

Mega-PULSAR™

Designed to protect orchards from extreme heatwaves, Mega-PULSAR™ uses a unique pulsation mechanism to deliver effective cooling with minimal water consumption.



Long-lasting
performance



Water and energy
savings

Applications



Efficient heatwave
protection

/ Benefits & Features

- **Efficient Cooling System** Leverages Netafim's wide sprinkler distribution with a unique pulsation mechanism to significantly reduce water flow per hectare - without compromising effective full-coverage cooling.
- **Low Maintenance** Wide emitter spacing significantly reduces emitter count, **up to 90% fewer than local coverage** - minimizing labor and maintenance.
- **Water & Energy Savings** A unique pulsation mechanism delivers water in continuous pulses, reducing total water use and lowering energy consumption. **Saves up to 40% water** in tree plantations compared to full-coverage high-flow sprinklers.
- **Customizable Design** Supports flexible flow rates and spacing configurations to suit different orchard plantation spacing and topography.
- **High Uniformity** A pressure-compensated mechanism delivers equal amounts of water delivered over a broad pressure range, ensuring very high uniformity across the orchard.
- **Cost Reduction** Significantly cuts installation, labor and maintenance costs.



/ Specifications & Recommendations

- Unique pulsation technology enables full-coverage impact sprinkler installation with spacing up to 12 x 14 meters
- 4 Different flow rates: 150, 180, 210, 240 l/h
- Clip Color Code for flow rate identification
 - Sky-Blue: 150 L/H
 - Green: 180 L/H
 - Gray: 210 L/H
 - Purple: 240 L/H
- Minimum pressure at the anti-drain valve 2.5 bar
- Pressure regulation range 2.5 - 4.0 bar
 - Sprinkler at the top of the Mega-PULSAR: LWP 380 2450, Water Trajectory Angle 24 degrees
- Water Distribution Pattern - 360 degrees
- Inlet & Outlet Connectors
 - Inlet Connection (to lateral): 3/4" Male threaded
 - Outlet connector (to micro-tube): 1/2" Female thread
- Installation recommendations
 - Full coverage up to 12 x 14 meters (depends on plantation spacing)
 - Vertical installation of the product on the pole to 50 cm above the tree-top
- Recommended filtration* 130 mic. / 120 mesh

*Note: Filtration method shall be selected based on the type and concentration of the dirt particles contained in the water. Wherever sand exceeding 2 ppm exists in the water, a Hydrocyclone shall be installed before the main filter. Wherever sand/ silt/ clay solids exceed 100ppm, pre-treatment shall be applied according to Netafim™ instructions.

→ Technical Data

Mega-PULSAR Flow rate L/H	Clip Color Code	Working Pressure (bar)	Wetted Diameter* (m)	Precipitation (mm/h)			
				Spacing (m x m)			
				10 x 10	10 x 12	12 x 12	12 x 14
Mega-PULSAR 150 + LWP 380	Sky-Blue	2.5	18.0	1.50	1.25	1.04	0.89
Mega-PULSAR 180 + LWP 380	Green	2.5	18.0	1.80	1.50	1.25	1.07
Mega-PULSAR 210 + LWP 380	Gray	2.5	18.0	2.10	1.75	1.46	1.25
Mega-PULSAR 240 + LWP 380	Purple	2.5	18.0	2.40	2.00	1.67	1.43

* At least 0.3mm/h.

**Performance table prepared under laboratory conditions, sprinkler head 0.5 meters above the surface

→ Description and Catalog Numbers

Catalog number	Description	Packing information
63800-000100	MEGA-PULSAR SKY-BLUE 150 LH WITH DNL	6 units of Mega-PULSAR & 6 units of DNL per carton
63800-000110	MEGA-PULSAR GREEN 180 LH WITH DNL	
63800-000120	MEGA-PULSAR GRAY 210 LH WITH DNL	
63800-000130	MEGA-PULSAR PURPLE 240 LH WITH DNL	

→ Complementary Products

Catalog number	Description	More information
60100-004001	LWP 2450 380LH 2.2+1.8	Impact sprinkler on the top of the Mega-PULSAR
65080-004500	SOCKET 1/2 F TH-1/2 F TH	Socket to connect between the DNL to the sprinkler
64520-000006	IMP SPR STAND 9*12 500CM W/OSTK F&S FLX	Micro-Tube 9 x 12, 500 cm length, with sprinkler housing to be connected to the inlet of the DNL and fast & safe connector to the Mega-PULSAR outlet

