer gives written notice to Seller of any defects in material or workmanship within ten (10) days of the date when any defects or non-conformance are first manifest. Under either repair or replacement option, Seller shall not be obligated to remove or pay for the removal of the defective product or install or pay for the installation of the replaced or repaired product and Buyer shall be responsible for all other costs, including, but not limited to, service costs, shipping fees and expenses. Seller shall have sole discretion as to the method or means of repair or replacement. Buyer’s failure to comply with Seller’s repair or replacement directions shall terminate Seller’s obligations under this Warranty and render this Warranty void. Any parts repaired or replaced under the Warranty are warranted only for the balance of the warranty period on the parts that were repaired or replaced. The Warranty is conditioned on Buyer giving written notice to Seller of any defects in material or workmanship of warranted goods within ten (10) days of the date when any defects are first manifest.

Seller shall have no warranty obligations to Buyer with respect to any product or parts of a product that have been: (a) repaired by third parties other than Seller or without Seller’s written approval; (b) subject to misuse, misapplication, neglect, alteration, accident, or physical damage; (c) used in a manner contrary to Seller’s instructions for installation, operation and maintenance; (d) damaged from ordinary wear and tear, corrosion, or chemical attack; (e) damaged due to abnormal conditions, vibration, failure to properly prime, or operation without flow; (f) damaged due to a defective power supply or improper electrical protection; or (g) damaged resulting from the use of accessory equipment not sold or approved by Seller. In any case of products not manufactured by Seller, there is no warranty from Seller; however, Seller will extend to Buyer any warranty received from Seller’s supplier of such products.

THE FOREGOING WARRANTY IS PROVIDED IN PLACE OF ALL OTHER EXPRESS WARRANTIES. ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE (1) YEAR FROM THE DATE OF INSTALLATION OR TWO (2) YEARS FROM THE PRODUCT DATE CODE, WHICHERSOEVER SHALL OCCUR FIRST. EXCEPT AS OTHERWISE REQUIRED BY LAW, BUYER’S EXCLUSIVE REMEDY AND SELLER’S AGGREGATE LIABILITY FOR BREACH OF ANY OF THE FOREGOING WARRANTIES ARE LIMITED TO REPAIRING OR REPLACING THE PRODUCT AND SHALL IN ALL CASES BE LIMITED TO THE AMOUNT PAID BY THE BUYER FOR THE DEFECTIVE PRODUCT. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY OTHER FORM OF DAMAGES, WHETHER DIRECT, INDIRECT, LIQUIDATED, INCIDENTAL, CONSEQUENTIAL, PUNITIVE, EXEMPLARY OR SPECIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF PROFIT, LOSS OF ANTICIPATED SAVINGS OR REVENUE, LOSS OF INCOME, LOSS OF BUSINESS, LOSS OF PRODUCTION, LOSS OF OPPORTUNITY OR LOSS OF REPUTATION.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

To make a warranty claim, check first with the dealer from whom you purchased the product or call +1-847-966-3700 for the name and location of the nearest dealer providing warranty service.

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