

# PENTAIR HYPRO\* VARIABLE PRESSURE CERAMIC 120°

Universal flat spray nozzle with finer droplet spectrum. Ideal for applications of contact pesticides.

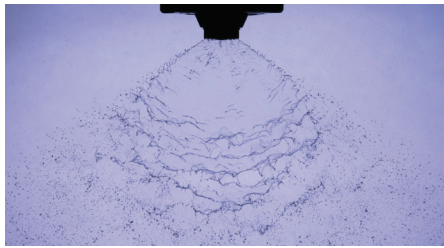


- ◆ Fine to coarse spray droplet spectrum for high coverage applications
- ◆ Extended pressure range
- ◆ Low drift within the pressure range up to 40 psi

## US UNITS

| Nozzle Size | Droplet Size | Pressure (PSI) | Flow Rate (GPM) | Speed (MPH) - 20 inch nozzle spacing |      |      |      |      |      |      |      |      |      |      |
|-------------|--------------|----------------|-----------------|--------------------------------------|------|------|------|------|------|------|------|------|------|------|
|             |              |                |                 | Gallons per Acre                     |      |      |      |      |      |      |      |      |      |      |
|             |              |                |                 | 5                                    | 7.5  | 10   | 12.5 | 15   | 17.5 | 20   | 22.5 | 25   | 27.5 | 30   |
| 01          | F            | 20             | 0.10            | 5.9                                  | 4.0  | 3.0  | 2.4  | 2.0  | 1.7  | 1.5  | 1.3  | 1.2  | 1.1  | 1.0  |
|             | F            | 30             | 0.12            | 7.1                                  | 4.8  | 3.6  | 2.9  | 2.4  | 2.0  | 1.8  | 1.6  | 1.4  | 1.3  | 1.2  |
|             | F            | 40             | 0.13            | 7.7                                  | 5.1  | 3.9  | 3.1  | 2.6  | 2.2  | 1.9  | 1.7  | 1.5  | 1.4  | 1.3  |
|             | F            | 60             | 0.15            | 8.9                                  | 5.9  | 4.5  | 3.6  | 3.0  | 2.5  | 2.2  | 2.0  | 1.8  | 1.6  | 1.5  |
|             | F            | 75             | 0.16            | 9.5                                  | 6.3  | 4.8  | 3.8  | 3.2  | 2.7  | 2.4  | 2.1  | 1.9  | 1.7  | 1.6  |
| 015         | F            | 20             | 0.16            | 9.5                                  | 6.3  | 4.8  | 3.8  | 3.2  | 2.7  | 2.4  | 2.1  | 1.9  | 1.7  | 1.6  |
|             | F            | 30             | 0.18            | 10.7                                 | 7.1  | 5.3  | 4.3  | 3.6  | 3.1  | 2.7  | 2.4  | 2.1  | 1.9  | 1.8  |
|             | F            | 40             | 0.20            | 11.9                                 | 7.9  | 5.9  | 4.8  | 4.0  | 3.4  | 3.0  | 2.6  | 2.4  | 2.2  | 2.0  |
|             | F            | 60             | 0.22            | 13.1                                 | 8.7  | 6.5  | 5.2  | 4.4  | 3.7  | 3.3  | 2.9  | 2.6  | 2.4  | 2.2  |
|             | F            | 75             | 0.24            | 14.3                                 | 9.5  | 7.1  | 5.7  | 4.8  | 4.1  | 3.6  | 3.2  | 2.9  | 2.6  | 2.4  |
| 02          | F            | 20             | 0.21            | 12.5                                 | 8.3  | 6.2  | 5.0  | 4.2  | 3.6  | 3.1  | 2.8  | 2.5  | 2.3  | 2.1  |
