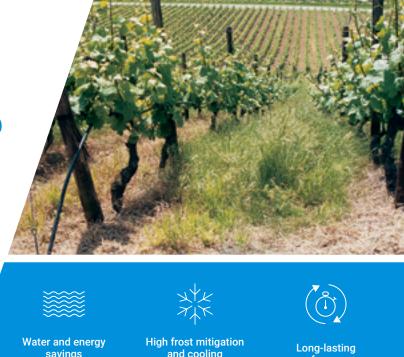
## Pulsar™ + StripNet<sup>™</sup> Head PRESSURE-COMPENSATED **EMITTER**

For efficient frost mitigation in narrow stripe crops.



savings

and cooling performance

performance





**Efficient frost mitigation** in vineyards or other narrow stripe crops



**Efficient stripe cooling** 

## **Benefits & Features**

→ Water and energy savings

Pulsar™ + StripNet™ offers narrow water distribution shape using 70% less water and energy than standard full-coverage sprinkler systems

- → Ensures high frost mitigation and cooling performance
- Pulsar™ + StripNet™ is a pressure compensated static microemitter 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-emitter head
- It 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 emitter units per hectare, infrastructure cost, and water consumption
- The product assists to avoid soil saturation and flooding is avoided even after many hours of irrigation
- Easy installation
- The Pulsar™ + StripNet™ has a unique mounting bracket on the vineyard posts (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

Pulsar™ + StripNet™ is made of plastic materials resistant to standard nutrients used in agricultural and weather conditions



## **Specifications & Recommendations**

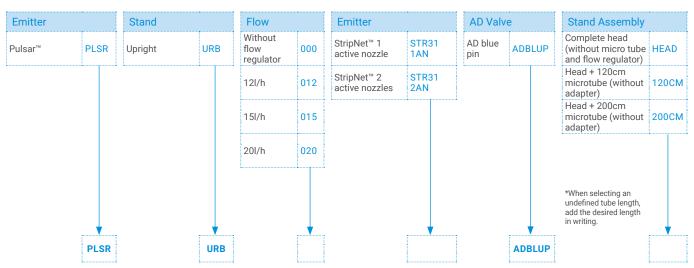
- 3 Different Flow Rates 12, 15, 20l/h
- Minimum Pressure At The Ad Valve 2.5bar
- Locking clip for physical lock or double lock in between the Pulsar body to the AD valve
- Pressure Regulation Range 2.5 4.0bar
- Water Distribution Pattern Rectangular water covering (stripe)
- 2 Nozzles Types -
  - For 50cm stripe width coverage Single active nozzle of the StripNet head, colored brown. And plug nozzle colored black
  - For 70cm stripe width coverage 2 active nozzle of the StripNet head, both colored green

- Installation Recommendations -
  - The recommendation distance between emitters is up to 5.0meters to achieve overlapping of the water
  - Vertical installation of the product. 50cm above vineyard tree-top
- Color Code -
  - 1 Single active nozzle of the StripNet head, colored brown and plug nozzle colored black
  - 2 Active nozzles of the StripNet head colored green
  - PCJ Dripper colored coded according to the flow rate: 12l/h fuchsia, 15l/h black, 20l/h orange
- Recommended Filtration\* 130mic./120mesh

#### → 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 012 STR31 1AN ADBLUP 150CM

Catalog Number: 63700-005010

Product components: Pulsar™, flow regulated, 12l/h, 150cm microtube, Pulsar tube with barb inlet connector, AD valve with blue pin, StripNet<sup>™</sup> head with 1 active nozzle (Brown)

#### > 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+stripNet)	150	36 X 31 X 53	7.2	18	2700	142
Complete UR stand (120 cm.) w/o stake	80	28 x 27 x 113	8.8	16	1280	141
Complete UR stand (200 cm.) w/o stake	80	28 x 27 x 113	9.2	16	1280	147

<sup>\*</sup>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

#### → Other Active Catalog Numbers

Model	Product Description	Catalog Number
	PLSR URB 012 STR31 ADBLUP 120CM	63700-005000
	PLSR URB 012 STR31 ADBLUP 150CM	63700-005010
1 Active nozzle (1 brown nozzle + black plug)	PLSR URB 012 STR31 ADBLUP 200CM	63700-005100
(1 blown hozzle 1 black plug)	PLSR URB 015 STR31 ADBLUP 200CM	63700-005150
	PLSR URB 020 STR31 ADBLUP 200CM	63700-005160
	PLSR URB 012 STR31 2AN ADBLUP 30CM	63700-004960
2 Active nozzles (2x green nozzles)	PLSR URB 012 STR31 2AN ADBLUP 200CM	63700-005110
	PLSR URB 012 STR31 2AN ADBLUP 400CM	63700-000010

<sup>\*</sup>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**



#### **Clamp For Metal Stakes**



#### Adapter To Metal/Fiberglass Rods



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



#### Pulsar AD Valve



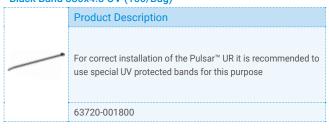
#### Pulsar Plug - To Plug The Pulsar Tube



#### **Pulsar Locking Clip**



#### Black Band 380x4.8 UV (100/Bag)



#### **Frostie Controller**



# Pulsar™ + StripNet<sup>™</sup> X

PRESSURE-COMPENSATED **EMITTER** 

A unique pressure-compensated microsprinkler, for efficient crop protection: Frost mitigation & heat protection for intensive and dense crops. Performed by spreading a stripe of water, focused over the trees row.









