

Pulsar™ + GyroNet™ Head

PRESSURE-COMPENSATED EMITTER

For efficient frost mitigation in fruit trees.



Water and energy savings



High frost mitigation and cooling performance



Fit per tree

Applications



Efficient frost mitigation in fruit trees



Efficient orchard cooling

/ Benefits & Features

- Water and energy savings
- Ensures high frost mitigation and cooling performance
- Fit per tree
- Easy installation

Pulsar™ + GyroNet™ offers efficient and focused watering above the tree canopy using 50% less water and energy than standard full-coverage sprinkler systems

Pulsar™ + GyroNet™ is a Pressure compensated device with dynamic micro-sprinkler ensures uniform performance along the field even across hilly terrain and long rows. It consists of a Pressure Compensated dripper, a micro tube, a Pulsar chamber with an air bag inside, an Anti Drain valve and micro-sprinkler head

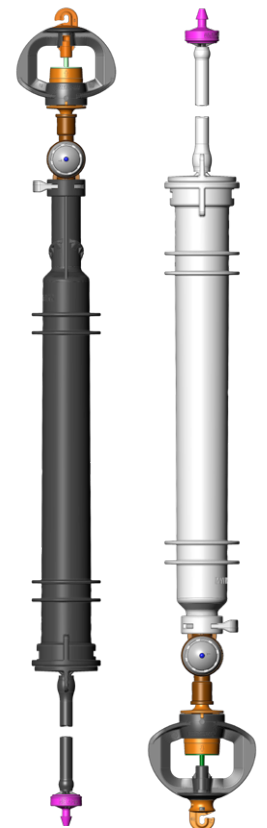
Provides several pulses per minute, according to the selected flow rate, ensure continuous irrigation over a large area for many hours

The unique pulsation mechanism allows each emitter to cover a large range while maintaining low flow, allowing reduction of water and energy consumption

The product assists to avoid soil saturation and flooding is avoided even after many hours of irrigation

Pulsar™ + GyroNet™ offers a wide range of GyroNet swivels to suit the tree-top diameter

Pulsar™ + GyroNet™ has a unique mounting adapter on a pole (wood or metal) or adapter to mount between wires



→ Simple maintenance

The product is modular and can be dis-assembled easily for maintenance

→ Long-lasting performance

The product is made of plastic materials resistant to standard nutrients used in agricultural and weather conditions

