



# OVER TREE COOLING FOR ORCHARDS

Over tree sprinkler systems for evaporative cooling, enhancing colour development and frost protection in fruit tree orchards.



Direct sunlight on fruit together with high ambient temperature has the potential to cause sun damage. Over tree sprinkler systems are used to reduce the temperature of the fruit and leaves via evaporative cooling and can therefore help reduce the incidence of sun damage.

Over tree systems are installed on centre leader or open vee trellising and are generally in addition to the principal irrigation method which may be drip or micro sprinklers. With correct sprinkler selection the system is suitable for use under protective netting.

The over tree sprinkler system can also be used to help develop colour in certain apple varieties. The system may also assist in reducing damage in light frost situations.

The Opal and Super 10 sprinklers are the superior choice for over tree cooling systems.



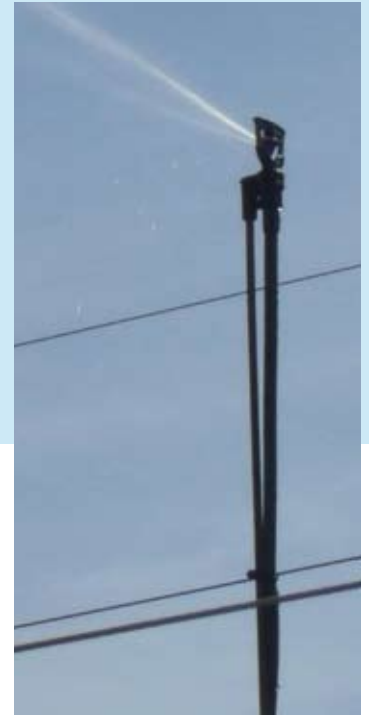


# OPAL



OPAL PERFORMANCE TABLE

Swivel	Nozzle Color, Size (mm)	P (bar)	Q (l/h)	D (m)
Z10 15° Purple	Blue 2.0mm	1.5	190	14.6
		2	215	14.8
		2.5	245	14
Z11 15° Orange	Orange 2.2mm	1.5	230	16.8
		2	265	16.8
		2.5	295	16.8
Z11 15° Orange	Purple 2.4mm	1.5	270	17
		2	315	17
		2.5	350	17
Z11 15° Orange	Yellow 2.6mm	1.5	320	17
		2	370	17
		2.5	415	16
Z12 24° Brown	Orange 2.2mm	1.5	230	16
		2	265	17
		2.5	295	17.8
Z12 24° Brown	Purple 2.4mm	1.5	270	17
		2	315	17
		2.5	350	17
Z12 24° Brown	Yellow 2.6mm	1.5	320	16
		2	370	16.8
		2.5	415	16.8



# SUPER 10



SUPER 10 PERFORMANCE TABLE

Nozzle Color	P (bar)	Q (l/h)	D (m)
Blue	2.5	360	17
	3	395	17
	3.5	425	16.5
Flow Reg	3.0 - 5.0	360	20
Yellow	2.5	450	20
	3	495	20
	3.5	530	19.5
Flow Reg	3.0 - 5.0	450	20
Green	2.5	550	20
	3	600	20
	3.5	650	20
Flow Reg	3.0 - 5.0	550	20
Red	2.5	670	20.5
	3	735	20.5
	3.5	790	20
Flow Reg	3.0 - 5.0	670	20.5