|             | F            | 30             | 0.24            | 14.3                                 | 9.5  | 7.1  | 5.7  | 4.8  | 4.1  | 3.6  | 3.2  | 2.9  | 2.6  | 2.4  |
|             | F            | 40             | 0.27            | 16.0                                 | 10.7 | 8.0  | 6.4  | 5.3  | 4.6  | 4.0  | 3.6  | 3.2  | 2.9  | 2.7  |
|             | F            | 60             | 0.30            | 17.8                                 | 11.9 | 8.9  | 7.1  | 5.9  | 5.1  | 4.5  | 4.0  | 3.6  | 3.2  | 3.0  |
|             | F            | 75             | 0.32            | 19.0                                 | 12.7 | 9.5  | 7.6  | 6.3  | 5.4  | 4.8  | 4.2  | 3.8  | 3.5  | 3.2  |
| 025         | F            | 20             | 0.21            | 12.5                                 | 8.3  | 6.2  | 5.0  | 4.2  | 3.6  | 3.1  | 2.8  | 2.5  | 2.3  | 2.1  |
|             | F            | 30             | 0.26            | 15.4                                 | 10.3 | 7.7  | 6.2  | 5.1  | 4.4  | 3.9  | 3.4  | 3.1  | 2.8  | 2.6  |
|             | F            | 40             | 0.30            | 17.8                                 | 11.9 | 8.9  | 7.1  | 5.9  | 5.1  | 4.5  | 4.0  | 3.6  | 3.2  | 3.0  |
|             | F            | 60             | 0.34            | 20.2                                 | 13.5 | 10.1 | 8.1  | 6.7  | 5.8  | 5.0  | 4.5  | 4.0  | 3.7  | 3.4  |
|             | F            | 75             | 0.37            | 22.0                                 | 14.7 | 11.0 | 8.8  | 7.3  | 6.3  | 5.5  | 4.9  | 4.4  | 4.0  | 3.7  |
| 03          | M            | 20             | 0.26            | 15.4                                 | 10.3 | 7.7  | 6.2  | 5.1  | 4.4  | 3.9  | 3.4  | 3.1  | 2.8  | 2.6  |
|             | F            | 30             | 0.31            | 18.4                                 | 12.3 | 9.2  | 7.4  | 6.1  | 5.3  | 4.6  | 4.1  | 3.7  | 3.3  | 3.1  |
|             | F            | 40             | 0.36            | 21.4                                 | 14.3 | 10.7 | 8.6  | 7.1  | 6.1  | 5.3  | 4.8  | 4.3  | 3.9  | 3.6  |
|             | F            | 60             | 0.40            | 23.8                                 | 15.8 | 11.9 | 9.5  | 7.9  | 6.8  | 5.9  | 5.3  | 4.8  | 4.3  | 4.0  |
|             | F            | 75             | 0.44            | 26.1                                 | 17.4 | 13.1 | 10.5 | 8.7  | 7.5  | 6.5  | 5.8  | 5.2  | 4.8  | 4.4  |
| 04          | M            | 20             | 0.34            | 20.2                                 | 13.5 | 10.1 | 8.1  | 6.7  | 5.8  | 5.0  | 4.5  | 4.0  | 3.7  | 3.4  |
|             | M            | 30             | 0.42            | 24.9                                 | 16.6 | 12.5 | 10.0 | 8.3  | 7.1  | 6.2  | 5.5  | 5.0  | 4.5  | 4.2  |
|             | M            | 40             | 0.48            | 28.5                                 | 19.0 | 14.3 | 11.4 | 9.5  | 8.1  | 7.1  | 6.3  | 5.7  | 5.2  | 4.8  |
