

CoolNet®

For evaporative cooling,
humidifying, rooting and
chemical applications

- Micro sized droplets at any pressure
- Acid resistant (AA) raw materials
- Bridgeless design eliminates dripping
- Interchangeable components



Ordering guide
03440-007-300-9
(this configuration)



Ordering guide
03420-007-302-9
(this configuration)

Blind nozzles



Ordering guide
03410-007-302-9
(this configuration)

MINI-SPRINKLERS

Cooling with Netafim CoolNet®

- Please consult your agronomist if the water quality is suitable for use with the CoolNet.
- Netafim has developed a unique emitter, which sprays droplets of 30-90µ at a standard irrigation pressure of 3-4 bars.
- Cooling effect is being achieved through water evaporation into the air, a process that absorbs 560 calories per each gram of water.
- CoolNet units are spread throughout the greenhouse for best distribution. Sensors with predetermined activation temperature and/or humidity levels are activating relevant valves.
- Length of pulse and interval are subject to local conditions such as external temperature, humidity, size and type of construction and crop.
- In order to maximize the cooling effect, exhaust-fans are recommended in order to exchange the air about 20 times per hour (about 2x48" fans per 1000 m²).

Humidifying with Netafim CoolNet®

- Using an identical technique as in the cooling, CoolNet could serve as a humidifier.
- Several crops require elevation of humidity in the air with or without wetting the vegetation. Working with identical pulse technique provides here identical results.
- In heated greenhouses, where air is dry due to the heating system, in mushroom habitats, Tropical pot nurseries etc, the CoolNet humidifies perfectly.

Propagating with Netafim CoolNet®

- Rooting cuttings and shoots require highly precise humidified environment. CoolNet is perfect for this purpose.
- For hardening (irrigation) use SpinNet (page 23-27).

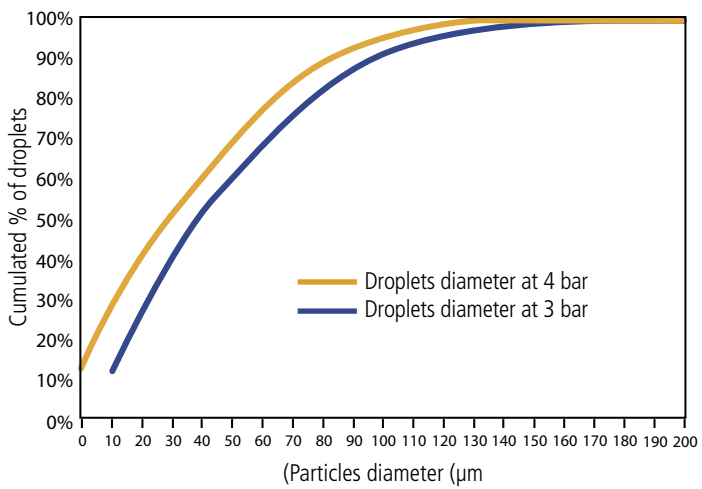
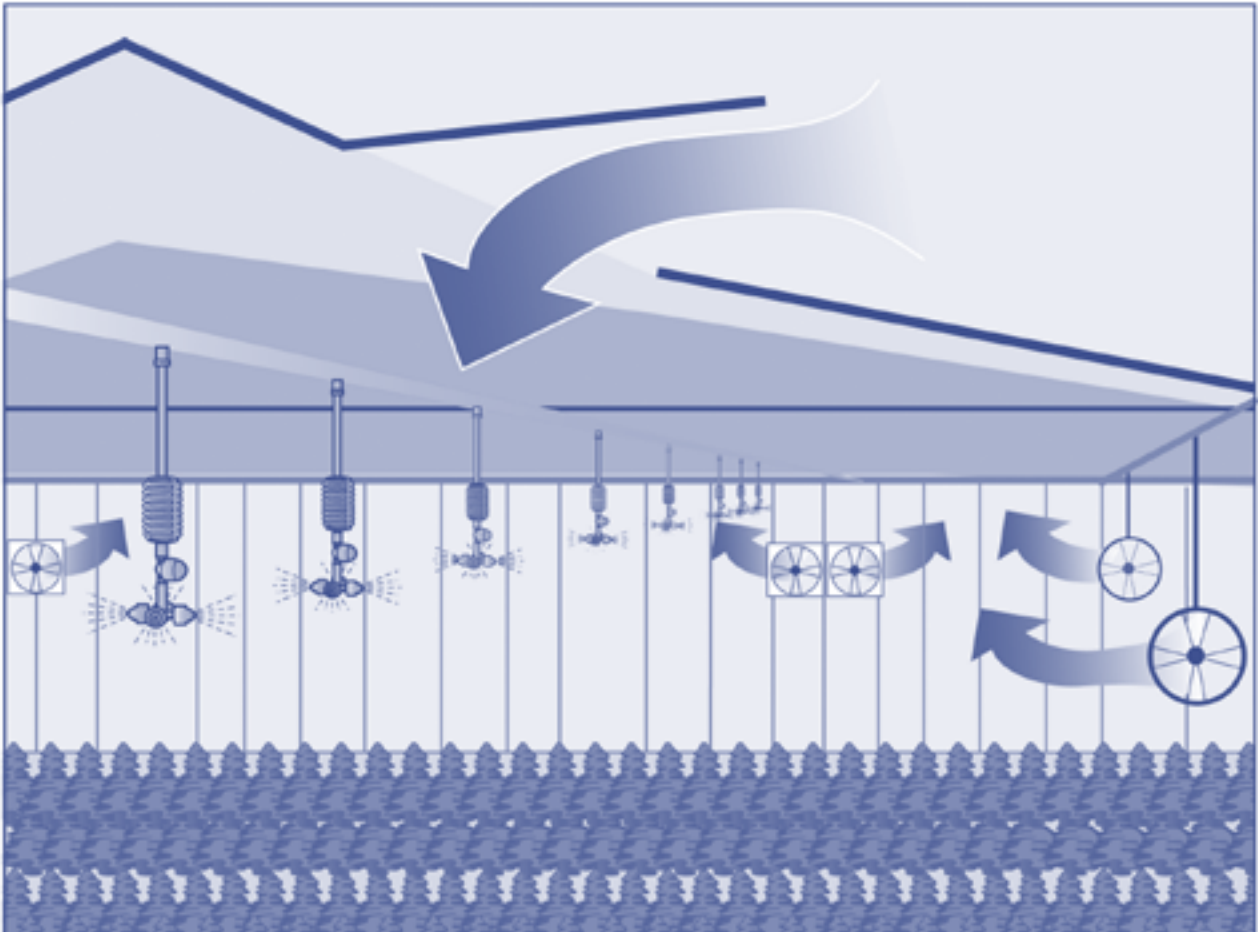
General application recommendations:

		(m)	(m)	(m)	(m)	(m)	(m)
Distance between units		1.00	1.50	2.00	3.00	2.00	3.00
Distance between lines		2.00	3.20	3.00	3.00	4.00	4.00
Units per 1000 m ²		500	208	167	111	125	83
Single Coolnet 1X7.5 l/h	*Pulse	3	5	10	20	30	40
	*Interval	50	30	50	60	111	85
Tee Coolnet 2X7.5 l/h	*Pulse	2	5	10	20	30	40
	*Interval	70	70	115	145	251	210
Cross Coolnet 4X5.0 l/h	*Pulse	2	5	8	15	20	30
	*Interval	60	80	100	120	250	300
Cross Coolnet 4X7.5 l/h	*Pulse	1	3	5	10	20	30
	*Interval	74	91	120	150	355	345

*Pulse-duration of operation in seconds, Interval-duration of pause in seconds.

- These recommendations are general and should be applied in accordance with local conditions and limitations.
- Duration of pulse and interval is to be finally tuned according to local conditions (i.e.- trial and error)
- Try to minimize length of pulse while making intervals sufficiently long to enable proper vaporization.
- For cooling, make sure there is proper air exchange either natural or with fans.





Droplets size of CoolNet 7.5 l/h nozzle as tested by the CEMAGREF French insitute.

(Cemagref Test Report N° 153/GB 2002-11-15)

DROPTTEST

Recommended working pressure: 3-4 bar • Recommended filtration: 200 mesh •

®CoolNet	Nozzle color code	Size nozzle Ø (mm)	Pressure (bar)	Flow rate (l/h)	Misted range (m)
x 5.0 1	purple	0.62	3.0	4.9	1.5
			4.0	5.5	
x 7.5 1	Light gray	0.62	3.0	6.5	1.5
			4.0	7.5	
			5.0	8.4	
x 5.0 4	purple	0.62	3.0	17.5	1.5
			4.0	19.8	
x 7.5 4	Light gray	0.62	3.0	26.0	1.5
			4.0	30.0	
			5.0	34.0	
x 16 1	Sky blue	0.91	3.0	14.0	1.5
			4.0	16.0	
			5.0	18.0	
x 16 2	Sky blue	0.91	3.0	28.0	1.5
			4.0	32.0	
			5.0	36.0	
x 16 4	Sky blue	0.91	3.0	56.0	1.5
			4.0	64.0	
			5.0	72.0	

affected by poor The performance data have been recorded under ideal test conditions. Coolnet performance may be adversely :NOTE (Drop size is within the pressure range: 100 micron - MMD (Mass Median Diameter) .hydraulic entrance, wind and other factors

034	Outlets	Flow	Stand assembly	Connector to lateral pipe	Accessories
	Cross, 4 outlets . 40 "T", 2 outlets. . . 20 Single outlet. . . 10	5 l/h..... 005 7 l/h..... 007 16 l/h..... 016	UD stand, w/o microtube 30 UD stand, microtube 15 + stab..... 15 UD stand, microtube 30 + stab..... 32 UD stand, microtube 60 + stab..... 35 UD stand, microtube 90 + stab..... 38	W/o connector0 Male/barb (2 part) to PE..... 1 Male thread 3/8" conic (2 parts) to PVC 2 Barb/barb (1 part) to PE pipe 8	Anti Drain valve 1.5/0.7 . 6 Anti Drain valve 2.0/0.9 . 7 Anti Drain valve 3.0/1.5 . 8 Anti Drain valve 4.0/1.8 . 9



Description	Catalog number
A.D. valve male/female, orange pin 40/18	63000-003200



Description	Catalog number
Cross body + 4 heads x 5.0	63100-015850

Cross body + 4 heads x 7.5	63100-001000
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Body + 4 heads x 16.0	63100-006500
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Cross body + 1 head x 5.0	63100-015500
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Cross body + 1 head x 7.5	63100-004000
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Body + 1 head x 16.0	63100-011000
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Description	Catalog number
Nozzle 5.0 (purple color)	63120-001950

Nozzle 7.5 (light gray color)	63120-001900
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Nozzle 16 (light blue color)	63120-002000
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Nozzle 0.0 plugged (orange)	63120-001850
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Description	Catalog number
Connector barb/female	63000-001950



Description	Catalog number
Connector male/male	63000-001450



Description	Catalog number
Connector barb/male	63000-002060



Description	Catalog number
Connector barb/barb	63000-001350



Description	Catalog number
Connector 3/8" conic threaded/female (Recommended use 7.9 mm. drill and screw- tap 3/8"BSW)	63000-002120



Description	Catalog number
Connector M11F/female (Recommended use 9.8 mm drill and screw-tap M11x1)	63000-002170