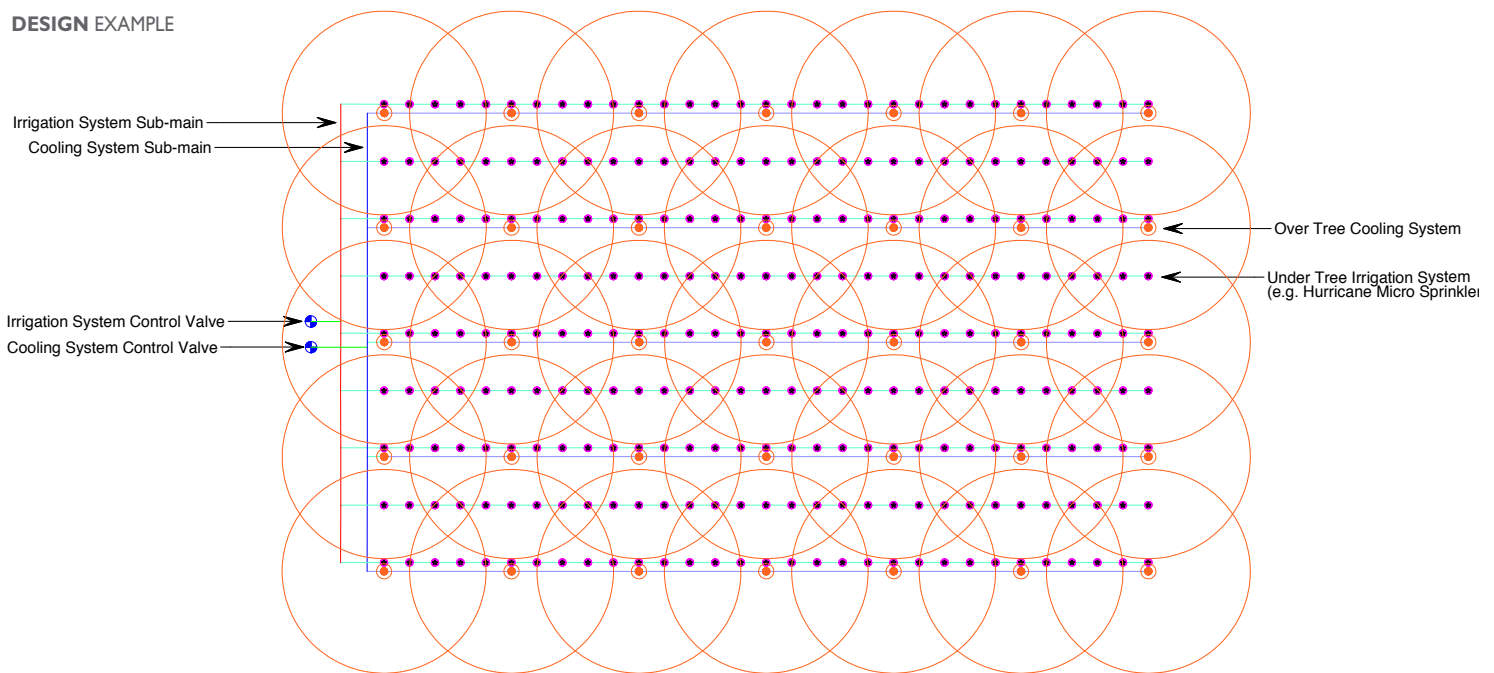




#### OPAL & SUPER 10 EXAMPLES

Trellis Cover	Sprinkler	Nozzle	Swivel	Bar	l/h	Spacing	mm/h
Netting	Opal	Blue 2.0mm	Z10 15° Purple	1.5	190	7 x 10	2.7
Netting	Opal	Blue 2.0mm	Z10 15° Purple	1.5	190	7 x 12	2.2
Netting	Opal	Yellow 2.6mm	Z11 15° Orange	1.5	320	8 x 10.5	3.8
Netting	Opal	Purple 2.4mm	Z11 15° Orange	1.5	270	12 x 9	2.5
Open	Opal	Orange 2.2mm	Z12 24° Brown	2	265	12 x 10	2.2
Open	Super 10	Blue	25° Black	2.5	360	12 x 10	3
Open	Super 10	Yellow	25° Black	2.5	450	12 x 14	2.7

#### DESIGN EXAMPLE



For further information please contact NaanDanJain.

© 2013 NaanDanJain Ltd. All rights reserved.  
All specifications are subject to change without notice.