|             | F            | 60             | 0.54            | 32.1                                 | 21.4 | 16.0 | 12.8 | 10.7 | 9.2  | 8.0  | 7.1  | 6.4  | 5.8  | 5.3  |
|             | F            | 75             | 0.59            | 35.0                                 | 23.4 | 17.5 | 14.0 | 11.7 | 10.0 | 8.8  | 7.8  | 7.0  | 6.4  | 5.8  |
| 05          | M            | 20             | 0.43            | 25.5                                 | 17.0 | 12.8 | 10.2 | 8.5  | 7.3  | 6.4  | 5.7  | 5.1  | 4.6  | 4.3  |
|             | M            | 30             | 0.52            | 30.9                                 | 20.6 | 15.4 | 12.4 | 10.3 | 8.8  | 7.7  | 6.9  | 6.2  | 5.6  | 5.1  |
|             | M            | 40             | 0.60            | 35.6                                 | 23.8 | 17.8 | 14.3 | 11.9 | 10.2 | 8.9  | 7.9  | 7.1  | 6.5  | 5.9  |
|             | M            | 60             | 0.67            | 39.8                                 | 26.5 | 19.9 | 15.9 | 13.3 | 11.4 | 9.9  | 8.8  | 8.0  | 7.2  | 6.6  |
|             | M            | 75             | 0.74            | 44.0                                 | 29.3 | 22.0 | 17.6 | 14.7 | 12.6 | 11.0 | 9.8  | 8.8  | 8.0  | 7.3  |
| 06          | C            | 20             | 0.51            | 30.3                                 | 20.2 | 15.1 | 12.1 | 10.1 | 8.7  | 7.6  | 6.7  | 6.1  | 5.5  | 5.0  |
|             | C            | 30             | 0.62            | 36.8                                 | 24.6 | 18.4 | 14.7 | 12.3 | 10.5 | 9.2  | 8.2  | 7.4  | 6.7  | 6.1  |
|             | M            | 40             | 0.72            | 42.8                                 | 28.5 | 21.4 | 17.1 | 14.3 | 12.2 | 10.7 | 9.5  | 8.6  | 7.8  | 7.1  |
|             | M            | 60             | 0.81            | 48.1                                 | 32.1 | 24.1 | 19.2 | 16.0 | 13.7 | 12.0 | 10.7 | 9.6  | 8.7  | 8.0  |
|             | M            | 75             | 0.88            | 52.3                                 | 34.8 | 26.1 | 20.9 | 17.4 | 14.9 | 13.1 | 11.6 | 10.5 | 9.5  | 8.7  |
| 08          | C            | 20             | 0.68            | 40.4                                 | 26.9 | 20.2 | 16.2 | 13.5 | 11.5 | 10.1 | 9.0  | 8.1  | 7.3  | 6.7  |
|             | C            | 30             | 0.83            | 49.3                                 | 32.9 | 24.7 | 19.7 | 16.4 | 14.1 | 12.3 | 11.0 | 9.9  | 9.0  | 8.2  |
|             | C            | 40             | 0.96            | 57.0                                 | 38.0 | 28.5 | 22.8 | 19.0 | 16.3 | 14.3 | 12.7 | 11.4 | 10.4 | 9.5  |
|             | C            | 60             | 1.10            | 65.3                                 | 43.6 | 32.7 | 26.1 | 21.8 | 18.7 | 16.3 | 14.5 | 13.1 | 11.9 | 10.9 |
|             | M            | 75             | 1.20            | 71.3                                 | 47.5 | 35.6 | 28.5 | 23.8 | 20.4 | 17.8 | 15.8 | 14.3 | 13.0 | 11.9 |