/ Specifications & Recommendations

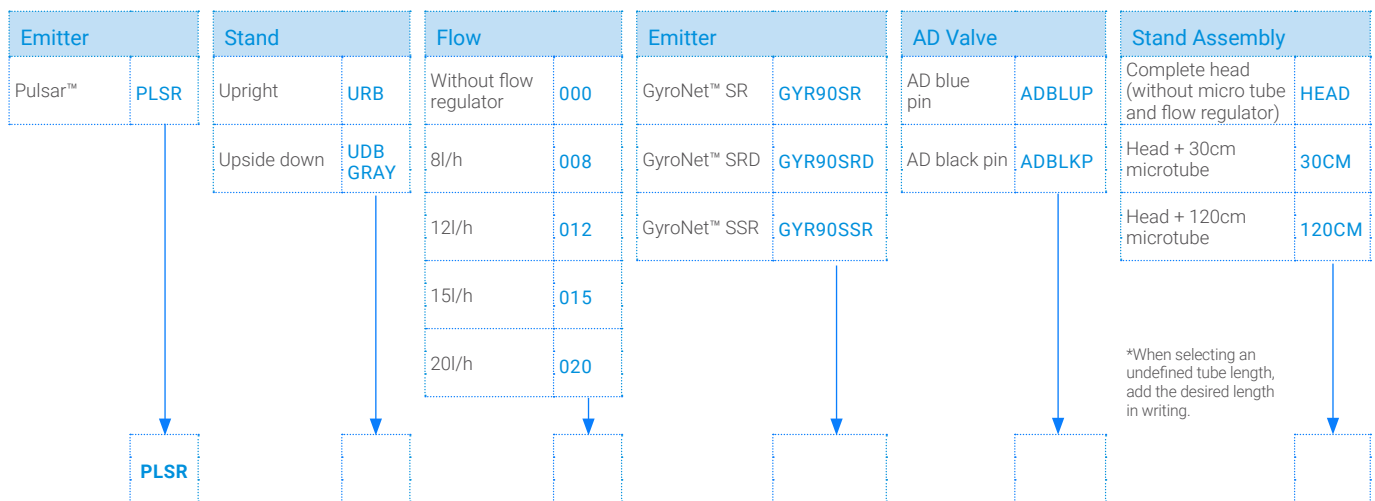
- ✓ 5 different flow rates: 8, 12, 15, 20, 25l/h
- ✓ Minimum pressure at the AD valve:
 - 2.5bar for Anti Darin Valve with blue pin
 - 1.7bar for Anti Darin Valve with balck pin
- ✓ Locking clip for physical lock or double lock in between the Pulsar body to the AD valve
- ✓ Pressure regulation range: 2.5-4.0bar or 1.7-4.0 (according to the AD valve model)
- ✓ Water distribution pattern: 360degrees, circle water cover
- ✓ Several GyroNet's swivel types: SR, SRD, SSR, MR. Each Pulsar combination (Flow rate and GyroNet swivel) provides different water distribution profile. The selection, is according to the required application rate and tree-top diameter
- ✓ Installation recommendations:
 - Single emitter above each tree or according to the crop needs
 - Vertical installation of the product on the pole. 50cm above vineyard tree-top
- ✓ Color code:
 - GyroNet™ nozzle is color coded for easy identification of the flow rate.
 - GyroNet™ swivel is color code: SR-Blue, SRD-Blue with deflector, SSR-Light Green, MR-Brown
 - PCJ Dripper: colored coded according to the flow rate: 8l/h green, 12l/h fuchsia, 15l/h black, 20l/h orange & black, 25l/h orange & light gray
- ✓ Recommended filtration*: 130mic. / 120mesh

*Note: Filtration method shall be selected based on the type and concentration of the dirt particles contained in the water. Wherever sand exceeding 2ppm 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

→ Ordering Information

Flowchart to determine the desired product definition

How to use: To determine the desired product definition select one of every set of options displayed on the chart.



→ Description And Catalog Number Sample

PLSR URB 020 GYR90SR ADBLUP 120CM

Catalog Number: 63700-008180

Product components: Pulsar™, flow regulator 20l/h, 120cm microtube, tube with barb inlet connector, AD valve with blue pin, GyroNet™ head with SR (short range) swivel



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→ Packaging Data

Pulsar™	Quantity P/Box Units	Box Size (cm x cm x cm)	Box Weight (kg)	Boxes P/Pallet	Total Units P/Pallet	Pallet Weight (kg)
Head only (UR tube + AD valve + GyroNet)	150	36 x 31 x 53	7.2	18	2700	142
Head only (UD tube + AD valve + GyroNet)	80	28 x 28 x 57	9.1	32	2560	291
Complete UR stand (120cm.) w/o stake	50	28 x 27 x 113	8.8	16	800	141
Complete UR stand (200cm.) w/o stake	50	28 x 27 x 113	9.2	16	800	147
Complete UD stand (30cm.) w/o stake	100	28 x 27 x 113	15.2	16	1600	243

→ Pulsar™ UR + GyroNet™ Head In Upright Installation (Black Pulsar Tube)

