

**komet** | *Pivot*

## **Komet Precision Wave (KPW)**

### **End of System Device**

The Komet Precision Wave (KPW) is a highly innovative end of system distribution device. Its unique design, distinguished by an oscillating deflector, delivers an exceptionally uniform droplet distribution pattern within an optimal throw radius



## **The Product**

Appropriate water distribution at the end of a mechanized irrigation system can ensure a significantly increased yield, as well as improve overall crop health. The more uniform the water application beyond the end of the system, the greater the achievable yield.

The Komet Precision Wave (KPW) operates in an extended pressure range of 1 - 4 bar, and includes an assortment of nozzles that have been meticulously calibrated to deliver the precise amount of water required by the sprinkler package design of the irrigation system.

The Komet Precision Wave (KPW) with its available models: Head-up White Deflector and Head-down Yellow Deflector, is adaptable to every need - whether the focus is more on throw and gaining acres, or on flushing the system in difficult water situations.

For optimal flushing action, which can prevent accumulations of debris at the end of system, bigger nozzle sizes should be used.

### **Features and Benefits:**

- ▶ Excellent operation at low pressure 1 - 4 bar
- ▶ Outstanding droplet distribution uniformity
- ▶ Optimal throw
- ▶ Two models: Head-up or Head-down installation
- ▶ Two connection options: 2" BSP/NPT with 15 cm adapter



Komet Precision Wave (KPW)

Head-up installation  
White deflector



Connection  
2" BSP/NPT  
includes  
15 cm Adapter



komet | Precision Wave (KPW) HEAD-UP WHITE DEFLECTOR

| Operating Parameters |                      |                   | Installation |
|----------------------|----------------------|-------------------|--------------|
| Nozzle range (mm)    | Pressure range (bar) | Flow range (l/hr) | Head-Up      |
| 10 - 18              | 1 - 4                | 4,0 - 25,7        |              |

| Pressure | Throw Radius R (m)       |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |
|----------|--------------------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|
|          | Installation Height H=4m |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |
|          | Nozzle 10 mm             |            | Nozzle 11 mm |            | Nozzle 12 mm |            | Nozzle 13 mm |            | Nozzle 14 mm |            | Nozzle 15 mm |            | Nozzle 16 mm |            | Nozzle 17 mm |            | Nozzle 18 mm |            |
| bar      | Flow (m³/h)              | Radius (m) | Flow (m³/h)  | Radius (m) | Flow (m³/h)  | Radius (m) | Flow (m³/h)  | Radius (m) | Flow (m³/h)  | Radius (m) | Flow (m³/h)  | Radius (m) | Flow (m³/h)  | Radius (m) | Flow (m³/h)  | Radius (m) | Flow (m³/h)  | Radius (m) |
| 1,0      | 4,0                      | 9,6        | 4,8          | 9,8        | 5,7          | 10,0       | 6,7          | 10,2       | 7,8          | 10,4       | 8,9          | 10,5       | 10,6         | 11,4       | 10,8         | 12,8       | 10,8         |            |
| 1,5      | 4,9                      | 10,7       | 5,9          | 10,9       | 7,0          | 11,2       | 8,2          | 11,4       | 9,5          | 11,5       | 10,9         | 11,6       | 12,4         | 11,8       | 14,0         | 12,0       | 15,7         | 11,9       |
| 2,0      | 5,6                      | 11,5       | 6,8          | 11,8       | 8,1          | 12,1       | 9,5          | 12,3       | 11,0         | 12,5       | 12,6         | 12,6       | 14,3         | 12,8       | 16,2         | 13,0       | 18,1         | 13,0       |
| 2,5      | 6,3                      | 12,2       | 7,6          | 12,5       | 9,0          | 12,8       | 10,6         | 13,0       | 12,3         | 13,2       | 14,1         | 13,4       | 16,0         | 13,5       | 18,1         | 13,8       | 20,3         | 13,8       |
| 3,0      | 6,9                      | 12,7       | 8,3          | 13,0       | 9,9          | 13,3       | 11,6         | 13,5       | 13,4         | 13,7       | 15,4         | 13,9       | 17,6         | 14,1       | 19,8         | 14,3       | 22,2         | 14,3       |
| 3,5      | 7,4                      | 13,1       | 9,0          | 13,4       | 10,7         | 13,7       | 12,5         | 13,9       | 14,5         | 14,1       | 16,7         | 14,3       | 19,0         | 14,5       | 21,4         | 14,7       | 24,0         | 14,7       |
| 4,0      | 7,9                      | 13,4       | 9,6          | 13,7       | 11,4         | 14,0       | 13,4         | 14,2       | 15,5         | 14,5       | 17,8         | 14,6       | 20,3         | 14,8       | 22,9         | 15,1       | 25,7         | 15,1       |