# PENTAIR HYPRO\* VARIABLE PRESSURE CERAMIC 120°



High-speed imaging of variable pressure ceramic spray nozzles

## METRIC UNITS

| Nozzle Size | Droplet Size | Pressure (BAR) | Flow Rate (LPM) | Application Rate L/Ha - 50 cm Spacing |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------|--------------|----------------|-----------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|             |              |                |                 | KM/H                                  |      |      |      |      |      |      |      |      |      |      |      |      |
|             |              |                |                 | 40                                    | 60   | 80   | 100  | 120  | 140  | 160  | 180  | 200  | 220  | 240  | 280  | 300  |
| 01          | F            | 1.5            | 0.28            | 8.4                                   | 5.6  | 4.2  | 3.4  | 2.8  | 2.4  | 2.1  | 1.9  | 1.7  | 1.5  | 1.4  | 1.2  | 1.1  |
|             | F            | 2              | 0.32            | 9.6                                   | 6.4  | 4.8  | 3.8  | 3.2  | 2.7  | 2.4  | 2.1  | 1.9  | 1.7  | 1.6  | 1.4  | 1.3  |
|             | F            | 3              | 0.39            | 11.7                                  | 7.8  | 5.9  | 4.7  | 3.9  | 3.3  | 2.9  | 2.6  | 2.3  | 2.1  | 2.0  | 1.7  | 1.6  |
|             | F            | 4              | 0.45            | 13.5                                  | 9.0  | 6.8  | 5.4  | 4.5  | 3.9  | 3.4  | 3.0  | 2.7  | 2.5  | 2.3  | 1.9  | 1.8  |
| 015         | F            | 1.5            | 0.51            | 15.3                                  | 10.2 | 7.7  | 6.1  | 5.1  | 4.4  | 3.8  | 3.4  | 3.1  | 2.8  | 2.6  | 2.2  | 2.0  |
|             | F            | 2              | 0.42            | 12.6                                  | 8.4  | 6.3  | 5.0  | 4.2  | 3.6  | 3.2  | 2.8  | 2.5  | 2.3  | 2.1  | 1.8  | 1.7  |
|             | F            | 3              | 0.48            | 14.4                                  | 9.6  | 7.2  | 5.8  | 4.8  | 4.1  | 3.6  | 3.2  | 2.9  | 2.6  | 2.4  | 2.1  | 1.9  |
|             | F            | 4              | 0.59            | 17.7                                  | 11.8 | 8.9  | 7.1  | 5.9  | 5.1  | 4.4  | 3.9  | 3.5  | 3.2  | 3.0  | 2.5  | 2.4  |
| 02          | F            | 4              | 0.68            | 20.4                                  | 13.6 | 10.2 | 8.2  | 6.8  | 5.8  | 5.1  | 4.5  | 4.1  | 3.7  | 3.4  | 2.9  | 2.7  |
|             | F            | 5              | 0.76            | 22.8                                  | 15.2 | 11.4 | 9.1  | 7.6  | 6.5  | 5.7  | 5.1  | 4.6  | 4.1  | 3.8  | 3.3  | 3.0  |
|             | F            | 1.5            | 0.56            | 16.8                                  | 11.2 | 8.4  | 6.7  | 5.6  | 4.8  | 4.2  | 3.7  | 3.4  | 3.1  | 2.8  | 2.4  | 2.2  |
|             | F            | 2              | 0.65            | 19.5                                  | 13.0 | 9.8  | 7.8  | 6.5  | 5.6  | 4.9  | 4.3  | 3.9  | 3.5  | 3.3  | 2.8  | 2.6  |
| 025         | F            | 3              | 0.80            | 24.0                                  | 16.0 | 12.0 | 9.6  | 8.0  | 6.9  | 6.0  | 5.3  | 4.8  | 4.4  | 4.0  | 3.4  | 3.2  |
|             | F            | 4              | 0.92            | 27.6                                  | 18.4 | 13.8 | 11.0 | 9.2  | 7.9  | 6.9  | 6.1  | 5.5  | 5.0  | 4.6  | 3.9  | 3.7  |
|             | F            | 5              | 1.03            | 30.9                                  | 20.6 | 15.5 | 12.4 | 10.3 | 8.8  | 7.7  | 6.9  | 6.2  | 5.6  | 5.2  | 4.4  | 4.1  |