Model	Flow Rate (l/h)	With Blue Pin AD Valve, At 2.5bar Pressure At The Flow Regulator Inlet				With Black Pin AD Valve, At 1.7bar Pressure At The Flow Regulator Inlet			
		Effective Wetted Diameter* (m)	Wetted Area (m²)	Average Precipitation Rate On The Effective Wetted Diameter (mm/h)	Coverage Type	Effective Wetted Diameter* (m)	Wetted Area (m²)	Average Precipitation Rate On The Effective Wetted Diameter (mm/h)	Coverage Type
GyroNet™ SSR	8	1.5	1.8	2.9	Focused coverage	2.0	3.1	2.5	Focused coverage
	12	2.0	3.1	3.0		2.0	3.1	3.8	
	15	2.0	4.9	3.1		2.5	4.9	3.1	
	20	2.5	4.9	3.7		2.5	4.9	4.1	
	25	3.0	7.1	3.4		3.0	7.1	3.5	
GyroNet™ SRD	8	2.0	3.1	2.5	Focused coverage	2.0	3.1	2.5	Focused coverage
	12	2.5	4.9	3.0		2.0	3.1	3.8	
	15	2.5	4.9	2.9		2.0	3.1	4.8	
	20	3.0	7.1	2.8		2.5	4.9	4.1	
	25	3.0	7.1	3.5		2.5	4.9	5.1	
GyroNet™ SR	8	4.0	12.6	0.6	Wide coverage	3.5	9.6	0.8	Wide coverage
	12	5.0	19.6	0.6		4.0	12.6	1.0	
	15	5.0	19.6	0.8		4.0	12.6	1.2	
	20	5.5	23.8	0.8		4.5	15.9	1.3	
	25	6.0	28.3	0.9		4.5	15.9	1.6	

* Wetted diameter at 0.5meter above crop surface

→ Pulsar™ UDB + GyroNet™ Head In Upside-Down Installation (Grey Pulsar Tube)

Model	Flow Rate (l/h)	Pulsar UDB With Blue Pin AD Valve, 2.5bar Inlet Pressure			
		Effective Wetted Diameter* (m)	Wetted Area (m²)	Average Precipitation Rate On The Effective Wetted Diameter (mm/h)	Coverage Type
GyroNet™ UD	12	6.0	28.3	0.4	Wide coverage
	15	6.5	33.2	0.5	
	20	7.0	38.5	0.5	
GyroNet™ SR	12	3.5	9.6	1.2	Wide coverage
	15	3.5	9.6	1.6	
	20	4.0	12.6	1.6	

* Wetted diameter at 0.5meter above crop surface

Note: For proper operation of the Pulsar UDB with grey tube in upside-down position, need to make sure to release air from the hydraulic system.

→ Other Active Catalog Numbers

Product Description	Catalog Number
PLSR URB 008 GYR9SR ADLUP 60CM	63700-007660
PLSR URB 020 GYR9SSR ADLUP 120CM	63700-008190
PLSR URB 020 GYR9SSR ADLUP 200CM	63700-008210
PLSR URB 025 GYR9SR ADLUP 120CM	63700-008500
PLSR URB 025 GYR9SSR ADLUP 120CM	63700-008550

*Other catalog numbers, according to desired product definition, available upon request.



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→ Assembly Options

Pulsar™ UR can be assembled in one of the following ways:

Clamp For Wood Poles

	64420-003100
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Clamp For Metal Stakes

	64420-003010
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Adapter To Metal/Fiberglass Rods

	Blue 6.0mm rod
	63520-005950
	Black 8.0mm rod
	63520-005970

Set Of Adapters for Mounting Pulsar Between Wires for 6mm Rod

upper adapter	1 Set Unit (Upper + Bottom)
	63720-000003
bottom adapter	50 Set Units (Upper + Bottom)
	63720-000004

Pulsar AD Valve

	Pin color: Blue
	63700-001020


Pulsar Plug - To Plug The Pulsar Tube

	63720-002500
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Pulsar Locking Clip

	63720-001110
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Black Band 380x4.8 UV (100/Bag)

	Product Description
	For correct installation of the Pulsar™ UR it is recommended to use special UV protected bands for this purpose
	63720-001800

Frostie Controller

	Product Description
	Frost mitigation controller. Single station valve controller powered by 2 AA alkaline batteries. Built in precision temperature and humidity sensors.
	00045-001620