Komet Precision Wave (KPW)

Head-down installation  
Yellow deflector



Connection  
2" BSP/NPT  
includes  
15 cm Adapter



komet | Precision Wave (KPW) HEAD-DOWN YELLOW DEFLECTOR

| Operating Parameters |                      |                   | Installation |
|----------------------|----------------------|-------------------|--------------|
| Nozzle range (mm)    | Pressure range (bar) | Flow range (l/hr) | Head-Down    |
| 10 - 18              | 1 - 4                | 4,0 - 25,7        |              |

| Pressure | Throw Radius R (m)       |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |
|----------|--------------------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|
|          | Installation Height H=4m |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |
|          | Nozzle 10 mm             |            | Nozzle 11 mm |            | Nozzle 12 mm |            | Nozzle 13 mm |            | Nozzle 14 mm |            | Nozzle 15 mm |            | Nozzle 16 mm |            | Nozzle 17 mm |            | Nozzle 18 mm |            |
| bar      | Flow (m³/h)              | Radius (m) | Flow (m³/h)  | Radius (m) | Flow (m³/h)  | Radius (m) | Flow (m³/h)  | Radius (m) | Flow (m³/h)  | Radius (m) | Flow (m³/h)  | Radius (m) | Flow (m³/h)  | Radius (m) | Flow (m³/h)  | Radius (m) | Flow (m³/h)  | Radius (m) |
| 1,0      | 4,0                      | 10,2       | 4,8          | 10,4       | 5,7          | 10,7       | 6,7          | 10,9       | 7,8          | 11,1       | 8,9          | 11,3       | 10,1         | 11,5       | 11,4         | 11,7       | 12,8         | 11,8       |
| 1,5      | 4,9                      | 11,0       | 5,9          | 11,4       | 7,0          | 11,6       | 8,2          | 11,9       | 9,5          | 12,1       | 10,9         | 12,3       | 12,4         | 12,5       | 14,0         | 12,7       | 15,7         | 12,8       |
| 2,0      | 5,6                      | 11,5       | 6,8          | 11,9       | 8,1          | 12,2       | 9,5          | 12,4       | 11,0         | 12,7       | 12,6         | 12,8       | 14,3         | 13,1       | 16,2         | 13,3       | 18,1         | 13,5       |
| 2,5      | 6,3                      | 12,0       | 7,6          | 12,3       | 9,0          | 12,6       | 10,6         | 12,9       | 12,3         | 13,1       | 14,1         | 13,3       | 16,0         | 13,5       | 18,1         | 13,7       | 20,3         | 13,9       |
| 3,0      | 6,9                      | 12,3       | 8,3          | 12,7       | 9,9          | 13,0       | 11,6         | 13,2       | 13,4         | 13,4       | 15,4         | 13,7       | 17,6         | 13,9       | 19,8         | 14,1       | 22,2         | 14,3       |
| 3,5      | 7,4                      | 12,6       | 9,0          | 12,9       | 10,7         | 13,3       | 12,5         | 13,5       | 14,5         | 13,7       | 16,7         | 14,0       | 19,0         | 14,2       | 21,4         | 14,4       | 24,0         | 14,6       |
| 4,0      | 7,9                      | 12,9       | 9,6          | 13,2       | 11,4         | 13,6       | 13,4         | 13,8       | 15,5         | 14,0       | 17,8         | 14,3       | 20,3         | 14,5       | 22,9         | 14,7       | 25,7         | 14,9       |

The performance data were obtained under ideal testing conditions and are the base for the mathematical model. Performance may be adversely affected by wind and other factors. Pressure refers to pressure at nozzle. Performance data regarding flow and throw in relation to installation height and deflector type shown in the tables, originate from the mathematical model used in the Komet Pivot Calculator Software.