

Pulsar™ with 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

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

Ensures high frost mitigation and cooling performance

- ✓ Pulsar™ with 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

Fit per tree

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

Easy installation

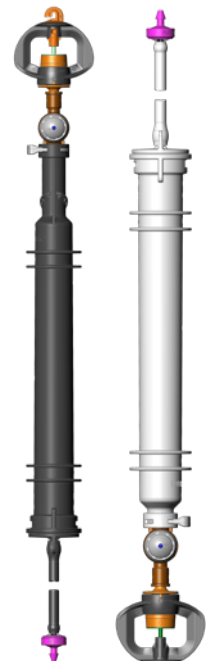
- ✓ Pulsar™ with GyroNet™ has a unique mounting adapter on a pole (wood or metal) or adapter to mount between wires

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, 25 L/H
- **Minimum pressure at the AD valve:**
 - 2.5 bar for Anti Darin Valve with blue pin
 - 1.7 bar for Anti Darin Valve with black pin
- **Locking clip** for physical lock or double lock in between the Pulsar body to the AD valve
- **Pressure regulation range:** 2.5-4.0 bar or 1.7-4.0 (according to the AD valve model)
- **Water distribution pattern:** 360 degrees, 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: 8 L/H Green, 12 L/H Fuchsia, 15 L/H Black, 20 L/H Orange&Black, 25 L/H Orange & Light Gray
- **Rec. filtration*:** 130 micr. / 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 100 ppm, pre-treatment shall be applied according to Netafim™ instructions

Pulsar™ UR WITH GyroNet™ HEAD IN UPRIGHT INSTALLATION (BLACK PULSAR TUBE)

MODEL	FLOW RATE (L/H)	WITH BLUE PIN AD VALVE, AT 2.5 BAR PRESSURE AT THE FLOW REGULATOR INLET			COVERAGE TYPE	WITH BLACK PIN AD VALVE, AT 1.7 BAR PRESSURE AT THE FLOW REGULATOR INLET			COVERAGE TYPE
		EFFECTIVE WETTED DIAMETER* (M)	WETTED AREA (M ²)	AVERAGE PRECIPITATION RATE ON THE EFFECTIVE WETTED DIAMETER (MM/H)		EFFECTIVE WETTED DIAMETER* (M)	WETTED AREA (M ²)	AVERAGE PRECIPITATION RATE ON THE EFFECTIVE WETTED DIAMETER (MM/H)	
GYRONET™ SSR	8	1.5	1.8	4.5	FOCUSED COVERAGE	2.0	3.1	2.5	FOCUSED COVERAGE
GYRONET™ SSR	12	2.0	3.1	3.8		2.0	3.1	3.8	
GYRONET™ SSR	15	2.5	4.9	3.1		2.5	4.9	3.1	
GYRONET™ SSR	20	2.5	4.9	4.1		2.5	4.9	4.1	
GYRONET™ SSR	25	3.0	7.1	3.5		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
GYRONET™ SRD	12	2.5	4.9	2.4		2.0	3.1	3.8	
GYRONET™ SRD	15	2.5	4.9	3.1		2.0	3.1	4.8	
GYRONET™ SRD	20	3.0	7.1	2.8		2.5	4.9	4.1	
GYRONET™ SRD	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
GYRONET™ SR	12	5.0	19.6	0.6		4.0	12.6	1.0	
GYRONET™ SR	15	5.0	19.6	0.8		4.0	12.6	1.2	
GYRONET™ SR	20	5.5	23.8	0.8		4.5	15.9	1.3	
GYRONET™ SR	25	6.0	28.3	0.9		4.5	15.9	1.6	

* Wetted diameter at 0.5 meter above crop surface

Pulsar™ UDB WITH GyroNet™ HEAD IN UPSIDE-DOWN INSTALLATION (GREY PULSAR TUBE)

MODEL	FLOW RATE (L/H)	PULSAR UDB WITH BLUE PIN AD VALVE, 2.5 BAR 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
GYRONET™ UD	15	6.5	33.2	0.5	
GYRONET™ UD	20	7.0	38.5	0.5	
GYRONET™ SR	12	3.5	9.6	1.2	WIDE COVERAGE
GYRONET™ SR	15	3.5	9.6	1.6	
GYRONET™ SR	20	4.0	12.6	1.6	

* Wetted diameter at 0.5 meter 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.

