



INNOVATIVE
IRRIGATION

komet | *Pivot*

LEPA Low Energy Precision Application

Komet Precision Spray (KPS)
Wide Bubbler 60"

Komet Precision Spray (KPS)
Vertical Bubbler



The Product

In areas affected by water scarcity or severe wind drift, Low Energy Precision Application (LEPA) can be a viable solution. In this method, the sprinklers are suspended close to the ground to enable localized, low-pressure irrigation. This helps to minimize wind drift and evaporation loss, providing a greater potential for reduced water usage and pumping costs.

Komet offers two options for LEPA irrigation.

The KPS Vertical Bubbler (for circular crop rows only) delivers water into the furrows in a narrow stream that directly targets the root zone of the crop.

The KPS Wide Bubbler (for straight and circular crop rows) delivers water into the furrows in a wider dome-shaped pattern with a more even coverage and a lower instantaneous application rate.

LEPA irrigation is only recommended for specific crops, soil types and topographies.

Features and Benefits:

- ▶ Ideal distribution patterns for LEPA applications
- ▶ Optimal throw
- ▶ High quality materials and precision manufacturing
- ▶ Designed for maximum durability
- ▶ Suitable for a wide range of pressure and nozzle sizes



Komet Precision Spray (KPS)
Wide Bubbler 60"



Komet Precision Spray (KPS)
Vertical Bubbler

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Wide Bubbler 60"



Wide Bubbler 60"
Reverse deflector
FL 33 Brown

komet | Precision Spray (KPS) Wide Bubbler 60"

Deflector Specifications		Operating Parameters				Installation	
Trajectory	Coverage	Nozzle range (1 / 128")	Pressure range (psi)	Flow range (gpm)	Spacing max. (ft)	Installation height (ft)	Drop Type
Dome	360°	9 - 30	6 - 30	0.36 - 8.84	5	1.5 - 2.5	All Types

Nozzle Size (1/128")	Throw Diameter D (ft)											
	Installation Height H=1.5ft				Installation Height H=2ft				Installation Height H=2.5ft			
	Pressure (psi)				Pressure (psi)				Pressure (psi)			
	6	10	15	20	6	10	15	20	6	10	15	20
9	3.3	4.3	5.9	6.2	3.6	4.8	6.6	7.1	3.9	5.2	7.2	7.9
10	4.6	4.9	6.2	6.6	4.8	5.7	7.1	7.5	4.9	6.6	7.9	8.5
11	4.9	5.2	6.6	7.2	5.2	6.1	7.4	8.0	5.6	6.9	8.2	8.9
12	5.2	5.9	7.2	7.5	5.7	6.6	7.9	8.4	6.2	7.2	8.5	9.2
14	5.9	6.2	7.5	8.2	6.2	7.2	8.5	9.2	6.6	8.2	9.5	10.2
18	6.6	6.9	7.9	8.9	7.2	8.0	9.2	10.2	7.9	9.2	10.5	11.5
22	7.2	7.9	8.2	9.2	7.9	9.0	10.0	10.7	8.5	10.2	11.8	12.1
26	7.5	8.2	8.9	10.5	8.7	10.0	10.7	11.6	9.8	11.8	12.5	12.8
30	8.2	8.9	9.8	11.2	9.4	10.7	11.5	12.3	10.5	12.5	13.1	13.5

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. Performance data was obtained under ideal testing conditions and is the base for the mathematical model. Pressure refers to pressure at nozzle. Performance may be adversely affected by wind and other factors.

Komet Precision Spray (KPS)

Vertical Bubbler



komet | Precision Spray (KPS) Vertical Bubbler

Deflector Specifications		Operating Parameters				Installation	
Trajectory	Coverage	Nozzle range (1 / 128")	Pressure range (psi)	Flow range (gpm)	Spacing max. (in)	Installation height (in)	Drop Type
Vertical	Localized	8 - 45	6 - 30	0.28 - 19.46	30 - 60 Furrow Dependent	8 - 18	All Types

The reverse side of the Vertical Bubbler deflector corresponds with the Komet Precision Spray (KPS) deflector 360 in the respective colour. For the performance data please refer to the tables for Komet Precision Spray (KPS) deflectors 360 at www.kometirrigation.com.



Vertical Bubbler
Reverse deflector
CC 33 Blue



Vertical Bubbler
Reverse deflector
FL 24 Grey



Vertical Bubbler
Reverse deflector
FL 33 Black



Vertical Bubbler
Reverse deflector
FL 30 Yellow