|             | F            | 1.5            | 0.70            | 21.0                                  | 14.0 | 10.5 | 8.4  | 7.0  | 6.0  | 5.3  | 4.7  | 4.2  | 3.8  | 3.5  | 3.0  | 2.8  |
| 03          | F            | 2              | 0.81            | 24.3                                  | 16.2 | 12.2 | 9.7  | 8.1  | 6.9  | 6.1  | 5.4  | 4.9  | 4.4  | 4.1  | 3.5  | 3.2  |
|             | F            | 3              | 0.99            | 29.7                                  | 19.8 | 14.9 | 11.9 | 9.9  | 8.5  | 7.4  | 6.6  | 5.9  | 5.4  | 5.0  | 4.2  | 4.0  |
|             | F            | 4              | 1.15            | 34.5                                  | 23.0 | 17.3 | 13.8 | 11.5 | 9.9  | 8.6  | 7.7  | 6.9  | 6.3  | 5.8  | 4.9  | 4.6  |
|             | F            | 5              | 1.28            | 38.4                                  | 25.6 | 19.2 | 15.4 | 12.8 | 11.0 | 9.6  | 8.5  | 7.7  | 7.0  | 6.4  | 5.5  | 5.1  |
| 04          | M            | 1.5            | 0.84            | 25.2                                  | 16.8 | 12.6 | 10.1 | 8.4  | 7.2  | 6.3  | 5.6  | 5.0  | 4.6  | 4.2  | 3.6  | 3.4  |
|             | F            | 2              | 0.97            | 29.1                                  | 19.4 | 14.6 | 11.6 | 9.7  | 8.3  | 7.3  | 6.5  | 5.8  | 5.3  | 4.9  | 4.2  | 3.9  |
|             | F            | 3              | 1.19            | 35.7                                  | 23.8 | 17.9 | 14.3 | 11.9 | 10.2 | 8.9  | 7.9  | 7.1  | 6.5  | 6.0  | 5.1  | 4.8  |
|             | F            | 4              | 1.37            | 41.1                                  | 27.4 | 20.6 | 16.4 | 13.7 | 11.7 | 10.3 | 9.1  | 8.2  | 7.5  | 6.9  | 5.9  | 5.5  |
| 05          | F            | 5              | 1.53            | 45.9                                  | 30.6 | 23.0 | 18.4 | 15.3 | 13.1 | 11.5 | 10.2 | 9.2  | 8.3  | 7.7  | 6.6  | 6.1  |
|             | M            | 1.5            | 1.12            | 33.6                                  | 22.4 | 16.8 | 13.4 | 11.2 | 9.6  | 8.4  | 7.5  | 6.7  | 6.1  | 5.6  | 4.8  | 4.5  |
|             | M            | 2              | 1.29            | 38.7                                  | 25.8 | 19.4 | 15.5 | 12.9 | 11.1 | 9.7  | 8.6  | 7.7  | 7.0  | 6.5  | 5.5  | 5.2  |
|             | M            | 3              | 1.58            | 47.4                                  | 31.6 | 23.7 | 19.0 | 15.8 | 13.5 | 11.9 | 10.5 | 9.5  | 8.6  | 7.9  | 6.8  | 6.3  |
| 06          | F            | 4              | 1.82            | 54.6                                  | 36.4 | 27.3 | 21.8 | 18.2 | 15.6 | 13.7 | 12.1 | 10.9 | 9.9  | 9.1  | 7.8  | 7.3  |
|             | F            | 5              | 2.04            | 61.2                                  | 40.8 | 30.6 | 24.5 | 20.4 | 17.5 | 15.3 | 13.6 | 12.2 | 11.1 | 10.2 | 8.7  | 8.2  |
|             | M            | 1.5            | 1.39            | 41.7                                  | 27.8 | 20.9 | 16.7 | 13.9 | 11.9 | 10.4 | 9.3  | 8.3  | 7.6  | 7.0  | 6.0  | 5.6  |
|             | M            | 2              | 1.61            | 48.3                                  | 32.2 | 24.2 | 19.3 | 16.1 | 13.8 | 12.1 | 10.7 | 9.7  | 8.8  | 8.1  | 6.9  | 6.4  |
| 08          | M            | 3              | 1.97            | 59.1                                  | 39.4 | 29.6 | 23.6 | 19.7 | 16.9 | 14.8 | 13.1 | 11.8 | 10.7 | 9.9  | 8.4  | 7.9  |
|             | M            | 4              | 2.28            | 68.4                                  | 45.6 | 34.2 | 27.4 | 22.8 | 19.5 | 17.1 | 15.2 | 13.7 | 12.4 | 11.4 | 9.8  | 9.1  |