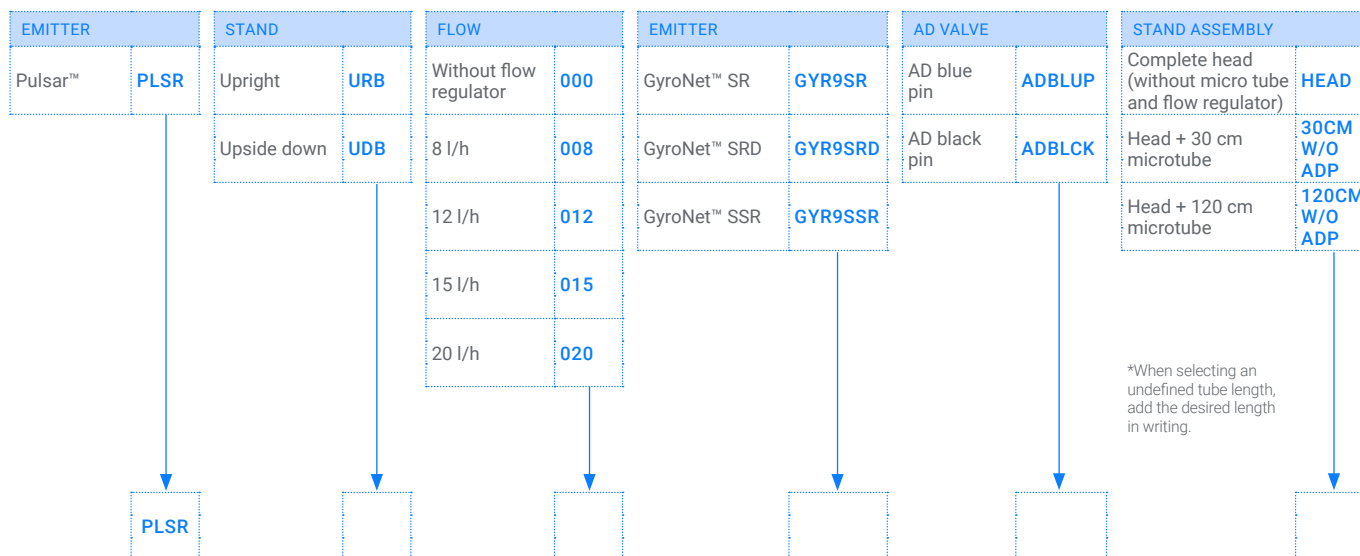
PACKAGING DATA

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 (120 CM.) W/O STAKE	50	28 X 27 X 113	8.8	16	800	141
COMPLETE UR STAND (200 CM.) W/O STAKE	50	28 X 27 X 113	9.2	16	800	147
COMPLETE UD STAND (30 CM.) W/O STAKE	100	28 X 27 X 113	15.2	16	1600	243

→ 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

PRODUCT DESCRIPTION	PLSR URB 020 GYR9SR ADBLUP 120CM
PRODUCT COMPONENTS	Pulsar™ , flow regulator 20 l/h, 120 cm micro-tube, tube with barb inlet connector, AD valve with blue pin, GyroNet™ head with SR (short range) swivel
CATALOG NUMBER	63700-008180

→ OTHER ACTIVE CATALOG NUMBERS

PRODUCT DESCRIPTION	CATALOG NUMBER
PLSR URB 008 GYR9SR ADBLUP 60CM	63700-007660
PLSR URB 020 GYR9SSR ADBLUP 120CM	63700-008190
PLSR URB 020 GYR9SSR ADBLUP 200CM	63700-008210
PLSR URB 025 GYR9SR ADBLUP 120CM	63700-008500
PLSR URB 025 GYR9SSR ADBLUP 120CM	63700-008550

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

→ 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

	6.0 MM ROD	BLUE	63520-005950
	8.0 MM ROD	BLACK	63520-005970


BLACK BAND 380*4.8 UV (100/BAG)

	FOR CORRECT INSTALLATION OF THE PULSAR™ UR IT IS RECOMMENDED TO USE SPECIAL UV PROTECTED BANDS FOR THIS PURPOSE	63720-001800
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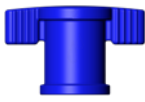
PULSAR AD VALVE

	PIN COLOR	BLUE	63700-001020
		BLACK	63700-001000


FROSTIE CONTROLLER

	PRODUCT DESCRIPTION	CATALOG NUMBER
	Frost mitigation controller. Single station valve controller powered by 2 AA alkaline batteries. Built in precision temperature and humidity sensors.	00045-001620

PULSAR PLUG - TO PLUG THE PULSAR TUBE

	63720-002500
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PULSAR LOCKING CLIP

	63720-001110
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