Hunter Product Written Specification (PS Ultra)

**Part 1 – General**

* 1. General Description of Product and Function

The Hunter PS Ultra is a slim-line spray pop-up, and is available in 2”, 4”, and 6” models. Its sleek but durable body incorporates a reliable two-piece ratchet, sturdy cap, male-threaded riser, and large filter screen, providing double filtration on 4” and 6” models. A check valve is available as a user-installed spare part for PS Ultra models with the large filter screen. Standard PS Ultra models come with a pre-installed Precision Distribution Control™ adjustable nozzle. The full range of nozzle options for the PS Ultra includes the 8A, 10A, 12A, 15A, and 17A, as well as the 5’ x 30’ side strip, which is available on 2” and 4” models only. The flush plug version is also available and comes without a nozzle or filter screen. The PS Ultra comes in a variety of sizes and pre-inserted nozzle options to provide a convenient, effective solution for an array of residential applications.

**Part 2 – Parts and Material**

1. The PS Ultra shall be available in the following options:

|  |  |  |
| --- | --- | --- |
| 2 in (5 cm) PSU | 4 in (10 cm) PSU | 6 in (15 cm) PSU |
| PSU-02 (flush plug, no large filter) | PSU-04 (flush plug, no large filter) | PSU-06 (flush plug, no large filter) |
| PSU-02-8A | PSU-04-8A | PSU-06-8A |
| PSU-02-10A | PSU-04-10A | PSU-06-10A |
| PSU-02-12A | PSU-04-12A | PSU-06-12A |
| PSU-02-15A | PSU-04-15A | PSU-06-15A |
| PSU-02-17A | PSU-04-17A | PSU-06-17A |
| PSU-02-5SS | PSU-04-5SS |  |

PSU-04 models are available without the large filter screen, specified as PSU-04-NFO (Nozzle Filter Only).

1. Cap
2. The PS Ultra cap is made of a black, UV resistant, ABS material.
3. Body
4. The PS Ultra body is made of a black, UV resistant, ABS material.
5. Seal
   1. The PS Ultra body cap seal is made of an antimicrobial santoprene material mix.
6. Riser
7. The PS Ultra riser is made of a black, UV resistant, ABS material.
8. Large Filter Screen
   1. The large filter screen included in 4 in (10 cm) and 6 in (15 cm) pre-inserted nozzle models assembles into the riser.
   2. The user-installed check valve assembles into the filter screen.
   3. The filter screen is made of a polyethylene material.
9. Nozzle Options
10. Adjustable nozzles: 8A, 10A, 12A, 15A, 17A
11. Fixed arc nozzle: SS30
12. Flush plug for easy system flushing
13. Check Valve Description
14. Hunter p/n 462237 up to 7 ft (3 m) of elevation
15. The PS Ultra check valve is made of antimicrobial santoprene and acetal components.
16. Check valve assembles into the large filter screen.
    1. PS Ultra Dimensions
17. PSU-02
    1. Retracted height = 5 in (12 cm)
    2. Pop-up height = 2 in (5 cm)
    3. Exposed diameter = 1.25 in (3 cm)
    4. Inlet size = 1/2 in
18. PSU-04
    1. Retracted height = 7.25 in (18 cm)
    2. Pop-up height = 4 in (10 cm)
    3. Exposed diameter = 1.25 in (3 cm)
    4. Inlet size = 1/2 in
19. PSU-02
    1. Retracted height = 9.5 in (24 cm)
    2. Pop-up height = 6 in (15 cm)
    3. Exposed diameter = 1.25 in (3 cm)
    4. Inlet size = 1/2 in
    5. Warranty
20. 2 year warranty period

**Part 3 – Function and Operation**

* 1. Operating Pressure

1. The recommended operating pressure for the PS Ultra is 20 to 70 psi (1.4 to 4.8 bar; 140 to 480 kPa)
2. Radius Options
3. Adjustable nozzle radius ranges from 7-19 ft (2.2-5.8 m)
4. Fixed arc side strip nozzle covers a 5 x 30 ft (1.5 x 9.1 m) area
5. Refer to the catalog or website for radius ranges when using other nozzles on the PS Ultra
   1. Flow Rates
   2. Precision Distribution ControlTM Adjustable Nozzles
      * 1. 8A flow rate range is approximately 0.18-2.00 GPM (0.72-8.07 l/min)
        2. 10A flow rate range is approximately 0.20-2.36 GPM (0.80-9.47 l/min)
        3. 12A flow rate range is approximately 0.25-3.36 GPM (0.97-13.43 l/min)
        4. 15A flow rate range is approximately 0.39-4.52 GPM (1.51-18.00 l/min)
        5. 17A flow rate range is approximately 0.49-5.52 GPM (1.68-21.75 l/min)
   3. Fixed Arc Nozzle
      1. SS530 flow rate range is approximately 1.10-1.50 GPM (3.5-5.5 l/min)
   4. Refer to the catalog or website for flow rate data when installing other nozzles on the PS Ultra.

3.4 Precipitation Rates

1. Precision Distribution ControlTM Adjustable Nozzles
   1. 8A precipitation rate is approximately 2.65 in/hr (67 mm/hr)
   2. 10A precipitation rate is approximately 1.93 in/hr (49 mm/hr)
   3. 12A precipitation rate is approximately 1.68 in/hr (44 mm/hr)
   4. 15A precipitation rate is approximately 1.59 in/hr (40 mm/hr)
   5. 17A precipitation rate is approximately 1.53 in/hr (39 mm/hr)
2. Fixed Arc Nozzle
   1. SS530 precipitation rate is dependent on the layout
   2. Use the Total Area Method to calculate the precipitation rate based on the chosen layout
3. Refer to the catalog or website for precipitation rate data when installing other nozzles on the PS Ultra.