|             | M            | 5              | 2.55            | 76.5                                  | 51.0 | 38.3 | 30.6 | 25.5 | 21.9 | 19.1 | 17.0 | 15.3 | 13.9 | 12.8 | 10.9 | 10.2 |
|             | C            | 1.5            | 1.67            | 50.1                                  | 33.4 | 25.1 | 20.0 | 16.7 | 14.3 | 12.5 | 11.1 | 10.0 | 9.1  | 8.4  | 7.2  | 6.7  |
| 08          | C            | 2              | 1.93            | 57.9                                  | 38.6 | 29.0 | 23.2 | 19.3 | 16.5 | 14.5 | 12.9 | 11.6 | 10.5 | 9.7  | 8.3  | 7.7  |
|             | C            | 3              | 2.36            | 70.8                                  | 47.2 | 35.4 | 28.3 | 23.6 | 20.2 | 17.7 | 15.7 | 14.2 | 12.9 | 11.8 | 10.1 | 9.4  |
|             | C            | 4              | 2.73            | 81.9                                  | 54.6 | 41.0 | 32.8 | 27.3 | 23.4 | 20.5 | 18.2 | 16.4 | 14.9 | 13.7 | 11.7 | 10.9 |
|             | C            | 5              | 3.05            | 91.5                                  | 61.0 | 45.8 | 36.6 | 30.5 | 26.1 | 22.9 | 20.3 | 18.3 | 16.6 | 15.3 | 13.1 | 12.2 |
| 08          | C            | 1.5            | 2.23            | 66.9                                  | 44.6 | 33.5 | 26.8 | 22.3 | 19.1 | 16.7 | 14.9 | 13.4 | 12.2 | 11.2 | 9.6  | 8.9  |
|             | C            | 2              | 2.58            | 77.4                                  | 51.6 | 38.7 | 31.0 | 25.8 | 22.1 | 19.4 | 17.2 | 15.5 | 14.1 | 12.9 | 11.1 | 10.3 |
|             | C            | 3              | 3.16            | 94.8                                  | 63.2 | 47.4 | 37.9 | 31.6 | 27.1 | 23.7 | 21.1 | 19.0 | 17.2 | 15.8 | 13.5 | 12.6 |
|             | C            | 4              | 3.65            | 109.5                                 | 73.0 | 54.8 | 43.8 | 36.5 | 31.3 | 27.4 | 24.3 | 21.9 | 19.9 | 18.3 | 15.6 | 14.6 |
| 08          | M            | 5              | 4.08            | 122.4                                 | 81.6 | 61.2 | 49.0 | 40.8 | 35.0 | 30.6 | 27.2 | 24.5 | 22.3 | 20.4 | 17.5 | 16.3 |

| Features                    |                              |
|-----------------------------|------------------------------|
| Common Use                  | Insecticides & Fungicides    |
| Pattern                     | Tapered Flat Fan             |
| Technology                  | Elliptical Orifice           |
| Material                    | Ceramic                      |
| Spray Angle                 | 120°                         |
| Configuration               | Tips, FastCap                |
| Application Selection Guide |                              |
| Foliar Contact              | Excellent                    |
| Foliar Systemic             | Excellent                    |
| Soil Applied                | Good                         |
| Part Numbers                |                              |
| Nozzles 120°                | FastCaps 120°                |
| VPC120-01                   | FC-VPC120-01                 |
| VPC120-015                  | FC-VPC120-015                |
| VPC120-02                   | FC-VPC120-02                 |
| VPC120-025                  | FC-VPC120-025                |
| VPC120-03                   | FC-VPC120-03                 |
| VPC120-04                   | FC-VPC120-04                 |
| VPC120-05                   | FC-VPC120-05                 |
| VPC120-06                   | FC-VPC120-06                 |
| VPC120-08                   | FC-VPC120-08                 |
| Replacement Cap Gasket      |                              |
| TS01-50                     | 50# strainer for size 04-08  |
| TS01-100                    | 100# strainer for size 01-03 |