Water and energy savings

Vesratility

Long-lasting performance

**Applications** 



**Efficient frost mitigation** narrow stripe crops



Efficient cooling for

## **Benefits & Features**

- Maximize the water-use efficiency, highlyfocus and exact protection on the density crop top
- Pulsar™ + StripNet™ X is designed for wide-stripe water distribution, using less than 50% of the water required by full-coverage sprinkler systems
- Pulsar™ + StripNet™ X is designed specially for effective coverage of dense and intensive crop plantation
- Ensures high frost mitigation and cooling performance
- Pulsar™ + StripNet™ X is a pressure-compensated dynamic micro-sprinkler ensuring uniform performance along the field even across hilly terrains and long rows
- Pulsar<sup>™</sup> + StripNet<sup>™</sup> X consists of a pressure-compensated dripper, a micro tube, a Pulsar chamber with an air bag inside, an anti- drain valve and StripNet™ X micro-sprinkler head
- Reduced system & energy cost
- Innovative hydraulic pulsation technology enables protecting more area with the lowest possible flow rate. The Pulsar™ provides several pulses per minute, while ensuring continuous irrigation over a large area for many
- The unique pulsation mechanism allows each emitter to cover a large range while maintaining low flow, allowing reduction of emitter units per hectare, infrastructure cost, and water consumption
- Easy installation
- Pulsar<sup>™</sup> is easy to installed thanks to a unique mounting adapters suiting any type of stands (metal poles, stands or between wires)
- Simple maintenance
- The product is modular and can be disassembled easily for maintenance
- Long-lasting performance
- Pulsar™ + StripNet™ X is made of plastic-resistant materials to standard nutrients used in agriculture



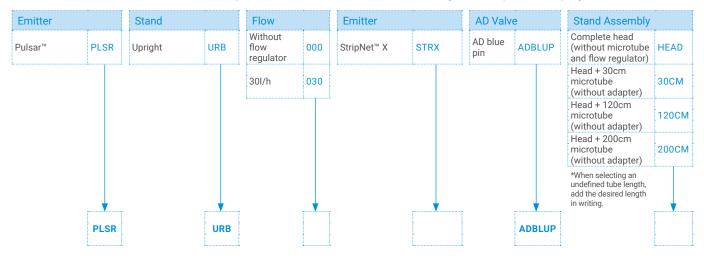
## Specifications & Recommendations

- One Flow Rate 30l/h
  (flow rate is defined by the PCJ dripper)
- Minimum Pressure At The Ad Valve 2.5bar
- Pressure Regulation Range 2.5 4.0bar
- Water Distribution Pattern Rectangular water covering - stripe of up to 1.2meter.
   Provides water stripe for 2 directions - vertical to the blue wings of the StripNet™ X body
- Installation Recommendations
  - The recommendation distance between emitters is 5.0meters to achieve overlapping of the water.
  - Vertical installation of the product 50cm above tree-top
  - StripNet<sup>™</sup> X alignment: Install the StripNet<sup>™</sup> X along the line, while the blue wings of the StripNet<sup>™</sup> X body are vertical to the crop-row
- Color Code PCJ Dripper: Colored coded according to the flow rate: 30l/h orange & brown
- Recommended Filtration\* 130mic. / 120mesh

#### → 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 030 STRX ADBLUP 200CM

Catalog Number: 63700-000034

**Product components:** Pulsar<sup>™</sup>, flow regulated dripper of 30l/h, 200cm microtube, Pulsar tube with barb inlet connector, AD valve with blue pin and StripNet<sup>™</sup> X head

#### -> Packaging Data

Pulsar™ with StripNet™ X	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 Pulsar Body + AD Valve + Stripnet X)	150	36 x 31 x 53	7.2	18	2700	142
Complete UR Stand + 120cm Tube W/O Stake	80	28 x 27 x 113	8.8	16	1280	141
Complete UR Stand + 200cm Tube W/O Stake	80	28 x 27 x 113	9.2	16	1280	147

<sup>\*</sup>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

#### → Other Active Catalog Numbers

Product Description	Catalog Number
PLSR URB 000 STRX ADBLUP HEAD	63700-000042
PLSR URB 030 STRX ADBLUP 30CM	63700-000041
PLSR URB 030 STRX ADBLUP 100CM	63700-000036
PLSR URB 030 STRX ADBLUP 150CM	63700-000033
PLSR URB 030 STRX ADBLUP 200CM	63700-000034
PLSR URB 030 STRX ADBLUP 350CM	63700-000035

<sup>\*</sup>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**



#### **Clamp For Metal Stakes**



#### Adapter To Metal/Fiberglass Rods



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



#### **Pulsar AD Valve**



#### StripNet X Mic Head Only



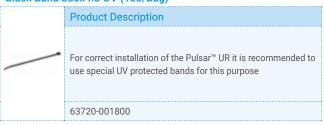
#### Pulsar Plug - To Plug The Pulsar Tube



#### **Pulsar Locking Clip**



#### Black Band 380x4.8 UV (100/Bag)

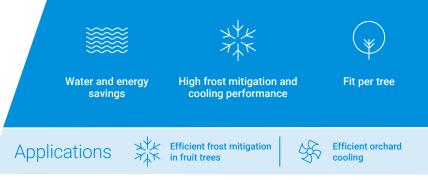


Frostie Contr	oller
	Product Description
	Frost mitigation controller. Single station valve controller powered by 2 AA alkaline batteries. aBuilt in precision temperature and humidity sensors.

# Pulsar™ + GyroNet™ Head PRESSURE-COMPENSATED EMITTER

For efficient frost mitigation in fruit trees.





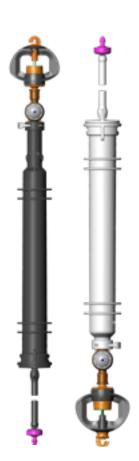
## **Benefits & Features**

- → Water and energy savings
- → Ensures high frost mitigation and cooling performance

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
- → Fit per tree
- Pulsar<sup>™</sup> + GyroNet<sup>™</sup> offers a wide range of GyroNet swivels to suit the tree-top diameter
- → Easy installation
- 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

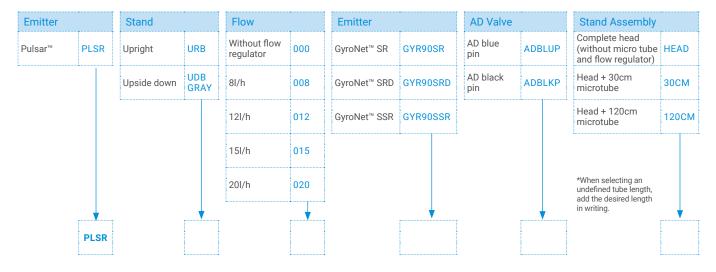
- 5 Different Flow Rates 8, 12, 15, 20, 25l/h
- Minimum Pressure At The Ad Valve -
- 2.5bar for Anti-Drain valve with blue pin
- 1.7bar for Anti-Drain valve with balck pin
- Locking clip for physical lock or double lock in between the Pulsar body to the AD valve
- Pressure Regulation Range 2.5-4.0bar 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<sup>™</sup> nozzle is color coded for easy identification of the flow rate.
  - GyroNet<sup>™</sup> 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

#### → 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<sup>™</sup>, flow regulator 20I/h, 120cm microtube, tube with barb inlet connector, AD valve with blue pin, GyroNet<sup>™</sup> head with SR (short range) swivel

<sup>\*</sup>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

#### → 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<sup>™</sup> UR + GyroNet<sup>™</sup> Head In Upright Installation (Black Pulsar Tube)

		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			
Model	Flow Rate (I/h)	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
	8	1.5	1.8	2.9		2.0	3.1	2.5	
	12	2.0	3.1	3.0		2.0	3.1	3.8	Focused coverage
GyroNet <sup>™</sup> SSR	15	2.0	4.9	3.1	Focused coverage	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	
	8	2.0	3.1	2.5		2.0	3.1	2.5	Focused coverage
	12	2.5	4.9	3.0		2.0	3.1	3.8	
GyroNet™ SRD	15	2.5	4.9	2.9	Focused coverage	2.0	3.1	4.8	
	20	3.0	7.1	2.8	ooverage	2.5	4.9	4.1	
	25	3.0	7.1	3.5		2.5	4.9	5.1	
	8	4.0	12.6	0.6		3.5	9.6	0.8	
	12	5.0	19.6	0.6		4.0	12.6	1.0	
GyroNet™ SR	15	5.0	19.6	0.8	Wide coverage	4.0	12.6	1.2	Wide coverage
	20	5.5	23.8	0.8	Jordiago	4.5	15.9	1.3	corolage
	25	6.0	28.3	0.9		4.5	15.9	1.6	

<sup>\*</sup> Wetted diameter at 0.5meter above crop surface

#### → Pulsar<sup>™</sup> UDB + GyroNet<sup>™</sup> Head In Upside-Down Installation (Grey Pulsar Tube)

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

<sup>\*</sup> 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 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

<sup>\*</sup>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**



#### **Clamp For Metal Stakes**



#### Adapter To Metal/Fiberglass Rods



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



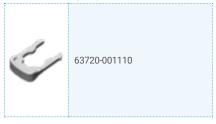
#### Pulsar AD Valve



#### Pulsar Plug - To Plug The Pulsar Tube



#### **Pulsar Locking Clip**



#### Black Band 380x4.8 UV (100/Bag)



#### **Frostie Controller**

